GW - __028__

2017
AGWMR
(5 of 7)

2018

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

2017 Annual Groundwater Monitoring Report

HollyFrontier Navajo Refining LLC, Artesia Refinery, Artesia, New Mexico

Area	Well ID	Date	Dup	Analyte Group: TPH Analyte: GRO	Analyte Group: TPH Analyte: DRO	Analyte Group: TPH Analyte: DRO - EP
				Units: mg/L	Units: mg/L	Units: mg/L
				CGWSL: ---	CGWSL: 0.0398	CGWSL: 0.0473
				CGWSL Source:	CGWSL Source: NMED TPH	CGWSL Source: NMED TPH
Cross-Gradient	KWB-13	Apr-14			<0.0200	
	KWB-13	Apr-15			**0.0630** J	
	KWB-13	Apr-16			**0.0505** J	
	KWB-13	Apr-17			0.0370 J	
	MW-17	Apr-14			0.0380 J	
	NP-5	Apr-13			**<0.0530**	
	NP-5	Apr-15			0.0387 J	
	NP-5	Apr-17			<0.0247	
	RA-3156	Nov-13				
	RA-3156	Apr-14				
	RA-3156	Apr-16				
	RA-3156	Apr-17				
	MW-136	Oct-15		<0.0314	**0.0721** J	
	MW-136	Apr-16		<0.0314	**0.162**	
	MW-136	Oct-16		<0.0314	**0.118**	
	MW-136	Apr-17		<0.0314	**0.0731** J	
	MW-136	Oct-17		<0.0314	**0.0937** J	
Evaporation Ponds	MW-1R	Apr-14				<0.0200
	MW-1R	Apr-15				**0.124**
	MW-1R	Apr-16				**0.163**
	MW-1R	Apr-17				**0.0583** J
	MW-2A	Apr-15		<0.0310		**0.295**
	MW-2A	Oct-15		0.0363 J		**0.260**
	MW-2A	Apr-16		<0.0314		**0.212**
	MW-2A	Oct-16		0.0435 JB		**0.195**
	MW-2A	Apr-17		<0.0314		**0.164**
	MW-2A	Oct-17		0.0354 J		**0.265**
	MW-3	Apr-15		0.134		**8.50**
	MW-3	Apr-15	FD	0.151 J		**8.60**
	MW-3	Oct-15		3.59		**11.2**
	MW-3	Oct-15	FD	0.839		**10.2**
	MW-3	Apr-16		0.499		**10.2**
	MW-3	Apr-16	FD	0.490		**9.97**
	MW-3	Oct-16		0.611		**11.0**
	MW-3	Oct-16	FD	0.571		**10.5**
	MW-3	Apr-17		0.205		**8.09**
	MW-3	Apr-17	FD	0.263		**7.74**
	MW-3	Oct-17		0.602		**13.1**
	MW-3	Oct-17	FD	0.834		**4.17**
	MW-4A	Apr-15		0.130		**5.60**
	MW-4A	Oct-15		3.44		**9.81**
	MW-4A	Apr-16		0.402		**8.76**
	MW-4A	Oct-16		0.396		**5.84**
	MW-4A	Apr-17		0.607		**8.15**
	MW-4A	Oct-17		0.730		**7.49**
	MW-4B	Apr-13		0.102		**0.360**
	MW-4B	Apr-15		0.119		**1.31**
	MW-4B	Apr-17		0.318		**1.21**
	MW-5A	Apr-15		1.19		**4.30**
	MW-5A	Oct-15		1.72		**2.31**
	MW-5A	Apr-16		2.09		**8.92**
	MW-5A	Oct-16		1.17		**3.08**
	MW-5A	Apr-17		3.00		**7.60**
	MW-5A	Oct-17		2.75		**7.16**
	MW-5B	Apr-13		1.78		**7.10**
	MW-5B	Apr-15		1.14		**11.0**
	MW-5B	Apr-17		2.08		**11.2**
	MW-5C	Apr-13		0.0652		**0.220**
	MW-5C	Apr-15		<0.0310		**0.580**
	MW-5C	Apr-17		<0.0314		**0.500**
	MW-6A	Apr-14		0.238		**1.50**
	MW-6A	Apr-15		<0.0310		**4.50**
	MW-6A	Apr-16		<0.0314		**4.81**
	MW-6A	Apr-17		0.335		**14.2**
	MW-6B	Mar-13		<0.0500		**<0.0530**
	MW-6B	Mar-13	FD	<0.0500		**<0.0540**
	MW-6B	Apr-15		<0.0310		**0.386**
	MW-6B	Apr-17		<0.0314		**0.276**
	MW-7A	Apr-15		0.201		**1.20**
	MW-7A	Apr-15	FD	0.190 J		**1.20**
	MW-7A	Oct-15		0.347		**1.06**
	MW-7A	Oct-15	FD	0.417		**1.13**
	MW-7A	Apr-16		0.251		**1.22**
	MW-7A	Apr-16	FD	0.269		**1.32**
	MW-7A	Oct-16		0.235		**1.21**
	MW-7A	Oct-16	FD	0.212		**1.25**
	MW-7A	Apr-17		0.501		**1.12**
	MW-7A	Apr-17	FD	0.402		**1.24**
	MW-7A	Oct-17		0.473		**1.30**
	MW-7A	Oct-17	FD	0.523		**1.39**
	MW-7B	Apr-13		<0.0500		**<0.0530**
	MW-7B	Apr-15		<0.0310		**0.120**
	MW-7B	Apr-17		<0.0314		**0.0845** J
	MW-10	Apr-15		0.410 J		**2.60**
	MW-10	Oct-15		0.730		**1.79**
	MW-10	Apr-16		1.06		**3.19**
	MW-10	Oct-16		1.05		**2.65**
	MW-10	Apr-17		0.877		**2.75**
	MW-10	Oct-17		1.11		**2.51**
	MW-11A	Apr-15		<0.0310		**0.0558** J
	MW-11A	Oct-15				
	MW-11A	Apr-16		<0.0314		<0.0247
	MW-11A	Oct-16				
	MW-11A	Apr-17		<0.0314		<0.0247
	MW-11A	Oct-17				
	MW-11B	Mar-13		<0.0500		**<0.0520**
	MW-11B	Apr-15		<0.0310		<0.0250
	MW-11B	Apr-17		<0.0314		<0.0247
	MW-12	Apr-14				<0.0200
	MW-13	Apr-14				<0.0200
	MW-15	Apr-14		0.149		**0.570**
	MW-15	Apr-15		<0.160		**1.01**
	MW-15	Apr-16		0.203		**0.549**
	MW-15	Apr-17		0.0940 J		**0.251**
Evaporation Ponds	MW-18A	Apr-15				**0.0770** J
	MW-18A	Oct-15				**0.215**
	MW-18A	Apr-16				**0.460**
	MW-18A	Oct-16				**0.424**
	MW-18A	Apr-17				**0.516**
	MW-18A	Oct-17				**0.520**
	MW-18B	Apr-13		0.0995		**<0.0520**
	MW-18B	Apr-15		<0.0310		**0.280**
	MW-18B	Apr-17		0.0932 J		**0.287**
	MW-22A	Apr-15		2.57		**5.80**
	MW-22A	Apr-15	FD	3.80		**6.39**
	MW-22A	Oct-15		3.63		**4.56**
	MW-22A	Oct-15	FD	3.31		**4.46**
	MW-22A	Apr-16		3.53		**7.43**
	MW-22A	Apr-16	FD	4.02		**7.66**
	MW-22A	Oct-16		3.48		**5.73**
	MW-22A	Oct-16	FD	3.25		**6.18**
	MW-22A	Apr-17		3.63		**6.65**
	MW-22A	Apr-17	FD	4.22		**6.63**
	MW-22A	Oct-17		4.51		**6.03**
	MW-22A	Oct-17	FD	4.42		**6.50**
	MW-22B	Apr-13		1.99		**3.00**
	MW-22B	Apr-15		2.34		**5.60**
	MW-22B	Apr-17		1.76		**5.25**
	MW-70	Apr-15		1.27 J		**0.790**
	MW-70	Oct-15		1.37		**0.599**
	MW-70	Apr-16		1.46		**0.896**
	MW-70	Oct-16		1.32		**0.772**
	MW-70	Apr-17		2.35		**0.899**
	MW-70	Oct-17		1.78		**0.865**
	MW-72	Apr-14		0.0920		**0.760**
	MW-72	Apr-15		<0.0310		**1.30**
	MW-72	Apr-16		<0.0314		**0.950**
	MW-72	Apr-17		0.118		**1.03**
	MW-73	Apr-14		0.985		**4.80**
	MW-73	Apr-15		0.378		**4.00**
	MW-73	Apr-16		0.925		**5.17**
	MW-73	Apr-17		0.367		**3.68**
	MW-74	Apr-15		0.0910 J		**38.0**
	MW-74	Oct-15		3.23		**18.9**
	MW-74	Apr-16		1.20		**18.4**
	MW-74	Oct-16		0.135		**64.3**
	MW-74	Apr-17		1.01		**31.5**
	MW-74	Oct-17		1.18		**36.5**
	MW-75	Apr-15		2.31		**22.0**
	MW-75	Oct-15		10.9		**19.6**
	MW-75	Apr-16		1.39		**18.2**
	MW-75	Oct-16		2.46		**16.6**
	MW-75	Apr-17		1.46		**16.7**
	MW-75	Oct-17		2.52		**20.6**
	MW-76	Apr-15		0.356 J		**21.0**
	MW-76	Oct-15		0.773		**25.2**
	MW-76	Apr-16		0.759		**24.1**
	MW-76	Oct-16		2.19		**43.7**
	MW-76	Apr-17		1.02		**31.1**
	MW-76	Oct-17		1.92		**45.5**
	MW-77	Apr-15		0.893		**140**
	MW-77	Oct-15		2.68		**173**
	MW-77	Apr-16		0.968		**101**
	MW-77	Oct-16		1.53 J		**86.1**
	MW-77	Apr-17		1.11		**57.5**
	MW-78	Apr-14		0.333 J		**29.0**
	MW-78	Apr-15		0.279		**67.0**
	MW-78	Apr-16		0.269		**63.2**
	MW-78	Apr-17		<0.314		**59.1**
	MW-79	Apr-15		<0.0310		**0.560**
	MW-79	Oct-15		0.0383 J		**0.575**
	MW-79	Apr-16		<0.0314		**0.516**
	MW-79	Oct-16		0.0513 J		**0.413**
	MW-79	Apr-17		<0.0314		**0.498**
	MW-79	Oct-17		0.0568 J		**0.454**
	MW-80	Apr-14		0.0489 J		**0.200**
	MW-80	Apr-15		<0.0310		**0.750**
	MW-80	Apr-16		<0.0314		**0.317**
	MW-80	Apr-17		<0.0314		**0.680**
	MW-81	Apr-14		0.0318 J		**3.60**
	MW-81	Apr-15		<0.0310		**8.00**
	MW-81	Apr-16		0.0339 J		**8.64**
	MW-81	Apr-17		<0.0314		**4.84**
	MW-82	Apr-14		0.611		**4.20**
	MW-82	Apr-14	FD	0.649		**4.20**
	MW-82	Apr-15		0.361		**14.0**
	MW-82	Apr-16		0.334		**8.41**
	MW-82	Apr-17		0.660		**6.40**
	MW-83	Apr-15		0.278		**31.0**
	MW-83	Oct-15		6.26		**40.3**
	MW-83	Apr-16		0.310		**26.0**
	MW-83	Oct-16		0.234		**28.9**
	MW-83	Apr-17		0.305		**29.8**
	MW-83	Oct-17		0.805		**36.2**
	MW-84	Apr-15		0.613		**62.0**
	MW-84	Oct-15		1.96		**82.1**
	MW-84	Apr-16		0.519		**83.8**
	MW-84	Oct-16		1.58 J		**95.3**
	MW-84	Apr-17		<0.314		**4.92**
	MW-84	Oct-17		1.16		**67.0**
	MW-87	Apr-15		<0.0310		**0.390**
	MW-87	Oct-15		0.0451 J		**0.251**
	MW-87	Apr-16		0.0421 J		**0.449**
	MW-87	Oct-16		<0.0314		**0.405**
	MW-87	Apr-17		<0.0314		**0.356**
	MW-87	Oct-17		0.0463 J		**0.399**

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

2017 Annual Groundwater Monitoring Report

HollyFrontier Navajo Refining LLC, Artesia Refinery, Artesia, New Mexico

				Analyte Group:	TPH		
				Analyte:	GRO	DRO	DRO - EP
				Units:	mg/L	mg/L	mg/L
				CGWSL:	---	0.0398	0.0473
				CGWSL Source:		NMED TPH	NMED TPH
Area	Well ID	Date	Dup				
Evaporation Ponds	MW-88	Apr-15		<0.0310		**0.610**	
	MW-88	Oct-15		<0.0314		**0.455**	
	MW-88	Apr-16		<0.0314		**0.636**	
	MW-88	Oct-16		0.0848 J		**0.635**	
	MW-88	Apr-17		<0.0314		**0.516**	
	MW-88	Oct-17		0.0514 J		**0.627**	
	MW-120	Apr-15		<0.0310		**3.09**	
	MW-120	Oct-15		0.181		**1.30**	
	MW-120	Apr-16		0.0845 J		**1.82**	
	MW-120	Oct-16		<0.0314		**0.920**	
	MW-120	Apr-17		0.0584 J		**0.813**	
	MW-120	Oct-17		0.150		**0.737**	
	MW-121	Apr-15		<0.0310		**0.565**	
	MW-121	Oct-15		<0.0314		**0.460**	
	MW-121	Apr-16		<0.0314		**0.456**	
	MW-121	Oct-16		0.0514 JB		**0.593**	
	MW-121	Apr-17		<0.0314		**0.428**	
	MW-121	Oct-17		<0.0314		**0.567**	
	MW-122	Apr-15		<0.0310		**4.79**	
	MW-122	Oct-15		0.0340 J		**6.06**	
	MW-122	Apr-16		<0.0314		**0.824**	
	MW-122	Oct-16		0.0443 JB		**0.412**	
	MW-122	Apr-17		<0.0314		**0.850**	
	MW-122	Oct-17		0.0385 J		**0.429**	
	MW-123	Apr-15		1.90		**3.60**	
	MW-123	Oct-15		1.24		**2.13**	
	MW-123	Apr-16		1.83		**3.82**	
	MW-123	Oct-16		1.50		**3.53**	
	MW-123	Apr-17		1.96		**3.36**	
	MW-123	Oct-17		1.96		**3.08**	
	MW-124	Apr-15		<0.0310 J		**0.0550** J	
	MW-124	Oct-15		<0.0314		0.0298 J	
	MW-124	Apr-16		<0.0314		<0.0247	
	MW-124	Oct-16		<0.0314		<0.0247	
	MW-124	Apr-17		<0.0314		0.0365 J	
	MW-124	Oct-17		<0.0314		**0.0643** J	
	OCD-1R	Apr-15		<0.0310		**0.242**	
	OCD-1R	Oct-15		<0.0314		**0.266**	
	OCD-1R	Apr-16		<0.0314		**0.241**	
	OCD-1R	Oct-16		0.0450 J		**0.267**	
	OCD-1R	Apr-17		<0.0314		**0.255**	
	OCD-1R	Oct-17		0.0377 J		**0.268**	
	OCD-2A	Apr-15		<0.0310		**0.104**	
	OCD-2A	Oct-15		<0.0314		0.0455 J	
	OCD-2A	Apr-16		<0.0314		**0.0682** J	
	OCD-2A	Oct-16		0.0333 J		**0.0722** J	
	OCD-2A	Apr-17		<0.0314		**0.0497** J	
	OCD-2A	Oct-17		<0.0314		**0.123**	
	OCD-3	Apr-15		<0.0310		**0.0484** J	
	OCD-3	Oct-15		<0.0314		0.0251 J	
	OCD-3	Apr-16		<0.0314		<0.0247	
	OCD-3	Oct-16		<0.0314		<0.0247	
	OCD-3	Apr-17		<0.0314		<0.0247	
	OCD-3	Oct-17		<0.0314		**0.173**	
	OCD-4	Apr-15		<0.0310		0.0464 J	
	OCD-4	Oct-15		<0.0314		<0.0247	
	OCD-4	Apr-16		<0.0314		<0.0247	
	OCD-4	Oct-16		<0.0314		<0.0247	
	OCD-4	Apr-17		<0.0314		<0.0247	
	OCD-4	Oct-17		<0.0314		**0.0981** J	
	OCD-5	Apr-15		<0.0310		**0.218**	
	OCD-5	Oct-15		0.0402 J		**0.0951** J	
	OCD-5	Apr-16		<0.0314		**0.0576** J	
	OCD-5	Oct-16		0.0391 J		0.0423 J	
	OCD-5	Apr-17		0.0353 J		**0.102**	
	OCD-5	Oct-17		0.255		**0.331**	
	OCD-6	Apr-15		0.0819 J		**1.00**	
	OCD-6	Oct-15		1.88		**1.09**	
	OCD-6	Apr-16		0.0939		**1.11**	
	OCD-6	Oct-16		0.242		**1.11**	
	OCD-6	Apr-17		0.199		**0.858**	
	OCD-6	Oct-17		0.294		**1.04**	
	OCD-7AR	Apr-15		0.715		**4.29**	
	OCD-7AR	Oct-15		1.20		**4.12**	
	OCD-7AR	Apr-16		0.443		**5.24**	
	OCD-7AR	Oct-16		1.08		**5.28**	
	OCD-7AR	Apr-17		0.710		**4.43**	
	OCD-7AR	Oct-17		1.29		**4.52**	
	OCD-7B	Mar-13		<0.0500		**<0.0520**	
	OCD-7B	Apr-15		<0.0310		**0.120**	
	OCD-7B	Apr-17		<0.0314		**0.0746** J	
	OCD-8A	Apr-15		0.491		**2.60**	
	OCD-8A	Oct-15		0.648		**2.74**	
	OCD-8A	Apr-16		0.726		**3.26**	
	OCD-8A	Oct-16		0.714		**3.23**	
	OCD-8A	Apr-17		1.23		**3.46**	
	OCD-8A	Oct-17		1.34		**3.49**	
	OCD-8B	Apr-13		0.298		**0.890**	
	OCD-8B	Apr-15		<0.0310		**0.840**	
	OCD-8B	Apr-17		<0.0314		**0.585**	
Field East of Refinery	KWB-1A	Apr-15			**0.0932** J		
	KWB-1A	Oct-15			**0.114**		
	KWB-1A	Apr-16			**0.127**		
	KWB-1A	Oct-16			**0.166**		
	KWB-1A	Apr-17			**0.102**		
	KWB-1A	Oct-17			**0.158**		
	KWB-1C	Apr-13			**<0.0440**		
	KWB-1C	Apr-15			**0.113**		
	KWB-1C	Apr-17			**0.140**		
	KWB-7	Apr-15			**1.43**		
	KWB-7	Oct-15			**0.721**		
	KWB-7	Apr-16			**1.22**		
	KWB-7	Oct-16			**1.06**		
	KWB-7	Apr-17			**1.40**		
	KWB-7	Oct-17			**1.69**		

				Analyte Group:	TPH		
				Analyte:	GRO	DRO	DRO - EP
				Units:	mg/L	mg/L	mg/L
				CGWSL:	---	0.0398	0.0473
				CGWSL Source:		NMED TPH	NMED TPH
Area	Well ID	Date	Dup				
Field East of Refinery	KWB-8	Oct-16				**3.02**	
	KWB-8	Apr-17				**3.41**	
	KWB-8	Oct-17				**3.30**	
	KWB-10R	Apr-15				**9.16**	
	KWB-10R	Oct-15				**4.65**	
	KWB-10R	Apr-16				**5.24**	
	KWB-10R	Oct-16				**7.50**	
	KWB-10R	Apr-17				**4.01**	
	KWB-10R	Oct-17				**5.18**	
	KWB-11A	Apr-15		0.339		**1.87**	
	KWB-11A	Oct-15		0.217		**0.646**	
	KWB-11A	Apr-16		0.267		**3.74**	
	KWB-11A	Oct-16		0.223 B		**1.36**	
	KWB-11A	Apr-17		0.155		**0.511**	
	KWB-11A	Oct-17		0.371		**12.2**	
	KWB-11B	Apr-15		<0.0310		0.0365 J	
	KWB-11B	Oct-15		<0.0314		<0.0247	
	KWB-11B	Apr-16		<0.0314		<0.0247	
	KWB-11B	Oct-16		0.0565 JB		0.0388 J	
	KWB-11B	Apr-17		<0.0314		0.0339 J	
	KWB-11B	Oct-17		<0.0314		**0.203**	
	KWB-12A	Apr-15		<0.0310		0.0310 J	
	KWB-12A	Apr-15	FD	<0.0310		**0.305**	
	KWB-12A	Oct-15		<0.0314		<0.0247	
	KWB-12A	Apr-16		<0.0314		0.0377 J	
	KWB-12A	Oct-16		0.0348 JB		0.0329 J	
	KWB-12A	Apr-17		<0.0314		0.0359 J	
	KWB-12A	Oct-17		0.0318 J		**0.0474** J	
	KWB-12B	Apr-15		<0.0310		**0.0740** J	
	KWB-12B	Oct-15		<0.0314		<0.0247	
	KWB-12B	Oct-15	FD	<0.0314		0.0372 J	
	KWB-12B	Apr-16		<0.0314		<0.0247	
	KWB-12B	Apr-16	FD	<0.0314		<0.0247	
	KWB-12B	Oct-16		0.0581 JB		0.0351 J	
	KWB-12B	Oct-16	FD	0.0416 JB		**0.0806** J	
	KWB-12B	Apr-17		<0.0314		<0.0247	
	KWB-12B	Apr-17	FD	<0.0314		<0.0247	
	KWB-12B	Oct-17		<0.0314		**0.0424** J	
	KWB-12B	Oct-17	FD	<0.0314		**0.0765** J	
	KWB-P4	Apr-13				**<0.0520**	
	KWB-P4	Apr-15				**0.0820** J	
	KWB-P4	Apr-17				**0.0526** J	
	MW-57	Apr-15		<0.0310		**0.200**	
	MW-57	Oct-15		<0.0314		**0.242**	
	MW-57	Apr-16		<0.0314		**0.198**	
	MW-57	Oct-16		0.0467 JB		**0.103**	
	MW-57	Apr-17		<0.0314		**0.195**	
	MW-57	Oct-17		<0.0314		**0.0940** J	
	MW-58	Apr-15				**9.00**	
	MW-58	Oct-15				**5.11**	
	MW-58	Apr-16				**6.27**	
	MW-58	Oct-16				**7.78**	
	MW-58	Apr-17				**7.23**	
	MW-58	Oct-17				**9.77**	
	MW-111	Apr-15		1.37		**1.90**	
	MW-111	Oct-15		0.674		**2.10**	
	MW-111	Apr-16		1.31		**2.04**	
	MW-111	Oct-16		1.13		**2.04**	
	MW-111	Apr-17		1.27		**2.08**	
	MW-111	Oct-17		1.28		**2.39**	
	MW-113	Apr-15		<0.0310		**0.330**	
	MW-113	Apr-15	FD	<0.0310		**0.241**	
	MW-113	Oct-15		<0.0314		**0.115**	
	MW-113	Oct-15	FD	<0.0314		**0.0917** J	
	MW-113	Apr-16		0.581		**0.156**	
	MW-113	Apr-16	FD	0.627		**0.180**	
	MW-113	Oct-16		0.215 B		**0.236**	
	MW-113	Oct-16	FD	0.218 B		**0.188**	
	MW-113	Apr-17		0.984		**0.169**	
	MW-113	Apr-17	FD	1.03		**0.214**	
	MW-113	Oct-17		0.444		**0.335**	
	MW-113	Oct-17	FD	0.368		**0.355**	
	MW-125	Apr-15		<0.0310 J		<0.0250 B	
	MW-125	Oct-15		<0.0314		**0.0523** J	
	MW-125	Apr-16		<0.0314		**0.0578** J	
	MW-125	Oct-16		<0.0314		**0.0756** J	
	MW-125	Apr-17		<0.0314		**0.0964** J	
	MW-125	Oct-17		<0.0314		**0.0631** J	
	MW-126A	Apr-15		<0.0310		**0.757**	
	MW-126A	Oct-15		0.640		**0.569**	
	MW-126A	Apr-16		0.202		**0.751**	
	MW-126A	Oct-16		0.702		**0.924**	
	MW-126A	Apr-17		0.209		**0.665**	
	MW-126A	Oct-17		0.223		**0.793**	
	MW-126B	Apr-15		<0.0310		**0.392**	
	MW-126B	Oct-15		<0.0314		**0.140**	
	MW-126B	Apr-16		<0.0314		**0.361**	
	MW-126B	Oct-16		0.0546 JB		**0.346**	
	MW-126B	Apr-17		<0.0314		**0.245**	
	MW-126B	Oct-17		<0.0314		**0.329**	
	MW-127	Apr-15		9.73		**1.68**	
	MW-127	Oct-15		6.54		**0.585**	
	MW-127	Apr-16		6.40		**1.43**	
	MW-127	Oct-16		3.81 B		**1.22**	
	MW-127	Apr-17		4.45		**1.38**	
	MW-127	Oct-17		1.68		**1.41**	
	MW-128	Apr-15		1.23 J		**3.00**	
	MW-128	Oct-15		0.644		**1.78**	
	MW-128	Apr-16		0.620		**2.45**	
	MW-128	Oct-16		0.907		**2.75**	
	MW-128	Apr-17		1.09		**2.42**	
	MW-128	Oct-17		1.14		**2.37**	

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

2017 Annual Groundwater Monitoring Report

HollyFrontier Navajo Refining LLC, Artesia Refinery, Artesia, New Mexico

				Analyte Group:	TPH		
				Analyte:	GRO	DRO	DRO - EP
				Units:	mg/L	mg/L	mg/L
				CGWSL:	---	0.0398	0.0473
				CGWSL Source:		NMED TPH	NMED TPH
Area	Well ID	Date	Dup				
Field East of Refinery	MW-129	Apr-15		3.29	**2.45**	
	MW-129	Oct-15		4.11 J	**1.31**	
	MW-129	Apr-16		2.70	**1.68**	
	MW-129	Oct-16		2.17	**1.68**	
	MW-129	Apr-17		1.79	**2.13**	
	MW-130	Apr-15		<0.0310 J	**0.960**	
	MW-130	Oct-15		<0.0314	**0.508**	
	MW-130	Apr-16		<0.0314	**1.08**	
	MW-130	Oct-16		0.200	**1.09**	
	MW-130	Apr-17		<0.0314	**1.08**	
	MW-130	Oct-17		<0.0314	**1.22**	
	MW-131	Apr-15		7.68	**2.80**	
	MW-131	Oct-15		6.76	**4.00**	
	MW-131	Apr-16		9.16	**2.12**	
	MW-131	Oct-16		6.31	**1.86**	
	MW-131	Apr-17		6.81	**1.77**	
	MW-131	Oct-17		4.95	**1.58**	
	MW-133	Nov-14		9.40	**2.80**	
	MW-133	Apr-15		11.3	**3.10**	
	MW-134	Apr-15		<0.0310	**0.100**	
	MW-134	Apr-15	FD	<0.0310	**0.0886** J	
	MW-134	Oct-15		<0.0314	**0.0503** J	
	MW-134	Oct-15	FD	<0.0314	**0.0457** J	
	MW-134	Apr-16		0.0420 J	**0.0971** J	
	MW-134	Apr-16	FD	<0.0314	**0.0774** J	
	MW-134	Oct-16		<0.0314	**0.184**	
	MW-134	Oct-16	FD	<0.0314	**0.135**	
	MW-134	Apr-17		<0.0314	**0.0894** J	
	MW-134	Apr-17	FD	<0.0314	**0.0738** J	
	MW-134	Oct-17		<0.0314	**0.109**	
	MW-134	Oct-17	FD	<0.0314	**0.250**	
	MW-135	Apr-15		<0.0310	**0.0823** J	
	MW-135	Oct-15		<0.0314	**0.0571** J	
	MW-135	Apr-16		<0.0314	**0.162**	
	MW-135	Oct-16		0.0638 JB	**0.147**	
	MW-135	Apr-17		<0.0314	**0.0767** J	
	MW-135	Oct-17		<0.0314	**0.102**	
	RA-4196	Apr-15				
	RA-4196	Oct-15				
	RA-4196	Apr-16				
	RA-4196	Oct-16				
	RA-4196	Apr-17				
	RA-4196	Oct-17				
	RA-4798	Apr-15				
	RA-4798	Oct-15				
	RA-4798	Apr-16				
	RA-4798	Oct-16				
	RA-4798	Apr-17				
	RA-4798	Oct-17				
	RW-12R	Apr-16			**1.38**	
	RW-12R	Apr-17			**1.61**	
	RW-13R	Apr-16			**0.808**	
	RW-18	Apr-14				
	RW-18	Apr-15				
	RW-18	Apr-16				
	RW-18	Apr-17				
	RW-20	Apr-15			**2.10**	
	RW-22	Apr-15			**5.40**	
North Refinery	MW-23	Apr-15		31.1	**6.79**	
	MW-23	Oct-15		34.0	**41.8**	
	MW-23	Apr-16		34.7	**28.7**	
	MW-23	Oct-16		37.1	**21.2**	
	MW-23	Apr-17		29.1	**2.78**	
	MW-23	Oct-17		17.6	**32.0**	
	MW-29	Apr-15		<0.0310	**1.20**	
	MW-29	Oct-15		0.0738 J	**0.658**	
	MW-29	Apr-16		<0.0314	**1.27**	
	MW-29	Oct-16		<0.0314	**1.04**	
	MW-29	Apr-17		<0.0314	**0.857**	
	MW-29	Oct-17		<0.0314	**4.44**	
	MW-39	Apr-15		0.147	**5.20**	
	MW-39	Oct-15		0.0759 J	**3.83**	
	MW-39	Apr-16		5.16	**12.5**	
	MW-39	Oct-16		7.24	**9.26**	
	MW-39	Apr-17		5.20	**9.81**	
	MW-39	Oct-17		2.66	**9.16**	
	MW-40	Apr-14		1.01	**0.880**	
	MW-40	Apr-15		0.735	**4.50**	
	MW-40	Apr-16		1.03	**4.92**	
	MW-40	Apr-17		1.29	**4.15**	
	MW-41	Apr-14		0.233	**0.300**	
	MW-41	Apr-15		0.103	**1.60**	
	MW-41	Apr-16		0.171	**2.26**	
	MW-41	Apr-17		0.249	**1.58**	
	MW-42	Apr-14		2.90	**1.40**	
	MW-42	Apr-15		1.37	**7.00**	
	MW-42	Apr-16		0.737	**5.88**	
	MW-42	Apr-17		0.262	**3.41**	
	MW-43	Apr-15		2.65	**8.04**	
	MW-43	Oct-15		30.5	**9.95**	
	MW-43	Apr-16		31.6	**6.24**	
	MW-43	Oct-16		38.0	**6.51**	
	MW-43	Apr-17		29.6	**6.53**	
	MW-43	Oct-17		28.0	**6.03**	
	MW-59	Apr-14		0.247	**0.0680**	
	MW-59	Apr-15		<0.0310	**0.860**	
	MW-59	Apr-16		<0.0314	**0.919**	
	MW-59	Apr-17		0.163	**0.835**	
	MW-60	Apr-15		0.238	**1.10**	
	MW-60	Apr-15	FD	0.228	**1.00**	
	MW-60	Oct-15		0.241	**0.803**	
	MW-60	Oct-15	FD	0.249	**0.627**	
	MW-60	Apr-16		0.575	**1.21**	
	MW-60	Apr-16	FD	0.396	**1.19**	

				Analyte Group:	TPH		
				Analyte:	GRO	DRO	DRO - EP
				Units:	mg/L	mg/L	mg/L
				CGWSL:	---	0.0398	0.0473
				CGWSL Source:		NMED TPH	NMED TPH
Area	Well ID	Date	Dup				
North Refinery	MW-60	Oct-16		0.331	**0.628**	
	MW-60	Oct-16	FD	0.251	**0.573**	
	MW-60	Apr-17		0.309	**0.923**	
	MW-60	Apr-17	FD	0.343	**0.947**	
	MW-60	Oct-17		0.479	**1.07**	
	MW-60	Oct-17	FD	0.469	**1.54**	
	MW-61	Apr-15		6.77	**9.40**	
	MW-61	Oct-15		5.13	**3.32**	
	MW-61	Apr-16		2.60	**3.59**	
	MW-61	Oct-16		4.21	**3.55**	
	MW-61	Apr-17		6.48	**2.70**	
	MW-61	Oct-17		7.01	**4.21**	
	MW-62	Apr-15		21.1	**36.9**	
	MW-62	Oct-15		18.5	**7.62**	
	MW-62	Apr-16		7.81	**7.54**	
	MW-62	Oct-16		11.3	**4.72**	
	MW-62	Apr-17		8.61	**5.93**	
	MW-62	Oct-17		9.55	**8.69**	
	MW-67	Apr-15		0.784	**8.40**	
	MW-67	Oct-15		2.16	**5.18**	
	MW-67	Apr-16		1.29	**11.1**	
	MW-67	Oct-16		1.03	**9.36**	
	MW-67	Apr-17		1.77	**9.40**	
	MW-67	Oct-17		0.649	**8.48**	
	MW-90	Apr-15		0.242	**7.68**	
	MW-90	Oct-15		0.166	**0.992**	
	MW-90	Apr-16		0.119	**4.03**	
	MW-90	Oct-16		<0.0314	**1.11**	
	MW-90	Apr-17		0.217	**4.20**	
	MW-90	Oct-17		0.160	**4.63**	
	MW-91	Apr-15		14.7	**15.9**	
	MW-91	Oct-15		12.2	**20.3**	
	MW-91	Apr-16		22.1	**22.2**	
	MW-91	Oct-16		20.6	**16.3**	
	MW-91	Apr-17		17.0	**19.8**	
	MW-91	Oct-17		13.6	**17.9**	
	MW-92	Apr-16		5.50	**20.4**	
	MW-92	Oct-16		6.05	**22.8**	
	MW-93	Apr-15		3.67	**15.3**	
	MW-93	Oct-15		5.14	**16.5**	
	MW-93	Apr-16		1.06	**7.83**	
	MW-93	Oct-16		2.57	**8.66**	
	MW-93	Apr-17		3.73	**7.89**	
	MW-94	Oct-15		6.12	**25.6**	
	MW-94	Apr-16		7.91	**8.69**	
	MW-94	Oct-16		6.83	**9.76**	
	MW-94	Apr-17		10.2	**9.96**	
	MW-95	Apr-14		0.0926	**1.10**	
	MW-95	Apr-15		<0.0310	**7.58**	
	MW-95	Apr-16		0.129	**8.06**	
	MW-95	Apr-17		0.0826 J	**6.96**	
	MW-96	Apr-15		45.1	**12.0**	
	MW-96	Oct-15		24.3	**9.23**	
	MW-96	Apr-16		25.3	**10.8**	
	MW-96	Oct-16		20.0	**7.74**	
	MW-96	Apr-17		25.1	**9.02**	
	MW-96	Oct-17		13.9	**7.85**	
	MW-98	Apr-15		19.3	**7.06**	
	MW-98	Oct-15		18.6	**6.38**	
	MW-98	Apr-16		14.7	**6.88**	
	MW-98	Oct-16		20.0	**4.97**	
	MW-98	Apr-17		15.9	**5.94**	
	MW-98	Oct-17		20.1	**5.92**	
	MW-137	Oct-15		30.0	**20.1**	
	MW-137	Apr-16		33.8	**11.8**	
	MW-137	Oct-16		30.9	**9.65**	
	MW-137	Apr-17		14.1 J	**12.6**	
	MW-137	Oct-17		33.1	**11.3**	
	MW-138	Oct-15		5.08	**6.73**	
	MW-138	Apr-16		4.86	**15.5**	
	MW-138	Oct-16		2.28	**10.3**	
	MW-138	Apr-17		1.00	**14.6**	
	MW-138	Oct-17		2.20	**15.0**	
	RW-1	Apr-15		2.95 J	**12.0**	
	RW-1R	Apr-16		2.13	**8.54**	
	RW-1R	Apr-17		2.20	**21.5**	
	RW-2	Apr-15		18.3	**19.7**	
	RW-2R	Apr-16		20.8	**17.3**	
	RW-2R	Apr-17		17.2	**11.6**	
	RW-7	Apr-15		1.05	**9.70**	
	RW-7R	Apr-16		0.0588 J	**1.97**	
	RW-7R	Apr-17		<0.0314	**1.15**	
	RW-8	Apr-15			**7.30**	
	RW-8	Apr-17			**11.6**	
	RW-9	Apr-14		3.26	**0.480**	
	RW-9	Apr-15		2.55	**3.20**	
	RW-9	Apr-16		0.492 J	**3.44**	
	RW-9	Apr-17		2.36	**3.21**	
	RW-10	Apr-14		<0.0100	**0.150**	
	RW-10	Apr-15		<0.0310	**4.80**	
	RW-10	Apr-16		<0.157	**3.66**	
	RW-10	Apr-17		0.207	**2.90**	
	RW-16	Apr-14			**0.110**	
	RW-16	Apr-14	FD		**0.230**	
	RW-16	Apr-15			**1.90**	
	RW-16	Apr-16			**2.29**	
	RW-16	Apr-17			**1.08**	
	RW-17	Apr-14		<0.0100	**0.110**	
	RW-17	Apr-15		<0.0310	**1.20**	
	RW-17	Apr-16		<0.0314	**1.75**	
	RW-17	Apr-17		0.0622 J	**2.57**	

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

2017 Annual Groundwater Monitoring Report

HollyFrontier Navajo Refining LLC, Artesia Refinery, Artesia, New Mexico

				Analyte Group:	TPH		
				Analyte:	GRO	DRO	DRO - EP
				Units:	mg/L	mg/L	mg/L
				CGWSL:	---	0.0398	0.0473
				CGWSL Source:		NMED TPH	NMED TPH
Area	**Well ID**	**Date**	**Dup**				
North RO Reject Field	MW-117	Apr-15		<0.0310	0.0323 J		
	MW-117	Oct-15		<0.0314	<0.0247		
	MW-117	Apr-16		<0.0314	<0.0247		
	MW-117	Oct-16		<0.0314	0.0265 J		
	MW-117	Apr-17		<0.0314	<0.0247		
	MW-117	Oct-17		<0.0314	**0.385**		
	MW-118	Apr-15		<0.0310	0.0307 J		
	MW-118	Oct-15		<0.0314	<0.0247		
	MW-118	Apr-16		<0.0314	0.0248 J		
	MW-118	Oct-16		<0.0314	<0.0247		
	MW-118	Apr-17		<0.0314	<0.0247		
	MW-118	Oct-17		<0.0314	**0.0524** J		
	MW-119	Apr-15		<0.0310	0.0353 J		
	MW-119	Oct-15		<0.0314	<0.0247		
	MW-119	Apr-16		<0.0314	<0.0247		
	MW-119	Oct-16		0.0557 JB	**0.0570** J		
	MW-119	Apr-17		<0.0314	**0.0622** J		
	MW-119	Oct-17		<0.0314	**0.0805** J		
NCL	MW-18	Apr-14			**0.280**		
	MW-18	Apr-15			**2.41**		
	MW-18	Apr-16			**2.02**		
	MW-18	Apr-17			**0.960**		
	MW-45	Apr-15			**1.10**		
	MW-45	Oct-15			**0.874**		
	MW-45	Apr-16			**1.11**		
	MW-45	Oct-16			**1.15**		
	MW-45	Apr-17			**0.857**		
	MW-45	Oct-17			**0.864**		
	MW-53	Apr-14			<0.0210		
	MW-53	Apr-15			**0.296**		
	MW-53	Apr-16			**0.316**		
	MW-53	Apr-17			**0.258**		
	MW-54A	Apr-15			**2.93**		
	MW-54A	Oct-15			**3.29**		
	MW-54A	Apr-16			**3.34**		
	MW-54A	Oct-16			**3.24**		
	MW-54A	Apr-17			**2.55**		
	MW-54A	Oct-17			**2.38**		
	MW-54B	Apr-13		<0.0500	**0.630**		
	MW-54B	Apr-15		<0.0310	**2.47**		
	MW-54B	Apr-17		<0.0314	**0.881**		
	MW-55	Apr-15		<0.0310	**0.227**		
	MW-55	Oct-15		<0.0314	**0.300**		
	MW-55	Apr-16		<0.0314	**0.691**		
	MW-55	Oct-16		<0.0314	**0.354**		
	MW-55	Apr-17		<0.0314	**1.08**		
	MW-55	Oct-17		0.0634 J	**0.697**		
	MW-56	Apr-15			**1.62**		
	MW-56	Oct-15			**0.680**		
	MW-56	Apr-16			**1.07**		
	MW-56	Oct-16			**1.18**		
	MW-56	Apr-17			**1.15**		
	MW-108	Apr-15			**9.03**		
	MW-108	Oct-15			**7.89**		
	MW-108	Apr-16			**9.20**		
	MW-108	Oct-16			**15.2**		
	MW-108	Apr-17			**6.80**		
	MW-108	Oct-17			**7.93**		
	NCL-31	Apr-15			**2.38**		
	NCL-31	Oct-15			**2.10**		
	NCL-31	Apr-16			**1.87**		
	NCL-31	Oct-16			**24.2**		
	NCL-31	Apr-17			**1.37**		
	NCL-31	Oct-17			**1.16**		
	NCL-32	Apr-15			**2.80**		
	NCL-32	Oct-15			**7.50**		
	NCL-32	Apr-16			**4.05**		
	NCL-32	Oct-16			**2.70**		
	NCL-32	Apr-17			**1.88**		
	NCL-32	Oct-17			**1.27**		
	NCL-33	Apr-15			**4.60**		
	NCL-33	Oct-15			**5.30**		
	NCL-33	Apr-16			**4.53**		
	NCL-33	Oct-16			**6.55**		
	NCL-33	Apr-17			**4.80**		
	NCL-33	Oct-17			**4.78**		
	NCL-34A	Apr-15			**10.0**		
	NCL-34A	Oct-15			**5.11**		
	NCL-34A	Apr-16			**19.2**		
	NCL-34A	Oct-16			**10.8**		
	NCL-34A	Apr-17			**11.4**		
	NCL-34A	Oct-17			**6.04**		
	NCL-44	Apr-15			**5.50**		
	NCL-44	Oct-15			**6.17**		
	NCL-44	Apr-16			**7.59**		
	NCL-44	Oct-16			**8.88**		
	NCL-44	Apr-17			**7.97**		
	NCL-44	Oct-17			**6.69**		
	NCL-49	Apr-15			**0.0967** J		
	NCL-49	Apr-15	FD		**0.0832** J		
	NCL-49	Oct-15			**0.0770** J		
	NCL-49	Oct-15	FD		**0.0960** J		
	NCL-49	Apr-16			**0.0890** J		
	NCL-49	Apr-16	FD		**0.0664** J		
	NCL-49	Oct-16			**0.0712** J		
	NCL-49	Oct-16	FD		**0.0626** J		
	NCL-49	Apr-17			**0.0515** J		
	NCL-49	Apr-17	FD		**0.0582** J		
	NCL-49	Oct-17			0.0373 J		
	NCL-49	Oct-17	FD		0.0355 J		

				Analyte Group:	TPH		
				Analyte:	GRO	DRO	DRO - EP
				Units:	mg/L	mg/L	mg/L
				CGWSL:	---	0.0398	0.0473
				CGWSL Source:		NMED TPH	NMED TPH
Area	**Well ID**	**Date**	**Dup**				
South Refinery	KWB-2R	Apr-15				**5.20**	
	KWB-2R	Oct-15				**3.95**	
	KWB-2R	Apr-16				**1.49**	
	KWB-2R	Oct-16				**1.84**	
	KWB-2R	Apr-17				**1.35**	
	KWB-2R	Oct-17				**4.84**	
	KWB-5	Apr-15				**2.30**	
	KWB-5	Oct-15				**1.39**	
	KWB-5	Apr-16				**2.36**	
	KWB-5	Oct-16				**1.89**	
	KWB-5	Apr-17				**1.98**	
	KWB-5	Oct-17				**1.55**	
	KWB-6	Apr-15				**4.50**	
	KWB-6	Oct-15				**1.41**	
	KWB-6	Apr-16				**3.75**	
	KWB-6	Oct-16				**1.78**	
	KWB-6	Apr-17				**2.04**	
	KWB-6	Oct-17				**2.16**	
	MW-28	Apr-15		7.85 J		**13.0**	
	MW-28	Oct-15		9.88		**16.2**	
	MW-28	Apr-16		4.83		**17.0**	
	MW-28	Oct-16		6.13		**22.2**	
	MW-28	Apr-17		9.38		**14.4**	
	MW-28	Oct-17		7.24		**7.51**	
	MW-48	Apr-15		3.65 J		**3.90**	
	MW-48	Oct-15		2.99		**2.97**	
	MW-48	Apr-16		23.3		**15.3**	
	MW-48	Oct-16		15.8		**7.81**	
	MW-48	Apr-17		31.5		**10.6**	
	MW-48	Oct-17		28.7		**18.5**	
	MW-50	Apr-15				**0.902**	
	MW-50	Oct-15				**0.642**	
	MW-50	Apr-16				**1.10**	
	MW-50	Oct-16				**1.02**	
	MW-50	Apr-17				**0.835**	
	MW-50	Oct-17				**1.12**	
	MW-52	Apr-15		<0.0310 J		**0.370**	
	MW-52	Oct-15		<0.0314		**0.158**	
	MW-52	Apr-16		<0.0314		**0.324**	
	MW-52	Oct-16		0.0386 J		**0.367**	
	MW-52	Apr-17		<0.0314		**0.271**	
	MW-52	Oct-17		<0.0314		**0.380**	
	MW-64	Apr-16		136		**12.3**	
	MW-64	Oct-16		90.7		**12.0**	
	MW-64	Apr-17		109		**9.88**	
	MW-64	Oct-17		88.3		**12.6**	
	MW-65	Apr-15		33.1		**12.4**	
	MW-65	Apr-16		19.6		**10.6**	
	MW-65	Oct-16		19.2		**7.99**	
	MW-65	Apr-17		18.5		**8.30**	
	MW-65	Oct-17		17.1		**7.44**	
	MW-66	Apr-15		8.18		**4.51**	
	MW-66	Oct-15		8.74		**1.40**	
	MW-66	Apr-16		6.09		**4.19**	
	MW-66	Oct-16		7.32		**4.24**	
	MW-66	Apr-17		6.04		**4.18**	
	MW-66	Oct-17		9.46		**3.58**	
	MW-99	Apr-15		6.76		**1.94**	
	MW-99	Oct-15		19.4		**1.87**	
	MW-99	Apr-16		18.1		**4.29**	
	MW-99	Oct-16		17.8 B		**2.26**	
	MW-99	Apr-17		14.4		**2.06**	
	MW-99	Oct-17		10.4		**2.23**	
	MW-101	Apr-15		0.180		**6.00**	
	MW-101	Oct-15		0.0803 J		**5.08**	
	MW-101	Apr-16		0.614		**5.84**	
	MW-101	Oct-16		0.208		**2.95**	
	MW-101	Apr-17		0.311		**3.72**	
	MW-101	Oct-17		0.377		**5.50**	
	MW-102	Apr-15		24.5		**9.96**	
	MW-102	Oct-15		31.4		**11.4**	
	MW-102	Apr-16		26.2		**9.69**	
	MW-102	Oct-16		31.5		**14.8**	
	MW-102	Apr-17		26.4		**11.9**	
	MW-102	Oct-17		335		**18.1**	
	MW-103	Apr-14		1.43 J		**5.9**	
	MW-103	Apr-15		4.15		**8.66**	
	MW-103	Apr-16		3.55		**7.35**	
	MW-103	Apr-17		3.46		**6.94**	
	MW-104	Apr-15		0.783		**0.813**	
	MW-104	Apr-15	FD	0.878		**0.790**	
	MW-104	Oct-15		1.05		**1.06**	
	MW-104	Oct-15	FD	1.18		**3.00**	
	MW-104	Apr-16		0.797		**2.23**	
	MW-104	Apr-16	FD	0.775		**2.19**	
	MW-104	Oct-16		1.35		**2.55**	
	MW-104	Oct-16	FD	1.26		**2.68**	
	MW-104	Apr-17		1.66		**5.36**	
	MW-104	Apr-17	FD	2.41		**4.91**	
	MW-104	Oct-17		1.52		**5.42**	
	MW-104	Oct-17	FD	1.36		**4.95**	
	MW-105	Apr-15		6.50		**3.74**	
	MW-105	Oct-15		4.37		**2.31**	
	MW-105	Apr-16		33.6		**21.2**	
	MW-105	Oct-16		43.7		**8.66**	
	MW-105	Apr-17		33.9		**13.8**	
	MW-105	Oct-17		24.0		**19.0**	
	MW-106	Apr-15		1.52		**3.40**	
	MW-106	Oct-15		23.8		**19.6**	
	MW-106	Apr-16		23.9		**19.5**	
	MW-106	Oct-16		27.1		**21.8**	
	MW-106	Apr-17		21.4		**17.9**	
	MW-106	Oct-17		21.9		**22.2**	

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

2017 Annual Groundwater Monitoring Report

HollyFrontier Navajo Refining LLC, Artesia Refinery, Artesia, New Mexico

				Analyte Group:	TPH		
				Analyte:	GRO	DRO	DRO - EP
				Units:	mg/L	mg/L	mg/L
				CGWSL:	---	0.0398	0.0473
				CGWSL Source:		NMED TPH	NMED TPH
Area	**Well ID**	**Date**	**Dup**				
South Refinery	MW-107	Apr-15		9.85		**7.20**	
	MW-107	Oct-15		14.9	J	**4.72**	
	MW-107	Apr-16		4.89		**6.80**	
	MW-107	Oct-16		17.7		**7.24**	
	MW-107	Apr-17		6.67		**7.91**	
	MW-109	Apr-15		2.36		**8.10**	
	MW-109	Oct-15		1.46		**0.842**	
	MW-109	Apr-16		1.93		**5.92**	
	MW-109	Oct-16		2.12		**3.19**	
	MW-109	Apr-17		5.26		**5.78**	
	MW-109	Oct-17		4.62		**6.74**	
	MW-110	Apr-15		1.12		**2.20**	
	MW-110	Oct-15		1.48		<0.0247	
	MW-110	Apr-16		0.735		**1.55**	
	MW-110	Oct-16		0.503		**1.00**	
	MW-110	Apr-17		2.69		**2.53**	
	MW-110	Oct-17		0.379		**1.01**	
	RA-313	Apr-14					
	RA-313	Apr-15					
	RA-313	Apr-16					
	RA-313	Apr-17					
	RW-4	Apr-15				**3.72**	
	RW-4R	Apr-16				**5.03**	
	RW-4R	Apr-17				**2.35**	
	RW-5R	Apr-15				**6.42**	
	RW-5R	Apr-16				**7.39**	
	RW-6	Apr-15				**11.4**	
	RW-6R	Apr-16				**4.20**	
	RW-15C	Apr-17				**9.74**	
South RO Reject Field	MW-114	Apr-15		<0.0310	J	<0.0250	B
	MW-114	Oct-15		<0.0314		<0.0247	
	MW-114	Apr-16		<0.0314		0.0317	J
	MW-114	Oct-16		<0.0314		**0.0410**	J
	MW-114	Apr-17		<0.0314		<0.0247	
	MW-114	Oct-17		<0.0314		**0.0650**	J
	MW-115	Apr-15		<0.0310	J	<0.0250	B
	MW-115	Oct-15		0.0324	J	**0.103**	
	MW-115	Apr-16		<0.0314		**0.0616**	J
	MW-115	Oct-16		<0.0314		**0.0582**	J
	MW-115	Apr-17		<0.0314		**0.0657**	J
	MW-115	Oct-17		<0.0314		**0.109**	
	MW-116	Apr-15		<0.0310	J	<0.0250	B
	MW-116	Oct-15		<0.0314		**0.0607**	J
	MW-116	Apr-16		<0.0314		**0.112**	
	MW-116	Oct-16		<0.0314		**0.0868**	J
	MW-116	Apr-17		<0.0314		**0.0549**	J
	MW-116	Oct-17		<0.0314		<0.0247	
TEL	MW-49	Apr-15		0.654		**8.60**	
	MW-49	Oct-15		1.58		**7.66**	
	MW-49	Apr-16		1.75		**8.63**	
	MW-49	Oct-16		2.82		**9.26**	
	MW-49	Apr-17		2.65		**7.62**	
	MW-49	Oct-17		3.45		**8.36**	
	TEL-1	Apr-15		0.181		**9.80**	
	TEL-1	Oct-15		0.148		**7.46**	
	TEL-1	Apr-16		0.153		**8.51**	
	TEL-1	Oct-16		0.193		**3.58**	
	TEL-1	Apr-17		0.285		**9.45**	
	TEL-1	Oct-17		0.467		**12.7**	
	TEL-2	Apr-15		5.12		**20.0**	
	TEL-2	Oct-15		2.86		**18.7**	J
	TEL-2	Apr-16		3.12		**18.1**	
	TEL-2	Oct-16		3.08		**17.0**	
	TEL-2	Apr-17		3.02		**14.8**	
	TEL-2	Oct-17		2.51		**22.8**	
	TEL-3	Apr-15		0.666		**9.40**	
	TEL-3	Oct-15		0.633		**5.86**	
	TEL-3	Apr-16		1.05		**14.1**	
	TEL-3	Oct-16		0.589		**4.22**	
	TEL-3	Apr-17		0.716		**5.32**	
	TEL-4	Apr-15		2.09		**8.40**	
	TEL-4	Apr-15	FD	2.26		**8.50**	
	TEL-4	Oct-15		2.77		**4.98**	
	TEL-4	Oct-15	FD	2.70		**5.73**	
	TEL-4	Apr-16		2.36		**9.13**	
	TEL-4	Apr-16	FD	2.65		**8.65**	
	TEL-4	Oct-16		2.52		**6.36**	
	TEL-4	Oct-16	FD	2.72		**6.66**	
	TEL-4	Apr-17		1.25		**8.44**	
	TEL-4	Apr-17	FD	1.29		**8.00**	
	TEL-4	Oct-17		1.53		**10.0**	
	TEL-4	Oct-17	FD	1.77		**9.67**	
TMD	MW-8	Apr-14		<0.0100		<0.0210	
	MW-8	Apr-15		<0.0310		**0.380**	
	MW-8	Apr-16		<0.0314		**0.230**	
	MW-8	Apr-17		0.585		**0.238**	
	MW-16	Apr-14				**0.0580**	
	MW-16	Apr-15				**0.340**	
	MW-16	Apr-17				**0.275**	
	MW-20	Apr-14				<0.0200	
	MW-20	Apr-14	FD			<0.0200	
	MW-20	Apr-15				**0.150**	
	MW-20	Apr-16				**0.149**	
	MW-20	Apr-17				**0.280**	
	MW-21	Apr-15		<0.0310		**0.180**	
	MW-21	Oct-15		<0.0314		**0.194**	
	MW-21	Apr-16		<0.0314		**0.190**	
	MW-21	Oct-16		<0.0314		**0.132**	
	MW-21	Apr-17		0.0721	J	**0.169**	
	MW-21	Oct-17		0.0416	J	**0.106**	
	MW-25	Apr-14				<0.0200	
	MW-25	Apr-15				**0.690**	
	MW-25	Apr-16				**0.348**	
	MW-25	Apr-17				**0.107**	

				Analyte Group:	TPH		
				Analyte:	GRO	DRO	DRO - EP
				Units:	mg/L	mg/L	mg/L
				CGWSL:	---	0.0398	0.0473
				CGWSL Source:		NMED TPH	NMED TPH
Area	**Well ID**	**Date**	**Dup**				
TMD	MW-26	Apr-14				<0.0200	
	MW-26	Apr-15				**0.0530**	J
	MW-26	Apr-16				**0.103**	
	MW-26	Apr-17				**0.0773**	J
	MW-27	Apr-14				<0.0210	
	MW-27	Apr-15				**0.110**	
	MW-27	Apr-16				**0.134**	
	MW-27	Apr-17				**0.0992**	J
	MW-46R	Nov-14				**0.0420**	J
	MW-46R	Apr-15				**0.0540**	J
	MW-46R	Apr-16				**0.0622**	J
	MW-46R	Oct-16				**0.0459**	J
	MW-46R	Apr-17				**0.0889**	J
	MW-46R	Oct-17				0.0327	J
	MW-68	Apr-14				<0.0200	
	MW-68	Apr-15				**0.130**	
	MW-68	Apr-16				**0.162**	
	MW-68	Apr-17				**0.138**	
	MW-71	Apr-14				<0.0210	
	MW-71	Apr-15				**0.0930**	J
	MW-71	Apr-16				0.0252	J
	MW-71	Apr-17				**0.0947**	J
	MW-89	Apr-14				**0.210**	
	MW-89	Apr-15				**2.40**	
	MW-89	Apr-16				**3.38**	
	MW-89	Apr-17				**2.15**	
	NP-1	Apr-15					
	NP-1	Oct-15					
	NP-1	Apr-16					
	NP-1	Oct-16					
	NP-1	Apr-17					
	NP-1	Oct-17					
	NP-2	Apr-13		<0.0500		**<0.0520**	
	NP-6	Apr-13					
	NP-6	Apr-15					
	NP-6	Apr-17					
Up-Gradient	UG-1	Apr-14		<0.0100		<0.0210	
	UG-1	Apr-15		<0.0310		<0.0250	B
	UG-1	Apr-16		<0.0314		0.0302	J
	UG-1	Apr-17		<0.0314		**0.0484**	J
	UG-2	Apr-14		<0.0100		<0.0200	
	UG-2	Apr-15		<0.0310		<0.0250	B
	UG-2	Apr-16		<0.0314		**0.0692**	J
	UG-2	Apr-17		<0.0314		**0.0818**	J
	UG-3R	Apr-14		<0.0100		<0.0200	
	UG-3R	Apr-14	FD	<0.0100		<0.0200	
	UG-3R	Apr-15		<0.0310		<0.0250	B
	UG-3R	Apr-16		<0.0314		<0.0247	
	UG-3R	Apr-17		<0.0314		**0.0517**	J
	UG-4	Apr-16		<0.0314		0.0349	J
	UG-4	Apr-17		<0.0314		**0.0463**	J

Definitions

X	Reported concentration, X, exceeds the CGWSL.
X	Analyte detected above the detection limit at a concentration equal to X.
<x	Analyte not detected at detection limit equal to x.
<x	Analyte not detected at detection limit equal to x, but x exceeds the CGWSL.
---	No applicable CGWSL.
	Blank cell indicates a sample was collected from the well during the indicated sampling event, but the analyte was not analyzed.

Abbreviations

CGWSL	Critical Groundwater Screening Level (see Table 3)
CGWSL Source	Source for CGWSL value (see Table 3)
DRO	Diesel Range Organics
DRO-EP	Diesel Range Organics data from wells located in the Evaporation Ponds area
Dup	Duplicate sample
FD	Field duplicate sample
GRO	Gasoline Range Organics
mg/L	Milligrams per Liter
TPH	Total Petroleum Hydrocarbons
NMED TPH	NMED Risk Assessment Guidance for Site Investigations and Remediation, March 2017, Table 6-4 TPH Groundwater Screening Levels

Lab Footnote

B	Analyte was also detected in the associated method blank.
J	Indicates an estimated value.

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

2017 Annual Groundwater Monitoring Report
HollyFrontier Navajo Refining LLC, Artesia Refinery, Artesia, New Mexico

				Analyte Group:	Total Metals													
				Analyte:	Arsenic	Barium	Boron	Cadmium	Cobalt	Chromium	Iron	Lead	Manganese	Mercury	Nickel	Selenium	Uranium	Vanadium
				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:	0.010	1.00	0.75	0.005	0.050	0.050	1.00	0.015	0.200	0.002	0.200	0.050	0.030	0.0631
				CGWSL Source:	USEPA MCL	WQCC HH	WQCC Irr	USEPA MCL	WQCC Irr	WQCC HH	WQCC Dom	USEPA MCL	WQCC Dom	USEPA MCL	WQCC Irr	USEPA MCL	WQCC HH	NMED TW
Area	**Well ID**	**Date**	**Dup**															
Cross-Gradient	KWB-13	Apr-14		0.00259 J	0.0145				0.00121 J	<0.00500	<0.000700	<0.00250	<0.000040	<0.00100	0.0126		0.0172
	KWB-13	Apr-15		**0.0118**	0.122				0.0182	**12.3**	**0.0190**	**0.399**	<0.000049	0.0144	0.0110		0.0426
	KWB-13	Apr-16		0.00484 J	0.0459	0.384	<0.00500	0.00161 J	0.00621 J	**4.00**	0.00403 J	0.0747	<0.000049	<0.00175	0.0188	0.0261 J	0.0304
	KWB-13	Apr-17		0.00286	0.0229	0.294	<0.000160	0.000487 J	0.00148 J	**1.02**	0.00107 J	0.0234	<0.000049	0.00119 J	0.0130	0.0227	0.0213
	MW-17	Apr-14		<0.00200	0.0152				<0.00200	<0.100	0.00724 J	<0.00500			0.0104		
	NP-5	Apr-13		<0.0100	<0.0100				<0.0100	<0.400	<0.0100	<0.0100			0.0135		
	NP-5	Apr-15		0.00288	0.0159				0.00109 J	0.437	0.000415 J	0.00318 J			0.0125		
	NP-5	Apr-17		0.00305	0.00938				<0.000540	0.0632 J	<0.000240	0.000586 J			0.0124		
	RA-3156	Nov-13															
	RA-3156	Apr-14												<0.00500			
	RA-3156	Apr-16															
	RA-3156	Apr-17															
	MW-136	Oct-15		0.00381	0.103				0.00365	**1.18**	0.00218	**0.204**	<0.000049	0.00425	0.00463		0.0212
	MW-136	Apr-16		0.00280 J	0.0270	0.695	<0.00500	0.00132 J	<0.00270	0.599	<0.00120	0.0591	<0.000049	<0.00350	0.0112	**0.0702**	0.0197 J
	MW-136	Oct-16		0.00284	0.0134	0.512	<0.000160	0.000279 J	0.00118 JB	0.0892 JB	0.000940 JB	0.0112 B	<0.000049	0.00184 JB	0.00562	**0.0720**	0.0176
	MW-136	Apr-17		0.00237	0.0117	0.588	<0.000160	<0.000260	<0.000540	0.0262 J	<0.000240	0.00602	<0.000049	0.00102 J	0.00563	**0.0664**	0.0171
	MW-136	Oct-17		0.00239	0.0144	0.724	<0.000160	0.000362 J	0.000794 J	0.193	0.000313 J	0.0209	<0.000049	0.00157 J	0.00608	**0.0729**	0.0181
Evaporation Ponds	MW-1R	Apr-14		0.00335 J	0.0214				<0.00200	**2.39**	<0.00140	**1.38**			<0.00200		
	MW-1R	Apr-15		0.00366 J	0.0240 J				<0.00270	**3.49**	<0.00120	**2.14** J			<0.00190		
	MW-1R	Apr-16		0.00917 J	0.0301				0.0188	**9.67**	<0.00120	**2.94**			<0.00190		
	MW-1R	Apr-17		0.00221	0.0258				<0.000540	**4.50**	<0.000240	**2.38**			<0.000380		
	MW-2A	Apr-15		**0.0155** J	0.0255 J				<0.00540	0.571 J	<0.00240	**1.98**			<0.00380		
	MW-2A	Oct-15		0.00962	0.0241				<0.00108	0.588	<0.000480	**2.88**			0.00153 J		
	MW-2A	Apr-16		**0.0154**	0.0228 J				<0.00270	**3.37**	<0.00120	**2.50**			0.00432 J		
	MW-2A	Oct-16		0.00798	0.0208				0.00105 J	0.146	<0.000240	**1.43**			0.000560 J		
	MW-2A	Apr-17		0.00923	0.0188				0.000757 J	**3.02**	<0.000240	**1.43**			0.00105 J		
	MW-2A	Oct-17		0.00731	0.0164				<0.000540	0.578	<0.000240	**0.788**			0.00128 J		
	MW-3	Apr-15		**0.0288**	0.0186 J				<0.00270	<0.0750	<0.00120	**1.55**			**0.108**		
	MW-3	Apr-15	FD	**0.0346**	0.0215				0.00198 J	0.0806 J	0.000346 J	**1.85**			**0.112**		
	MW-3	Oct-15		**0.0248**	0.0157				<0.000540	0.366	0.000298 J	**1.29**			0.00892		
	MW-3	Oct-15	FD	**0.0281**	0.0158				0.00107 J	0.559	0.000371 J	**1.33**			0.00804		
	MW-3	Apr-16		**0.0388**	0.0175 J				<0.00270	0.677	<0.00120	**2.61**			0.00580 J		
	MW-3	Apr-16	FD	**0.0348**	0.0168 J				<0.00270	0.612	<0.00120	**2.62**			0.00575 J		
	MW-3	Oct-16		**0.0550**	0.0152				0.000868 J	**1.82**	0.000241 JB	**1.60**			0.00258		
	MW-3	Oct-16	FD	**0.0553**	0.0152				0.000869 J	**1.75**	0.000692 JB	**1.60**			0.00263		
	MW-3	Apr-17		**0.0213**	0.0140				<0.000540	0.532	0.000306 J	**0.945**			0.00303		
	MW-3	Apr-17	FD	**0.0228**	0.0148				0.000571 J	0.718	0.000272 J	**1.10**			0.00386		
	MW-3	Oct-17		**0.0520**	0.0153				0.000568 J	**2.00**	0.000425 J	**1.15**			0.00335		
	MW-3	Oct-17	FD	**0.0519**	0.0148				0.00107 J	**1.99**	0.000243 J	**1.20**			0.00399		
	MW-4A	Apr-15		**0.108** J	0.0139 J				0.00570 J	**3.15**	<0.00120	**2.96**			<0.00190		
	MW-4A	Oct-15		**0.112**	0.0140				0.00126 J	**2.09**	<0.000240	**1.75**			0.000588 J		
	MW-4A	Apr-16		**0.188**	0.0125 J				<0.00270	**3.21**	<0.00120	**2.39**			<0.00190		
	MW-4A	Oct-16		**0.172**	0.0121				0.000815 J	**1.08**	0.000566 JB	**1.69**			0.000608 J		
	MW-4A	Apr-17		**0.172**	0.0123				<0.000540	**2.34**	0.000274 J	**1.91**			0.000665 J		
	MW-4A	Oct-17		**0.100**	0.0143				<0.000540	**2.22**	<0.000240	**1.95**			0.000494 J		
	MW-4B	Apr-13		**0.0371**	<0.0250				<0.0250	<1.00	**<0.0250**	**1.30**			<0.0250		
	MW-4B	Apr-15		**0.101**	0.0349				<0.00110	**3.60**	0.00189 J	**8.68**			<0.000760		
	MW-4B	Apr-17		**0.0371**	0.0182				<0.000540	**3.42**	<0.000240	**7.35**			<0.000380		
	MW-5A	Apr-15		**0.0938**	0.0128 J				<0.00540	**5.62**	<0.00240	**1.84**			<0.00380		
	MW-5A	Oct-15		**0.0705**	0.0143				0.000685 J	**5.34**	<0.000240	**1.82**			0.000954 J		
	MW-5A	Apr-16		**0.213**	0.0149 J				<0.00270	**8.10**	<0.00120	**1.34**			<0.00190		
	MW-5A	Oct-16		**0.0638**	0.0117				<0.000540	**4.19**	0.000445 JB	**1.73**			0.000606 J		
	MW-5A	Apr-17		**0.149**	0.0135				<0.000540	**6.69**	<0.000240	**1.15**			0.000824 J		
	MW-5A	Oct-17		**0.216**	0.0153				<0.000540	**8.41**	<0.000240	**0.811**			0.00119 J		
	MW-5B	Apr-13		**0.122**	<0.0250				<0.0250	<1.00	**<0.0250**	**2.44**			<0.0250		
	MW-5B	Apr-15		**0.201**	0.0112 J				0.00277 J	**6.11**	<0.00120	**3.87**			0.00197 J		
	MW-5B	Apr-17		**0.154**	0.0115				<0.000540	**4.61**	<0.000240	**3.32**			0.00139 J		
	MW-5C	Apr-13		**0.0139**	0.0166				<0.0100	**1.04**	<0.0100	**0.943**			<0.0100		
	MW-5C	Apr-15		**0.0145**	0.0200 J				<0.00270	**1.15**	<0.00120	**0.975**			<0.00190		
	MW-5C	Apr-17		**0.0113**	0.0237				<0.000540	**1.09**	0.000287 J	**0.918**			<0.000380		
	MW-6A	Apr-14		**0.0113**	0.0287				0.00234 J	<0.100	<0.00140	**1.37**			0.0192		
	MW-6A	Apr-15		**0.0129**	0.0308				<0.00270	0.155 J	<0.00120	**1.40**			0.0308		
	MW-6A	Apr-16		0.00953 J	0.0158 J				<0.00270	0.0787 J	<0.00120	**0.505**			<0.00190		
	MW-6A	Apr-17		**0.0105**	0.0135				<0.000540	0.193	0.000366 J	**0.385**			0.000910 J		
	MW-6B	Mar-13		**0.0493**	0.0139				<0.00500	**1.54**	<0.00500	**2.39**			<0.00500		
	MW-6B	Mar-13	FD	**0.0537**	0.0163				<0.00500	**1.69**	<0.00500	**2.43**			<0.00500		
	MW-6B	Apr-15		**0.0333**	0.0164				<0.00110	**1.37**	<0.000480	**3.45**			<0.000760		
	MW-6B	Apr-17		**0.0115**	0.0134				<0.000540	0.149	<0.000240	**0.889**			<0.000380		
	MW-7A	Apr-15		**0.0190**	0.0149				0.000895 J	0.984	<0.000240	**1.11**			0.000620 J		
	MW-7A	Apr-15	FD	**0.0194**	0.0156				0.00131 J	0.996	0.000288 J	**1.06**			0.000570 J		
	MW-7A	Oct-15		**0.0255**	0.0155				0.00116 J	**2.86**	0.000494 J	**0.632**			0.000638 J		
	MW-7A	Oct-15	FD	**0.0253**	0.0159				0.00114 J	**2.86**	0.000524 J	**0.629**			0.000647 J		
	MW-7A	Apr-16		**0.0382**	0.0170 J				0.00370 J	**6.35**	<0.00120	**0.682**			<0.00190		
	MW-7A	Apr-16	FD	**0.0305**	0.0158 J				<0.00270	**4.43**	<0.00120	**0.588**			<0.00190		
	MW-7A	Oct-16		**0.0181**	0.0173				0.00184 J	**1.66**	0.000527 JB	**0.563**			0.000402 J		
	MW-7A	Oct-16	FD	**0.0186**	0.0159				0.00184 J	**1.66**	0.000618 JB	**0.563**			0.000507 J		
	MW-7A	Apr-17		**0.0182**	0.0148				0.000819 J	**3.20**	<0.000240	**0.530**			0.000425 J		
	MW-7A	Apr-17	FD	**0.0195**	0.0154				0.000720 J	**3.07**	<0.000240	**0.521** V			<0.000380		
	MW-7A	Oct-17		**0.0278**	0.0211				0.00136 J	**4.76**	0.000335 J	**0.509**			<0.000380		
	MW-7A	Oct-17	FD	**0.0286**	0.0168				0.00128 J	**4.82**	<0.000240	**0.522**			<0.000380		
	MW-7B	Apr-13		**<0.0250**	<0.0250				<0.0250	<1.00	**<0.0250**	**0.397**			<0.0250		
	MW-7B	Apr-15		0.00588	0.0111				0.000702 J	0.188	<0.000240	**0.580**			<0.000380		
	MW-7B	Apr-17		0.00397	0.0111				<0.000540	0.146	<0.000240	**0.472**			<0.000380		
	MW-10	Apr-15		**0.0200**	0.0128 J				<0.00270	<0.0750	<0.00120	**2.43**			<0.00190		
	MW-10	Oct-15		**0.0173**	0.0124				<0.000540	0.0570 J	<0.000240	**2.55**			<0.000380		
	MW-10	Apr-16		**0.0196**	0.0123 J				<0.00270	<0.0750	<0.00120	**2.83**			<0.00190		
	MW-10	Oct-16		**0.0191**	0.0184				<0.000540	0.589	0.000399 JB	**2.21**			<0.000380		
	MW-10	Apr-17		**0.0156**	0.0118				<0.000540	0.0992 J	0.000290 J	**2.24**			0.000483 J		
	MW-10	Oct-17		**0.0156**	0.0110				<0.000540	0.147	<0.000240	**2.74**			<0.000380		
	MW-11A	Apr-15		<0.00500	0.0410 J				<0.0100	<0.300	<0.00480	**0.912**			<0.00760		
	MW-11A	Oct-15															
	MW-11A	Apr-16		<0.00125	0.0301				0.00353 J	0.416 J	<0.00120	**0.876** V			<0.00190		
	MW-11A	Oct-16															
	MW-11A	Apr-17		0.00056 J	0.0306				0.00121 J	0.804	<0.000240	**0.758**			<0.000380		
	MW-11A	Oct-17															
	MW-11B	Mar-13		**<0.0250**	<0.0250				<0.0250	**3.25**	**<0.0250**	**0.316**			<0.0250		
	MW-11B	Apr-15		0.00453 J	0.0189 J				<0.00540	**4.38**	<0.00240	**0.427**			<0.00380		
	MW-11B	Apr-17		0.00420	0.0189				<0.000540	**4.59**	<0.000240	**0.374**			<0.000380		
	MW-12	Apr-14		<0.00500	0.0194				<0.00500	0.441 J	<0.00140	0.200			0.0172 J		
	MW-13	Apr-14		0.00205 J	0.0310				<0.00200	<0.100	<0.00140	0.192			<0.00200		
	MW-15	Apr-14		**0.0605**	0.0217				0.00381 J	<0.100	<0.00140	**0.363**			0.00535 J		
	MW-15	Apr-15		**0.0279**	0.0236 J				<0.00270	<0.0750	<0.00120	**0.861**			0.0195		
	MW-15	Apr-16		**0.0216**	0.0203 J				<0.00270	<0.0750	<0.00120	**0.887**			0.00201 J		
	MW-15	Apr-17		**0.0130**	0.0180				<0.000540	0.0239 B	<0.000240	0.173			0.000518 J		

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

2017 Annual Groundwater Monitoring Report

HollyFrontier Navajo Refining LLC, Artesia Refinery, Artesia, New Mexico

				Analyte Group:	Total Metals													
				Analyte:	Arsenic	Barium	Boron	Cadmium	Cobalt	Chromium	Iron	Lead	Manganese	Mercury	Nickel	Selenium	Uranium	Vanadium
				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:	0.010	1.00	0.75	0.005	0.050	0.050	1.00	0.015	0.200	0.002	0.200	0.050	0.030	0.0631
				CGWSL Source:	USEPA MCL	WQCC HH	WQCC Irr	USEPA MCL	WQCC Irr	WQCC HH	WQCC Dom	USEPA MCL	WQCC Dom	USEPA MCL	WQCC Irr	USEPA MCL	WQCC HH	NMED TW
Area	Well ID	Date	Dup															
Evaporation Ponds	MW-18A	Apr-15			0.00410	0.0129				0.000794 J	0.379	<0.00480	0.0221	<0.000049	0.00225	**0.0503**		0.00652
	MW-18A	Oct-15			0.00485	0.0173				0.00184 J	0.572	0.000262 J	**0.363**	<0.000049	0.00330	0.00108 J		0.00360 J
	MW-18A	Apr-16			0.00644 J	0.0155 J	**3.14**	<0.00500	<0.00130	<0.00270	0.358 J	<0.00120	**0.366**	<0.000049	0.0121 J	<0.00190	**0.0417** J	0.00258 J
	MW-18A	Oct-16			0.00411	0.0166	**2.73**	<0.000160	<0.000260	<0.000540	0.722	<0.000240	**0.576**	<0.000049	0.00618	0.000448 J	**0.0375**	0.00128 J
	MW-18A	Apr-17			0.00466	0.0152	**2.04**	<0.000160	<0.000260	<0.000540	0.637	<0.000240	**0.723**	<0.000049	0.00762	0.000491 J	**0.0305**	0.000435 J
	MW-18A	Oct-17			0.00600 J	0.0173 J	**2.53**	<0.000800	0.00282 J	<0.000540	**1.47**	<0.00120	**2.05**	<0.000049	0.00793 J	<0.00190	**0.0302** J	<0.000900
	MW-18B	Apr-13			<0.0100	0.0126				<0.0100	<0.400	<0.0100	**0.572**			<0.0100		
	MW-18B	Apr-15			**0.0120**	0.0125				0.000942 J	0.139	0.000814 J	**0.789**			<0.000380		
	MW-18B	Apr-17			0.00883	0.0137				<0.000540	0.0793 J	0.00104 J	**0.803**			<0.000380		
	MW-22A	Apr-15			**0.0545**	0.0179 J				<0.00270	**2.34**	<0.00120	**5.18**			<0.00190		
	MW-22A	Apr-15	FD		**0.0362**	0.0147 J				<0.00270	**2.89**	<0.00120	**4.36**			<0.00190		
	MW-22A	Oct-15			**0.0482**	0.0166				<0.000540	**4.62**	<0.000240	**5.86**			0.000966 J		
	MW-22A	Oct-15	FD		**0.0479**	0.0165				<0.000540	**4.54**	<0.000240	**5.81**			0.000979 J		
	MW-22A	Apr-16			**0.0449**	0.0174 J				<0.00270	**4.42**	<0.00120	**6.06**			<0.00190		
	MW-22A	Apr-16	FD		**0.0455**	0.0167				<0.00270	**4.46**	<0.00120	**6.20**			<0.00190		
	MW-22A	Oct-16			**0.0452**	0.0179				0.000678 J	**5.41**	<0.000240	**7.28**			0.000938 J		
	MW-22A	Oct-16	FD		**0.0447**	0.0183				0.000633 J	**5.26**	<0.000240	**7.15**			0.000874 J		
	MW-22A	Apr-17			**0.0411**	0.0161				<0.000540	**6.07**	0.000354 J	**5.82**			0.000886 J		
	MW-22A	Apr-17	FD		**0.0412**	0.0155				0.000813 J	**6.33**	<0.000240	**6.41**			0.000774 J		
	MW-22A	Oct-17			**0.0427**	0.0167				0.0233	**4.91**	0.000434 J	**6.34**			0.000800 J		
	MW-22A	Oct-17	FD		**0.0432**	0.0158				0.000695 J	**4.94**	<0.000240	**6.52**			0.000858 J		
	MW-22B	Apr-13			**0.0343**	<0.0250				<0.0250	**1.78**	**<0.0250**	**3.37**			<0.0250		
	MW-22B	Apr-15			**0.0389**	0.0160 J				<0.00270	**2.32**	0.00134 J	**4.32**			<0.00190		
	MW-22B	Apr-17			**0.0255**	0.0116				<0.000540	**1.03**	0.000313 J	**3.35**			0.000603 J		
	MW-70	Apr-15			**0.0252**	0.0151				0.000653 J	**3.29**	<0.000240	**0.222**			<0.000380		
	MW-70	Oct-15			**0.0163**	0.0166				<0.000540	**2.99**	<0.000240	**0.227**			<0.000380		
	MW-70	Apr-16			**0.0238**	0.0147 J				<0.00270	**6.19**	<0.00120	**0.543**			<0.00190		
	MW-70	Oct-16			**0.0189**	0.0162				<0.000540	**4.69**	<0.000240	**0.381**			<0.000380		
	MW-70	Apr-17			**0.0156**	0.0149				<0.000540	**2.19**	<0.000240	**0.440**			<0.000380		
	MW-70	Oct-17			**0.0180**	0.0159 J				<0.000540	**4.58**	<0.00120	**0.272**			<0.00190		
	MW-72	Apr-14			**0.0480**	0.0154				<0.00100	**7.13**	<0.000700	**5.69**			<0.00100		
	MW-72	Apr-15			**0.149**	0.0321				<0.00270	**32.3**	<0.00120	**3.05**			0.0155		
	MW-72	Apr-16			**0.0318**	0.0195 J				<0.00270	**7.20**	<0.00120	**4.86**			<0.00190		
	MW-72	Apr-17			**0.0164**	0.0213				<0.000540	**1.62**	<0.000240	**3.88**			0.00210		
	MW-73	Apr-14			**0.0982**	0.0132 J				<0.00500	**5.71**	<0.00350	**2.77**			<0.00500		
	MW-73	Apr-15			**0.0757**	0.00999 J				<0.00270	**2.4**	<0.00120	**2.61**			0.00233 J		
	MW-73	Apr-16			**0.0990**	0.0114 J				<0.00270	**8.28**	<0.00120	**3.17**			0.00201 J		
	MW-73	Apr-17			**0.0650**	0.00734				<0.000540	**1.92**	<0.000240	0.187			0.00184 J		
	MW-74	Apr-15			**0.0549**	0.00894 J				<0.00270	0.175 J	<0.00120	**0.406**			**0.480**		
	MW-74	Oct-15			**0.0733**	0.0127				<0.00108	<0.0300	<0.000480	**1.17**			**0.0608**		
	MW-74	Apr-16			**0.136**	0.0151 J				<0.00270	0.756	<0.00120	**2.19**			0.0150		
	MW-74	Oct-16			**0.0699**	0.0147				0.00120 J	0.203 B	<0.000240	0.0907			**0.585**		
	MW-74	Apr-17			**0.0672**	0.0132				<0.000540	0.0369 J	<0.000240	**1.04**			**0.156**		
	MW-74	Oct-17			**0.0696**	0.0146				<0.000540	0.0463 J	<0.000240	**1.05**			**0.144**		
	MW-75	Apr-15			**0.400**	0.0183 J				0.00396 J	**10.7**	<0.00120	**0.901**			0.00311 J		
	MW-75	Oct-15			**0.328**	0.0149				0.00155 J	**3.75**	<0.000240	**0.821**			0.00248		
	MW-75	Apr-16			**0.183**	0.0218 J				<0.00270	**2.52**	<0.00120	**1.01**			0.00310 J		
	MW-75	Oct-16			**0.275**	0.0150				0.00156 J	**3.29**	<0.000240	**0.916**			0.00245		
	MW-75	Apr-17			**0.220**	0.0174				<0.000540	**3.39**	<0.000240	**0.828**			0.00229		
	MW-75	Oct-17			**0.296**	0.0159				0.00133 J	**3.58**	0.000323 J	**0.834**			0.00196 J		
	MW-76	Apr-15			**0.0777**	0.0127 J				<0.00270	**4.04**	<0.00120	**1.10**			0.00258 J		
	MW-76	Oct-15			**0.0582**	0.0143				0.00126 J	**3.75**	0.000242 J	**0.753**			0.00250		
	MW-76	Apr-16			**0.0610**	0.0140 J				<0.00270	**4.68**	<0.00120	**1.07**			0.00298 J		
	MW-76	Oct-16			**0.0818**	0.0163				0.00266	**6.79**	<0.000240	**1.25**			0.00582		
	MW-76	Apr-17			**0.0561**	0.0120				<0.000540	**4.06**	<0.000240	**0.780**			0.00327		
	MW-76	Oct-17			**0.0594**	0.0134				0.00185 J	**3.93**	<0.000240	**0.741**			0.00399		
	MW-77	Apr-15			**0.0928**	0.0158 J				0.0144	**14.9**	<0.00120	**0.666**			0.0135		
	MW-77	Oct-15			**0.0500**	0.0132 J				0.0098 J	**8.54**	<0.00120	**0.703**			0.0119		
	MW-77	Apr-16			**0.0749**	0.0136 J				0.0132	**12.2**	<0.00120	**0.687**			0.0137		
	MW-77	Oct-16			**0.0505**	0.0120 JB				0.00899 J	**7.87**	<0.00120	**0.706**			0.00996 J		
	MW-77	Apr-17			**0.0466**	0.0100				0.00752	**7.88**	<0.000240	**0.521**			0.0106		
	MW-78	Apr-14			**0.0217**	0.0388				0.0476	**7.58**	0.00107 J	**1.46**			0.0105		
	MW-78	Apr-15			**0.0211**	0.0318				**0.133**	**12.3**	<0.00120	**1.29**			0.0156		
	MW-78	Apr-16			**0.0210**	0.0445				**0.0761**	**14.8**	<0.00120	**0.946**			0.0141		
	MW-78	Apr-17			0.00820	0.0388				0.0422	0.469	<0.000240	**0.435**			0.00957		
	MW-79	Apr-15			0.00807 J	0.0154 J				<0.00270	0.276 J	<0.00120	**1.46**			<0.00190		
	MW-79	Oct-15			**0.0126**	0.0165				<0.00108	**3.03**	<0.000480	**3.76**			0.00144 J		
	MW-79	Apr-16			**0.0113**	0.0181 J				<0.00270	0.882	<0.00120	**3.00**			<0.00190		
	MW-79	Oct-16			**0.0208**	0.0184				<0.000540	**5.37**	<0.000240	**3.68** V			<0.000380		
	MW-79	Apr-17			0.00521	0.0166				<0.000540	0.150	<0.000240	**1.11** V			0.000569 J		
	MW-79	Oct-17			0.00441	0.0178				<0.000540	0.751	<0.000240	**3.82**			<0.000380		
	MW-80	Apr-14			**0.0143**	0.0160				<0.00200	**2.10**	<0.00140	**0.703**			<0.00200		
	MW-80	Apr-15			**0.0187**	0.0151 J				<0.00270	**1.73**	<0.00120	**0.555**			<0.00190		
	MW-80	Apr-16			0.00788 J	0.0185 J				0.0465	**1.34**	<0.00120	**0.234**			<0.00190		
	MW-80	Apr-17			0.00643	0.0173				0.00138 J	0.160	<0.000240	**0.598**			0.00218		
	MW-81	Apr-14			**0.0188**	0.0162				<0.00200	<0.100	<0.00140	0.137			0.00757 J		
	MW-81	Apr-15			**0.0220**	0.0131 J				<0.00270	0.183 J	<0.00120	0.132			0.0235		
	MW-81	Apr-16			**0.0300**	0.0212 J				<0.00270	0.136 J	<0.00120	0.106			0.0467		
	MW-81	Apr-17			**0.0157**	0.0144				<0.000540	<0.0150	0.000248 J	0.0117			0.0182		
	MW-82	Apr-14			**0.133**	0.0210				<0.00200	**3.06**	0.000773 J	**1.33**			<0.00200		
	MW-82	Apr-14	FD		**0.126**	0.0210				<0.00200	**2.73**	<0.00140	**1.36**			<0.00200		
	MW-82	Apr-15			**0.0929**	0.0302				0.00570 J	**1.68**	<0.00120	**1.38**			0.00302 J		
	MW-82	Apr-16			**0.0510**	0.0387				<0.00270	0.414 J	<0.00120	**1.76**			0.00199 J		
	MW-82	Apr-17			**0.0468**	0.0273				0.00182 J	0.792	0.000744 J	**2.02**			0.00137 J		
	MW-83	Apr-15			**0.0304**	0.0116 J				0.0115	**8.98**	<0.00120	**0.863**			0.00376 J		
	MW-83	Oct-15			**0.0215**	0.0403				0.00791	**1.87**	0.000860 J	0.170			0.00806		
	MW-83	Apr-16			**0.0313**	0.0248 J				0.0153	**5.63**	<0.00120	**0.573**			0.00364 J		
	MW-83	Oct-16			**0.0131**	0.121				0.00973	**1.85**	0.00141 JB	**0.434**			0.00925		
	MW-83	Apr-17			**0.0236**	0.0387				0.0224	**8.80**	0.00153 J	**0.570**			0.00556		
	MW-83	Oct-17			**0.0237**	0.0457				0.0338	**5.69**	0.00154 J	**0.460**			0.00446		
	MW-84	Apr-15			**0.116**	0.0135 J				0.00500 J	**2.54**	<0.00120	**2.83**			0.00452 J		
	MW-84	Oct-15			**0.0827**	0.0249 J				0.0220	0.397 J	<0.00240	**2.74**			0.0308		
	MW-84	Apr-16			**0.115**	0.0173 J				0.00771 J	**1.27**	<0.00120	**3.30**			0.00714 J		
	MW-84	Oct-16			**0.0981**	0.0189				0.00917	0.868	<0.000240	**2.71**			0.0110		
	MW-84	Apr-17			**0.0798**	0.0132				0.000849 J	0.439	0.000346 J	**2.28**			0.00527		
	MW-84	Oct-17			**0.151**	0.0133				0.00353	**6.03**	<0.000240	**2.90**			0.00432		
	MW-87	Apr-15			0.00635	0.0184				0.000789 J	0.194	<0.000240	0.102			0.00115 J		
	MW-87	Oct-15			0.00702	0.0322				<0.000540	**11.8**	<0.000240	**6.04**			0.00131 J		
	MW-87	Apr-16			**0.0106**	0.0200 JO1				<0.00270	**4.56**	<0.00120	**2.70** V			<0.00190		
	MW-87	Oct-16			0.00673	0.0179				<0.000540	**1.53**	<0.000240	**0.731**			<0.000380		
	MW-87	Apr-17			0.00551	0.0155				<0.000540	**1.52**	<0.000240	**1.62**			<0.000380		
	MW-87	Oct-17			0.00776 J	0.0174 J				<0.000540	**1.71**	0.00473 J	**1.48**			<0.00190		

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

2017 Annual Groundwater Monitoring Report

HollyFrontier Navajo Refining LLC, Artesia Refinery, Artesia, New Mexico

				Analyte Group:	Total Metals													
				Analyte:	Arsenic	Barium	Boron	Cadmium	Cobalt	Chromium	Iron	Lead	Manganese	Mercury	Nickel	Selenium	Uranium	Vanadium
				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:	0.010	1.00	0.75	0.005	0.050	0.050	1.00	0.015	0.200	0.002	0.200	0.050	0.030	0.0631
				CGWSL Source:	USEPA MCL	WQCC HH	WQCC Irr	USEPA MCL	WQCC Irr	WQCC HH	WQCC Dom	USEPA MCL	WQCC Dom	USEPA MCL	WQCC Irr	USEPA MCL	WQCC HH	NMED TW
Area	Well ID	Date	Dup															
Evaporation Ponds	MW-88	Apr-15		**0.0231**	0.0132 J				<0.00270	**2.11**	<0.00120	**1.42**			<0.00190		
	MW-88	Oct-15		0.00917	0.0108				<0.000540	0.0268 J	<0.000240	**0.772**			<0.000380		
	MW-88	Apr-16		0.00976 J	0.0107 J				<0.00270	<0.0750	<0.00120	**0.844**			<0.00190		
	MW-88	Oct-16		0.00911	0.0104				0.000551 J	<0.0150	<0.000240	**0.976**			<0.000380		
	MW-88	Apr-17		0.00709	0.0101				<0.000540	<0.0150	<0.000240	**0.819**			<0.000380		
	MW-88	Oct-17		0.00742	0.0113				<0.000540	0.0458 J	0.000315 J	**0.823**			<0.000380		
	MW-120	Apr-15		0.00974 J	0.0108 J				<0.00270	**2.63**	<0.00120	**1.33**			0.0335		
	MW-120	Oct-15		**0.0101**	0.0149				<0.000540	**4.74**	<0.000240	**1.79**			0.00113 J		
	MW-120	Apr-16		**0.0138**	0.0176 J				<0.00270	**7.32**	<0.00120	**2.14**			0.00511 J		
	MW-120	Oct-16		**0.0135**	0.0194				<0.000540	**5.90**	<0.000240	**1.96**			<0.000380		
	MW-120	Apr-17		**0.0106**	0.0144				<0.000540	**4.54**	0.000345 J	**1.48**			0.00251		
	MW-120	Oct-17		**0.0112**	0.0160				0.000571 J	**4.59**	<0.000240	**1.49**			0.000531 J		
	MW-121	Apr-15		**0.0366**	0.0142				<0.00110	0.700	<0.000480	**3.85**			0.00792		
	MW-121	Oct-15		**0.0413**	0.0138				<0.000540	0.287	<0.000240	**2.70**			0.0109		
	MW-121	Apr-16		**0.0443**	0.0179 J				<0.00270	0.530	<0.00120	**3.56**			0.00777 J		
	MW-121	Oct-16		**0.0377**	0.0130				<0.000540	0.262	<0.000240	**2.33**			0.00746		
	MW-121	Apr-17		**0.0322**	0.0128				<0.000540	0.304	<0.000240	**2.66**			0.00468		
	MW-121	Oct-17		**0.0345**	0.0136				<0.000540	0.221	<0.000240	**2.40**			0.00788		
	MW-122	Apr-15		**0.0116** J	0.0273 J				<0.00540	0.606 J	<0.00240	**1.92**			0.00988 J		
	MW-122	Oct-15		0.00629	0.0251				<0.00108	**1.59**	<0.000480	**1.27**			0.00120 J		
	MW-122	Apr-16		0.00444 J	0.0291				<0.00270	0.610	<0.00120	**1.50**			<0.00190		
	MW-122	Oct-16		0.00559	0.0272				<0.000540	**5.20**	<0.000240	**1.61**			<0.000380		
	MW-122	Apr-17		0.00519	0.0300				<0.000540	**2.02**	<0.000240	**2.03**			0.000551 J		
	MW-122	Oct-17		0.00559	0.0231				<0.000540	**5.01**	<0.000240	**1.28**			<0.000380		
	MW-123	Apr-15		**0.0258**	0.0200 J				<0.00270	<0.0750	<0.00120	**2.59**			<0.00190		
	MW-123	Oct-15		**0.0250**	0.0226				<0.000540	0.0657 J	0.000254 J	**2.72**			<0.000380		
	MW-123	Apr-16		**0.0275**	0.0242 J				<0.00270	<0.0750	<0.00120	**2.92**			<0.00190		
	MW-123	Oct-16		**0.0226**	0.0236				<0.000540	0.0599 J	0.000364 JB	**2.59**			<0.000380		
	MW-123	Apr-17		**0.0231**	0.0213 O1				<0.000540	0.0684 B	<0.000240	**2.59**			0.000395 J		
	MW-123	Oct-17		**0.0221**	0.0239				<0.000540	<0.0150	<0.000240	**2.88**			<0.000380		
	MW-124	Apr-15		0.00276	0.0192				0.00126 J	**1.22**	0.000379 J	**0.816**			<0.000380		
	MW-124	Oct-15		0.00443	0.0247				<0.00108	**2.93**	<0.000480	**0.562**			<0.000760		
	MW-124	Apr-16		0.00477 J	0.0288				<0.00270	**4.08**	<0.00120	**0.749**			<0.00190		
	MW-124	Oct-16		0.00303	0.0323				0.00124 J	**4.99**	0.000546 JB	**0.469**			<0.000380		
	MW-124	Apr-17		0.00565	0.0205				<0.000540	**10.6**	<0.000240	**0.448**			<0.000380		
	MW-124	Oct-17		0.00354 J	0.0219 J				<0.000540	**5.08**	<0.00120	**0.521**			<0.00190		
	OCD-1R	Apr-15		0.00662 J	0.0176 J				<0.00540	0.238 J	<0.00240	**0.773**			0.0217		
	OCD-1R	Oct-15		0.00447	0.0184				<0.00108	0.593	<0.000480	**1.59**			0.00229 J		
	OCD-1R	Apr-16		0.00729 J	0.0141 J				**0.105**	**1.54**	<0.00120	**0.462**			0.00420 J		
	OCD-1R	Oct-16		0.00524	0.0286				0.00312	**3.04**	<0.000240	**3.92**			0.000543 J		
	OCD-1R	Apr-17		0.00319	0.0150				0.00119 J	0.275 B	<0.000240	**1.27**			0.000988 J		
	OCD-1R	Oct-17		0.00433	0.0192				0.000885 J	0.830	0.000662 J	**1.56**			0.000822 J		
	OCD-2A	Apr-15		0.00197 J	0.0193 J				<0.00270	0.965	<0.00120	**0.313**			<0.00190		
	OCD-2A	Oct-15		0.00361 J	0.0234				0.00385 J	**2.64**	<0.000480	**1.34**			<0.000760		
	OCD-2A	Apr-16		0.0064 J	0.0209 J				0.00304 J	**5.47**	<0.00120	**1.66**			<0.00190		
	OCD-2A	Oct-16		0.00234	0.0264				0.000783 J	**1.50**	0.000260 J	**0.535**			<0.000380		
	OCD-2A	Apr-17		0.00591	0.0213				<0.000540	**6.76**	<0.000240	**1.22**			<0.000380		
	OCD-2A	Oct-17		0.00323	0.0197				<0.000540	**3.74**	<0.000240	**0.966**			<0.000380		
	OCD-3	Apr-15		0.00421 J	0.0198 J				<0.00270	**1.69**	<0.00120	0.165			<0.00190		
	OCD-3	Oct-15		0.00184 J	0.0224				<0.000540	0.352	<0.000240	**0.412**			0.00113 J		
	OCD-3	Apr-16		0.00389 J	0.0214 J				<0.00270	**1.23**	<0.00120	0.0524			<0.00190		
	OCD-3	Oct-16		0.00422	0.0228				<0.000540	**2.31**	<0.000240	**0.527**			<0.000380		
	OCD-3	Apr-17		0.00141 J	0.0207				<0.000540	0.681	<0.000240	0.0337			<0.000380		
	OCD-3	Oct-17		**0.0104**	0.0255				0.000587 J	**5.44**	<0.000240	**0.770**			<0.000380		
	OCD-4	Apr-15		0.00351 J	0.0263 J				<0.00540	**4.06**	<0.00240	**0.311**			<0.00380		
	OCD-4	Oct-15		0.00701	0.0226				<0.000540	**6.61**	<0.000240	**0.233**			<0.000380		
	OCD-4	Apr-16		0.00209 J	0.0226 J				<0.00270	0.855	<0.00120	0.119			<0.00190		
	OCD-4	Oct-16		0.00374	0.0255				<0.000540	**3.46**	<0.000240	**0.285**			<0.000380		
	OCD-4	Apr-17		0.00227	0.0219				<0.000540	**2.00**	<0.000240	0.0669			<0.000380		
	OCD-4	Oct-17		**0.0105**	0.0248				<0.000540	**10.0**	<0.000240	**0.270**			<0.000380		
	OCD-5	Apr-15		0.00805 J	0.0284 J				<0.00540	**5.34**	<0.00240	**0.328**			<0.00380		
	OCD-5	Oct-15		**0.0166**	0.0272				0.00108 J	**11.3**	<0.000480	**0.306**			<0.000760		
	OCD-5	Apr-16		**0.0126**	0.0279				<0.00270	**15.4**	0.00177 J	**0.267**			<0.00190		
	OCD-5	Oct-16		0.00863	0.0288				0.000559 J	**9.09**	<0.000240	**0.295**			<0.000380		
	OCD-5	Apr-17		**0.0108**	0.0269				<0.000540	**17.0**	<0.000240	**0.343**			<0.000380		
	OCD-5	Oct-17		**0.0124**	0.0261				0.000602 J	**12.6**	<0.000240	**0.271**			<0.000380		
	OCD-6	Apr-15		**0.0141**	0.0240 J				<0.00270	**3.91**	<0.00120	**2.07**			<0.00190		
	OCD-6	Oct-15		**0.0235**	0.0254				<0.00108	**9.38**	<0.000480	**2.32**			0.00110 J		
	OCD-6	Apr-16		**0.0139**	0.0214 J				<0.00270	**2.39**	<0.00120	**2.22**			<0.00190		
	OCD-6	Oct-16		**0.0120**	0.0253				0.000759 JB	**1.82**	0.000501 JB	**2.61**			0.000900 J		
	OCD-6	Apr-17		0.00911	0.0222				<0.000540	**2.28**	<0.000240	**2.09**			0.000598 J		
	OCD-6	Oct-17		**0.0200**	0.0256				<0.000540	**11.4**	<0.000240	**2.29**			<0.000380		
	OCD-7AR	Apr-15		**0.0840**	0.0111 J				<0.00270	**1.66**	<0.00120	**2.56**			<0.00190		
	OCD-7AR	Oct-15		**0.201**	0.0162				<0.00108	**9.36**	<0.000480	**2.88**			0.00230 J		
	OCD-7AR	Apr-16		**0.150**	0.0145 J				<0.00270	**2.89**	<0.00120	**2.25**			0.00195 J		
	OCD-7AR	Oct-16		**0.169**	0.0151				0.000837 J	**10.3**	<0.000240	**2.92**			0.00178 J		
	OCD-7AR	Apr-17		**0.113**	0.0134				<0.000540	**1.77**	<0.000240	**2.14**			0.00141 J		
	OCD-7AR	Oct-17		**0.181**	0.0150				<0.000540	**10.9**	<0.000240	**2.69**			0.00160 J		
	OCD-7B	Mar-13		<0.00500	0.0160				<0.00500	<0.200	<0.00500	0.0246			<0.00500		
	OCD-7B	Apr-15		0.00294 J	0.0196 J				<0.00270	**3.52**	<0.00120	**0.710**			<0.00190		
	OCD-7B	Apr-17		0.00194 J	0.0179				<0.000540	**2.73**	<0.000240	**0.621**			<0.000380		
	OCD-8A	Apr-15		**0.0541**	0.0336				0.000836 J	**12.3**	<0.000240	**6.38**	<0.000049	0.0598	0.000802 J		0.00100 J
	OCD-8A	Oct-15		**0.0622**	0.0287				0.000787 J	**9.70**	0.000380 J	**4.11**	<0.000049 J	0.0471	0.000836 J		0.00231 J
	OCD-8A	Apr-16		**0.0618**	0.0199 J	**0.813**	<0.00500	<0.00130	<0.00270	**8.89**	<0.00120	**3.80**	<0.000049	0.0306	<0.00190	<0.00165	0.00190 J
	OCD-8A	Oct-16		**0.0616**	0.0213	**0.776**	<0.000160	0.00124 J	0.000710 J	**6.60**	0.000478 JB	**3.08**	<0.000049	0.0260	0.000984 J	0.00108 J	0.000745 J
	OCD-8A	Apr-17		**0.0632**	0.0177	**0.837**	<0.000160	0.00103 J	<0.000540	**6.72**	<0.000240	**2.91**	<0.000049	0.0246	0.000793 J	0.00102 J	0.000626 J
	OCD-8A	Oct-17		**0.0857**	0.0196	**0.888**	<0.000160	0.00180 J	0.000994 J	**7.29**	<0.000240	**3.25**	<0.000049	0.0230	0.000961 J	0.000983 J	0.00103 J
	OCD-8B	Apr-13		**<0.0250**	<0.0250				<0.0250	<1.00	**<0.0250**	**0.417**			<0.0250		
	OCD-8B	Apr-15		**0.0126**	0.0141				0.000872 J	0.239	0.000392 J	**5.98**			0.000525 J		
	OCD-8B	Apr-17		0.00912	0.0124				<0.000540	0.266	0.000256 J	**6.36**			<0.000380		
Field East of Refinery	KWB-1A	Apr-15		0.00362	0.00932				0.000649 J	0.108	0.000599 J	**0.543**	<0.000049	0.00866	0.00247		0.0236
	KWB-1A	Oct-15		0.00416	0.00949				<0.000540	0.0387 J	0.000260 J	**0.439**	<0.000049	0.00846	0.000753 J		0.0209
	KWB-1A	Apr-16		0.00401 J	0.0131 J	0.741	<0.00500	0.0122	<0.00270	<0.0750	<0.00120	**0.552**	<0.000049	0.0100	0.00528 J	0.0247 J	0.0258
	KWB-1A	Oct-16		0.00296	0.00944	0.608 O1V	<0.000160	0.0143	0.00127 JB	0.0845 JB	0.000408 J	**0.500**	<0.000049	0.00846	0.00106 J	0.0188	0.0204
	KWB-1A	Apr-17		0.00319	0.00857	0.706	<0.000160	0.00583	<0.000540	<0.0150	<0.000240	**0.447**	<0.000049	0.00881	0.00164 J	0.0232	0.0221
	KWB-1A	Oct-17		0.00342	0.00856	0.745	<0.000160	0.00612	<0.000540	<0.0150	<0.000240	**0.413**	<0.000049	0.00841	0.000912 J	0.0174	0.0237
	KWB-1C	Apr-13		<0.0100	0.0146				<0.0100	<0.400	<0.0100	<0.0100			<0.0100		
	KWB-1C	Apr-15		0.00338	0.00918				<0.000540	0.0537 J	0.000320 J	**0.462**			0.000549 J		
	KWB-1C	Apr-17		0.00303	0.00955				<0.000540	<0.0150	<0.000240	**0.501**			<0.000380		
	KWB-7	Apr-15		**0.0200**	0.0645				0.000832 J	**1.44**	0.000625 J	**5.65**	<0.000049	0.00901	<0.000380		0.00133 J
	KWB-7	Oct-15		0.00939	0.0647				<0.000540	**1.04**	<0.000240	**4.09**	<0.000049	0.00442	<0.000380		0.00182 J
	KWB-7	Apr-16		**0.0104**	0.0550	0.503	<0.00500	0.00739 J	<0.00270	**1.42**	<0.00120	**3.48**	<0.000049	0.0121	<0.00190	0.00299 J	0.00196 J
	KWB-7	Oct-16		0.00597	0.0560	0.455	<0.000160	0.00298	<0.000540	0.677	0.000441 J	**3.04**	<0.000049	0.0107	<0.000380	0.00286 J	0.000901 J
	KWB-7	Apr-17		0.00307	0.0650	0.436	<0.000160	0.00206	<0.000540	**1.47**	0.000707 J	**3.44**	<0.000049	0.00746	<0.000380	0.00159 J	0.00102 J
	KWB-7	Oct-17		0.00415	0.0915	0.460	<0.000160	0.00247	0.000670 J	**1.37**	0.000698 J	**3.22**	<0.000049	0.00875	0.00100 J	0.00142 J	0.00129 J

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

2017 Annual Groundwater Monitoring Report

HollyFrontier Navajo Refining LLC, Artesia Refinery, Artesia, New Mexico

Area	Well ID	Date	Dup	Arsenic	Barium	Boron	Cadmium	Cobalt	Chromium	Iron	Lead	Manganese	Mercury	Nickel	Selenium	Uranium	Vanadium
	Analyte Group:			Total Metals													
	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:			0.010	1.00	0.75	0.005	0.050	0.050	1.00	0.015	0.200	0.002	0.200	0.050	0.030	0.0631
	CGWSL Source:			USEPA MCL	WQCC HH	WQCC Irr	USEPA MCL	WQCC Irr	WQCC HH	WQCC Dom	USEPA MCL	WQCC Dom	USEPA MCL	WQCC Irr	USEPA MCL	WQCC HH	NMED TW
Field East of Refinery	KWB-8	Oct-16		0.00109 J	0.139	0.665	<0.000160	<0.000260	0.000710 JB	0.672	0.00387	**0.997**	<0.000049 J6	0.00102 JB	0.000475 J	0.000746 J	0.00122 J
	KWB-8	Apr-17		0.00129 J	0.106	0.632	<0.000160	0.000264 J	0.000851 J	**1.07**	0.00495	**1.83**	<0.000049	0.00120 J	<0.000380	<0.00033	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**	<0.000049	0.000997 J	0.0463	<0.00033	0.00112 J
	KWB-10R	Apr-15		**0.0259**	**3.50**				<0.000540	**7.48**	0.00172 J	0.149			<0.000380		
	KWB-10R	Oct-15		**0.0217**	**3.72**				<0.000540	**5.84**	0.00109 J	0.157			<0.000380		
	KWB-10R	Apr-16		**0.0226**	**4.31**				<0.00270	**7.43**	0.00131 J	0.199			<0.00190		
	KWB-10R	Oct-16		**0.0301**	0.816				0.000798 JB	**6.11**	0.00102 J	0.161			<0.000380		
	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-11A	Apr-15		0.00251 J	0.0240 J				<0.00270	<0.0750	0.00825 J	**0.294**	<0.000049	0.00675 J	0.00262 J		0.0122 J
	KWB-11A	Oct-15		0.00266	0.0267				<0.000540	<0.0150	0.00515	0.191	<0.000049	0.00461	0.00776		0.0112
	KWB-11A	Apr-16		0.00231 J	0.00508	0.502	<0.00500	0.00175 J	<0.00270	<0.0750	0.00851 J	**0.222**	<0.000049	0.00476 J	0.00852 J	**0.0326** J	0.0118 J
	KWB-11A	Oct-16		0.00220	0.0227	0.449	<0.000160	0.00194 J	<0.000540	<0.0150	0.00525	**0.212**	<0.000049 J3J6O1	0.00476 B	0.00529	0.0217	0.0102
	KWB-11A	Apr-17		0.00183 J	0.0214	0.412	<0.000160	0.00126 J	<0.000540	<0.0150	0.00281	**0.243**	<0.000049	0.00431	0.00536	0.0187	0.0113
	KWB-11A	Oct-17		0.00890	0.0190	0.502	<0.000160	0.00470	<0.000540	0.100	0.00271	**0.325**	<0.000049	0.00598	0.00200 J	0.0127	0.00608
	KWB-11B	Apr-15		0.00147 J	0.0127				0.00116 J	<0.0150	<0.000240	0.00271 J	<0.000049	<0.000350	0.00783		0.00806
	KWB-11B	Oct-15		0.00185 J	0.0134				0.000703 J	<0.0150	<0.000240	0.000257 J	<0.000049	<0.000350	0.00769		0.00812
	KWB-11B	Apr-16		<0.00125	0.0135 J	0.173 JJ6O1	<0.00500	<0.00130	<0.00270	0.121 J	<0.00120	0.00188 J	<0.000049	<0.00175	0.00949 J	0.00987 J	0.00814 J
	KWB-11B	Oct-16		0.00109 J	0.0116	0.105	<0.000160	<0.000260	<0.000540	<0.0150	<0.000240	0.000800 J	<0.000049 J3	0.000559 JB	0.00701	0.0101	0.00727
	KWB-11B	Apr-17		0.00126 J	0.0138	0.121	<0.000160	<0.000260	<0.000540	<0.0150	<0.000240	0.000954 J	<0.000049	<0.000350	0.00959	0.0113	0.00846
	KWB-11B	Oct-17		0.00133 J	0.0127	0.133 J	<0.000160	<0.000260	0.000977 J	0.0153 J	<0.000240	0.00153 J	<0.000049	0.00144 J	0.00907	0.0112	0.00864
	KWB-12A	Apr-15		0.00160 J	0.0168				0.00164 J	0.269	0.000780 J	0.00353 J	<0.000049	0.000930 J	0.00435		0.0108
	KWB-12A	Apr-15	FD	0.00145 J	0.0138				<0.000540	<0.0150	<0.000240	0.000251 J	<0.000049	0.000503 J	0.00375		0.0100
	KWB-12A	Oct-15		0.00242	0.0170				0.000659 J	0.0285 J	<0.000240	0.000862 J	<0.000049	0.000959 J	0.00368		0.0139
	KWB-12A	Apr-16		0.00162 J	0.0164 J	0.695	<0.00500	<0.00130	<0.00270	<0.0750	<0.00120	<0.00125	<0.000049	<0.00175	0.00370 J	**0.0331** J	0.0132 J
	KWB-12A	Oct-16		0.00159 J	0.0156	0.481	<0.000160	<0.000260	0.00159 JB	<0.0150	0.000256 J	<0.000250	<0.000049 J3	0.000739 J	0.00360	0.0288	0.0110
	KWB-12A	Apr-17		0.00149 J	0.0157	0.492	<0.000160	<0.000260	<0.000540	<0.0150	<0.000240	0.00213 J	<0.000049	<0.000350	0.00372 B	0.0260	0.0112
	KWB-12A	Oct-17		0.00142 J	0.0144	0.593	<0.000160	<0.000260	<0.000540	<0.0150	<0.000240	0.000334 J	<0.000049	0.000495 J	0.00334	0.0252	0.0127
	KWB-12B	Apr-15		0.00151 J	0.00823				0.000588 J	<0.0150	<0.000240	0.000826 J	<0.000049	0.000469 J	0.00348		0.0108
	KWB-12B	Oct-15		0.00182 J	0.0118				<0.000540	0.0175 J	<0.000240	0.00117 J	<0.000049	0.00120 J	0.00370		0.0129
	KWB-12B	Oct-15	FD	0.00237	0.0118				0.000599 J	0.0312 J	<0.000240	<0.000250 B	<0.000049	0.000565 J	0.00361		0.0129
	KWB-12B	Apr-16		0.00178 J	0.0130 J	0.712	<0.00500	<0.00130	<0.00270	<0.0750	<0.00120	0.00441 J	<0.000049	<0.00175	0.00307 J	**0.0302** J	0.0125 J
	KWB-12B	Apr-16	FD	0.00165 J	0.0116 J	0.651	<0.00500	<0.00130	<0.00270	<0.0750	<0.00120	0.00434 J	<0.000049	<0.00175	0.00301 J	0.0282 J	0.0117 J
	KWB-12B	Oct-16		0.00159 J	0.0101	0.464	<0.000160	<0.000260	0.00136 JB	0.0358 J	<0.000240	0.00955	<0.000049 J3	0.000824 J	0.00248	0.0263	0.0112
	KWB-12B	Oct-16	FD	0.00161 J	0.0108	0.533	<0.000160	<0.000260	0.00147 JB	0.0369 J	0.000299 J	0.0104	<0.000049 J3	0.000703 J	0.00295	0.0265	0.0114
	KWB-12B	Apr-17		0.00157 J	0.00901	0.525	<0.000160	<0.000260	<0.000540	<0.0150	<0.000240	0.00232 J	<0.000049	<0.000350	0.00382 B	0.0273	0.0122
	KWB-12B	Apr-17	FD	0.00167 J	0.00968	0.558	<0.000160	<0.000260	<0.000540	0.0486 J	<0.000240	0.00129 J	<0.000049	0.000513 JB	0.00356	**0.0307**	0.0127
	KWB-12B	Oct-17		0.00159 J	0.00870	0.616	<0.000160	<0.000260	0.000543 J	0.0534 J	<0.000240	0.00158 J	<0.000049	0.000457 J	0.00346	0.0264 J	0.0127
	KWB-12B	Oct-17	FD	0.00169 J	0.00878	0.629	<0.000160	<0.000260	<0.000540	0.0374 J	<0.000240	0.00122 J	<0.000049	0.000453 J	0.00298	0.0273	0.0122
	KWB-P4	Apr-13															
	KWB-P4	Apr-15															
	KWB-P4	Apr-17															
	MW-57	Apr-15		0.00495	0.0267				0.00104 J	0.658	0.000946 J	0.192			0.0300		
	MW-57	Oct-15		0.00660	0.0339				<0.000540	0.301	0.000729 J	**0.852**			0.0159		
	MW-57	Apr-16		0.00654 J	0.0344				0.00322 J	0.881	0.00266 J	**0.378**			0.0131		
	MW-57	Oct-16		0.00564	0.0253				0.000798 JB	0.559	0.000516 J	0.104			0.0169		
	MW-57	Apr-17		0.00502	0.0202				<0.000540	0.353	0.000515 J	**0.278**			0.0231		
	MW-57	Oct-17		0.00391	0.0176				0.000652 J	0.0996 J	<0.000240	0.0323			0.0171		
	MW-58	Apr-15		**0.0121**	0.819				<0.000540	**1.76**	0.00339	0.0946	<0.000049	0.00140 J	<0.000380		0.00229 J
	MW-58	Oct-15		0.00810	**1.03**				<0.000540	**1.29**	0.00190 J	0.117	<0.000049	0.00108 J	<0.000380		<0.000180 B
	MW-58	Apr-16		**0.0135**	0.744	0.518	<0.00500	<0.00130	<0.00270	**1.06**	0.00297 J	**0.391**	<0.000049	<0.00175	0.00524 J	<0.00165	0.00259 J
	MW-58	Oct-16		0.00683	0.915	0.455	<0.000160	0.000318 J	0.00108 JB	**1.01**	0.00234	0.114	<0.000049 J3	0.00133 J	<0.000380	<0.00033	0.00451 J
	MW-58	Apr-17		**0.0115**	0.716	0.453	<0.000160	<0.000260	<0.000540	0.521	0.00218	**0.333**	<0.000049	0.000637 J	<0.000380	<0.00033	0.00233 J
	MW-58	Oct-17		0.00648	**1.15**	0.471	<0.000160	<0.000260	<0.000540	0.385	0.00204	**0.319**	<0.000049	0.00129 J	<0.000380	<0.00165	0.00422 J
	MW-111	Apr-15		**0.0201**	0.147				0.00167 J	**5.03**	0.00141 J	**1.72**			<0.000380		
	MW-111	Oct-15		**0.0144**	0.127				0.00239	**7.14**	0.00205	**1.52**			<0.000380		
	MW-111	Apr-16		**0.0131**	0.0926				<0.00270	**6.67**	<0.00120	**1.66**			<0.00190		
	MW-111	Oct-16		**0.0108**	0.0757				0.000976 JB	**6.14**	0.000310 J	**1.41**			<0.000380		
	MW-111	Apr-17		**0.0127**	0.0697				<0.000540	**6.15**	<0.000240	**1.57**			<0.000380		
	MW-111	Oct-17		0.00926	0.0714				<0.000540	**7.15**	<0.000240	**1.45**			<0.000380		
	MW-113	Apr-15		0.00294	0.0330				0.00171 J	0.559	0.000733 J	**0.918**			0.00250		
	MW-113	Apr-15	FD	0.00418	0.0518				0.00221	**1.01**	0.000872 J	**0.857**			<0.000380		
	MW-113	Oct-15		0.00366	0.0242				<0.000540	0.196	<0.000240	**0.765**			<0.000380		
	MW-113	Oct-15	FD	0.00379	0.0233				<0.000540	0.203	<0.000240	**0.767**			<0.000380		
	MW-113	Apr-16		0.00282 J	0.0251				<0.00270	0.270 J	<0.00120	**0.734**			<0.00190		
	MW-113	Apr-16	FD	0.00306 J	0.0289				<0.00270	0.347 J	<0.00120	**0.823**			<0.00190		
	MW-113	Oct-16		0.00138 J	0.0249				<0.000540	**1.17** O1	<0.000240	**1.36** O1V			<0.000380		
	MW-113	Oct-16	FD	0.00125 J	0.0245				<0.000540	**1.13**	<0.000240	**1.37**			<0.000380		
	MW-113	Apr-17		0.00284	0.0257				<0.000540	0.512	<0.000240	**1.08**			<0.000380		
	MW-113	Apr-17	FD	0.00285	0.0244				<0.000540	0.480	<0.000240	**1.05**			<0.000380		
	MW-113	Oct-17		0.00138 J	0.0253				<0.000540	0.764	<0.000240	**1.14**			0.000401 J		
	MW-113	Oct-17	FD	0.00140 J	0.0235				<0.000540	0.774	0.000324 J	**1.19**			<0.000380		
	MW-125	Apr-15		0.00369	0.00961				<0.000540	<0.0150	<0.000240	**0.405**			0.00581 J		
	MW-125	Oct-15		0.00440	0.00911				<0.000540	0.0196 J	<0.000240	**0.371**			0.00409		
	MW-125	Apr-16		0.00408 J	0.00922 J				<0.00270	<0.0750	<0.00120	**0.438**			0.00410 J		
	MW-125	Oct-16		0.00383	0.00806				0.000898 JB	<0.0150	<0.000240	**0.370**			0.00253		
	MW-125	Apr-17		0.00336	0.00822				<0.000540	<0.0150	<0.000240	**0.374**			0.00962		
	MW-125	Oct-17		0.00386	0.0153				0.00253	0.0228 J	<0.000240	**0.329**			0.00635		
	MW-126A	Apr-15		0.00270	0.0185				0.00164 J	**1.02**	0.000293 J	**0.824**			<0.000380		
	MW-126A	Oct-15		0.00195 J	0.0146				<0.000540	0.786	<0.000240	**0.642**			<0.000380		
	MW-126A	Apr-16		0.00222	0.0174				<0.00270	0.803	<0.00120	**0.797**			<0.00190		
	MW-126A	Oct-16		0.00257	0.0109				<0.000540	0.299	<0.000240	**0.371**			<0.000380		
	MW-126A	Apr-17		0.00171 J	0.0157				<0.000540	0.602	<0.000240	**0.821**			<0.000380		
	MW-126A	Oct-17		0.00118 J	0.0133				<0.000540	0.485	<0.000240	**0.651**			<0.000380		
	MW-126B	Apr-15		0.00377 J	0.0110 J				<0.00270	<0.0750	<0.00120	0.0892			0.00215 J		
	MW-126B	Oct-15		0.00442	0.0116				0.000580 J	0.154	0.000342 J	0.0609			0.00206		
	MW-126B	Apr-16		0.00430 J	0.0133 J				<0.00270	0.170 J	<0.00120	0.0744			0.00285 J		
	MW-126B	Oct-16		0.00404	0.00919				<0.000540	0.0351 J	<0.000240	0.0539			0.00133 J		
	MW-126B	Apr-17		0.00367	0.0101				<0.000540	0.0356 J	<0.000240	0.0612			0.00207		
	MW-126B	Oct-17		0.00360	0.0100				0.000749 J	0.0330 J	0.000777 J	0.0547			0.00256		
	MW-127	Apr-15		0.00626	0.534				0.00241	**1.64**	0.00138 J	0.109			<0.000380		
	MW-127	Oct-15		0.00499	0.116				<0.000540	0.323	<0.000240	0.0943			<0.000380		
	MW-127	Apr-16		0.00535 J	0.137				<0.00270	0.357 J	<0.00120	0.103			<0.00190		
	MW-127	Oct-16		0.00453	0.0797				<0.000540	0.296	<0.000240	0.101			<0.000380		
	MW-127	Apr-17		0.00383	0.0718				<0.000540	0.187	<0.000240	0.0940			<0.000380		
	MW-127	Oct-17		**0.0114**	0.212				0.00109 J	**1.39**	0.000965 J	0.135			<0.000380		
	MW-128	Apr-15		**0.0520**	0.0783				0.000905 J	**2.94**	0.00246	**2.42**			<0.000380 B		
	MW-128	Oct-15		**0.0552**	0.0772				<0.000540	**2.65**	<0.000240	**2.31**			<0.000380		
	MW-128	Apr-16		**0.341**	0.372				0.00347 J	**15.4**	0.00336 J	**12.9**			<0.00190		
	MW-128	Oct-16		**0.0643**	0.0676				0.00182 JB	**3.12**	0.00222	**2.11**			<0.000380		
	MW-128	Apr-17		**0.0583**	0.0621				0.000580 J	**2.98**	0.00114 J	**2.09**			0.00973		
	MW-128	Oct-17		**0.0554**	0.0610				0.000618 J	**3.07**	0.000404 J	**2.09**			0.00122 J		

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

2017 Annual Groundwater Monitoring Report

HollyFrontier Navajo Refining LLC, Artesia Refinery, Artesia, New Mexico

				Analyte Group:	Total Metals													
				Analyte:	Arsenic	Barium	Boron	Cadmium	Cobalt	Chromium	Iron	Lead	Manganese	Mercury	Nickel	Selenium	Uranium	Vanadium
				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:	0.010	1.00	0.75	0.005	0.050	0.050	1.00	0.015	0.200	0.002	0.200	0.050	0.030	0.0631
				CGWSL Source:	USEPA MCL	WQCC HH	WQCC Irr	USEPA MCL	WQCC Irr	WQCC HH	WQCC Dom	USEPA MCL	WQCC Dom	USEPA MCL	WQCC Irr	USEPA MCL	WQCC HH	NMED TW
Area	Well ID	Date	Dup															
Field East of Refinery	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-16		**0.0272**	0.593				<0.00270	**5.49**	<0.00120	**1.10**			<0.00190		
	MW-129	Oct-16		**0.0236**	0.607				0.000625 JB	**4.79**	0.000529 J	**1.00**			<0.000380		
	MW-129	Apr-17		**0.0226**	0.627				<0.000540	**5.10**	<0.000240	**0.987**			<0.000380		
	MW-130	Apr-15		0.00718	0.677				0.00205	0.143 J	0.00929	**0.242**			<0.00190 B		
	MW-130	Oct-15		0.00477	0.0195				0.000567 J	0.162	0.000362 J	0.0921			0.00224		
	MW-130	Apr-16		0.00449 J	0.0228 J				<0.00270	0.451 J	<0.00120	0.105			0.00575 J		
	MW-130	Oct-16		0.00403	0.0188				0.000869 JB	0.104	<0.000240	0.0891			0.00675		
	MW-130	Apr-17		0.00391	0.0198				<0.000540	0.0756 J	<0.000240	0.0972			0.0101		
	MW-130	Oct-17		0.00374	0.0179				<0.000540	0.0360 J	<0.000240	0.0918			0.00852		
	MW-131	Apr-15		**0.0220**	**2.67**				0.000747 J	**2.34**	0.000919 J	**0.316**			<0.000380		
	MW-131	Oct-15		**0.0261**	**2.88**				0.00371	**4.71**	0.00294	**0.337**			<0.000380		
	MW-131	Apr-16		**0.0222**	**2.67**				<0.00270	**1.46**	<0.00120	**0.305**			<0.00190		
	MW-131	Oct-16		**0.0207**	**2.69**				<0.000540	**1.34**	<0.000240	**0.285**			<0.000380		
	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-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-15		0.00881 J	0.0143 J				0.00285 J	0.234 J	<0.00120	0.00773 J			0.0197		
	MW-134	Apr-15	FD	0.00575	0.0107				0.00148 J	0.131	<0.000240	0.00795			0.0129		
	MW-134	Oct-15		0.00621	0.0101				0.000869 J	<0.0150	<0.000240	0.00650			0.00756		
	MW-134	Oct-15	FD	0.00630	0.00964				0.000709 J	<0.0150	<0.000240	0.00594			0.00807		
	MW-134	Apr-16		0.00566 J	0.0112 J				<0.00270	<0.0750	0.00131 J	0.0102 J			0.00812 J		
	MW-134	Apr-16	FD	0.00555 J	0.00895 J				<0.00270	0.0767 J	<0.00120	0.0110 J			0.00711 J		
	MW-134	Oct-16		0.00511	0.00827				0.00158 JB	0.0181 JB	<0.000240	0.00886			0.00647		
	MW-134	Oct-16	FD	0.00475	0.00833				0.00148 JB	0.0293 JB	0.000513 J	0.00817			0.00416		
	MW-134	Apr-17		0.00453	0.00963				<0.000540	<0.0150	<0.000240	0.00801			0.00537		
	MW-134	Apr-17	FD	0.00464	0.00877				0.000611 J	<0.0150	<0.000240	0.00808			0.00572		
	MW-134	Oct-17		0.00432	0.00942				0.000691 J	<0.0150	<0.000240	0.00999			0.00743		
	MW-134	Oct-17	FD	0.00445	0.0100				0.000840 J	0.0489 J	<0.000240	0.0109			0.00554		
	MW-135	Apr-15		0.00871 J	0.413				0.0168	**5.33**	0.0119	**0.500**			0.0337		
	MW-135	Oct-15		0.00442	0.0580				0.00319	**1.52**	0.00144 J	0.0438			0.0399		
	MW-135	Apr-16		**0.0216**	0.303				0.0130	**5.54**	0.00566 J	**0.225**			**0.128**		
	MW-135	Oct-16		0.00394	0.0397				0.00149 JB	0.598	0.000686 J	0.0324			0.0368		
	MW-135	Apr-17		0.00324	0.0221				<0.000540	0.339	0.000499 J	0.0187			0.0361		
	MW-135	Oct-17		0.00339	0.0249				0.00166 J	0.526	0.000498 J	0.0229			0.0341		
	RA-4196	Apr-15															
	RA-4196	Oct-15															
	RA-4196	Apr-16															
	RA-4196	Oct-16															
	RA-4196	Apr-17															
	RA-4196	Oct-17															
	RA-4798	Apr-15															
	RA-4798	Oct-15															
	RA-4798	Apr-16															
	RA-4798	Oct-16															
	RA-4798	Apr-17															
	RA-4798	Oct-17															
	RW-12R	Apr-16		<0.00125	0.0512				0.0453	0.213 J	0.00204 J	**0.547**			<0.00740		
	RW-12R	Apr-17		0.000503 J	0.0409				0.0359	0.241	0.00193 J	**0.398**			<0.000380		
	RW-13R	Apr-16		0.00922 J	0.0165				<0.00270	0.572	<0.00120	**1.26**					
	RW-18	Apr-14		0.00496 J	0.0137				<0.00200	0.295 J	<0.00140	0.00572 J			0.0110		
	RW-18	Apr-15		0.00379	0.0105				0.000703 J	<0.0150	<0.000240	<0.000250			0.00988		
	RW-18	Apr-16		0.00400 J	0.0124 J				<0.00270	<0.0750	<0.00120	<0.00125			0.00436 J		
	RW-18	Apr-17		0.00331	0.0107				<0.000540	<0.0150	<0.000240	0.000927 J			0.00406		
	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		
North Refinery	MW-23	Apr-15		**0.0164**	0.319				<0.00270	0.560	0.00336 J	**0.212**			**0.125**		
	MW-23	Oct-15		**0.0104**	**11.0**				0.00113 J	0.0742 J	0.00578	0.0890			0.00109 J		
	MW-23	Apr-16		**0.0113**	**12.8**				<0.00270	0.456 J	**0.0186**	0.105			<0.00190		
	MW-23	Oct-16		0.00776	**12.0**				0.00711	**1.89**	**0.0334**	0.184			0.00190 J		
	MW-23	Apr-17		0.00608	**9.82**				0.000789 J	0.0552 J	0.00296	0.0653			0.00287		
	MW-23	Oct-17		0.00636	**10.5**				0.00108 J	0.0413 J	**0.0172**	0.0662			0.00939		
	MW-29	Apr-15		0.000896 J	0.0170				<0.000540	0.0678 J	<0.000240	**0.382**			<0.000380		
	MW-29	Oct-15		0.00100 J	0.0161				<0.000540	<0.0150	<0.00120	**0.369**			0.00165 J		
	MW-29	Apr-16		<0.00125	0.0182 J				<0.00270	<0.0750	<0.00120	**0.485**			0.0141		
	MW-29	Oct-16		0.00165 J	0.0156				0.000619 JB	0.0168 J	0.000465 J	**0.374**			0.000713 J		
	MW-29	Apr-17		0.000518 J	0.0156				<0.000540	0.0276 J	<0.000240	**0.436** V			<0.000380		
	MW-29	Oct-17		0.00193 J	0.0161				<0.000540	0.0193 J	<0.000240	**0.382**			0.000672 J		
	MW-39	Apr-15		0.00256 J	0.0228 J				<0.00270	<0.0750	<0.00120	**0.208**			<0.00190		
	MW-39	Oct-15		0.00156 J	0.0222				<0.000540	0.0199 J	<0.00240	0.186			0.00266		
	MW-39	Apr-16		**0.0195**	0.0209 J				0.00407 J	0.0932 J	0.00124 J	0.0161 J			0.0192		
	MW-39	Oct-16		**0.0274**	0.0145				0.00128 JB	0.0160 J	0.000867 J	0.0211			0.00146 J		
	MW-39	Apr-17		**0.0135**	0.0192				0.00275	0.101	0.00157 J	0.0113			0.00268		
	MW-39	Oct-17		**0.0148**	0.0158				0.00186 J	0.0837 J	0.000906 J	0.0169			0.00410		
	MW-40	Apr-14		0.00157 J	0.0278				<0.00100	<0.0500	<0.000700	0.0451			0.00202 J		
	MW-40	Apr-15		0.00122 J	0.0336				<0.00270	0.345 J	0.00213 J	0.0398			<0.00190		
	MW-40	Apr-16		0.00154 J	0.0392				<0.00270	0.512	0.00311 J	0.0321			<0.00190		
	MW-40	Apr-17		0.000786 J	0.0249				<0.000540	0.0151 J	0.000660 J	0.0241			**0.0704**		
	MW-41	Apr-14		0.00475 J	0.0140				<0.00100	0.0729 J	<0.000700	**0.854**			0.00163 J		
	MW-41	Apr-15		0.00591 J	0.0203 J				<0.00270	0.136 J	<0.00120	**1.01**			<0.00190		
	MW-41	Apr-16		0.00578 J	0.0210 J				<0.00270	<0.0750	<0.00120	**0.888**			<0.00190		
	MW-41	Apr-17		0.00391	0.0154				<0.000540	0.0429 J	0.000578 J	**0.737**			0.00229		
	MW-42	Apr-14		**0.0120**	0.0284				<0.00100	0.527	0.000766 J	0.189			0.00168 J		
	MW-42	Apr-15		0.00935 J	0.0242 J				<0.00270	0.136 J	<0.00120	0.171			0.00393 J		
	MW-42	Apr-16		0.00814 J	0.0274				<0.00270	0.182 J	<0.00120	0.197			<0.00190		
	MW-42	Apr-17		0.00486	0.0182				<0.000540	<0.0150	0.000252 J	0.177			0.00222		
	MW-43	Apr-15		**0.0134**	0.239				<0.00270	<0.0750	<0.00120	**0.402**	<0.000049	0.00482 J	**0.0518**		<0.000900
	MW-43	Oct-15		**0.0180**	0.108				0.00111 J	0.0583 J	0.000577 J	0.157	<0.000049	0.00465	0.000853 J		0.00386 J
	MW-43	Apr-16		**0.0106**	0.251	**1.78**	<0.000800	<0.00130	<0.00270	0.163 J	0.00151 J	**0.274**	<0.000049	0.00625 J	**0.205**	<0.00165	0.00455 J
	MW-43	Oct-16		0.00946	0.0772	**1.36**	<0.000160	<0.000260	0.00121 JB	0.0890 J	0.000510 J	0.196	<0.000049 J3	0.00666	0.0211	0.000344 J	0.00328 J
	MW-43	Apr-17		0.00987	0.100	**1.21**	<0.000160	<0.000260	<0.000540	<0.0150	<0.000240	0.175	<0.000049	0.00534	0.00413 B	<0.00033	0.00200 J
	MW-43	Oct-17		0.00616	0.130	**1.43**	<0.000160	<0.000260	0.000981 J	0.0345 J	0.000387 J	0.142	<0.000049	0.00700	0.0447	<0.00033	0.00261 J
	MW-59	Apr-14		**0.0324**	0.0144				<0.00100	0.164 J	<0.000700	**0.464**			0.00432 J		
	MW-59	Apr-15		**0.0172**	0.0163				<0.000540	0.163	0.000394 J	**0.465**			0.00573 J		
	MW-59	Apr-16		**0.0763**	0.113				<0.00270	0.976	<0.00120	**2.34**			<0.00190		
	MW-59	Apr-17		**0.0234**	0.0202				<0.000540	0.123	<0.000240	**0.440**			<0.000380		
	MW-60	Apr-15		0.00464 J	0.0177 J				<0.000540	0.0725 J	0.000305 J	**0.340**	<0.000049	<0.000350 B	<0.00190		0.000695 J
	MW-60	Apr-15	FD	0.00850 J	0.0177				<0.000540	0.0960 J	<0.000240	**0.335**		<0.000350 B	<0.000380 B		
	MW-60	Oct-15		0.00884	0.0167				<0.000540	0.286	0.000907 J	**0.332**	<0.000049 J	0.000645 J	0.0140		0.00128 J
	MW-60	Oct-15	FD	0.00880	0.0179				<0.000540	0.291	0.000328 J	**0.342**	<0.000049	0.000516 J	<0.000380		0.00115 J
	MW-60	Apr-16		**0.0111**	0.0203 J	0.438	<0.00500	<0.00130	<0.00270	0.105 J	<0.00120	**0.364**	<0.000049	<0.00175	<0.00190	0.00235 J	0.000910 J
	MW-60	Apr-16	FD	**0.0121**	0.0193 J	0.449	<0.00500	<0.00130	<0.00270	0.165 J	<0.00120	**0.377**	<0.000049	<0.00175	<0.00190	0.00254 J	0.00110 J

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

2017 Annual Groundwater Monitoring Report

HollyFrontier Navajo Refining LLC, Artesia Refinery, Artesia, New Mexico

Area	Well ID	Date	Dup	Arsenic	Barium	Boron	Cadmium	Cobalt	Chromium	Iron	Lead	Manganese	Mercury	Nickel	Selenium	Uranium	Vanadium
	Analyte Group:			Total Metals													
	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:			0.010	1.00	0.75	0.005	0.050	0.050	1.00	0.015	0.200	0.002	0.200	0.050	0.030	0.0631
	CGWSL Source:			USEPA MCL	WQCC HH	WQCC Irr	USEPA MCL	WQCC Irr	WQCC HH	WQCC Dom	USEPA MCL	WQCC Dom	USEPA MCL	WQCC Irr	USEPA MCL	WQCC HH	NMED TW
North Refinery	MW-60	Oct-16		0.00457	0.0154	0.347	<0.000160	0.000490 J	0.00133 JB	0.151 B	0.000403 J	**0.336**	<0.000049	0.00178 JB	<0.000380	0.00252 J	0.000358 J
	MW-60	Oct-16	FD	0.00478	0.0147	0.332	<0.000160	0.000589 J	0.00129 JB	0.148 B	0.000342 J	**0.339**	<0.000049	0.00135 JB	<0.000380	0.00251 J	0.000307 J
	MW-60	Apr-17		0.00595	0.0167	0.376	<0.000160	<0.000260	<0.000540	0.0568 J	<0.000240	**0.294**	<0.000049	0.000791 J	<0.000380	0.00223 J	0.000578 BJ
	MW-60	Apr-17	FD	0.00605	0.0167	0.376	<0.000160	<0.000260	<0.000540	0.0692 J	<0.000240	**0.290**	<0.000049	0.000704 J	<0.000380	0.00222 J	0.000605 BJ
	MW-60	Oct-17		0.00682	0.0185	0.567	<0.000160	0.000302 J	<0.000540	0.0449 J	0.000355 J	**0.258**	<0.000049	0.00205	0.00188 J	0.00149 J	0.000363 J
	MW-60	Oct-17	FD	0.00299	0.0186	0.613	<0.000160	<0.000260	<0.000540	0.0330 J	0.000245 J	**0.259**	<0.000049	0.00420	<0.000380	0.00144 J	0.000347 J
	MW-61	Apr-15		0.00463 J	0.0499 J				<0.00270	<0.150	<0.00240	0.00444 J			**0.168**		
	MW-61	Oct-15		0.00107 J	0.0246				0.00119 J	0.0828 J	0.00122 J	0.0416			0.00688		
	MW-61	Apr-16		<0.00125	0.0192 J				<0.00270	<0.0750	<0.00120	0.0664			0.0101		
	MW-61	Oct-16		0.000831 J	0.0223				0.00145 JB	0.0204 J	0.000914 J	0.0746			<0.000380		
	MW-61	Apr-17		0.000981 J	0.0218				0.000618 J	0.0299 J	0.000959 J	0.0352			0.00551		
	MW-61	Oct-17		0.00125 J	0.0330				0.00316	0.0342 J	0.00128 J	0.0320			**0.0519**		
	MW-62	Apr-15		**0.0136**	**9.30**				0.00149 J	0.0542 J	0.00419	0.0677			0.0187		
	MW-62	Oct-15		0.00293	0.0235				<0.000540	0.0154 J	0.000278 J	0.00266 J			0.00587		
	MW-62	Apr-16		0.00321 J	0.0390				<0.00270	<0.0750	<0.00120	<0.00125			0.00935 J		
	MW-62	Oct-16		**0.0115**	0.0252				0.000596 JB	0.0385 J	0.000715 J	0.00213 J			<0.000380		
	MW-62	Apr-17		0.00450	0.0285				<0.000540	<0.0150	0.000317 J	0.00311 J			0.00328		
	MW-62	Oct-17		0.00366	0.0312				<0.000540	0.0375 J	0.000415 J	0.000930 J			**0.0554**		
	MW-67	Apr-15		0.00371	0.140				<0.000540	0.0384 J	0.00113 J	0.0800	<0.000049	0.00198 J	0.000386 J		0.00108 J
	MW-67	Oct-15		0.00630	0.129				0.000623 J	<0.0150	0.00100 J	0.0785	<0.000049	0.000885 J	0.000445 J		0.00164 J
	MW-67	Apr-16		**0.0101**	0.229	0.471	<0.00500	<0.00130	<0.00270	<0.0750	0.00135 J	0.117	<0.000049	<0.00175	<0.00190	<0.00165	0.00139 J
	MW-67	Oct-16		**0.0103**	0.161	0.451	<0.000160	<0.000260	0.000671 JB	0.0242 J	0.00127 J	0.104	<0.000049	0.000689 J	0.000479 J	<0.00033	0.000595 J
	MW-67	Apr-17		**0.0147**	0.137	0.435	<0.000160	<0.000260	0.000612 J	0.0312 J	0.00155 J	0.0878	<0.000049	0.000780 J	0.00230	<0.00033	0.00124 BJ
	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	<0.000049	0.000648 J	<0.000380	<0.00033	0.000547 J
	MW-90	Apr-15		0.00709	0.0233				<0.000540	0.473	0.000242 J	**0.345**			0.00172 J		
	MW-90	Oct-15		0.00883	0.0126				<0.000540	**1.56**	<0.000240	0.0504			0.0334		
	MW-90	Apr-16		**0.0111**	0.0140 J				<0.00270	**1.34**	<0.00120	0.166			0.00262 J		
	MW-90	Oct-16		**0.0103**	0.00945				<0.000540	0.201	0.000244 J	0.0186			**0.0663**		
	MW-90	Apr-17		0.00894	0.0159				<0.000540	**1.53**	<0.000240	0.144			0.00359 B		
	MW-90	Oct-17		0.00392	0.0152				0.000863 J	0.223	<0.000240	0.0711			0.00150 J		
	MW-91	Apr-15		0.00509	0.0940				<0.000540	0.0957 J	0.00236	0.00502			0.0138		
	MW-91	Oct-15		0.00552	0.0824				<0.000540	0.0165 J	0.00270	0.00246 J			0.0248		
	MW-91	Apr-16		0.00660 J	0.0716				<0.00270	<0.0750	0.00376 J	0.00267 J			<0.00740		
	MW-91	Oct-16		0.00880	0.0554				<0.000540	<0.0150	0.00340	0.00304 JB			0.000630 J		
	MW-91	Apr-17		0.00780	0.0532				<0.000540	0.0336 J	0.00352	0.00138 J			0.00138 BJ		
	MW-91	Oct-17		0.00586	0.0512				0.000787 J	0.0900 J	0.00312	0.00640			0.00111 J		
	MW-92	Apr-16		0.00316 J	**3.44** O1V				<0.00270	0.328 J	<0.00120	0.0363			0.00207 J		
	MW-92	Oct-16		0.00732	**2.81**				0.00101 JB	0.0744 J	0.00183 J	0.0274			0.00172 J		
	MW-93	Apr-15		0.00687 J	0.0346				0.00442 J	**1.83**	0.00126 J	**0.227**			**0.0646**		
	MW-93	Oct-15		0.00502	0.0486				0.00365	**1.29**	0.00327	0.120			**0.0709**		
	MW-93	Apr-16		**0.0137**	0.0231 J				0.00907 J	0.858	<0.00120	0.0663			0.0242		
	MW-93	Oct-16		0.00195 JJ3J6	0.0263				0.00337 B	**1.19**	0.00112 J	**0.335**			0.0119 J3J6		
	MW-93	Apr-17		0.00456	0.0228				0.00367	0.278	0.00116 J	0.0258			0.00683		
	MW-94	Oct-15		**0.0215**	**1.57**				0.00144 J	<0.0150	<0.000240	0.00194 J			0.000935 J		
	MW-94	Apr-16		**0.0286**	0.353				<0.00270	<0.0750	<0.00120	0.00666 J			<0.00190		
	MW-94	Oct-16		**0.0115**	0.635				0.00119 JB	0.0159 J	0.000255 J	0.00631			0.000962 J		
	MW-94	Apr-17		**0.0170**	0.873				0.00141 J	0.134	0.000298 J	0.00382 J			0.00304		
	MW-95	Apr-14		<0.00100	0.126				<0.00100	0.0549 J	<0.000700	0.0419			<0.00100		
	MW-95	Apr-15		0.00133 J	0.0762				<0.000540	0.0357 J	0.000477 J	0.0247			0.000381 J		
	MW-95	Apr-16		0.00175 J	0.0736				<0.00270	<0.0750	<0.00120	0.0214 J			<0.00190		
	MW-95	Apr-17		0.00173 J	0.0612				<0.000540	<0.0150	<0.000240	0.0330			0.000407 J		
	MW-96	Apr-15		0.00421	0.126				0.000816 J	0.0338 J	0.000576 J	0.00352 J			0.000731 J		
	MW-96	Oct-15		0.00397	0.158				0.000655 J	0.132	0.000953 J	0.00236 J			0.000640 J		
	MW-96	Apr-16		0.00463 J	0.155				<0.00270	<0.0750	<0.00120	0.00174 J			0.00330 J		
	MW-96	Oct-16		0.00238	0.106				<0.000540	0.0573 J	<0.000240	0.00700			0.000695 J		
	MW-96	Apr-17		0.00314	0.124				<0.000540	<0.0150	<0.000240	0.000699 J			0.00148 BJ		
	MW-96	Oct-17		0.00241	0.0709				<0.000540	0.117	<0.000240	0.00173 J			0.000629 J		
	MW-98	Apr-15		<0.00250	0.0177 J				<0.00270	<0.0750	0.00894 J	0.0192 J			**0.108**		
	MW-98	Oct-15		0.00109 J	0.0149				0.000932 J	0.0339 J	0.00659	0.0213			0.00514		
	MW-98	Apr-16		0.00199 J	0.0204 J				<0.00270	<0.0750	0.00934 J	0.0312			<0.00190		
	MW-98	Oct-16		0.00110 J	0.0150				0.000797 JB	0.0160 J	0.00734	0.0233			0.000906 J		
	MW-98	Apr-17		0.00109 J	0.0163				<0.000540	<0.0150	0.00875	0.0261			0.00227 B		
	MW-98	Oct-17		0.00082 J	0.0159				0.000791 J	0.126	0.00929	0.0280			0.000620 J		
	MW-137	Oct-15		**0.0525**	0.127				0.00326	**1.63**	0.00596	0.120	<0.000049	0.00874	0.00218		0.00904
	MW-137	Apr-16		**0.0893**	0.0567	**0.982**	<0.00500	<0.00130	<0.00270	0.0953 J	0.00601 J	0.144	<0.000049	0.0101	0.00327 J	<0.00165	0.00840 J
	MW-137	Oct-16		**0.0345**	0.0453	**0.799**	<0.000160	<0.000260	0.000628 JB	0.0169 J	0.00436	0.120	<0.000049	0.00652	0.00368	<0.00033	0.00529
	MW-137	Apr-17		**0.0496**	0.0564	**0.752**	<0.000160	<0.000260	<0.000540	<0.0150	0.00408	0.113	<0.000049	0.00689	0.00397 B	<0.00033	0.00580
	MW-137	Oct-17		**0.0156**	0.0756	**1.03**	<0.000160	<0.000260	0.00109 J	0.260	0.00338	**0.209**	<0.000049	0.0198	0.0393	<0.00033	0.00771
	MW-138	Oct-15		0.00728	0.131				0.00218	**2.54**	0.00195 J	**0.249**	<0.000049	0.00420	0.000743 J		0.00705
	MW-138	Apr-16		0.00777 J	0.220	**1.56**	<0.00500	<0.00130	<0.00270	0.221 J	<0.00120	0.164	<0.000049	0.00598 J	<0.00190	<0.00165	0.00531 J
	MW-138	Oct-16		0.00609	0.0947	**1.01**	<0.000160	<0.000260	0.000775 JB	0.0178 J	0.000407 J	0.143	<0.000049	0.00523	0.00284	<0.00033	0.00306 J
	MW-138	Apr-17		0.00569	0.130	**1.01**	<0.000160	<0.000260	<0.000540	<0.0150	<0.000240	0.111	<0.000049	0.00546	0.00267 B	<0.00033	0.00269 J
	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	<0.000049	0.00619	0.00945	<0.00033	0.00195 J
	RW-1	Apr-15		0.00607	0.0305				0.00290	0.216	0.000495 J	0.126			0.00302 J		
	RW-1R	Apr-16		0.00695 J	0.0414				<0.00270	**17.1**	0.00149 J	**0.317**			0.00246 J		
	RW-1R	Apr-17		**0.0359**	0.0243				0.00254	**4.88**	0.00492	**0.240**			0.00573 B		
	RW-2	Apr-15		**0.0264**	0.0245 J				0.00553 J	0.381 J	0.00233 J	**0.313**			**0.0705**		
	RW-2R	Apr-16		0.00552 J	0.171				0.00750 J	**2.25**	**0.0153**	0.0705			**0.422**		
	RW-2R	Apr-17		0.00504	0.0566				0.00173 J	0.264	0.000960 J	0.0161			0.0100		
	RW-7	Apr-15		0.00239 J	0.508				<0.00270	0.0976 J	<0.00120	0.0280			<0.00190		
	RW-7R	Apr-16		**0.0154**	0.0293				<0.00270	**1.09**	<0.00120	**1.22**			<0.00190		
	RW-7R	Apr-17		0.00332	0.0198				<0.000540	0.183	<0.000240	**1.13**			<0.000380		
	RW-8	Apr-15		0.00556 J	0.0889				<0.00270	0.427 J	<0.00120	0.0556			0.00200 J		
	RW-8	Apr-17		**0.0343**	0.0593				0.00135 J	**9.50**	0.00169 J	**1.12**			<0.000380		
	RW-9	Apr-14		0.00434 J	0.0470				<0.00100	0.942	<0.000700	**0.417**			0.00250 J		
	RW-9	Apr-15		0.00392	0.0397				0.00102 J	0.257	0.000449 J	**0.460**			0.0144		
	RW-9	Apr-16		0.00476 J	0.0550				<0.00270	0.169 J	<0.00120	**0.441**			0.00735 J		
	RW-9	Apr-17		0.00338	0.0378				<0.000540	<0.0150	<0.00120	**0.784**			0.0217		
	RW-10	Apr-14		0.00174 J	0.0185				<0.00100	**5.22**	<0.000700	**0.217**			0.00143 J		
	RW-10	Apr-15		0.00171 J	0.0258				0.000561 J	0.454	<0.000240	**0.237**			0.00517		
	RW-10	Apr-16		0.00175 J	0.0372				<0.00270	**1.27**	<0.00120	**0.266**			0.0404		
	RW-10	Apr-17		0.00167 J	0.0184				<0.000540	0.0250 J	0.000433 J	0.173			<0.000380		
	RW-16	Apr-14		**0.0127**	0.0141				<0.00100	0.174 J	0.000789 J	**0.576**			0.00272 J		
	RW-16	Apr-14	FD	**0.0132**	0.0147				<0.00100	0.184 J	<0.000700	**0.596**			0.00278 J		
	RW-16	Apr-15		**0.0171**	0.0138 J				<0.00270	<0.0750	<0.00120	**0.421**			<0.00190		
	RW-16	Apr-16		**0.0115**	0.0138 J				<0.00270	<0.0750	<0.00120	**0.406**			0.0223		
	RW-16	Apr-17		**0.0129**	0.0126				0.00108 J	0.0227 J	0.00125 J	**0.263**			0.00658		
	RW-17	Apr-14		0.00888	0.0228				<0.00100	0.471	**0.0190**	**0.675**			0.00156 J		
	RW-17	Apr-15		**0.0111**	0.0274				<0.00270	0.0850 J	0.00425 J	0.121			0.0361		
	RW-17	Apr-16		**0.0522**	0.119				<0.00270	0.197 J	**0.0385**	**3.55**			**0.0714**		
	RW-17	Apr-17		**0.0113**	0.0223				0.000584 J	0.0569 J	0.0106	**0.719**			0.0106		

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

2017 Annual Groundwater Monitoring Report

HollyFrontier Navajo Refining LLC, Artesia Refinery, Artesia, New Mexico

				Analyte Group:	Total Metals													
				Analyte:	Arsenic	Barium	Boron	Cadmium	Cobalt	Chromium	Iron	Lead	Manganese	Mercury	Nickel	Selenium	Uranium	Vanadium
				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:	0.010	1.00	0.75	0.005	0.050	0.050	1.00	0.015	0.200	0.002	0.200	0.050	0.030	0.0631
				CGWSL Source:	USEPA MCL	WQCC HH	WQCC Irr	USEPA MCL	WQCC Irr	WQCC HH	WQCC Dom	USEPA MCL	WQCC Dom	USEPA MCL	WQCC Irr	USEPA MCL	WQCC HH	NMED TW
Area	Well ID	Date	Dup															
North RO Reject Field	MW-117	Apr-15		0.00249 J	0.0162 J				<0.00270	0.492 J	<0.00120	0.00809 J			0.0168		
	MW-117	Oct-15		0.00351	0.0214				0.00364	**1.42**	0.00113 J	0.0149			0.00486		
	MW-117	Apr-16		0.00266 J	0.0186 J				<0.00270	0.684	<0.00120	0.0103 J			0.00857 J		
	MW-117	Oct-16		0.00312	0.0249				0.00417 B	**1.57**	0.00137 J	0.0171			0.00403		
	MW-117	Apr-17		0.00255	0.0197				0.00209	**1.11**	0.000901 J	0.0147			0.00349 B		
	MW-117	Oct-17		0.00238	0.0177				0.00279	**1.15**	0.000777 J	0.0110			0.00982		
	MW-118	Apr-15		0.00977 J	0.0180 J				<0.00270	0.253 J	0.00175 J	0.00454 J			0.00863 J		
	MW-118	Oct-15		**0.0117**	0.0131				0.00137 J	0.155	0.000329 J	0.00223 J			0.00509		
	MW-118	Apr-16		**0.0108**	0.0139 J				<0.00270	0.426 J	<0.00120	0.00480 J			0.00645 J		
	MW-118	Oct-16		**0.0117**	0.0111				0.000649 JB	0.0658 J	<0.000240	0.000302 J			0.0156		
	MW-118	Apr-17		**0.0105**	0.00910				<0.000540	0.0337 J	<0.000240	0.000670 J			0.0222		
	MW-118	Oct-17		**0.0109**	0.00884				0.000983 J	<0.0150	<0.000240	<0.000250			0.0196		
	MW-119	Apr-15		0.00398 J	0.0156 J				<0.00270	0.309 J	<0.00120	0.0151 J			<0.00190		
	MW-119	Oct-15		0.00417	0.0105				0.000744 J	0.0886 J	<0.000240	0.00485 J			0.00189 J		
	MW-119	Apr-16		0.00315 J	0.00645 J				<0.00270	<0.0750	<0.00120	<0.00125			0.00259 J		
	MW-119	Oct-16		0.00404	0.00979				<0.000540	0.0660 J	<0.000240	0.00190 J			0.00334		
	MW-119	Apr-17		0.00376	0.00966				<0.000540	0.0438 J	<0.000240	0.00331 J			0.00442		
	MW-119	Oct-17		0.00513	0.0108				0.000757 J	0.0324 J	<0.000240	0.00324 J			0.00145 J		
NCL	MW-18	Apr-14		0.00313 J	0.0168				<0.00100	0.146 J	<0.000700	0.0203	<0.000049	0.00151 J	0.0112		0.0172
	MW-18	Apr-15		0.00321	0.0167				0.00108 J	<0.0150	<0.000240	0.00671	<0.000049	0.00120 J	0.00947		0.0147
	MW-18	Apr-16		0.00395 J	0.0207 J	**1.36**	<0.00500	<0.00130	<0.00270	<0.0750	<0.00120	0.0157 J	<0.000049	<0.00350	0.0153	**0.0480** J	0.0200 J
	MW-18	Apr-17		0.00365	0.0183	**1.71**		0.000321 J	0.00222	<0.0150	<0.000240	0.00474 JB	<0.000049	0.00120 J	0.0151	0.0250	0.0195
	MW-45	Apr-15		0.00395	0.0185				<0.000540	**1.66**	0.00527	**0.534**	<0.000049	0.00666	<0.000380		0.000411 J
	MW-45	Oct-15		0.00373	0.0216				0.000591 J	0.600	0.00667	**0.551**	<0.000049	0.00472	<0.000380		0.00118 J
	MW-45	Apr-16		0.00752 J	0.0191 J	0.671	<0.00500	<0.00130	<0.00270	**4.14**	0.00443 J	**0.633**	<0.000049	0.00631 J	<0.00190	<0.00165	0.00188 J
	MW-45	Oct-16		0.00346	0.0182	0.636	<0.000160	<0.000260	<0.000540	0.942	0.000647 J	**0.576**	<0.000049	0.00513 B	<0.000380	0.000909 J	0.000251 J
	MW-45	Apr-17		0.00404	0.0162	0.514	<0.000160	<0.000260	<0.000540	**1.29**	<0.000240	**0.582**	<0.000049	0.00558	<0.000380	0.00109 J	0.000466 J
	MW-45	Oct-17		0.00460	0.0154	0.675	<0.000160	<0.000260	<0.000540	**2.27**	0.00143 J	**0.583**	<0.000049	0.00569	<0.000380	0.000671 J	0.000377 J
	MW-53	Apr-14		0.00217 J	0.0232				<0.00100	<0.00500	<0.000700	**0.778**			0.00141 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-16		0.00193 J	0.0308				<0.00270	<0.0750	<0.00120	**1.07**			0.00617 J		
	MW-53	Apr-17		0.00166 J	0.0201				<0.000540	<0.0150	<0.000240	**1.60**			0.00281		
	MW-54A	Apr-15		0.00312	0.0173				<0.000540	0.0537 J	<0.000240	**0.450**			0.000509 J		
	MW-54A	Oct-15		0.00312	0.0192				0.000898 J	<0.0150	0.00110 J	**0.488**			0.00126 J		
	MW-54A	Apr-16		0.00343 J	0.0189 J				<0.00270	<0.0750	<0.00120	**0.512**			<0.00190		
	MW-54A	Oct-16		0.00236	0.0158				<0.000540	<0.0150	<0.000240	**0.437**			0.000709 J		
	MW-54A	Apr-17		0.00464	0.0147				<0.000540	0.227	<0.000240	**0.456**			<0.000380		
	MW-54A	Oct-17		0.00375	0.0184				<0.000540	0.0535 J	<0.000240	**0.506**			0.000562 J		
	MW-54B	Apr-13		<0.00500	0.0183				<0.00500	<0.200	<0.00500	0.145			<0.00500		
	MW-54B	Apr-15		0.00220	0.0165				<0.000540	0.0520 J	<0.000240	0.165			0.000400 J		
	MW-54B	Apr-17		0.00181 J	0.0158				<0.000540	<0.0150	<0.000240	**0.253**			0.000720 J		
	MW-55	Apr-15		0.00457	0.0110				0.00108 J	0.0483 J	<0.000240	0.139	<0.000049	0.00268	0.0190		0.0147
	MW-55	Oct-15		0.00582	0.0128				0.00104 J	<0.0150	<0.000240	0.0468	<0.000049	0.00168 J	0.00934		0.0189
	MW-55	Apr-16		0.00933 J	0.0157 J	**1.31**	0.000891 J	0.00141 J	<0.00270	0.128 J	0.00168 J	0.151	5.14E-05 J	<0.00350	0.00896 J	**0.0460** J	0.0244 J
	MW-55	Oct-16		0.00543	0.0140	**1.21**	<0.000160	0.000680 J	0.00168 J	0.0587 JB	0.000582 J	0.113	5.31E-05 J	0.00314 B	0.00746	**0.0335**	0.0170
	MW-55	Apr-17		0.00565	0.0128	**0.829**	<0.000160	0.000407 J	<0.000540	0.0222 J	<0.000240	0.0682	<0.000049	0.00552	0.00436	**0.0406**	0.0192
	MW-55	Oct-17		0.00566	0.0123	**1.52**	<0.000160	0.000827 J	0.00121 J	0.0843 J	<0.000240	0.167	<0.000049	0.00562	0.00703	**0.0466**	0.0204
	MW-56	Apr-15		0.00727	0.0143				<0.000540	0.0230 J	0.000739 J	**0.293**			0.00372		
	MW-56	Oct-15		0.00731	0.0166				<0.000540	<0.0150	0.000392 J	**0.321**			0.00491		
	MW-56	Apr-16		0.00777 J	0.0203 J				<0.00270	<0.0750	<0.00120	**0.373**			0.00381 J		
	MW-56	Oct-16		0.00721	0.0138				<0.000540	<0.0150	0.000540 J	**0.282**			0.00125 J		
	MW-56	Apr-17		0.00642	0.0157				<0.000540	<0.0150	0.000467 J	**0.320**			0.00325		
	MW-108	Apr-15		0.00462	0.0387				0.00259	0.0411 J	0.00155 J	0.0256			<0.000380		
	MW-108	Oct-15		0.00399	0.0482				0.00226	0.0288 J	0.00157 J	0.0239			0.00234		
	MW-108	Apr-16		0.00454 J	0.481				<0.00270	0.206 J	0.00209 J	0.0501			<0.00190		
	MW-108	Oct-16		**0.0102**	0.0462				0.00732	**3.13**	0.0101	0.182			0.00126 J		
	MW-108	Apr-17		0.00252	0.0366				0.00124 J	0.0538 J	0.00145 J	0.0412			<0.000380		
	MW-108	Oct-17		0.00251	0.0495				0.00210	0.441	0.00199 J	0.0395			0.00201		
	NCL-31	Apr-15		0.00847	0.0224				0.000989 J	0.834	0.000803 J	**1.70**			<0.000380		
	NCL-31	Oct-15		0.00655	0.0334				0.00175 J	**1.49**	0.00140 J	**2.28**			<0.000380		
	NCL-31	Apr-16		0.00495 J	0.0241 J				<0.00270	0.838	<0.00120	**1.85**			<0.00190		
	NCL-31	Oct-16		**0.0428**	0.0220				0.000711 JB	**1.04**	0.000493 J	**2.48**			<0.000380		
	NCL-31	Apr-17		0.00975	0.0152				<0.000540	0.446	0.000330 J	**2.19**			0.000525 J		
	NCL-31	Oct-17		**0.0122**	0.0140				<0.000540	0.978	<0.000240	**2.26**			<0.000380		
	NCL-32	Apr-15		0.00446 J	0.0556				0.00960 J	**1.39**	**0.0167**	**0.968**			<0.00190		
	NCL-32	Oct-15		0.00653	0.129				0.0280	**4.57**	**0.0289**	**1.34**			0.000884 J		
	NCL-32	Apr-16		**0.0108**	0.227				**0.0660**	**9.75**	**0.0681**	**1.77**			<0.00190		
	NCL-32	Oct-16		0.00428	0.0254				0.00312	0.407 B	0.00296	**1.06**			0.00138 J		
	NCL-32	Apr-17		0.00358	0.0195				0.00114 J	0.116	0.00127 J	**0.988**			0.00124 J		
	NCL-32	Oct-17		0.00304	0.0166				<0.000540	0.0488 J	0.000454 J	**1.11**			0.00207		
	NCL-33	Apr-15		0.00407 J	0.0247 J				<0.00270	**2.26**	0.00569 J	0.108			<0.00190		
	NCL-33	Oct-15		0.00385	0.0274				<0.000540	**2.49**	0.000259 J	0.117			0.000519 J		
	NCL-33	Apr-16		0.00444 J	0.0246 J				<0.00270	0.770	<0.00120	0.188			<0.00190		
	NCL-33	Oct-16		0.00593	0.0224				0.00187 J	**1.93**	0.000459 J	0.128			0.00217		
	NCL-33	Apr-17		0.00302	0.0194				<0.000540	**1.12**	0.000288 J	0.135			0.000546 J		
	NCL-33	Oct-17		0.00325	0.0201				0.000552 J	**1.67**	<0.000240	0.138			0.000672 J		
	NCL-34A	Apr-15		<0.00120	0.547				<0.00270	<0.0750	0.00183 J	0.0369			<0.00190		
	NCL-34A	Oct-15		0.00218 J	0.382				<0.00270	<0.0750	0.00136 J	0.0420			0.00641 J		
	NCL-34A	Apr-16		0.00184 J	0.854				<0.00270	<0.0750	<0.00120	0.0185 J			<0.00190		
	NCL-34A	Oct-16		0.000745 J	0.370				<0.000540	<0.0150	<0.000240	0.0279			0.0142		
	NCL-34A	Apr-17		0.000829 J	0.458				<0.000540	<0.0150	<0.000240	0.0146			<0.000380		
	NCL-34A	Oct-17		0.000562 J	0.338				0.00104 J	0.0445 J	0.00105 J	0.0224			<0.000380		
	NCL-44	Apr-15		**0.0617**	0.0311				<0.00270	**1.47**	0.00123 J	**0.703**			<0.00190		
	NCL-44	Oct-15		**0.0700**	0.0306				0.00105 J	**2.09**	0.000414 J	**0.723**			<0.000380		
	NCL-44	Apr-16		**0.0459**	0.0371				<0.00270	**1.82**	<0.00120	**1.11**			<0.00190		
	NCL-44	Oct-16		**0.0490**	0.0276				0.00165 JB	**1.78**	0.000521 J	**0.896**			0.000394 J		
	NCL-44	Apr-17		**0.0348**	0.0269				0.00235	0.953	0.00102 J	**0.860**			<0.000380		
	NCL-44	Oct-17		**0.0479**	0.0252				0.00122 J	**1.61**	0.000413 J	**0.896**			0.000416 J		
	NCL-49	Apr-15		0.00151 J	0.0109				<0.000540	0.0232 J	0.000252 J	0.00215 J			0.00279		
	NCL-49	Apr-15	FD	0.00145 J	0.0106				<0.000540	<0.0150	<0.000240	0.00146 J			0.00281		
	NCL-49	Oct-15		0.00218	0.0118				<0.000540	<0.0150	<0.000240	0.000528 J			0.00363		
	NCL-49	Oct-15	FD	0.00208	0.0116				<0.000540	<0.0150	<0.000240	0.000279 J			0.00365		
	NCL-49	Apr-16		0.00188 J	0.0150 J				<0.00270	<0.0750	<0.00120	<0.00125			0.00518 J		
	NCL-49	Apr-16	FD	0.00178 J	0.0134 J				<0.00270	<0.0750	<0.00120	<0.00125			0.00483 J		
	NCL-49	Oct-16		0.00156 J	0.0116				<0.000540	<0.0150	<0.000240	0.000460 JB			0.00551		
	NCL-49	Oct-16	FD	0.00137 J	0.0117				<0.000540	<0.0150	<0.000240	0.000493 JB			0.00549		
	NCL-49	Apr-17		0.00151 J	0.0118				<0.000540	<0.0150	<0.000240	0.000320 J			0.00871		
	NCL-49	Apr-17	FD	0.00149 J	0.0115				<0.000540	<0.0150	<0.000240	0.000263 J			0.00924		
	NCL-49	Oct-17		0.00142 J	0.0113				0.000635 J	0.0590 J	<0.000240	<0.000250			0.0111		
	NCL-49	Oct-17	FD	0.00163 J	0.0121				0.000649 J	0.0255 J	<0.000240	<0.000250			0.0110		

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

2017 Annual Groundwater Monitoring Report

HollyFrontier Navajo Refining LLC, Artesia Refinery, Artesia, New Mexico

				Analyte Group:	Total Metals													
				Analyte:	Arsenic	Barium	Boron	Cadmium	Cobalt	Chromium	Iron	Lead	Manganese	Mercury	Nickel	Selenium	Uranium	Vanadium
				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:	0.010	1.00	0.75	0.005	0.050	0.050	1.00	0.015	0.200	0.002	0.200	0.050	0.030	0.0631
				CGWSL Source:	USEPA MCL	WQCC HH	WQCC Irr	USEPA MCL	WQCC Irr	WQCC HH	WQCC Dom	USEPA MCL	WQCC Dom	USEPA MCL	WQCC Irr	USEPA MCL	WQCC HH	NMED TW
Area	Well ID	Date	Dup															
South Refinery	KWB-2R	Apr-15		0.00281	0.274				0.000702 J	0.329	0.00468	**0.356**			<0.000380		
	KWB-2R	Oct-15		0.00390	0.259				0.000641 J	0.0295 J	0.00195 J	0.0529			<0.000380		
	KWB-2R	Apr-16		0.00401 J	0.0326				<0.00270	0.883	<0.00120	**0.898**			0.00551 J		
	KWB-2R	Oct-16		0.00325	0.0343				0.00113 JB	0.465	0.000548 J	**0.609**			<0.000380		
	KWB-2R	Apr-17		0.00152 J	0.0271				<0.000540	0.0346 J	0.000273 J	**0.564**			<0.000380		
	KWB-2R	Oct-17		0.00258	0.324				<0.000540	0.0522 J	0.00130 J	0.0596			<0.000380		
	KWB-5	Apr-15		**0.0225**	**3.42**				<0.000540	**3.39**	0.000632 J	**1.57**			<0.000380		
	KWB-5	Oct-15		**0.0209**	**3.65**				<0.000540	**3.22**	0.000340 J	**1.59**			<0.000380		
	KWB-5	Apr-16		**0.0252**	**3.63**				<0.00270	**4.28**	<0.00120	**1.82**			<0.00190		
	KWB-5	Oct-16		**0.0212**	**3.82**				<0.000540	**3.13**	<0.000240	**1.60**			<0.000380		
	KWB-5	Apr-17		**0.0219**	**3.49**				<0.000540	**4.43**	<0.000240	**1.81**			0.000511 BJ		
	KWB-5	Oct-17		**0.0202**	**5.06**				<0.000540	**2.11**	0.000287 J	**1.64**			<0.000380		
	KWB-6	Apr-15		0.00621	0.294				<0.000540	0.870	0.00182 J	**2.16**			<0.000380		
	KWB-6	Oct-15		**0.0124**	0.136				<0.000540	0.558	0.00137 J	**2.04**	<0.000049	0.00186 J	<0.000380		0.00239 J
	KWB-6	Apr-16		0.00703 J	0.327				<0.00270	0.546	0.00143 J	**2.55**			<0.00190		
	KWB-6	Oct-16		0.00915	0.0891				0.000950 JB	0.303	0.00103 J	**1.87**			<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		
	MW-28	Apr-15		0.00912 J	0.0772				0.000931 J	0.0712 J	0.0110	0.0685	<0.000049	0.00489	0.0204 J		0.00634
	MW-28	Oct-15		0.00936	0.0484				0.000931 J	0.0744 J	0.0136	0.0261	<0.000049	0.00360	0.0205		0.00557
	MW-28	Apr-16		**0.0610**	0.331	**1.23**	<0.00500	<0.00130	0.00274 J	0.342 J	**0.0520**	0.164	<0.000049	0.0226	0.00220 J	<0.00165	0.0158 J
	MW-28	Oct-16		**0.0154**	0.0424	**1.27**	<0.000160	0.000289 J	0.00213 B	0.0951 JB	**0.0168**	0.0375	<0.000049	0.00387 B	0.000605 J	<0.00033	0.00701
	MW-28	Apr-17		0.00674	0.0462	**1.21**	<0.000160	<0.000260	0.000618 J	0.0779 J	0.0130	0.0624	<0.000049	0.0484	0.0491	0.000382 J	0.00329 J
	MW-28	Oct-17		0.00777	0.0492	**1.39**	<0.000160	<0.000260	0.00947	0.0870 J	0.00855	0.0417	<0.000049	0.00719	<0.000380	<0.00033	0.00227 J
	MW-48	Apr-15		0.00400	0.0204 J				<0.000540	0.562	0.000320 J	0.0948 J			<0.000380 B		
	MW-48	Oct-15		**0.0108**	0.367				0.000690 J	0.131	0.00215	**1.24**			0.00487		
	MW-48	Apr-16		**0.0125**	**2.77**				<0.00270	0.177 J	0.00371 J	**0.390**			<0.00190		
	MW-48	Oct-16		**0.0107**	**1.18**				0.00119 JB	0.166	0.00173 J	**0.565**			0.000520 J		
	MW-48	Apr-17		0.00786	**2.54**				<0.000540	0.0884 J	0.00150 J	**0.210**			0.000838 BJ		
	MW-48	Oct-17		0.00558	**1.81**				0.000835 J	0.141	0.00166 J	**0.286**			**0.0669**		
	MW-50	Apr-15		0.00138 J	0.0226				<0.000540	0.471	0.00102 J	**1.53**			<0.000380		
	MW-50	Oct-15		0.00166 J	0.0219				<0.000540	0.0271 J	0.000889 J	**1.37**			0.000495 J		
	MW-50	Apr-16		0.00234 J	0.0141 JB				<0.00270	0.0916 J	<0.00120	**0.214**			**0.0994**		
	MW-50	Oct-16		0.00434	0.0207				<0.000540	0.160	0.000413 J	**0.295**			**0.0704**		
	MW-50	Apr-17		0.00210	0.0137				<0.000540	0.0253 J	<0.000240	**0.433**			0.0485		
	MW-50	Oct-17		0.00250	0.0142				<0.000540	0.0340 J	<0.000240	**0.494**			0.0436		
	MW-52	Apr-15		0.00318	0.00980				<0.000540	0.0256 J	<0.000240	0.0478	<0.000049	0.00625	<0.000380 B		0.0253
	MW-52	Oct-15		0.00429	0.0129				0.000582 J	0.0180 J	<0.000240	0.0446	<0.000049	0.00684	0.00187 J		0.0262
	MW-52	Apr-16		**0.0193**	0.0436	0.736	<0.00500	0.00155 J	<0.00270	0.158 J	<0.00120	**0.230**	<0.000049	0.0263	0.00545 J	**0.0438** J	**0.123**
	MW-52	Oct-16		0.00343	0.0104	0.718	<0.000160	0.000423 J	0.000547 JB	<0.0150	<0.000240	0.0484	<0.000049 J3	0.00810	0.00179 J	0.0105	0.0243
	MW-52	Apr-17		0.00368	0.0101	0.702	<0.000160	0.000503 J	<0.000540	0.0447 J	<0.000240	0.0659	<0.000049	0.00798	0.00178 J	0.00976 J	0.0269
	MW-52	Oct-17		0.00363	0.0113	**0.852**	<0.000160	0.000429 J	<0.000540	0.0245 J	<0.000240	0.0774	<0.000049	0.00817	0.00607	0.0124	0.0246
	MW-64	Apr-16		**0.0333**	**2.26**				<0.00270	<0.0750	0.00187 J	0.0599			<0.00190		
	MW-64	Oct-16		**0.0302**	**2.41**				0.000897 JB	0.0566 JB	0.00105 J	0.0480			0.000493 J		
	MW-64	Apr-17		**0.0346**	**2.00**				<0.000540	0.151	0.000997 J	0.0515			0.000642 J		
	MW-64	Oct-17		**0.0317**	**2.10**				<0.000540	0.139	0.00101 J	0.0571			0.000523 J		
	MW-65	Apr-15		**0.0186**	**3.08**				<0.000540	**2.88**	0.00153 J	**0.790**			<0.000380		
	MW-65	Apr-16		**0.0142**	**3.42** V				<0.00270	**2.09**	0.00124 J	**0.748** V			<0.00190		
	MW-65	Oct-16		**0.0120**	**2.97**				0.00121 JB	**1.66**	0.00103 J	**0.605**			<0.000380		
	MW-65	Apr-17		**0.0108**	**3.01**				<0.000540	**1.58**	0.000874 J	**0.593**			<0.000380		
	MW-65	Oct-17		**0.0113**	**3.03**				<0.000540	**2.16**	0.00128 J	**0.568**			<0.000380		
	MW-66	Apr-15		0.00298	**2.35**				<0.000540	0.635	0.000902 J	0.189	<0.000049	0.00613	<0.000380		0.000941 J
	MW-66	Oct-15		0.00370	**2.00**				<0.000540	0.792	0.000430 J	**0.220**	<0.000049	0.00743	<0.000380		0.00175 J
	MW-66	Apr-16		**0.0148**	**12.7**	0.378	<0.00500	<0.00130	0.00289 J	**4.74**	0.00659 J	**1.13**	<0.000049	0.121	<0.00190	<0.00165	0.00670 J
	MW-66	Oct-16		0.00269	**1.88**	0.283	<0.000160	<0.000260	0.000733 JB	0.717	0.000342 J	**0.216**	<0.000049 J3	0.00497	<0.000380	<0.00033	0.000342 J
	MW-66	Apr-17		0.00255	**2.22**	0.263	<0.000160	<0.000260	<0.000540	0.773	0.000592 J	0.193	<0.000049	0.00829	0.0134	<0.00033	0.000535 BJ
	MW-66	Oct-17		0.00282	**1.81**	0.314	<0.000160	<0.000260	0.00128 J	**1.02**	0.00453	**0.288**	<0.000049	0.00602	<0.000380	<0.00033	0.00169 J
	MW-99	Apr-15		0.00289	0.159				0.000639 J	0.457	0.00571	0.0802			0.000808 J		
	MW-99	Oct-15		0.00812	0.279				0.000832 J	0.382	0.00153 J	0.191			<0.000380		
	MW-99	Apr-16		**0.0491**	**5.05**				0.00682 J	**4.55**	**0.0193**	**1.20**			<0.00190		
	MW-99	Oct-16		0.00635	**1.14**				0.00128 JB	0.208	0.00150 J	**0.354**			<0.000380		
	MW-99	Apr-17		0.00772	0.297				<0.000540	0.204	0.00116 J	**0.243**			**0.0857**		
	MW-99	Oct-17		0.00865	0.221				<0.000540	0.0585 J	0.000379 J	**0.232**			<0.000380		
	MW-101	Apr-15		**0.0939**	0.0501				0.000581 J	**3.58**	<0.000240	**1.08**			<0.000380		
	MW-101	Oct-15		**0.0560**	0.0382				<0.000540	**2.59**	<0.00240	**1.13**			0.00344 J		
	MW-101	Apr-16		**0.0293**	0.0898				<0.00270	**1.38**	<0.00120	**1.34**			<0.00190		
	MW-101	Oct-16		**0.0783**	0.0366				0.00145 JB	**2.56**	0.000266 J	**1.06**			<0.000380		
	MW-101	Apr-17		**0.0659**	0.0732				<0.000540	**1.18**	<0.000240	**1.18**			<0.000380		
	MW-101	Oct-17		**0.0824**	0.0472				0.0137	**2.99**	0.000670 J	**1.21**			0.00139 J		
	MW-102	Apr-15		0.0100	**6.21**				<0.000540	0.138	0.00344	0.0431			<0.000380		
	MW-102	Oct-15		**0.0123**	0.423				0.00106 J	0.0723 J	0.00263	0.0273			0.000393 J		
	MW-102	Apr-16		**0.0117**	**7.71**				<0.00270	0.222 J	0.00339 J	0.0308			<0.00190		
	MW-102	Oct-16		**0.0132**	0.427				0.00200 B	0.0940 JB	0.00223	0.0214			<0.000380		
	MW-102	Apr-17		**0.0123**	**5.06**				<0.000540	0.201	0.00242	0.0231			0.000673 BJ		
	MW-102	Oct-17		**0.0135**	**5.52**				0.00110 J	**1.12**	0.00254	0.0176			0.000450 J		
	MW-103	Apr-14		0.00270 J	**1.47**				<0.00100 B	<0.0500	<0.000700 B	0.00278 J			<0.00100		
	MW-103	Apr-15		0.00617 J	**9.36**				<0.0110	<0.300	<0.00480	0.0125 J			**0.0607** J		
	MW-103	Apr-16		0.00594 J	**26.8**				<0.00270	<0.0750	0.00148 J	0.0262			<0.00190		
	MW-103	Apr-17		0.00848 J	**8.12**				<0.0108	<0.300	<0.00480	0.00689 J			<0.00760		
	MW-104	Apr-15		0.00041 J	0.0195				<0.000540	0.0945 J	0.000364 J	0.0228			<0.000380		
	MW-104	Apr-15	FD	0.00040 J	0.0196				<0.000540	0.0490 J	<0.000240	0.0217			<0.000380		
	MW-104	Oct-15		0.00150 J	0.0229				0.000591 J	0.0385 J	<0.000240	0.0148			<0.000380		
	MW-104	Oct-15	FD	0.00149 J	0.0218				<0.000540	<0.0150	<0.000240	0.0142			<0.000380		
	MW-104	Apr-16		0.00165 J	0.0343 O1				<0.00270	<0.0750	<0.00120	0.0113 J			<0.00190 J3J6		
	MW-104	Apr-16	FD	0.00195 J	0.0319				<0.00270	<0.0750	<0.00120	0.00995 J			<0.00190		
	MW-104	Oct-16		**0.0164**	0.0293				0.00128 JB	0.0150 JB	<0.000240	0.00278 J			<0.000380		
	MW-104	Oct-16	FD	**0.0194**	0.0290				0.00132 JB	0.0190 JB	<0.000240	0.00277 J			<0.000380		
	MW-104	Apr-17		**0.0551**	0.0438				<0.000540	0.0283 J	<0.000240	0.00109 J			<0.000380		
	MW-104	Apr-17	FD	**0.0570**	0.0451 O1				<0.000540	<0.0150	<0.000240	0.00134 J			0.00166 BJ		
	MW-104	Oct-17		**0.0584**	0.0430				<0.000540	0.0218 J	<0.000240	0.00326 J			<0.000380		
	MW-104	Oct-17	FD	**0.0602**	0.0446				0.000624 J	0.0247 J	<0.000240	0.00416 J			<0.000380		
	MW-105	Apr-15		0.00662	0.108				0.00184 J	**2.55**	0.00279	0.105			<0.000380		
	MW-105	Oct-15		0.00849	0.214				0.00221	**1.07**	0.00562	0.0917			0.0108 J		
	MW-105	Apr-16		**0.0197**	**1.31**				<0.00270	0.286 J	0.00176 J	0.195			0.00947 J		
	MW-105	Oct-16		**0.0121**	**1.15**				0.00154 JB	0.265	0.00118 J	0.117			<0.000380		
	MW-105	Apr-17		**0.0123**	**2.63**				0.00150 J	0.151	0.00143 J	0.0622			0.0357		
	MW-105	Oct-17		**0.0237**	**1.23**				0.00900	0.492	0.00112 J	0.0657			0.000624 J		
	MW-106	Apr-15		0.00491	0.0890				0.00283	**1.16**	**0.0296**	0.147			0.00957		
	MW-106	Oct-15		0.00726	0.0451				0.00385	0.650	0.00907	0.0119			0.00522		
	MW-106	Apr-16		**0.0150**	0.0379				<0.00270	<0.0750	0.00274 J	0.0113 J			<0.00190		
	MW-106	Oct-16		**0.0152**	0.0232				0.00143 JB	0.0422 JB	0.00305 B	0.00515 B			0.000476 J		
	MW-106	Apr-17		**0.0114**	0.0259				<0.000540	<0.0150	0.00133 J	0.00658			0.00216 B		
	MW-106	Oct-17		**0.0105**	0.0263				0.0111	0.119	0.00271	0.00542			0.00731		

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

2017 Annual Groundwater Monitoring Report

HollyFrontier Navajo Refining LLC, Artesia Refinery, Artesia, New Mexico

				Analyte Group:	Total Metals													
				Analyte:	Arsenic	Barium	Boron	Cadmium	Cobalt	Chromium	Iron	Lead	Manganese	Mercury	Nickel	Selenium	Uranium	Vanadium
				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:	0.010	1.00	0.75	0.005	0.050	0.050	1.00	0.015	0.200	0.002	0.200	0.050	0.030	0.0631
				CGWSL Source:	USEPA MCL	WQCC HH	WQCC Irr	USEPA MCL	WQCC Irr	WQCC HH	WQCC Dom	USEPA MCL	WQCC Dom	USEPA MCL	WQCC Irr	USEPA MCL	WQCC HH	NMED TW
Area	**Well ID**	**Date**	**Dup**															
South Refinery	MW-107	Apr-15		**0.0107**	**1.75**				<0.000540	0.787	0.000331 J	0.158			<0.000380 B		
	MW-107	Oct-15		0.00883	**1.55**				0.000625 J	0.368	0.000259 J	0.178			<0.000380		
	MW-107	Apr-16		0.0100	**10.2**				0.00340 J	**1.78**	0.00200 J	**0.454**			<0.00190		
	MW-107	Oct-16		0.00388	**1.30**				0.000930 JB	0.158	0.000595 J	0.0896			<0.000380		
	MW-107	Apr-17		0.00143 J	**1.99**				<0.000540	**5.17**	0.000437 J	0.105			0.0145		
	MW-109	Apr-15		0.00554	0.101				<0.000540	0.154	<0.000240	0.140 J			<0.000380 B		
	MW-109	Oct-15		0.00134 J	0.112				0.000783 J	0.102	0.000334 J	0.127			0.00328		
	MW-109	Apr-16		**0.0331**	0.299				<0.00270	0.677	0.00147 J	**0.624**			<0.00190		
	MW-109	Oct-16		0.00269	0.0617				<0.000540	0.0900 J	<0.000240	0.0821			<0.000380		
	MW-109	Apr-17		0.00176 J	0.0479				<0.000540	0.0422 J	<0.000240	0.0425			<0.000380		
	MW-109	Oct-17		0.00146 J	0.0605				0.000611 J	0.0514 J	<0.000240	0.0413			0.000784 J		
	MW-110	Apr-15		0.00924	0.0617				0.000649 J	0.379	0.000690 J	**0.612**			<0.000380 B		
	MW-110	Oct-15		**0.0130**	0.0765				0.000557 J	0.321	0.000523 J	**0.882**			<0.000380		
	MW-110	Apr-16		**0.0854**	0.300				0.00399 J	**2.77**	0.00565 J	**6.26**			<0.00190		
	MW-110	Oct-16		**0.0344**	0.0480				<0.000540	0.730	0.000412 J	**1.67**			<0.000380		
	MW-110	Apr-17		0.00529	0.0571				<0.000540	0.229	<0.000240	**0.510**			<0.000380		
	MW-110	Oct-17		**0.0384**	0.0483				<0.000540	0.913	<0.000240	**1.78**			<0.000380		
	RA-313	Apr-14															
	RA-313	Apr-15															
	RA-313	Apr-16															
	RA-313	Apr-17															
	RW-4	Apr-15		0.00183 J	0.0521				<0.000540	0.0744 J	0.000665 J	0.104			<0.000380		
	RW-4R	Apr-16		0.00440 J	0.0623				<0.00270	0.181 J	<0.00120	0.0728			<0.00190		
	RW-4R	Apr-17		0.00340	0.0732				<0.000540	0.192	0.000419 J	0.0261			<0.000380		
	RW-5R	Apr-15		0.00136 J	0.0259				<0.000540	0.0952 J	0.000336 J	0.0177			<0.000380		
	RW-5R	Apr-16		0.00183 J	0.0282				<0.00270	<0.0750	<0.00120	0.0191 J			<0.00190		
	RW-6	Apr-15		**0.0332**	**1.66**				<0.000540	**13.8**	0.000574 J	**0.280**			<0.000380		
	RW-6R	Apr-16		**0.0712**	0.480				<0.00270	**3.70**	<0.00120	**0.553**			<0.00190		
	RW-15C	Apr-17		**0.0274**	0.885				<0.000540	0.316	0.0116	**0.358**			0.000461 BJ		
South RO Reject Field	MW-114	Apr-15		0.00279	0.0165				0.000896 J	0.361	0.000317 J	**0.927**			<0.000380 B		
	MW-114	Oct-15		0.00355	0.0134				<0.000540	0.0486 J	<0.000240	**0.905**			0.000757 J		
	MW-114	Apr-16		0.00344 J	0.0155 J				<0.00270	<0.0750	<0.00120	**1.15**			<0.00190		
	MW-114	Oct-16		0.00327	0.0119				0.00115 JB	<0.0150	0.000617 J	**0.899**			0.00839		
	MW-114	Apr-17		0.00262	0.0138				<0.000540	<0.0150	<0.000240	**0.944**			0.00129 J		
	MW-114	Oct-17		0.00262	0.0129				<0.000540	0.0208 J	<0.000240	**0.873**			0.0179		
	MW-115	Apr-15		0.00697 J	0.0118				<0.000540	0.0684 J	<0.000240	0.120			<0.000380 B		
	MW-115	Oct-15		0.00761	0.0119				0.000763 J	0.0367 J	<0.000240	0.124			0.000590 J		
	MW-115	Apr-16		**0.0230**	0.0415				<0.00270	0.134 J	0.00135 J	**0.308**			0.00217 J		
	MW-115	Oct-16		0.00838	0.00908				0.000944 JB	0.116 B	0.000381 J	0.146			<0.000380		
	MW-115	Apr-17		0.00336	0.00809				<0.000540	0.0381 J	<0.000240	0.0455			<0.000380		
	MW-115	Oct-17		0.00342	0.00796				<0.000540	0.0264 J	<0.000240	0.0553			0.000723 J		
	MW-116	Apr-15		0.00521	0.00931				<0.000540	<0.0150	<0.000240	0.00454 J			<0.000380 B		
	MW-116	Oct-15		0.00825	0.0434				0.00542	**2.45**	0.00183 J	0.0815			0.000668 J		
	MW-116	Apr-16		0.00422 J	0.0231 J				<0.00270	0.800	<0.00120	0.0396			<0.00190		
	MW-116	Oct-16		0.00720	0.0118				0.000922 JB	0.119	0.000397 J	0.0506			0.000738 J		
	MW-116	Apr-17		0.00357	0.0121				0.000560 J	0.224	0.000542 J	0.0545			0.00488		
	MW-116	Oct-17		0.00521	0.0178				0.00151 J	0.598	0.000647 J	0.0402			0.00741		
TEL	MW-49	Apr-15		0.00433	0.0514				0.00147 J	0.530	0.00133 J	**0.269**	<0.000049	0.00842	<0.000380		0.00195 J
	MW-49	Oct-15		<0.00025 B	0.0429				<0.000540	0.0195 J	0.000453 J	**0.209**	<0.000049	0.00740	0.0117		0.00145 J
	MW-49	Apr-16		0.00489 J	0.0439	0.695	<0.00500	<0.00130	<0.00270	0.0770 J	<0.00120	**0.269**	<0.000049	0.00686 J	<0.00190	<0.00165	0.00245 J
	MW-49	Oct-16		0.00505	0.0449	0.642	<0.000160	<0.000260	0.000766 JB	0.127	0.000423 J	**0.223**	<0.000049 J6	0.00867	<0.000380	<0.00033	0.000357 J
	MW-49	Apr-17		0.00426	0.0461	0.733	<0.000160	<0.000260	<0.000540	0.100	0.000499 J	**0.250**	<0.000049	0.00809	<0.000380	<0.00033	0.000515 J
	MW-49	Oct-17		0.00467	0.0480	0.747	<0.000160	<0.000260	0.000609 J	0.128	0.000563 J	0.146	<0.000049	0.0152	<0.000380	<0.00033	0.000321 J
	TEL-1	Apr-15		0.00537	0.0119				0.00501	0.0741 J	<0.000240	0.0523			<0.000380		
	TEL-1	Oct-15		<0.00025 B	<0.000360 B				0.00318	0.0506 J	<0.000240	0.103			0.00798 J		
	TEL-1	Apr-16		0.00407 J	0.0126 J				0.0269	0.104 J	<0.00120	0.199			<0.00190		
	TEL-1	Oct-16		0.00256	0.00987				0.00911 B	0.0829 J	0.000300 J	**0.216**			<0.000380		
	TEL-1	Apr-17		0.00520	0.0116				0.0260	0.382	<0.000240	0.117			<0.000380		
	TEL-1	Oct-17		**0.0139**	0.0121				0.0196	0.258	0.000341 J	0.0700			<0.000380		
	TEL-2	Apr-15		**0.0132**	0.185				0.00134 J	0.0326 J	0.00276	0.0101			0.000383 J		
	TEL-2	Oct-15		**0.0118**	0.153				0.00178 J	0.0291 J	0.00242	0.00753			0.00679		
	TEL-2	Apr-16		**0.0101**	0.127				0.00303 J	<0.0750	0.00131 J	0.0212 J			<0.00190		
	TEL-2	Oct-16		**0.0147**	0.0773				0.00209 B	0.0279 J	0.00145 J	0.0144			0.000618 J		
	TEL-2	Apr-17		**0.0123**	0.162				0.00307	0.0749 J	0.00143 J	0.0149			0.000558 J		
	TEL-2	Oct-17		**0.0140**	0.0942				0.00457	0.0896 J	0.00111 J	0.0166			0.000473 J		
	TEL-3	Apr-15		0.00354	0.0145				0.00466	0.0738 J	0.000599 J	0.00827			<0.000380		
	TEL-3	Oct-15		<0.00025 B	<0.000360 B				0.00613	0.0417 J	0.000435 J	0.0139			0.00966		
	TEL-3	Apr-16		0.00876 J	0.0208 J				0.0269	0.171 J	<0.00120	0.00661 J			<0.00190		
	TEL-3	Oct-16		0.00126 J	0.0156				**0.138**	0.456	0.000368 J	0.0133			<0.000380		
	TEL-3	Apr-17		0.00204	0.0161				**0.156**	0.473	0.000250 J	0.0121			<0.000380		
	TEL-4	Apr-15		0.00613	0.0244				**0.419**	**1.57**	0.00227	**0.872**			<0.000380		
	TEL-4	Apr-15	FD	0.00598	0.0233				**0.599**	**2.41**	0.00262	**0.860**			0.000420 J		
	TEL-4	Oct-15		**0.0106**	0.0338				**0.315**	0.107	0.00255	**0.406**			0.0201		
	TEL-4	Oct-15	FD	0.00929	0.0326				**0.281**	0.107	0.00206	**0.412**			0.0135		
	TEL-4	Apr-16		0.00710 J	0.0247 J				**0.282**	0.331 J	0.00330 J	**0.751**			<0.00190		
	TEL-4	Apr-16	FD	0.00736 J	0.0245 J				**0.306**	0.628	0.00316 J	**0.750**			<0.00190		
	TEL-4	Oct-16		0.00784	0.0190				**0.688**	**1.93**	0.00263	**0.508**			0.000883 J		
	TEL-4	Oct-16	FD	0.00700	0.0199				**0.389**	**1.07**	0.00241	**0.501**			<0.000380		
	TEL-4	Apr-17		0.00723	0.0185				**0.790**	**1.45**	0.00173 J	**0.973**			0.000535 J		
	TEL-4	Apr-17	FD	0.00707	0.0180				**0.443**	0.105	0.00110 J	**0.963**			<0.000380		
	TEL-4	Oct-17		0.00750	0.0178				**0.236**	0.952	0.00118 J	**1.05**			0.000561 J		
	TEL-4	Oct-17	FD	0.00731	0.0172				**0.273**	**1.03**	0.00125 J	**1.04**			0.000454 J		
TMD	MW-8	Apr-14		0.00884 J	0.0114				0.0212	<0.100	<0.00140	**0.557**			0.0237		
	MW-8	Apr-15		**0.0108**	0.0107				**0.234**	0.779	0.000470 J	**0.507**			0.0188		
	MW-8	Apr-16		0.00885 J	0.0117 J				**0.107**	0.397 J	<0.00120	**0.538**			0.00622 J		
	MW-8	Apr-17		0.00678	0.0102				0.0259	0.111	<0.000240	**0.467**			0.00647		
	MW-16	Apr-14		0.00470 J	0.0151				<0.00200	<0.100	<0.00140	**0.244**			0.00322 J		
	MW-16	Apr-15		0.00500 J	0.0174 J				<0.00270	<0.0750	<0.00120	0.0950 J			0.00213 J		
	MW-16	Apr-17		0.00498	0.0127				<0.000540	<0.0150	<0.000240	0.00510			0.0106		
	MW-20	Apr-14		0.00750 J	0.00905 J				<0.00200	<0.100	<0.00140	0.0906			0.0179		
	MW-20	Apr-14	FD	0.00865 J	0.0103				<0.00200	<0.100	<0.00140	0.0800			0.0170		
	MW-20	Apr-15		0.00621	0.0104				<0.000540	0.0746 J	<0.000240	0.00743			0.0289		
	MW-20	Apr-16		0.00628 J	0.0113 J				<0.00270	<0.0750	<0.00120	0.00814 J			0.0305		
	MW-20	Apr-17		0.00575	0.00980				<0.000540	<0.0150	<0.000240	0.00756			0.0188		
	MW-21	Apr-15		0.00656 J	0.0100 J				<0.00270	<0.0750	<0.00120	**0.323** J			0.0258		
	MW-21	Oct-15		0.00635	0.00939				<0.000540	<0.0150	<0.000240	**0.658**			0.0290		
	MW-21	Apr-16		0.00607 J	0.0100 J				<0.00270	<0.0750	<0.00120	**0.354**			0.0327		
	MW-21	Oct-16		0.00613	0.00790				<0.000540	<0.0150	<0.000240	**0.616**			0.0287		
	MW-21	Apr-17		0.00530	0.00817				<0.000540	<0.0150	<0.000240	**0.204**			0.0258		
	MW-21	Oct-17		0.00545	0.00860				0.000607 J	0.0290 J	<0.000240	**0.607**			0.0314		
	MW-25	Apr-14		0.00502 J	0.0265				<0.00500	<0.250	<0.00350	**1.09**			<0.00500		
	MW-25	Apr-15		0.00984 J	0.0187 J				<0.00270	<0.0750	<0.00120	**0.582** J			0.0204		
	MW-25	Apr-16		0.00582 J	0.0148 J				0.00332 J	<0.0750	<0.00120	**0.889**			<0.00190		
	MW-25	Apr-17		0.00300	0.0121				0.000842 J	0.0157 J	<0.000240	**0.507** V			0.00254		

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

2017 Annual Groundwater Monitoring Report
HollyFrontier Navajo Refining LLC, Artesia Refinery, Artesia, New Mexico

				Analyte Group:	Total Metals													
				Analyte:	Arsenic	Barium	Boron	Cadmium	Cobalt	Chromium	Iron	Lead	Manganese	Mercury	Nickel	Selenium	Uranium	Vanadium
				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:	0.010	1.00	0.75	0.005	0.050	0.050	1.00	0.015	0.200	0.002	0.200	0.050	0.030	0.0631
				CGWSL Source:	USEPA MCL	WQCC HH	WQCC Irr	USEPA MCL	WQCC Irr	WQCC HH	WQCC Dom	USEPA MCL	WQCC Dom	USEPA MCL	WQCC Irr	USEPA MCL	WQCC HH	NMED TW
Area	**Well ID**	**Date**	**Dup**															
TMD	MW-26	Apr-14		0.00413 J	0.00878 J				<0.00200	<0.100	<0.00140	**0.731**			0.0241		
	MW-26	Apr-15		0.00351	0.00944				<0.000540	0.0811 J	<0.000240	**0.613**			0.0197		
	MW-26	Apr-16		0.00384 J	0.0101 J				<0.00270	<0.0750	<0.00120	**0.847**			0.0194		
	MW-26	Apr-17		0.00335	0.00916				<0.000540	<0.0150	<0.000240	**0.560**			0.0232		
	MW-27	Apr-14		0.00249 J	0.0166				<0.00100	<0.00500	<0.000700	0.00554			0.0192		
	MW-27	Apr-15		0.00239	0.0235				<0.000540	<0.0150	<0.000240	0.0318			0.0180		
	MW-27	Apr-16		0.00228 J	0.0179 J				<0.00270	<0.0750	<0.00120	0.0186 J			0.0127		
	MW-27	Apr-17		0.00216	0.0153				<0.000540	<0.0150	<0.000240	0.0158			0.00706		
	MW-46R	Nov-14		0.00420	0.0240				0.00280	**1.10**	0.000830 J	0.140			0.00340		
	MW-46R	Apr-15		0.00307	0.0188				0.00106 J	0.297	0.000608 J	0.116			0.00116 J		
	MW-46R	Apr-16		0.00317 J	0.0140 J				<0.00270	0.159 J	<0.00120	0.125			<0.00190		
	MW-46R	Oct-16		0.00314	0.0150				0.000894 JB	0.196	0.000459 J	0.137			0.00154 J		
	MW-46R	Apr-17		0.00266	0.0134				<0.000540	0.167	0.000538 J	0.162			0.00199 J		
	MW-46R	Oct-17		0.00262	0.0130				<0.000540	0.0344 J	0.000354 J	0.124			0.00135 J		
	MW-68	Apr-14		0.00325 J	0.0142				<0.00200	<0.100	<0.00140	<0.00500			0.0248		
	MW-68	Apr-15		0.00292	0.0159				<0.000540	0.0594 J	0.000524 J	0.00131 J			0.0123		
	MW-68	Apr-16		0.00314 J	0.0133 J				<0.00270	<0.0750	<0.00120	0.0393			0.00339 J		
	MW-68	Apr-17		0.00244	0.0107				<0.000540	<0.0150	<0.000240	0.0824			0.00275		
	MW-71	Apr-14		0.00458 J	0.00860				<0.00100	<0.0500	<0.000700	<0.00250	<0.000040	0.00123 J	0.0452		0.0252
	MW-71	Apr-15		0.00411	0.00897				0.000581 J	0.0373 J	<0.000240	0.000898 J	<0.000049	0.00134 J	0.0349		0.0229
	MW-71	Apr-16		0.00436 J	0.0103 J	0.689 V	<0.00500	<0.00130	<0.00270	<0.0750	<0.00120	<0.00125	<0.000049	<0.00175	0.0370	**0.0605**	0.0257
	MW-71	Apr-17		0.00387	0.00845	0.538	<0.000160	<0.000260	<0.000540	<0.0150	<0.000240	0.000841 J	<0.000049	0.000916 J	0.0324	**0.0587**	0.0248
	MW-89	Apr-14		**0.0128**	0.0140				<0.00100	0.195 J	<0.000700	**0.537**			0.0188		
	MW-89	Apr-15		0.00900 J	0.0144 J				<0.00270	0.120 J	<0.00120	0.0710 J			0.0275		
	MW-89	Apr-16		0.00839 J	0.0155 J				<0.00270	0.228 J	<0.00120	0.0788			0.0311	<0.00100	
	MW-89	Apr-17		0.00657	0.0145				0.00102 J	<0.0150	<0.000240	0.0420			**0.0534**		
	NP-1	Apr-15															
	NP-1	Oct-15															
	NP-1	Apr-16															
	NP-1	Oct-16															
	NP-1	Apr-17															
	NP-1	Oct-17															
	NP-2	Apr-13															
	NP-6	Apr-13															
	NP-6	Apr-15															
	NP-6	Apr-17															
Up-Gradient	UG-1	Apr-14		0.00158 J	0.0128				0.00159 J	0.0832 J	<0.000700	0.00575	<0.000040	0.00121 J	0.00728		0.0135
	UG-1	Apr-15		0.00113 J	0.0137				0.00242	0.0262 J	<0.000240	0.000764 J	<0.000049	<0.000350 B	0.0103		0.0105
	UG-1	Apr-16		<0.00125	0.0136 J	0.574	<0.00500	<0.00130	<0.00270	<0.0750	<0.00120	<0.00125	<0.000049	<0.00175	0.0140	0.0252 J	0.0107 J
	UG-1	Apr-17		0.00106 J	0.0135	0.548	<0.000160	<0.000260	0.000572 J	0.0561 J	<0.000240	0.00689	<0.000049	0.00145 J	0.0100	0.0262	0.0118
	UG-2	Apr-14		0.00385 J	0.0167				<0.00100	0.673	<0.000700	**0.488**	<0.000040	0.0256	0.00209 J		0.00820
	UG-2	Apr-15		0.00205	0.0153				<0.000540	<0.0150	<0.000240	0.0110	<0.000049	0.00527	<0.000380 B		0.0115
	UG-2	Apr-16		0.00202 J	0.0150 J	0.343	<0.00500	<0.00130	<0.00270	<0.0750	<0.00120	0.0147	<0.000049	0.00905	0.00321 J	0.0156 J	0.0123 J
	UG-2	Apr-17		0.00197 J	0.0154	0.303	<0.000160	<0.000260	<0.000540	0.0172 J	<0.000240	0.0154	<0.000049	0.00271	0.00572	0.0153	0.0154
	UG-3R	Apr-14		0.00184 J	0.0170				<0.00100	<0.0500	<0.000700	<0.00250	<0.000049	<0.00100	0.00534		0.0109
	UG-3R	Apr-14	FD	0.00167 J	0.0163				<0.00100	<0.0500	<0.000700	<0.00250	<0.000049	<0.00100	0.00640		0.0101
	UG-3R	Apr-15		0.00258	0.0595				0.00368	**2.05**	0.000626 J	0.0725	<0.000049	<0.000350 B	<0.000380 B		0.0135
	UG-3R	Apr-16		0.00182 J	0.0198 J	0.295	<0.00500	<0.00130	<0.00270	<0.0750	<0.00120	0.00141 J	<0.000049	0.00188 J	0.00386 J	0.0122 J	0.0104 J
	UG-3R	Apr-17		0.00161 J	0.0185	0.256	<0.000160	0.000465 J	<0.000540	0.0316 J	<0.000240	0.00182 J	<0.000049	0.00225	0.00325	0.0129	0.00961
	UG-4	Apr-16		<0.00125	0.0184 J	**1.19**	<0.00500	<0.00130	<0.00270	<0.0750	<0.00120	0.00752 J	<0.000049	0.00203 J	0.00634 J	**0.0364** J	0.00749 J
	UG-4	Apr-17		0.00111 J	0.0164	**1.06**	<0.000160	<0.000260	<0.000540	0.0249 J	<0.000240	0.00935	<0.000049	0.00143 J	0.0143	**0.0361**	0.00739

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, March 2017, Table A-1, Tap Water Screening Level
WQCC Dom	NMED Groundwater standard for domestic exposure taken from 20.6.2.3103.B NMAC
WQCC HH	NMED Groundwater standard for human health exposure, 20.6.2.3103.A NMAC
WQCC Irr	NMED Groundwater standard for irrigation exposure, 20.6.2.3103.C NMAC
USEPA MCL	United States Environmental Protection Agency Maximum Contaminant Level, "Regional Screening Levels (RSL) Summary Table", November 2017

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.
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.

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

2017 Annual Groundwater Monitoring Report

HollyFrontier Navajo Refining LLC, Artesia Refinery, Artesia, New Mexico

				Analyte Group:	Dissolved Metals													
				Analyte:	Arsenic	Barium	Boron	Cadmium	Chromium	Cobalt	Iron	Lead	Manganese	Mercury	Nickel	Selenium	Uranium	Vanadium
				Units:	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
				CGWSL:	0.010	1.00	0.75	0.005	0.050	0.050	1.00	0.015	0.200	0.002	0.200	0.050	0.030	0.0631
				CGWSL Source:	USEPA MCL	WQCC HH	WQCC Irr	USEPA MCL	WQCC HH	WQCC Irr	WQCC Dom	USEPA MCL	WQCC Dom	USEPA MCL	WQCC Irr	USEPA MCL	WQCC HH	NMED TW
Area	Well ID	Date	Dup															
Cross-Gradient	KWB-13	Apr-14		0.00276 J	0.0156			0.00107 J		<0.0780	<0.00070	<0.00250	<4.2E-05	<0.00100	0.0136		0.0188	
	KWB-13	Apr-15		0.00376	0.0439			0.00125 J		0.337	0.00143 J	0.0462		0.00136 J	0.0117		0.0173	
	KWB-13	Apr-16		0.0029 J	0.021 J	0.416	<0.00080	<0.00270	<0.0013	0.483 J	<0.00120	0.00842 JB	<4.9E-05	<0.00175	0.014	0.0245 J	0.0201 J	
	KWB-13	Apr-17		0.00251	0.0181	0.348	0.000738 J	0.000961 J	<0.002	<0.1	0.000617 J	0.0007 JB	<0.0002	0.00154 JB	0.0126	0.0254	0.0197	
	MW-17	Apr-14		0.00217 J	0.0139			0.00184 J		<0.0780	<0.00070	<0.00250			0.00918			
	NP-5	Apr-13		<0.0100	<0.0100			<0.0100		<0.400	<0.0100	<0.0100			0.0148			
	NP-5	Apr-15		0.00306	0.0076			<0.00054		<0.0150	<0.00024	0.000511 J			0.0128			
	NP-5	Apr-17		0.00315	0.00738			<0.002		<0.1	<0.002	<0.005			0.0125			
	MW-136	Apr-15		0.00283	0.0107		<0.00016	<0.00054		0.0239 J	<0.00024	0.00574		0.0011 J	0.00362		0.0158	
	MW-136	Apr-16		0.00242 J	0.0113 J	0.661	<0.00080	<0.00270	<0.0013	<0.075	<0.00120	0.00291 JB	<4.9E-05	0.00772 JB	0.00664 J	**0.0698**	0.0188 J	
	MW-136	Apr-17		0.00248	0.0101	0.558	<0.001	<0.002	<0.002	<0.1	<0.002	0.00136 J	<0.0002	0.00109 J	0.00472	**0.0684**	0.0176	
Evaporation Ponds	MW-1R	Apr-14		<0.00200	0.0194			<0.00200		**1.31**	<0.00140	**1.22**			<0.00200			
	MW-1R	Apr-15		0.00264 J	0.0229 J			<0.00270		**2.58**	<0.00120	**2.14**			<0.00190			
	MW-1R	Apr-16		0.00311 J	0.0252			<0.00270		**3.72**	<0.00120	**2.64**			0.00216 J			
	MW-1R	Apr-17		0.00088 J	0.0254			0.000638 J		0.0387 J	<0.002	**2.34**			<0.002			
	MW-2A	Apr-14		**0.0148** J	0.021 J			<0.00500		<0.390	0.00423 J	**1.27**			0.00624 J			
	MW-2A	Apr-15		**0.0116**	0.0216			<0.00054		0.201	<0.00024	**1.83**			0.00186 J			
	MW-2A	Apr-16		**0.014**	0.0223 J			<0.00270		**2.64**	<0.00120	**2.31**			0.00347 J			
	MW-2A	Apr-17		0.00354	0.0175			<0.002		<0.1	<0.002	**1.49**			0.000949 J			
	MW-3	Apr-14		**0.0285**	0.0178			<0.00200		<0.156	<0.00140	**0.325**			0.0429			
	MW-3	Apr-15	FD	**0.0253**	0.0171			<0.00054		<0.0150	<0.00024	**1.30**			**0.0955**			
	MW-3	Apr-15		**0.0269**	0.018			<0.00054		<0.0150	<0.00024	**1.37**			**0.095**			
	MW-3	Apr-16	FD	**0.0246**	0.0141 J			<0.00270		0.401 J	<0.00120	**2.13**			0.00615 J			
	MW-3	Apr-16		**0.0299**	0.0146			0.00103 J		0.388	0.0003 J	**2.49**			0.00429			
	MW-3	Apr-17	FD	**0.0172**	0.0152			<0.002		0.0247 J	<0.002	**1.12**			0.00293			
	MW-3	Apr-17		**0.0179**	0.0138			<0.002		<0.1	<0.002	**1.08**			0.00281			
	MW-4A	Apr-14		**0.0786**	0.0121			<0.00200		0.614	<0.00140	**2.36**			<0.00200			
	MW-4A	Apr-15		**0.104**	0.0113			0.000987 J		**1.89**	<0.00024	**2.73**			0.000614 J			
	MW-4A	Apr-16		**0.174**	0.0128 J			<0.00270		**2.99**	<0.00120	**2.29**			0.00269 J			
	MW-4A	Apr-17		**0.147**	0.0123			<0.002		0.104	<0.002	**1.94**			0.000498 J			
	MW-4B	Apr-17		**0.0471**	0.0188			<0.002		0.0449 J	<0.002	**9.32**			<0.002			
	MW-5A	Apr-14		**0.0796**	0.0106 J			<0.00500		**5.40**	<0.00350	**1.62**			<0.00500			
	MW-5A	Apr-15		**0.0848**	0.0107			0.000957 J		**4.50**	<0.00024	**1.58**			0.00086 J			
	MW-5A	Apr-16		**0.179**	0.0128 J			<0.00270		**6.87**	<0.00120	**1.33**			0.00262 J			
	MW-5A	Apr-17		**0.0861**	0.0133			<0.002		0.0208 J	<0.002	**1.23**			0.000895 J			
	MW-5B	Apr-13		**0.109**	<0.0100			<0.0100		0.618	<0.0100	**2.17**			<0.0100			
	MW-5B	Apr-15		**0.198**	0.0104			0.000978 J		**4.71**	<0.00024	**3.49**			0.00197 J			
	MW-5B	Apr-17		**0.127**	0.0111			<0.002		0.0226 J	<0.002	**3.51**			0.00155 J			
	MW-5C	Apr-13		**0.0137**	0.014			<0.00500		**1.08**	<0.00500	**0.900**			<0.00500			
	MW-5C	Apr-15		**0.0124**	0.0172			0.00115 J		0.77	0.000449 J	**0.687**			<0.00038			
	MW-5C	Apr-17		0.00981	0.014			<0.002		<0.1	<0.002	**0.906**			<0.002			
	MW-6A	Apr-14		**0.0102**	0.0252			<0.00200		<0.156	<0.00140	**1.20**			0.0157			
	MW-6A	Apr-15		**0.0114**	0.0331			<0.00054		0.0527 J	0.0004 J	**1.40**			0.0318			
	MW-6A	Apr-16		0.00932 J	0.0156 J			<0.00270		<0.075	<0.00120	**0.491**			<0.00190			
	MW-6A	Apr-17		0.00999	0.0137			<0.002		<0.1	<0.002	**0.416**			0.000824 J			
	MW-6B	Mar-13	FD	**0.0336**	0.0173			<0.00500		**1.23**	<0.00500	**3.03**			<0.00500			
	MW-6B	Mar-13		**0.032**	0.0145			<0.00500		**1.24**	<0.00500	**2.84**			<0.00500			
	MW-6B	Apr-15		**0.0319**	0.0186			<0.00054		**1.21**	<0.00024	**3.52**			<0.00038			
	MW-6B	Apr-17		0.00863	0.0141			<0.002		<0.1	<0.002	**1.01**			<0.002			
	MW-7A	Apr-14		**0.0239**	0.0167			<0.00200		**2.34**	<0.00140	**0.541**			<0.00200			
	MW-7A	Apr-15	FD	**0.0141**	0.0149			0.000544 J		<0.0150	<0.00024	**0.997**			0.000601 J			
	MW-7A	Apr-15		**0.0172**	0.0148			0.00089 J		0.676	<0.00024	**0.994**			0.000532 J			
	MW-7A	Apr-16	FD	**0.0226**	0.0174 J			<0.00270		**2.56**	<0.00120	**0.642**			0.00207 J			
	MW-7A	Apr-16		**0.0224**	0.017 J			<0.00270		**2.63**	<0.00120	**0.634**			<0.00190			
	MW-7A	Apr-17	FD	**0.0131**	0.015			<0.002		0.0169 J	<0.002	**0.541**			<0.002			
	MW-7A	Apr-17		**0.0124**	0.015			<0.002		0.0171 J	<0.002	**0.570**			<0.002			
	MW-7B	Apr-13		<0.0100	0.0114			<0.0100		<0.400	<0.0100	**0.358**			<0.0100			
	MW-7B	Apr-15		0.00529	0.011			<0.00054		0.0879 J	<0.00024	**0.541** J			<0.00038			
	MW-7B	Apr-17		0.00373	0.0118			<0.002		<0.1	<0.002	**0.493**			<0.002			
	MW-10	Apr-14		**0.0195**	0.0114			<0.00200		<0.156	<0.00140	**2.75**			<0.00200			
	MW-10	Apr-15		**0.0191**	0.013 J			<0.00270		<0.0750	<0.00120	**2.53**			<0.00190			
	MW-10	Apr-16		**0.0247**	0.0174 J			<0.00270		<0.075	<0.00120	**2.60**			0.00211 J			
	MW-10	Apr-17		**0.0154**	0.0115			<0.002		<0.1	<0.002	**2.46**			<0.002			
	MW-11A	Apr-14		<0.00500	0.037			<0.00500		0.924 J	<0.00350	**1.84**			<0.00500			
	MW-11A	Apr-15		<0.00250	0.0338 J			<0.00540		<0.150	<0.00240	**0.846**			<0.00380			
	MW-11A	Apr-16		0.00133 J	0.0321			<0.00270		0.887	<0.00120	**0.903**			<0.00190			
	MW-11A	Apr-17		0.000295 J	0.0329			<0.002		0.0408 J	<0.002	**0.773**			<0.002			
	MW-11B	Mar-13		**<0.0250**	<0.0250			<0.0250		**3.62**	**<0.0250**	**0.365**			<0.0250			
	MW-11B	Apr-15		0.00458 J	0.0187			<0.00270		**3.59**	<0.00120	**0.376**			<0.00190			
	MW-11B	Apr-17		0.00103 J	0.0188			<0.002		0.0826 J	<0.002	**0.370**			<0.002			
	MW-12	Apr-14		<0.00200	0.0204			<0.00200		<0.156	<0.00140	0.183			0.0208			
	MW-13	Apr-14		<0.00200	0.0334			<0.00200		<0.156	<0.00140	0.173			<0.00200			
	MW-15	Apr-14		**0.0589**	0.0186			0.0144		<0.156	<0.00140	**0.332**			0.00547 J			
	MW-15	Apr-15		**0.0268**	0.0219 J			<0.00270		0.0762 J	<0.00120	**0.814**			0.0211			
	MW-15	Apr-16		**0.0204**	0.0217 J			<0.00270		<0.075	<0.00120	**0.874**			<0.00190			
	MW-15	Apr-17		**0.0132**	0.0182			0.000671 J		<0.1	0.000257 J	0.18			0.000506 J			
	MW-18A	Apr-14		<0.0100	0.0166 J			<0.0100		<0.780	<0.00700	0.176	<4.2E-05	<0.0100	0.0323		<0.00900	
	MW-18A	Apr-15		0.00341	0.0116			<0.00054		<0.0150	<0.00024	0.00939		0.00194 J	0.0464		0.0042 J	
	MW-18A	Apr-16		0.00629 J	0.0157 J	**2.87**	<0.00080	<0.00270	<0.0013	0.333 JB	<0.00120	**0.335**	<4.9E-05	0.00835 J	<0.00190	**0.041** J	0.00163 J	
	MW-18A	Apr-17		0.00465	0.017	**2.38**	<0.001	<0.002	0.00031 J	0.382	<0.002	**0.776**	<0.0002	0.00693	0.000553 J	**0.0309**	0.000553	
	MW-18B	Apr-13		0.00781	0.0119			<0.00500		<0.200	<0.00500	**0.657**			<0.00500			
	MW-18B	Apr-15		**0.0104**	0.0116			<0.00054		0.0398 J	<0.00024	**0.723**			<0.00038			
	MW-18B	Apr-17		0.00962	0.013			<0.002		<0.1	<0.002	**0.897**			<0.002			
	MW-22A	Apr-14		**0.0418**	0.0154			<0.00200		0.271 J	<0.00140	**3.58**			0.00322 J			
	MW-22A	Apr-15	FD	**0.0369**	0.0171			<0.00054		0.901	<0.00024	**5.08**			0.00105 J			
	MW-22A	Apr-15		**0.0376**	0.0162 J			<0.00270		0.537	<0.00120	**5.37**			<0.00190			
	MW-22A	Apr-16	FD	**0.037**	0.0171 J			<0.00270		**2.39**	<0.00120	**5.87**			0.00218 J			
	MW-22A	Apr-16		**0.0383**	0.0157 J			<0.00270		**2.37**	<0.00120	**5.83**			0.00242 J			
	MW-22A	Apr-17	FD	**0.0314**	0.0155			0.000775 J		0.0154 J	<0.002	**6.70**			0.000846 J			
	MW-22A	Apr-17		**0.0325**	0.0145			<0.002		<0.1	<0.002	**6.25**			0.000797 J			
	MW-22B	Apr-13		**0.0288**	<0.0250			<0.0250		**1.98**	**<0.0250**	**3.41**			<0.0250			
	MW-22B	Apr-15		**0.0383**	0.0154 J			<0.00270		**2.20**	<0.00120	**4.64**			<0.00190			
	MW-22B	Apr-17		**0.0242**	0.0109			<0.002		<0.1	<0.002	**3.53**			0.000555 J			
	MW-70	Apr-14		**0.024**	0.0154			<0.00100		0.922	<0.00070	**0.302**			<0.00100			
	MW-70	Apr-15		**0.0196**	0.0139			<0.00054		**1.57**	<0.00024	**0.213**			<0.00038			
	MW-70	Apr-16		**0.0228**	0.0147 J			<0.00270		**5.40**	<0.00120	**0.513**			<0.00190			
	MW-70	Apr-17		**0.0156**	0.0156			<0.002		0.419	<0.002	**0.244**			<0.002			
	MW-72	Apr-14		**0.0258**	0.0146 J			<0.00500		**3.89**	<0.00350	**5.16**			<0.00500			
	MW-72	Apr-15		**0.0306**	0.0226			0.000575 J		**1.19**	<0.00024	**2.89**			0.0117			
	MW-72	Apr-16		**0.0269**	0.0185 J			<0.00270		**5.04**	<0.00120	**4.98**			<0.00190			
	MW-72	Apr-17		**0.0151**	0.0217			<0.002		<0.1	<0.002	**4.20**			0.0018 J			
	MW-73	Apr-14		**0.0986**	0.0102 J			<0.00500		**4.67**	<0.00350	**2.62**			<0.00500			
	MW-73	Apr-15		**0.064**	0.0109			0.000772 J		0.058 J	<0.00024	**2.36**			0.00193 J			
	MW-73	Apr-16		**0.0843**	0.0109 J			<0.00270		**3.67**	<0.00120	**3.00**			0.00314 J			
	MW-73	Apr-17		**0.0642**	0.0074			<0.002		0.0403 J	<0.002	**0.222**			0.00189 J			

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

2017 Annual Groundwater Monitoring Report

HollyFrontier Navajo Refining LLC, Artesia Refinery, Artesia, New Mexico

Area	Well ID	Date	Dup	Arsenic	Barium	Boron	Cadmium	Chromium	Cobalt	Iron	Lead	Manganese	Mercury	Nickel	Selenium	Uranium	Vanadium
Analyte Group:				**Dissolved Metals**													
Analyte:				**Arsenic**	**Barium**	**Boron**	**Cadmium**	**Chromium**	**Cobalt**	**Iron**	**Lead**	**Manganese**	**Mercury**	**Nickel**	**Selenium**	**Uranium**	**Vanadium**
Units:				mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
CGWSL:				0.010	1.00	0.75	0.005	0.050	0.050	1.00	0.015	0.200	0.002	0.200	0.050	0.030	0.0631
CGWSL Source:				USEPA MCL	WQCC HH	WQCC Irr	USEPA MCL	WQCC HH	WQCC Irr	WQCC Dom	USEPA MCL	WQCC Dom	USEPA MCL	WQCC Irr	USEPA MCL	WQCC HH	NMED TW
Evaporation Ponds	MW-74	Apr-14		**0.0606**	0.0121 J			<0.00500		<0.390	<0.00350	**1.07**			**0.162**		
	MW-74	Apr-15		**0.0515**	0.0103			<0.00054		0.065 J	<0.00024	**0.392**			**0.480**		
	MW-74	Apr-16		**0.135**	0.0133 J			<0.00270		<0.075	<0.00120	**2.20**			0.0155		
	MW-74	Apr-17		**0.0689**	0.0136			<0.002		<0.1	<0.002	**1.07**			**0.165**		
	MW-75	Apr-14		**0.152**	0.0155			<0.00200		0.719	<0.00140	**1.03**			0.00292 J		
	MW-75	Apr-15		**0.355**	0.0186			0.003		**9.82**	<0.00024	**0.861**			0.00261		
	MW-75	Apr-16		**0.125**	0.0176 J			<0.00270		**1.08**	<0.00120	**0.907**			0.00374 J		
	MW-75	Apr-17		**0.114**	0.017			<0.002		0.0351 J	<0.002	**0.882**			0.00182 J		
	MW-76	Apr-14		**0.0521**	0.0128			0.00128 J		**2.95**	<0.00070	**1.00**			0.00139 J		
	MW-76	Apr-15		**0.0628**	0.012			0.00133 J		**3.53**	<0.00024	**0.977**			0.00214		
	MW-76	Apr-16		**0.0455**	0.012 J			<0.00270		**3.62**	<0.00120	**0.856**			0.00464 J		
	MW-76	Apr-17		**0.0458**	0.0116			<0.002		0.0501 J	<0.002	**0.824**			0.00325		
	MW-77	Apr-14		**0.067**	0.011			0.00747 J		**7.09**	0.00176 J	**0.909**			0.0123		
	MW-77	Apr-15		**0.0921**	0.0144 J			0.0116		**13.6**	<0.00120	**0.644**			0.0127		
	MW-77	Apr-16		**0.0594**	0.00881 J			0.0122 J		**10.7**	<0.00240	**0.599**			0.0110		
	MW-77	Apr-17		**0.0336**	0.0101			0.00772		0.158	<0.002	**0.563**			0.0101		
	MW-78	Apr-14		**0.0145**	0.0278			0.0363		**4.70**	<0.00070	**1.60**			0.00708		
	MW-78	Apr-15		**0.0117**	0.032			0.0342		**10.7**	<0.00120	**1.26**			0.0122		
	MW-78	Apr-16		**0.0116**	0.0382			0.049		**11.2**	<0.00120	**0.773**			0.0124		
	MW-78	Apr-17		0.00661	0.0411			0.0388		0.0653 J	<0.002	**0.473**			0.00868		
	MW-79	Apr-14		**0.0183**	0.0134			<0.00200		<0.156	<0.00140	**1.30**			0.00861 J		
	MW-79	Apr-15		0.0063	0.0161			<0.00054		<0.0150	<0.00024	**1.34**			0.0012 J		
	MW-79	Apr-16		0.00557 J	0.0166 J			<0.00270		0.13 J	<0.00120	**2.91**			<0.00190		
	MW-79	Apr-17		0.00433	0.0162			<0.002		<0.1	<0.002	**1.21**			0.000456 J		
	MW-80	Apr-14		0.0072 J	0.0155			<0.00200		<0.156	0.0017 J	**0.403**			0.00238 J		
	MW-80	Apr-15		**0.0109**	0.0153			<0.00054		0.0598 J	<0.00024	**0.381**			0.000949 J		
	MW-80	Apr-16		0.00359 J	0.0171 J			<0.00270		0.173 J	<0.00120	0.162			0.00232 J		
	MW-80	Apr-17		0.00597	0.0166			<0.002		<0.1	<0.002	**0.587**			0.00205		
	MW-81	Apr-14		**0.0188**	0.0151			<0.00200		<0.156	0.00152 J	0.124			0.00945 J		
	MW-81	Apr-15		**0.0188**	0.0144			0.000736 J		0.019 J	<0.00024	0.0128			0.0229		
	MW-81	Apr-16		**0.0226**	0.0137 J			<0.00270		<0.075	<0.00120	0.00553 J			0.0426		
	MW-81	Apr-17		**0.016**	0.0144			<0.002		<0.1	<0.002	0.0025 J			0.0169		
	MW-82	Apr-14	FD	**0.071**	0.0183			<0.00200		0.543	<0.00140	**1.39**			<0.00200		
	MW-82	Apr-14		**0.0684**	0.0181			<0.00200		0.493	<0.00140	**1.35**			<0.00200		
	MW-82	Apr-15		**0.0761**	0.0303			0.0032		0.765	<0.00024	**1.25**			0.00265		
	MW-82	Apr-16		**0.04**	0.0326			<0.00270		0.121 J	<0.00120	**1.64**			0.00331 J		
	MW-82	Apr-17		**0.0326**	0.026			<0.002		0.0479 J	<0.002	**1.97** V			0.00125 J		
	MW-83	Apr-14		**0.0292**	0.0171			0.00271 J		**2.6**	<0.00070	**0.977**			0.00741		
	MW-83	Apr-15		**0.0253**	0.0129			0.00766		**6.99**	<0.00024	**0.741**			0.00376		
	MW-83	Apr-16		**0.0282**	0.0207 J			0.00814 J		**3.77**	<0.00120	**0.532**			0.0052 J		
	MW-83	Apr-17		**0.0183**	0.0357			0.00753		0.0258 J	<0.002	**0.606**			0.00339		
	MW-84	Apr-14		**0.0779**	0.0127			0.00293 J		0.324 J	<0.00140	**3.28**			0.0069 J		
	MW-84	Apr-15		**0.0885**	0.0139			0.00335		0.265	<0.00024	**2.90**			0.005		
	MW-84	Apr-16		**0.0867**	0.0146 J			0.00527 J		0.682	<0.00120	**2.98**			0.00813 J		
	MW-84	Apr-17		**0.074**	0.013			0.00227		0.0725 J	<0.002	**2.46**			0.00472		
	MW-87	Apr-14		0.0066 J	0.016 J			<0.00500		<0.390	<0.00350	0.0205 J			<0.00500		
	MW-87	Apr-15		0.00565	0.0186			0.000544 J		<0.0150	0.000455 J	0.0419			0.0011 J		
	MW-87	Apr-16		0.00841 J	0.0178 J			<0.00270		**3.82** O1	<0.00120	**2.39** V			0.00215 J		
	MW-87	Apr-17		0.00522	0.0162			<0.002		0.617	<0.002	**1.71**			<0.002		
	MW-88	Apr-14		**0.0106**	0.013			<0.00200		<0.156	<0.00140	**0.914**			<0.00200		
	MW-88	Apr-15		**0.0106**	0.0139 J			<0.00270		0.0753 J	<0.00120	**1.31**			<0.00190		
	MW-88	Apr-16		0.00969 J	0.0111 J			<0.00270		<0.075	<0.00120	**0.852**			<0.00190		
	MW-88	Apr-17		0.00761	0.0104			<0.002		<0.1	<0.002	**0.901** V			0.000412 J		
	MW-120	Apr-14		**0.0152**	0.00984 J			<0.00200		**3.76**	0.00156 J	**1.27**			<0.00200		
	MW-120	Apr-15		0.00704	0.0113			<0.00054		**1.35**	<0.00024	**1.28**			0.0324		
	MW-120	Apr-16		0.00838 J	0.0155 J			<0.00270		**3.28**	<0.00120	**1.85**			0.00538 J		
	MW-120	Apr-17		0.00532	0.0129			<0.002		<0.1	<0.002	**1.52**			<0.002		
	MW-121	Apr-14		**0.0339**	0.017			<0.00200		0.415	0.0015 J	**4.37**			0.00511 J		
	MW-121	Apr-15		**0.0337**	0.0138			<0.00054		0.567	<0.00024	**3.86**			0.00764		
	MW-121	Apr-16		**0.0369**	0.0134 J			<0.00270		0.174 JB	<0.00120	**2.92**			0.00792 J		
	MW-121	Apr-17		**0.0244**	0.0128			<0.002		<0.1	<0.002	**2.60**			0.0056		
	MW-122	Apr-14		0.00897 J	0.0337			<0.00200		**4.81**	0.00167 J	**2.00**			<0.00200		
	MW-122	Apr-15		**0.0108**	0.025			<0.00054		0.224	<0.00024	**1.85**			0.00914		
	MW-122	Apr-16		0.00405 J	0.028			<0.00270		0.541 B	<0.00120	**1.39**			<0.00190		
	MW-122	Apr-17		0.00436	0.0292			<0.002		<0.1	<0.002	**2.16**			0.000462 J		
	MW-123	Apr-14		**0.0276**	0.0207			<0.00200		<0.156	<0.00140	**2.94**			<0.00200		
	MW-123	Apr-15		**0.0274**	0.021 J			<0.00270		<0.0750	<0.00120	**2.67**			<0.00190		
	MW-123	Apr-16		**0.0254**	0.0211 J			<0.00270		<0.075	<0.00120	**2.85**			0.0022 J		
	MW-123	Apr-17		**0.0224**	0.0206			<0.002		<0.1	<0.002	**1.73**			<0.002		
	MW-124	Apr-14		0.00439 J	0.0241			<0.00200		0.613	<0.00140	**0.518**			<0.00200		
	MW-124	Apr-15		0.00199 J	0.017			<0.00054		0.961	<0.00024	**0.703**			<0.00038		
	MW-124	Apr-16		0.00255 J	0.0198 J			<0.00270		**2.70**	<0.00120	**0.601**			<0.00190		
	MW-124	Apr-17		0.00047 J	0.0192			<0.002		<0.1	<0.002	**0.463**			<0.002		
	OCD-1R	Apr-14		0.00705 J	0.0156			<0.00200		<0.156	<0.00140	**1.31**			0.00716 J		
	OCD-1R	Apr-15		0.00669 J	0.0184 J			<0.00270		<0.0750	<0.00120	**0.690**			0.0204		
	OCD-1R	Apr-16		0.00566 J	0.0159 J			**0.0508**		0.905	<0.00120	**0.599**			0.00328 J		
	OCD-1R	Apr-17		0.00284	0.0174			<0.002		<0.1	<0.002	**1.22**			0.000904 J		
	OCD-2A	Apr-14		<0.00200	0.0203			<0.00200		<0.156	<0.00140	**0.440**			<0.00200		
	OCD-2A	Apr-15		0.00138 J	0.0188 J			<0.00270		<0.0750	<0.00120	**0.296**			<0.00190		
	OCD-2A	Apr-16		0.0046 J	0.0237 J			0.00345 J		**4.22**	<0.00120	**1.41**			<0.00190		
	OCD-2A	Apr-17		0.000769 J	0.0228			<0.002		<0.1	<0.002	**1.21**			<0.002		
	OCD-3	Apr-14		<0.00200	0.0187			<0.00200		<0.156	<0.00140	0.0572			<0.00200		
	OCD-3	Apr-15		<0.00120	0.018 J			<0.00270		0.341 J	<0.00120	0.105			<0.00190		
	OCD-3	Apr-16		0.00135 J	0.0219 J			<0.00270		0.0865 JB	<0.00120	0.0382			<0.00190		
	OCD-3	Apr-17		0.000537 J	0.0222			<0.002		<0.1	<0.002	0.0565			<0.002		
	OCD-4	Apr-14		<0.00500	0.0212 J			<0.00500		**3.10**	<0.00350	**0.287**			<0.00500		
	OCD-4	Apr-15		0.00246 J	0.0228 J			<0.00270		**1.89**	<0.00120	**0.290**			<0.00190		
	OCD-4	Apr-16		0.00176 J	0.0263			<0.00270		0.8	0.00146 J	0.149			<0.00190		
	OCD-4	Apr-17		0.000607 J	0.0235			<0.002		0.419	<0.002	0.066			<0.002		
	OCD-5	Apr-14	FD	<0.00500	0.0241 J			<0.00500		**1.62**	<0.00350	**0.386**			<0.00500		
	OCD-5	Apr-14		0.0055 J	0.0243 J			<0.00500		**1.61**	<0.00350	**0.375**			<0.00500		
	OCD-5	Apr-15		0.00721 J	0.0265			<0.00270		**3.41**	<0.00120	**0.312**			<0.00190		
	OCD-5	Apr-16		0.00259 J	0.024 J			<0.00270		**1.16**	<0.00120	**0.216**			<0.00190		
	OCD-5	Apr-17		0.00197 J	0.0245			<0.002		0.357	<0.002	**0.290**			<0.002		
	OCD-6	Apr-14		**0.0161** J	0.0194 J			<0.00500		**1.75**	<0.00350	**2.20**			<0.00500		
	OCD-6	Apr-15		**0.0124**	0.0209			0.000915 J		**2.91**	0.000267 J	**1.98**			0.000955 J		
	OCD-6	Apr-16		**0.0118**	0.0208 J			<0.00270		**2.00**	<0.00120	**2.14** V			0.00282 J		
	OCD-6	Apr-17		0.00705	0.0224			<0.002		<0.1	<0.002	**2.20**			0.000614 J		
	OCD-7AR	Apr-14	FD	**0.131**	0.0125			<0.00200		**1.57**	<0.00140	**2.62**			0.00271 J		
	OCD-7AR	Apr-14		**0.13**	0.0119			0.00204 J		**1.73**	<0.00140	**2.77**			0.00234 J		
	OCD-7AR	Apr-15		**0.0732**	0.0122			<0.00054		0.237	0.0003 J	**2.70**			0.00179 J		
	OCD-7AR	Apr-16		**0.127**	0.0133 J			<0.00270		0.217 J	<0.00120	**2.20**			0.0036 J		
	OCD-7AR	Apr-17		**0.105**	0.0135			<0.002		0.0872 J	<0.002	**2.22**			0.00167 J		

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

2017 Annual Groundwater Monitoring Report

HollyFrontier Navajo Refining LLC, Artesia Refinery, Artesia, New Mexico

			Analyte Group:	**Dissolved Metals**													
			Analyte:	**Arsenic**	**Barium**	**Boron**	**Cadmium**	**Chromium**	**Cobalt**	**Iron**	**Lead**	**Manganese**	**Mercury**	**Nickel**	**Selenium**	**Uranium**	**Vanadium**
			Units:	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
			CGWSL:	0.010	1.00	0.75	0.005	0.050	0.050	1.00	0.015	0.200	0.002	0.200	0.050	0.030	0.0631
			CGWSL Source:	USEPA MCL	WQCC HH	WQCC Irr	USEPA MCL	WQCC HH	WQCC Irr	WQCC Dom	USEPA MCL	WQCC Dom	USEPA MCL	WQCC Irr	USEPA MCL	WQCC HH	NMED TW
Area	**Well ID**	**Date**	**Dup**														
Evaporation Ponds	OCD-7B	Mar-13		<0.00500	0.0155			<0.00500		<0.200	<0.00500	<0.00500			<0.00500		
	OCD-7B	Apr-15		0.00304	0.0178			0.000838 J		**2.72**	<0.00024	**0.626**			<0.00038		
	OCD-7B	Apr-17		0.00131 J	0.0195			<0.002		<0.1	<0.002	**0.667**			<0.002		
	OCD-8A	Apr-14	FD	**0.0735**	0.0235			<0.00200		**8.13**	<0.00140	**3.38**	0.0017	0.0295	<0.00200		0.00193 J
	OCD-8A	Apr-14		**0.0791**	0.024			<0.00200		**8.18**	<0.00140	**3.45**	0.00008	0.0285	<0.00200		0.00185 J
	OCD-8A	Apr-15		**0.0543**	0.0315			0.000744 J		**11.0**	<0.00024	**6.40**		0.0562	0.000889 J		0.000737 J
	OCD-8A	Apr-16		**0.0651**	0.0222 J	**0.816**	<0.00080	<0.00270	<0.0013	**9.02**	<0.00120	**3.89**	<4.9E-05	0.0331	0.00226 J	<0.00165	0.00186 J
	OCD-8A	Apr-17		**0.0533**	0.0163	0.745	<0.001	<0.002	0.00105 J	0.0677 J	<0.002	**3.01**	<0.0002	0.0227	0.00106 J	0.00102 J	0.000283
	OCD-8B	Apr-13		**<0.0250**	<0.0250			<0.0250		<1.00	**<0.0250**	**0.617**			<0.0250		
	OCD-8B	Apr-15		**0.0113**	0.012			0.000653 J		0.2	<0.00024	**5.18**			0.000497 J		
	OCD-8B	Apr-17		0.0091	0.0127			<0.002		0.0155 J	<0.002	**6.46**			<0.002		
Field East of Refinery	KWB-1A	Apr-14		0.0042 J	0.00811 J			<0.00200		<0.156	<0.00140	**0.406**		0.00847 J	<0.00200		0.0197
	KWB-1A	Apr-15		0.00328	0.0084			<0.00054		<0.0150	<0.00024	**0.371**		0.00773	0.00336		0.0226
	KWB-1A	Apr-16		0.00279	0.00849	0.647	<0.000160	<0.00054	0.00479	<0.0150	0.000318 J	**0.398**	<4.9E-05	0.00956	0.00669 B	0.0217	0.0217
	KWB-1A	Apr-17		0.00344	0.00795	0.681	<0.001	<0.002	0.00545	<0.1	<0.002	**0.409**	<0.0002	0.00948	0.0013 J	0.0243	0.0223
	KWB-1C	Apr-13		<0.0100	0.0131			<0.0100		<0.400	<0.0100	<0.0100			<0.0100		
	KWB-1C	Apr-15		0.00297	0.0087			<0.00054		<0.0150	0.000528 J	**0.451**			0.00155 J		
	KWB-1C	Apr-17		0.00303	0.00839			<0.002		<0.1	<0.002	**0.472**			<0.002		
	KWB-7	Apr-13		<0.00500	0.0429			<0.00500		<0.200	<0.00500	**1.72**	<0.000200	0.0201	<0.00500		0.0116
	KWB-7	Apr-15		**0.0191**	0.0628			<0.00054		**1.51**	<0.00024	**5.86**		0.00784	0.000486 J		0.00111 J
	KWB-7	Apr-16		0.00997 J	0.0544	0.472	<0.00080	<0.00270	0.00568	**1.40**	<0.00120	**3.66**	<4.9E-05	0.00777 J	<0.00190	0.00299 J	0.00229 J
	KWB-7	Apr-17		0.00204	0.044	0.405	<0.001	<0.002	<0.002	<0.1	<0.002	**3.25**	<0.0002	0.00101 J	<0.002	0.00167 J	0.00093 J
	KWB-8	Apr-17		0.000904 J	0.087	0.6	<0.001	<0.002	<0.002	0.0772 J	0.000556 J	**1.77**	<0.0002	0.000663 J	<0.002	<0.01	0.00112 J
	KWB-10R	Apr-15		**0.0247**	**3.15**			<0.00054		**7.25**	0.00142 J	0.151			0.000839 J		
	KWB-10R	Apr-16		**0.0156**	**3.93**			<0.00054		**5.93**	0.000669 J	0.165			0.00194 JB		
	KWB-10R	Apr-17		**0.0115**	**3.39**			<0.002		0.281	0.000478 J	0.145			<0.002		
	KWB-11A	Apr-13		<0.00500	0.0209			<0.00500		<0.200	<0.00500	0.0115	<0.000200	<0.00500	0.00781		0.0126
	KWB-11A	Apr-15		0.00241	0.0217			<0.00054		<0.0150	0.00817	**0.265**		0.00442	0.0026		0.0123
	KWB-11A	Apr-16		0.00234 J	0.0283	0.477	<0.00080	<0.00270	0.00202	<0.075	0.00533 J	**0.240**	<4.9E-05	0.00547 J	0.00847 J	0.0209 J	0.0134 J
	KWB-11A	Apr-17		0.00194 J	0.0205	0.386	<0.001	<0.002	0.0014 J	<0.1	0.00294	**0.240**	<0.0002	0.00478	0.00483	0.0196	0.0119
	KWB-11B	Apr-14		0.00165 J	0.0142			<0.00100		<0.0780	<0.00070	<0.00250	<4.2E-05	<0.00100	0.00946		0.0079
	KWB-11B	Apr-15		0.00139 J	0.0135			0.000786 J		<0.0150	<0.00024			0.000504 J	0.00972		0.00811
	KWB-11B	Apr-16		0.00144 J	0.0119 J	0.154	<0.00080	<0.00270	<0.0013	<0.075	<0.00120	<0.00125	<4.9E-05	<0.00175	0.00845 J	0.00958 J	0.00947 J
	KWB-11B	Apr-17		0.0013 J	0.0123	0.0995	<0.001	0.000579 J	<0.002	<0.1	<0.002	0.000589 J	<0.0002	<0.002	0.00905	0.0114	0.00855
	KWB-12A	Apr-15	FD	0.0015 J	0.0128			<0.00054		<0.0150	<0.00024	0.000359 J		0.000473 J	0.00374		0.00955
	KWB-12A	Apr-15		0.00167 J	0.016			<0.00054		0.0156 J	<0.00024	<0.000250		0.000471 J	0.00445		0.0112
	KWB-12A	Apr-16		0.00191 J	0.0184 J	0.621	<0.00080	<0.00270	<0.0013	<0.075	<0.00120	<0.00125	<4.9E-05	<0.00175	0.00383 J	**0.0337** J	0.0143 J
	KWB-12A	Apr-17		0.00145 J	0.0155	0.56	<0.001	<0.002	<0.002	<0.1	<0.002	0.00171 JB	<0.0002	0.000403 JB	0.00361	0.029	0.0121
	KWB-12B	Apr-14	FD	0.00222 J	0.0101			<0.00200		<0.156	<0.00140	<0.00500	<4.2E-05	<0.00200	0.00341 J		0.0134
	KWB-12B	Apr-14		0.00336 J	0.00906			<0.00100		<0.0780	<0.00070	<0.00250	<4.2E-05	<0.00100	0.0046 J		0.0133
	KWB-12B	Apr-15		0.00169 J	0.00905			<0.00054		<0.0150	<0.00024	0.000656		0.000442 J	0.00404		0.0112
	KWB-12B	Apr-16	FD	0.00196 J	0.0132 J	0.625	<0.00080	<0.00270	<0.0013	<0.075	<0.00120	0.0047 J	<4.9E-05	<0.00175	0.00397 J	**0.0322** J	0.0141 J
	KWB-12B	Apr-16		0.00196 J	0.0159 J	0.625	<0.00080	<0.00270	<0.0013	<0.075	<0.00120	0.00501 J	<4.9E-05	<0.00175	0.00398 J	**0.0325** J	0.0152 J
	KWB-12B	Apr-17	FD	0.00152 J	0.00889	0.507	<0.001	<0.002	<0.002	<0.1	<0.002	0.00235 J	<0.0002	<0.002	0.00405 B	0.029	0.0124
	KWB-12B	Apr-17		0.00158 J	0.0101	0.603	<0.001	<0.002	<0.002	<0.1	<0.002	0.000491 JB	<0.0002	0.00061 JB	0.00354	**0.0307**	0.0120
	MW-57	Apr-14		**0.056**	0.065			<0.00100		**2.67**	0.000734 J	**1.98**			<0.00100		
	MW-57	Apr-15		0.00508	0.0171			<0.00054		0.385	<0.00024	0.188			0.0331		
	MW-57	Apr-16		0.00424 J	0.0144 J			<0.00270		<0.075	<0.00120	**0.388**			0.0116		
	MW-57	Apr-17		0.00348	0.0154			<0.002		<0.1	<0.002	**0.283**			0.0231		
	MW-58	Apr-15		**0.0116**	0.89			<0.00054		**1.33**	0.00259	0.0974		0.000747 J	0.000588 J		0.00237 J
	MW-58	Apr-16		**0.0109**	0.632	0.519	<0.00080	<0.00270	<0.0013	0.429 J	0.00166 J	**0.357**	<4.9E-05	0.00864 JB	<0.00190	<0.00165	0.00201 J
	MW-58	Apr-17		**0.0118**	0.68	0.395	<0.001	<0.002	<0.002	0.123	0.00131 J	**0.319**	<0.0002	0.000589 J	<0.002	<0.01	0.00242 J
	MW-111	Apr-14		**0.0126**	0.222			<0.00100		**6.74**	<0.00070	**1.68**			0.00119 J		
	MW-111	Apr-15		**0.0123**	0.239			<0.00054		**5.92**	<0.00024	**1.60**			<0.00038		
	MW-111	Apr-16		**0.0137**	0.0935			<0.00270		**6.54**	<0.00120	**1.68**			<0.00190		
	MW-111	Apr-17		0.00967	0.0596			<0.002		<0.1	<0.002	**1.59**			0.000586 J		
	MW-113	Apr-14		0.00267 J	0.018			<0.00100		0.0871 J	<0.00070	**0.387**			<0.00100		
	MW-113	Apr-15	FD	0.00413	0.0254			<0.00054		0.35	<0.00024	**0.946**			0.000388 J		
	MW-113	Apr-15		0.00445	0.0248			<0.00054		0.341	<0.00024	**0.917**			0.00328		
	MW-113	Apr-16	FD	0.00251 J	0.0233 J			<0.00270		0.191 J	<0.00120	**0.675**			<0.00190		
	MW-113	Apr-16		0.00282 J	0.0218 J			<0.00270		0.178 J	<0.00120	**0.723** V			<0.00190		
	MW-113	Apr-17	FD	0.00271	0.0262			<0.002		<0.1	<0.002	**1.12**			0.000537 JB		
	MW-113	Apr-17		0.00264	0.0251			<0.002		<0.1	<0.002	**1.14**			0.000664 JB		
	MW-125	Apr-14		0.00406 J	0.00914			<0.00100		<0.0780	<0.00070	**0.395**			0.00773		
	MW-125	Apr-15		0.00367	0.00842 J			<0.00054		<0.0150	<0.00024	**0.385**			0.00797 J		
	MW-125	Apr-16		0.00391 J	0.0101 J			<0.00270		<0.075	<0.00120	**0.412**			0.00379 J		
	MW-125	Apr-17		0.0035	0.00884			<0.002		<0.1	<0.002	**0.393**			0.00331		
	MW-126A	Apr-14		0.00366 J	0.0136			<0.00100		<0.0780	<0.00070	0.174			0.0027 J		
	MW-126A	Apr-15		0.00257	0.0159			0.000604 J		**1.17**	<0.00024	**0.829**			<0.00038		
	MW-126A	Apr-16		0.00221 J	0.0178 J			<0.00270		0.714	<0.00120	**0.820**			0.00299 J		
	MW-126A	Apr-17		0.0016 J	0.0171			<0.002		<0.1	<0.002	**0.880**			0.000761 JB		
	MW-126B	Apr-14		0.00344 J	0.0168			0.00379 J		**1.17**	<0.00070	**0.930**			0.00115 J		
	MW-126B	Apr-15		0.00384	0.0102			0.000682 J		0.032 J	<0.00024	0.0807			0.00222		
	MW-126B	Apr-16		0.0035 J	0.00925			0.00119 J		<0.0150	<0.00024	0.0661			0.00538 JB		
	MW-126B	Apr-17		0.00361	0.0101			<0.002		<0.1	0.000513 J	0.0652			0.00284 JB		
	MW-127	Apr-14		0.004 J	0.191			<0.00100		0.685	<0.00070	0.155			0.00106 J		
	MW-127	Apr-15		0.00374	0.204			0.000841 J		0.486	0.000441 J	0.0919			<0.00038		
	MW-127	Apr-16		0.00441 J	0.115			<0.00270		0.258 J	<0.00120	0.103			0.00298 J		
	MW-127	Apr-17		0.00321	0.0692			<0.002		0.0152 J	<0.002	0.103			0.000512 JB		
	MW-128	Apr-14		**0.0563**	0.0808			<0.00100		**2.92**	<0.00070	**2.29**			<0.00100		
	MW-128	Apr-15		**0.045**	0.0674 J			<0.00054		**2.23**	<0.00024	**2.20**			0.00455 J		
	MW-128	Apr-16		**0.0646**	0.0812			<0.00270		**2.77**	<0.00120	**2.52**			<0.00190		
	MW-128	Apr-17		**0.0464**	0.0573			<0.002		0.0239 J	<0.002	**2.16**			<0.002		
	MW-129	Apr-15		**0.0279**	0.536			<0.00054		**4.93**	<0.00024	**1.11**			<0.00038		
	MW-129	Apr-16		**0.0256**	0.614			<0.00270		**5.58**	<0.00120	**1.17**			0.00253 J		
	MW-129	Apr-17		**0.0152**	0.585			<0.002		<0.1	<0.002	**1.03**			0.000611 JB		
	MW-130	Apr-14		0.00434 J	0.0238			<0.00100		0.0912 J	<0.00070	0.13			0.00713		
	MW-130	Apr-15		0.00464	0.0233			0.00155 J		0.446 J	0.00165 J	0.119			0.00337 J		
	MW-130	Apr-16		0.0045 J	0.0198 J			<0.00270		0.116 J	<0.00120	0.103			0.0126		
	MW-130	Apr-17		0.00386	0.0173			<0.002		<0.1	<0.002	0.0967			0.0164		
	MW-131	Apr-14		**0.0205**	**2.21**			<0.00100		**1.56**	<0.00070	**0.384**			0.00118 J		
	MW-131	Apr-15		**0.0219**	**2.82**			<0.00054		**1.84**	0.000414 J	**0.323**			<0.00038		
	MW-131	Apr-16		**0.0218**	**2.76**			<0.00270		**1.46**	<0.00120	**0.322**			0.00271 J		
	MW-131	Apr-17		**0.0183**	**2.48**			<0.002		<0.1	<0.002	**0.309**			0.000632 JB		
	MW-133	Apr-15		**0.0102**	0.138			<0.00054		**2.59**	0.000513 J	**0.290**			0.00325		
	MW-134	Apr-14		0.00761 J	0.00947 J			<0.00200		<0.156	<0.00140	0.0169			0.00508 J		
	MW-134	Apr-15	FD	0.00571	0.00941			0.00147 J		0.182	<0.00024	0.00509			0.0134		
	MW-134	Apr-15		0.00634 J	0.0115 J			<0.00270		<0.0750	<0.00120	0.00504 J			0.0180		
	MW-134	Apr-16	FD	0.00504 J	0.00916 J			<0.00270		<0.075	<0.00120	0.00888 J			0.00888 J		
	MW-134	Apr-16		0.00551 J	0.0107 J			<0.00270		<0.075	<0.00120	0.00802 J			0.00963 J		
	MW-134	Apr-17	FD	0.00466	0.00895			<0.002		<0.1	<0.002	0.00835			0.00588 B		
	MW-134	Apr-17		0.00441	0.0101			<0.002		<0.1	0.000467 J	0.00881			0.0106		

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

2017 Annual Groundwater Monitoring Report

HollyFrontier Navajo Refining LLC, Artesia Refinery, Artesia, New Mexico

				Analyte Group:	Dissolved Metals													
				Analyte:	Arsenic	Barium	Boron	Cadmium	Chromium	Cobalt	Iron	Lead	Manganese	Mercury	Nickel	Selenium	Uranium	Vanadium
				Units:	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
				CGWSL:	0.010	1.00	0.75	0.005	0.050	0.050	1.00	0.015	0.200	0.002	0.200	0.050	0.030	0.0631
				CGWSL Source:	USEPA MCL	WQCC HH	WQCC Irr	USEPA MCL	WQCC HH	WQCC Irr	WQCC Dom	USEPA MCL	WQCC Dom	USEPA MCL	WQCC Irr	USEPA MCL	WQCC HH	NMED TW
Area	Well ID	Date	Dup															
Field East of Refinery	MW-135	Apr-14		0.00316 J	0.0122			<0.00100		<0.0780	<0.00070	0.0111			0.0349		
	MW-135	Apr-15		0.00291	0.0106			0.000881 J		<0.0150	<0.00024	0.00329 J			0.0345		
	MW-135	Apr-16		0.00339 J	0.0105 J			<0.00270		0.149 J	<0.00120	0.00261 J			0.0244		
	MW-135	Apr-17		0.003	0.00994			0.000633 J		<0.1	0.00027 J	0.000848 JB			0.0402		
	RW-12R	Apr-16		<0.00250	0.0398 J			0.0149 JB		<0.150	0.0031 J	**0.489**			<0.00740		
	RW-12R	Apr-17		0.000617 J	0.041			0.023		<0.1	0.000776 J	**0.425**			0.00072 JB		
	RW-13R	Apr-16		0.0089 J	0.0888			<0.00270		0.47 J	<0.00120	**1.36**			<0.00190		
	RW-18	Apr-13		**<0.0250**	<0.0250			<0.0250		<1.00	**<0.0250**	<0.0250			<0.0250		
	RW-18	Apr-14		0.00353 J	0.0108			<0.00200		<0.156	<0.00140	<0.00500			0.00964 J		
	RW-18	Apr-16		0.00399	0.00975			0.000707 J		<0.0150	<0.00024	0.00112 J			0.00511 B		
	RW-18	Apr-17		0.00331	0.0105			<0.002		0.02 J	<0.002	0.00103 J			0.0034		
	RW-20	Apr-15		0.00171 J	0.464			<0.00054		0.27	<0.00024	**0.717**			0.00488		
	RW-22	Apr-15		<0.00250	0.802			<0.00540		0.394 J	0.00305 J	**0.886**			0.0326		
North Refinery	MW-23	Apr-13		0.0089	**8.59**			<0.00500		<0.200	<0.00500	0.0924			<0.00500		
	MW-23	Apr-14		**0.0101**	**9.40**			<0.00100		<0.0780	0.0107	0.091			<0.00100		
	MW-23	Apr-15		**0.0206**	0.215			0.000653 J		0.156	0.000295 J	**0.203**			0.000997 J		
	MW-23	Apr-16		0.00911	**10.9**			0.000955 J		0.0206 J	0.000319 J	0.0697			0.00164 JB		
	MW-23	Apr-17		0.00644	**9.68**			0.000654 J		<0.1	0.000731 J	0.0673			0.0033		
	MW-29	Apr-14		0.00753	0.0141			<0.00100		0.241	<0.00070	**0.624** J			<0.00100		
	MW-29	Apr-15		0.000886 J	0.0185			<0.00054		<0.0150	<0.00024	**0.378**			0.00432		
	MW-29	Apr-16		<0.00125	0.021 J			<0.00270		0.185 J	<0.00120	**0.487**			<0.00190		
	MW-29	Apr-17		0.000531 J	0.0173			<0.002		<0.1	<0.002	**0.451** V			<0.002		
	MW-39	Apr-15		0.00174 J	0.0226			<0.00054		<0.0150	0.000389 J	0.191			0.00533		
	MW-39	Apr-16		**0.0176**	0.0192 J			<0.00270		<0.075	<0.00120	0.0166 J			0.00222 J		
	MW-39	Apr-17		**0.0134**	0.0206			0.000959 J		<0.1	0.000354 J	0.012			0.00316		
	MW-40	Apr-14		0.00257 J	0.0271			<0.00100		<0.0780	<0.00070	0.0424			0.0027 J		
	MW-40	Apr-15		0.000999 J	0.027			<0.00054		0.2	<0.00024	0.0375			0.000388 J		
	MW-40	Apr-16		0.000937 J	0.0253			<0.00054		<0.0150	<0.00024	0.0214			0.00176 JB		
	MW-40	Apr-17		0.00103 J	0.0255			<0.002		<0.1	<0.002	0.0249			<0.002		
	MW-41	Apr-14		0.0064	0.0141			<0.00100		<0.0780	<0.00070	**0.847**			0.00316 J		
	MW-41	Apr-15		0.00448	0.0152			<0.00054		0.0163 J	<0.00024	**0.791**			<0.00038		
	MW-41	Apr-16		0.00459	0.0177			<0.00054		0.0198 J	<0.00024	**0.740**			0.00129 JB		
	MW-41	Apr-17		0.00393	0.0145			<0.002		<0.1	<0.002	**0.790**			0.00126 J		
	MW-42	Apr-14		**0.0135**	0.027			<0.00100		0.332	<0.00070	0.189			0.00429 J		
	MW-42	Apr-15		0.0074	0.023			0.00079 J		0.142	0.000322 J	0.152			0.000534 J		
	MW-42	Apr-16		0.00492	0.0204			<0.00054		0.0401 J	<0.00024	0.137			0.00121 JB		
	MW-42	Apr-17		0.00487	0.0179			<0.002		0.0328 J	0.000254 J	0.18			0.00156 J		
	MW-43	Apr-14		**0.0102**	0.0931			<0.00100		<0.0780	<0.00070	**0.439**		0.00357 J	<0.00100		0.00397 J
	MW-43	Apr-15		**0.0114**	0.25			<0.00054		<0.0150	<0.00024	**0.374**		0.00384	0.000428 J		0.000695 J
	MW-43	Apr-16		**0.0128**	0.0745	**1.65**	<0.00080	<0.00270	<0.0013	<0.075	<0.00120	**0.290**	<4.9E-05	0.00561 JB	0.0067 J	<0.00165	0.00283 J
	MW-43	Apr-17		**0.0107**	0.0928	**1.20**	<0.001	<0.002	<0.002	0.017 J	<0.002	0.191	<0.0002	0.00955	0.00152 J	<0.01	0.00185 JB
	MW-59	Apr-14		**0.0324**	0.0145			<0.00100		0.152 J	<0.00070	**0.480**			0.00267 J		
	MW-59	Apr-15		**0.0177**	0.0137 J			<0.00054		0.126	<0.00120	**0.427**			0.00859 J		
	MW-59	Apr-16		**0.0145**	0.0221 J			<0.00270		0.121 J	<0.00120	**0.466**			<0.00190		
	MW-59	Apr-17		**0.0260**	0.021			<0.002		0.0343 J	<0.002	**0.468**			0.000557 JB		
	MW-60	Apr-14		0.00796	0.02			<0.00100		0.136 J	<0.00070	**0.334**		<0.00100	0.00214 J		<0.00090
	MW-60	Apr-15	FD	0.0016 J	0.0177			<0.00054		0.127	0.000283 J	**0.349**		0.000977 J			
	MW-60	Apr-15		**0.0171** J	0.026 J			<0.00054		0.116 J	0.000316 J	**0.321**		0.000587 J	0.047 J		0.000471 J
	MW-60	Apr-16	FD	0.00871 J	0.0169 J	0.431	<0.00080	<0.00270	<0.0013	0.17 J	<0.00120	**0.339**	<4.9E-05	<0.00175	<0.00190	0.00239 J	0.00129 J
	MW-60	Apr-16		0.00902 J	0.0184 J	0.439	<0.00080	<0.00270	<0.0013	0.139 J	<0.00120	**0.333**	<4.9E-05	<0.00175	<0.00190	0.00241 J	<0.00090
	MW-60	Apr-17	FD	0.00763	0.0183	0.352	<0.001	<0.002	<0.002	0.027 J	<0.002	**0.308**	<0.0002	<0.002	<0.002	0.00218 J	0.000755 JB
	MW-60	Apr-17		0.00888	0.0171	0.378	<0.001	<0.002	<0.002	0.0207 J	<0.002	**0.310**	<0.0002	<0.002	0.000813 JB	0.00218 J	0.000538 JB
	MW-61	Apr-14		0.00159 J	0.031			<0.00100		<0.0780	0.00173 J	0.0235			<0.00100		
	MW-61	Apr-15		0.00381	0.0442			<0.00054		<0.0150	<0.00024	0.0047 J			0.000496 J		
	MW-61	Apr-16		<0.00125	0.0205 J			<0.00270		0.103 J	<0.00120	0.062			<0.00190		
	MW-61	Apr-17		0.000757 J	0.0204			<0.002		<0.1	0.000747 J	0.0367			0.0188		
	MW-62	Apr-14		0.00406 J	0.0689			<0.00100		<0.0780	<0.00070	0.0039 J			0.00135 J		
	MW-62	Apr-15		**0.0110**	**9.93**			0.000662 J		<0.0150	0.000487 J	0.0688			0.000755 J		
	MW-62	Apr-16		0.00286 J	0.0329			<0.00270		0.152 J	<0.00120	0.00388 JB			0.00392 J		
	MW-62	Apr-17		0.00302	0.0239			<0.002		<0.1	<0.002	0.00371 J			0.0172		
	MW-67	Apr-15		0.00402	0.129			<0.00054		0.0443 J	0.00062 J	0.0816		0.00369	<0.00038		0.000753 J
	MW-67	Apr-16		**0.0110**	0.231	0.458	<0.00080	<0.00270	<0.0013	0.156 J	<0.00120	0.133	<4.9E-05	0.00267 J	0.00609 J	<0.00165	0.002830 J
	MW-67	Apr-17		**0.0163**	0.118	0.436	<0.001	0.000587 J	<0.002	<0.1	0.000542 J	0.091	<0.0002	0.00158 J	0.00205	<0.01	0.000929 JB
	MW-90	Apr-14		0.00379 J	0.0166			<0.00100		<0.0780	0.000729 J	0.0754			<0.00100		
	MW-90	Apr-15		0.00775	0.0207			0.000646 J		0.187	<0.00024	**0.338**			0.00101 J		
	MW-90	Apr-16		0.00739 J	0.0116 J			<0.00270		<0.075	<0.00120	0.158			0.00584 J		
	MW-90	Apr-17		0.00507	0.0148			<0.002		0.0528 J	<0.002	0.144			0.000711 J		
	MW-91	Apr-14		0.00323 J	0.115			<0.00100		<0.0780	0.00144 J	<0.00250			<0.00100		
	MW-91	Apr-15		0.00974	0.0899			<0.00054		0.0216 J	0.00281	0.00489 J			<0.00038		
	MW-91	Apr-16		0.00741 J	0.065 O1			<0.00270		<0.075	0.00386 J	0.00359 J			<0.00740 J3J6		
	MW-91	Apr-17		0.00818	0.0523			<0.00054		<0.015	0.00238	0.00165 J			<0.0038		
	MW-92	Apr-16		0.00285 J	**3.57**			<0.00270		0.217 J	<0.00120	0.0349			<0.00190		
	MW-92	Apr-17		0.00818	0.0523			<0.002		<0.1	0.00238	0.00165 J			<0.002		
	MW-93	Apr-14		0.00718	0.085			0.00207 J		<0.0780	0.00113 J	0.0408			0.00186 J		
	MW-93	Apr-15		**0.0124**	0.0327			0.00341		0.0375 J	0.000293 J	**0.215**			0.00468		
	MW-93	Apr-16		0.01	0.0197			0.00692		0.219	0.000301 J	0.054			0.018		
	MW-93	Apr-17		0.00375	0.021			0.00235		0.0197 J	0.000486 J	0.0255			0.0145		
	MW-94	Apr-16		**0.0163**	0.356			<0.00270		<0.075	<0.00120	0.00601 J			0.0334		
	MW-94	Apr-17		**0.0106**	0.771			0.00124 J		<0.1	0.000343 J	0.00235 J			0.00973		
	MW-95	Apr-14		<0.00100	0.118			<0.00100		<0.0780	<0.00070	0.0413			<0.00100		
	MW-95	Apr-15		0.00134 J	0.0681			<0.00054		0.0255 J	<0.00024	0.0368			<0.00038		
	MW-95	Apr-16		0.00164 J	0.0732			<0.00270		<0.075	<0.00120	0.0269			0.00486 J		
	MW-95	Apr-17		0.00162 J	0.0592			<0.002		<0.1	0.000323 J	0.0285			0.00164 J		
	MW-96	Apr-14		0.00477 J	0.114			<0.00100		<0.0780	<0.00070	<0.00250			<0.00100		
	MW-96	Apr-15		0.00499	0.113			0.000705 J		0.0345 J	<0.00024	0.00338 J			0.000787 J		
	MW-96	Apr-16		0.00429 J	0.141			<0.00270		<0.075	<0.00120	0.00127 J			0.0033 J		
	MW-96	Apr-17		0.00326	0.119			<0.002		<0.1	<0.002	0.00148 J			0.000546 J		
	MW-98	Apr-14	FD	0.00239 J	0.016			0.00142 J		<0.0780	0.00986	0.0274			0.002 J		
	MW-98	Apr-14		0.00226 J	0.0145			<0.00100		<0.0780	0.00912	0.0273			0.00155 J		
	MW-98	Apr-15		0.00139 J	0.0151			<0.00054		<0.0150	0.00908	0.0259			0.000446 J		
	MW-98	Apr-16		0.00153 J	0.0164			0.00107 J		<0.0150	0.00629	0.0222			0.00216 B		
	MW-98	Apr-17		0.00164 J	0.0157			<0.002		<0.1	0.00758	0.0242			<0.002		
	MW-137	Apr-16		**0.0671**	0.0397	**0.76**	<0.000160	0.00081 J	<0.00026	<0.0150	0.00429	0.103	<4.9E-05	0.00729	0.00345 B	<0.00033	0.00646
	MW-137	Apr-17		**0.052**	0.0518	0.7	<0.001	<0.002	<0.002	<0.1	0.00355	0.124	<0.0002	0.0079	0.00196 J	<0.01	0.00537
	MW-138	Apr-16		0.0062	0.169	**1.08**	<0.000160	<0.00054	<0.00026	0.0158 J	<0.00024	0.128	<4.9E-05	0.00484	0.00157 JB	<0.00033	0.00403 J
	MW-138	Apr-17		0.00553	0.129	**0.945**	<0.001	<0.002	<0.002	<0.1	<0.002	0.105	<0.0002	0.00484	0.000432 J	<0.01	0.00246 J
	RW-1	Apr-15		0.00426	0.0301			0.00131 J		0.0744 J	0.000323 J	0.118			0.00136 J		
	RW-1R	Apr-16		0.00435 J	0.0367			<0.00270		**11.3**	<0.00120	**0.301**			<0.00190		
	RW-1R	Apr-17		**0.0234**	0.0229			0.00338		0.184	<0.002	**0.218**			0.00286		
	RW-2	Apr-15		**0.0194**	0.0174			0.00494		0.0471 J	0.000546 J	**0.285**			0.00133 J		
	RW-2R	Apr-16		0.00883 J	0.0206 J			0.004 JB		0.770	<0.00120	0.0466			0.00516 J		
	RW-2R	Apr-17		0.0023	0.053			0.00131 J		0.020 J	0.000647 J	0.0157			0.0364		
	RW-7	Apr-15		0.00249	0.404			0.000879 J		<0.0150	0.000482 J	0.0266			0.0165		
	RW-7R	Apr-16		**0.0136**	0.0303			<0.00270		0.509	<0.00120	**1.25**			0.00396 J		
	RW-7R	Apr-17		0.00273	0.0191			<0.002		0.0228 J	<0.002	**1.12**			0.00142 J		

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

2017 Annual Groundwater Monitoring Report

HollyFrontier Navajo Refining LLC, Artesia Refinery, Artesia, New Mexico

				Analyte Group:	Dissolved Metals														
				Analyte:	Arsenic	Barium	Boron	Cadmium	Chromium	Cobalt	Iron	Lead	Manganese	Mercury	Nickel	Selenium	Uranium	Vanadium
				Units:	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
				CGWSL:	0.010	1.00	0.75	0.005	0.050	0.050	1.00	0.015	0.200	0.002	0.200	0.050	0.030	0.0631
				CGWSL Source:	USEPA MCL	WQCC HH	WQCC Irr	USEPA MCL	WQCC HH	WQCC Irr	WQCC Dom	USEPA MCL	WQCC Dom	USEPA MCL	WQCC Irr	USEPA MCL	WQCC HH	NMED TW
Area	Well ID	Date	Dup															
North Refinery	RW-8	Apr-15		0.00521	0.0797			<0.00054		0.163	0.000591 J	0.0744			<0.00038		
	RW-8	Apr-17		**0.0346**	0.0661			<0.002		**2.13**	<0.002	**1.14**			<0.002		
	RW-9	Apr-14		0.0061	0.0494			<0.00100		<0.0780	<0.00070	**0.404**			0.00393 J		
	RW-9	Apr-15		0.00358	0.0468			<0.00054		0.179	0.000454 J	**0.501**			0.000418 J		
	RW-9	Apr-16		0.00328 J	0.0453			<0.00270		<0.075	<0.00120	**0.397**			<0.00190		
	RW-9	Apr-17		0.00324	0.0415			<0.002		<0.1	0.000371 J	**0.745**			<0.002		
	RW-10	Apr-14		0.00273 J	0.0186			<0.00100		0.132 J	<0.00070	**0.212**			0.00268 J		
	RW-10	Apr-15		0.00177 J	0.0275			<0.00054		0.0573 J	<0.00024	**0.250**			0.00598		
	RW-10	Apr-16		<0.00125	0.0324			<0.00270		0.0776 J	<0.00120	**0.237**			0.0121		
	RW-10	Apr-17		0.0018 J	0.0184			<0.002		<0.1	<0.002	0.18			0.000631 JB		
	RW-16	Apr-14	FD	**0.0127**	0.0141			<0.00100		0.139 J	<0.00070	**0.611**			0.003 J		
	RW-16	Apr-14		**0.0126**	0.0139			<0.00100		0.125 J	<0.00070	**0.601**			0.00304 J		
	RW-16	Apr-15		**0.0133**	0.0143			0.00101 J		0.0234 J	0.000255 J	**0.400**			0.00931		
	RW-16	Apr-16		**0.0122**	0.0126 J			<0.00270		<0.075	<0.00120	**0.379**			0.00842 J		
	RW-16	Apr-17		**0.0133**	0.0126			0.000989 J		<0.1	<0.002	**0.264**			0.00535		
	RW-17	Apr-14		**0.0104**	0.0219			<0.00200		0.540	0.00417 J	**0.743**			<0.00200		
	RW-17	Apr-15		0.00838	0.0211			0.000835 J		<0.0150	0.00228	0.0992			0.0393		
	RW-17	Apr-16		0.00847 J	0.0228 J			<0.00270		<0.075	0.0065 J	**0.652**			0.0133		
	RW-17	Apr-17		**0.0109**	0.0213			<0.002		<0.1	0.00763	**0.711**			0.00945		
North RO Reject Field	MW-117	Apr-14		0.00328 J	<0.000900 B			<0.00100		<0.0780	<0.00070	0.0204			0.00425 J		
	MW-117	Apr-15		0.00241	0.00887			0.000697 J		0.0963 J	<0.00024	0.0016 J			0.0166		
	MW-117	Apr-16		0.0026 J	0.00993 J			<0.00270		<0.075	<0.00120	<0.00125			0.00912 J		
	MW-117	Apr-17		0.0024	0.0095 B			<0.002		<0.1	0.00033 J	0.0026 JB			0.00439		
	MW-118	Apr-14		0.00974	<0.000900 B			<0.00100		<0.0780	<0.00070	0.0121			0.00108 J		
	MW-118	Apr-15		0.00984	0.00952			0.00131 J		0.0698 J	<0.00024	0.00169 J			0.00799		
	MW-118	Apr-16		**0.011**	0.00885 J			<0.00270		<0.075	<0.00120	<0.00125			0.00607 J		
	MW-118	Apr-17		**0.0104**	0.0091 B			<0.002		<0.1	0.000324 J	<0.005			0.0236		
	MW-119	Apr-14	FD	0.00461 J	<0.000900 B			<0.00100		<0.0780	<0.00070	<0.00250			0.00402 J		
	MW-119	Apr-14		0.00468 J	<0.000900 B			<0.00100		<0.0780	<0.00070	<0.00250			0.00393 J		
	MW-119	Apr-15		0.00374	0.00758			0.000834 J		0.262	<0.00024	0.00863			<0.00038		
	MW-119	Apr-16		0.00338 J	0.00748 J			<0.00270		<0.075	<0.00120	<0.00125			0.00271 J		
	MW-119	Apr-17		0.00382	0.0103			<0.002		<0.1	<0.002	0.00177 JB			0.00434		
NCL	MW-18	Apr-14		0.00488 J	0.0183			0.0017 J		<0.0780	0.000942 J	0.011	<4.2E-05	0.00102 J	0.0136		0.0161
	MW-18	Apr-15		0.0035	0.0171			0.00131 J		0.0182 J	<0.00024	0.00643		0.00135 J	0.0129		0.0157
	MW-18	Apr-16		0.00307 J	0.0146 J	**1.35**	<0.00080	<0.00270	<0.0013	<0.075	<0.00120	0.00725 J	<4.9E-05	<0.00175	0.02	**0.0405** J	0.0177 J
	MW-18	Apr-17		0.00373	0.0211	**1.50**	<0.001	0.00176 JB	0.00036 J	<0.1	<0.002	0.00248 J	<0.0002	0.00198 JB	0.0155	0.0242	0.0198
	MW-45	Apr-14		0.00354 J	0.0163			<0.00100		0.690	<0.00070	**0.535**	<4.2E-05	0.00756	0.00198 J		<0.0009
	MW-45	Apr-15		0.00359	0.0174			<0.00054		0.790	<0.00024	**0.526**		0.00635	0.000904 J		0.00028 J
	MW-45	Apr-16		0.00368 J	0.0185 J	0.596	<0.00080	<0.00270	<0.0013	**1.25**	<0.00120	**0.561**	<4.9E-05	0.00391 J	<0.00190	<0.00165	0.0010 J
	MW-45	Apr-17		0.00343	0.0174	0.549	<0.001	<0.002	<0.002	0.153	<0.002	**0.572**	<0.0002	0.00333	0.000382 J	0.0011 J	0.0003 J
	MW-53	Apr-14		0.00316 J	0.0213			<0.00100		<0.0780	<0.00070	**0.532**			0.00135 J		
	MW-53	Apr-15		0.00167 J	0.0212			<0.00054		<0.0150	<0.00024	**0.797**			0.00627		
	MW-53	Apr-16		0.00166 J	0.0246 J			<0.00270		<0.075	<0.00120	**0.605**			0.00498 J		
	MW-53	Apr-17		0.00162 J	0.021			<0.002		<0.1	<0.002	**1.50**			0.00293		
	MW-54A	Apr-14		0.0062	0.0182			<0.00100		<0.0780	<0.00070	**0.491**			0.00228 J		
	MW-54A	Apr-15		0.00289	0.0178			<0.00054		<0.0150	<0.00024	**0.461**			0.0029		
	MW-53	Apr-16		0.00314 J	0.0175 J			<0.00270		0.354 J	<0.00120	**0.477**			<0.00190		
	MW-53	Apr-17		0.00274	0.0164			<0.002		<0.1	<0.002	**0.45**			<0.002		
	MW-54B	Apr-13		<0.00500	0.0157			<0.00500		<0.200	<0.00500	0.138			<0.00500		
	MW-54B	Apr-15		0.00205	0.015			<0.00054		0.0456 J	<0.00024	0.164			0.00289		
	MW-54B	Apr-17		0.00173 J	0.0168			<0.002		<0.1	<0.002	**0.246**			0.000795 J		
	MW-55	Apr-14	FD	0.00659	0.00871			<0.00100		<0.0780	<0.00070	0.0596	<4.2E-05	0.00345 J	0.0272		0.0156
	MW-55	Apr-14		0.00641	0.00965			<0.00100		<0.0780	<0.00070	0.0595	<4.2E-05	0.004 J	0.0253		0.0156
	MW-55	Apr-15		0.00452	0.00832			0.00119 J		<0.0150	<0.00024	0.0421		0.00209	0.023		0.0141
	MW-55	Apr-16		0.00504 J	0.011 J	**1.26**	<0.00080	<0.00270	<0.0013	<0.075	<0.00120	0.0251	<4.9E-05	0.00242 J	0.0134	**0.0445** J	0.0187 J
	MW-55	Apr-17		0.0056	0.0136	**0.756**	<0.001	<0.002	<0.002	<0.1	<0.002	0.0235	<0.0002	0.0054	0.00494	**0.0395**	0.0190
	MW-56	Apr-14		0.00883	0.0136			<0.00100		<0.0780	<0.00070	**0.336**			0.00579		
	MW-56	Apr-15		0.00709	0.0136			<0.00054		<0.0150	0.000483 J	**0.286**			0.00334		
	MW-56	Apr-16		0.00737 J	0.0158 J			<0.00270		0.112 J	0.00132 J	**0.331**			0.00369 J		
	MW-56	Apr-17		0.00665	0.0174			<0.002		<0.1	0.000369 J	**0.339**			0.00306		
	MW-108	Apr-14		0.00326 J	0.0457			0.00207 J		<0.0780	0.000952 J	0.029			<0.00100		
	MW-108	Apr-15		0.00343	0.0299			0.00223		<0.0150	0.00105 J	0.0224			0.0184		
	MW-108	Apr-16		0.00281 J	0.0408			<0.00270		0.154 J	0.00173 J	0.0367			<0.00190		
	MW-108	Apr-17		0.00283	0.0428			0.000655 JB		<0.1	0.000859 J	0.0443			<0.002		
	NCL-31	Apr-14		**0.0112**	0.0194			<0.00100		0.940	<0.00070	**1.59**			<0.00100		
	NCL-31	Apr-15		0.00908	0.0141			<0.00054		0.731	0.000439 J	**1.59**			0.00311		
	NCL-31	Apr-16		0.00599 J	0.0178 J			<0.00270		0.866	<0.00120	**1.90**			<0.00190		
	NCL-31	Apr-17		0.00727	0.017			<0.002		<0.1	<0.002	**2.35**			0.000414 J		
	NCL-32	Apr-15		0.00262	0.0355			0.0012 J		0.42	0.000769 J	**0.878**			<0.00038		
	NCL-32	Apr-16		0.00412 J	0.0632			0.00772 J		**1.65**	0.00736 J	**1.32**			<0.00190		
	NCL-32	Apr-17		0.00306	0.019			<0.002		<0.1	<0.002	**0.994**			0.00116 J		
	NCL-33	Apr-14		0.00264 J	0.0247			<0.00100		**2.68**	<0.00070	0.0855			0.00104 J		
	NCL-33	Apr-15		0.00311	0.0223			<0.00054		**1.49**	<0.00024	0.104			0.000538 J		
	NCL-33	Apr-16		0.00228 J	0.0202 J			<0.00270		0.134 J	<0.00120	0.146			0.0156		
	NCL-33	Apr-17		0.00153 J	0.0217			<0.002		0.0173 J	<0.002	0.141			0.000812 J		
	NCL-34A	Apr-15		0.000947 J	0.492			<0.00054		<0.0150	<0.00024	0.0338			<0.00038		
	NCL-34A	Apr-16		<0.00125	0.616			<0.00270		<0.075	<0.00120	0.0172 J			0.00268 J		
	NCL-34A	Apr-17		0.000865 J	0.493			<0.002		<0.1	<0.002	0.0171			0.000444 J		
	NCL-44	Apr-14		**0.0372**	0.0289			<0.00100		**1.21**	<0.00070	**0.661**			<0.00100		
	NCL-44	Apr-15		**0.0536**	0.0256			<0.00054		**1.37**	<0.00024	**0.663**			<0.00038		
	NCL-44	Apr-16		**0.0362**	0.0257			<0.00270		**1.33**	<0.00120	**0.938**			<0.00190		
	NCL-44	Apr-17		**0.0279**	0.0281			<0.002		0.0169 J	<0.002	**0.895**			<0.002		
	NCL-49	Apr-14		0.00338 J	0.0112			<0.00100		<0.0780	<0.00070	<0.00250			0.00503		
	NCL-49	Apr-15	FD	0.00152 J	0.0102			<0.00054		<0.0150	<0.00024	<0.000250			0.00364		
	NCL-49	Apr-15		0.00145 J	0.0104			<0.00054		0.0227 J	<0.00024	0.000312 J			0.00471		
	NCL-49	Apr-16	FD	0.00155 J	0.0143 J			<0.00270		<0.075	<0.00120	<0.00125			0.00471 J		
	NCL-49	Apr-16		0.00163 J	0.0136 J			<0.00270		0.204 J	<0.00120	0.00168 J			0.00498 J		
	NCL-49	Apr-17	FD	0.00145 J	0.0133			<0.002		<0.1	<0.002	<0.005			0.00921		
	NCL-49	Apr-17		0.00143 J	0.0123			<0.002		<0.1	<0.002	<0.005			0.00904		
South Refinery	KWB-2R	Apr-15		0.00249	0.273			<0.00054		0.216	0.000989 J	**0.419**			0.000612 J		
	KWB-2R	Apr-16		0.00506 J	0.0278			<0.00270		**1.17**	<0.00120	**0.863**			<0.00190		
	KWB-2R	Apr-17		0.00326	0.0234			<0.002		0.517	0.000733 J	**0.665**			<0.002		
	KWB-5	Apr-15		**0.0227**	**3.64**			<0.00054		**3.64**	0.000353 J	**1.74**			<0.00038		
	KWB-5	Apr-16		**0.0237**	**3.61**			<0.00270		**4.22**	<0.00120	**1.85**			<0.00190		
	KWB-5	Apr-17		**0.0214**	**3.27**			<0.002		<0.1	<0.002	**1.89**			0.000873 J		
	KWB-6	Apr-15		0.00581	0.293			<0.00054		0.629	0.00116 J	**2.18**			<0.00038		
	KWB-6	Apr-16		0.00454	0.245			<0.00054		0.332	0.000729 J	**2.13**			0.00226 B		
	KWB-6	Apr-17		0.00449	0.14			<0.002		<0.1	<0.002	**1.98**			0.00045 J		
	MW-28	Apr-14		0.00396 J	0.131			<0.00100		<0.0780	0.00126 J	0.0374	<4.2E-05	0.00839	<0.00100		<0.0009
	MW-28	Apr-15		**0.013** J	0.0644 J			0.000923 J		0.0283 J	0.012	0.0647		0.00417	**0.0699** J		0.00527
	MW-28	Apr-16		**0.0116**	0.0685	**1.15**	<0.00080	<0.00270	<0.0013	<0.075	0.00812 J	0.0342	<4.9E-05	0.00599 J	<0.00190	<0.00165	0.00371 J
	MW-28	Apr-17		**0.0137**	0.0543	**1.38**	<0.001	<0.002	<0.002	<0.1	0.00539	0.0603	<0.0002	0.00259	0.000569 J	0.000332 J	0.00198 J

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

2017 Annual Groundwater Monitoring Report

HollyFrontier Navajo Refining LLC, Artesia Refinery, Artesia, New Mexico

Area	Well ID	Date	Dup	Arsenic	Barium	Boron	Cadmium	Chromium	Cobalt	Iron	Lead	Manganese	Mercury	Nickel	Selenium	Uranium	Vanadium
Analyte Group:				Dissolved Metals													
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:				0.010	1.00	0.75	0.005	0.050	0.050	1.00	0.015	0.200	0.002	0.200	0.050	0.030	0.0631
CGWSL Source:				USEPA MCL	WQCC HH	WQCC Irr	USEPA MCL	WQCC HH	WQCC Irr	WQCC Dom	USEPA MCL	WQCC Dom	USEPA MCL	WQCC Irr	USEPA MCL	WQCC HH	NMED TW
South Refinery	MW-48	Apr-15		0.00412	0.58 J			0.000777 J		0.255	0.00139 J	**0.242** J			0.00302 J		
	MW-48	Apr-16		0.00857 J	**2.64**			<0.00270		<0.075	0.00134 J	**0.402**			0.00321 J		
	MW-48	Apr-17		0.00737	**2.54**			0.000562 J		<0.1	0.000434 J	**0.214**			**0.0553**		
	MW-50	Apr-14		<0.00100	0.0202			<0.00100		<0.0780	0.00077 J	**1.38**			<0.00100		
	MW-50	Apr-15		0.00146 J	0.0223			<0.00054		0.0396 J	0.00067 J	**1.62**			<0.00038		
	MW-50	Apr-16		0.00273 J	0.0143 J			<0.00270		0.104 J	<0.00120	**0.276**			**0.0837**		
	MW-50	Apr-17		0.00213	0.013			<0.002		<0.1	<0.002	**0.549**			0.0427		
	MW-52	Apr-14	FD	0.00352 J	0.00895			<0.00100		<0.0780	<0.00070	0.0339	<4.2E-05	0.00416 J	0.00225 J		0.025
	MW-52	Apr-14		0.00375 J	0.00869			<0.00100		<0.0780	<0.00070	0.0328	<4.2E-05	0.00448 J	0.00265 J		0.0256
	MW-52	Apr-15		0.00397	0.00909			<0.00054		<0.0150	<0.00024	0.0341		0.00635	0.00124 J		0.0268
	MW-52	Apr-16		0.0037 J	0.00904 J	0.749	<0.00080	<0.00270	<0.0013	<0.075	<0.00120	0.035	<4.9E-05	0.00641 J	<0.00190	0.00809 J	0.026
	MW-52	Apr-17		0.00361	0.0106	0.639	<0.001	<0.002	0.00038 J	<0.1	<0.002	0.042	<0.0002	0.00519	0.00222 B	0.00963 J	0.0269
	MW-64	Apr-16		**0.0321**	**2.24**			<0.00270		<0.075	<0.00120	0.0624			0.00232 J		
	MW-64	Apr-17		**0.0382**	**1.88**			<0.002		<0.1	<0.002	0.0479			0.000431 J		
	MW-65	Apr-15		**0.0202**	**3.38**			<0.00054		**2.64**	0.000681 J	**0.814**			0.000425 J		
	MW-65	Apr-16		**0.0128**	**3.3**			<0.00270		**2.03**	<0.00120	**0.750**			0.00698 J		
	MW-65	Apr-17		**0.0107**	**2.81**			<0.002		0.124	<0.002	**0.547**			<0.002		
	MW-66	Apr-14		0.00139 J	**1.47**			<0.00100		0.48 J	<0.00070	**0.294**	<4.2E-05	0.00861	<0.00100		<0.00090
	MW-66	Apr-15		0.00297	**2.17**			<0.00054		0.549	<0.00024	**0.201**		0.00565	<0.00038		0.000494 J
	MW-66	Apr-16		0.00279 J	**2.37**	0.321	<0.00080	<0.00270	<0.0013	0.715	<0.00120	**0.224**	<4.9E-05	0.00421 J	<0.00190	<0.00165	0.00166 J
	MW-66	Apr-17		0.0024	**2.49**	0.287	<0.001	<0.002	<0.002	0.117	<0.002	**0.202**	<0.0002	0.00386	<0.002	<0.01	0.000408 J
	MW-99	Apr-15		0.00305	0.155			<0.00054		0.317	0.002 J	0.0828			0.000714 J		
	MW-99	Apr-16		0.00883 J	0.981			<0.00270		<0.075	<0.00120	**0.236**			<0.00190		
	MW-99	Apr-17		0.00811	0.339			<0.002		<0.1	<0.002	**0.262**			0.000416 J		
	MW-101	Apr-14		**0.0378** J	0.0718			0.00404 J		**1.64** J	<0.00070	**1.16**			<0.00100		
	MW-101	Apr-15		**0.0767**	0.0565			<0.00054		**2.20**	<0.00024	**1.13**			0.000395 J		
	MW-101	Apr-16		**0.021**	0.0758			0.000621 J		**1.11**	<0.00024	**1.09**			0.00105 JB		
	MW-101	Apr-17		**0.0509**	0.0725			<0.002		0.0151 J	<0.002	**1.14**			<0.002		
	MW-102	Apr-15		**0.0102**	**6.52**			<0.00054		0.078 J	0.00273	0.0433			0.0031		
	MW-102	Apr-16		**0.0109**	**7.68**			<0.00270		0.100 J	0.00205 J	0.0321			0.00549 J		
	MW-102	Apr-17		**0.0130**	**5.01**			0.000792 J		0.0205 J	0.00177 J	0.0252			0.000638 J		
	MW-103	Apr-14		<0.00100	0.988			<0.00100		<0.0780	0.00106 J	<0.00250			<0.00100		
	MW-103	Apr-15		0.00491	**8.03**			<0.00054		<0.0150	0.000809 J	0.00848			0.000642 J		
	MW-103	Apr-16		0.00489 J	**21.4**			<0.00270		<0.075	<0.00120	0.0227 J			<0.00190		
	MW-103	Apr-17		0.00797	**6.62**			<0.002		<0.1	**<0.2**	0.00621			<0.002		
	MW-104	Apr-14	FD	<0.00100	0.019			<0.00100		<0.0780	<0.00070	0.0215			<0.00100		
	MW-104	Apr-14		<0.00100	0.0195			<0.00100		<0.0780	<0.00070	0.0236			<0.00100		
	MW-104	Apr-15	FD	0.000422 J	0.0182			<0.00054		<0.0150	<0.00024	0.0213			<0.00038		
	MW-104	Apr-15		0.000481 J	0.0212			<0.00054		0.0279 J	<0.00024	0.0222			0.000603 J		
	MW-104	Apr-16	FD	0.00158 J	0.0241			0.000672 J		<0.0150	<0.00024	0.00789			0.00352 B		
	MW-104	Apr-16		0.00181 J	0.0242			0.000747 J		<0.0150	0.00482	0.00779			**0.156** O1		
	MW-104	Apr-17	FD	**0.0578**	0.0448			<0.002		<0.1	<0.002	0.000952 J		<0.002			
	MW-104	Apr-17		**0.054**	0.044			<0.002		<0.1	<0.002	0.00112 J		<0.002			
	MW-105	Apr-15		0.00829	0.114			0.000786 J		**2.07**	0.00032 J	0.111			0.00103 J		
	MW-105	Apr-16		**0.0139**	**1.22**			<0.00270		<0.075	<0.00120	0.188			0.00327 J		
	MW-105	Apr-17		**0.0142**	**2.85**			0.00138 J		0.0193 J	0.000346 J	0.0622			**0.0563**		
	MW-106	Apr-14		0.0092	0.0328			0.00126 J		<0.0780	0.00309 J	0.0125			0.00137 J		
	MW-106	Apr-15		0.00361	0.0936			<0.00054		0.172	0.00129 J	0.146			0.00795		
	MW-106	Apr-16		**0.0112**	0.0323			<0.00270		<0.075	0.00207 J	0.00654 J			0.0103		
	MW-106	Apr-17		**0.012**	0.0269			0.00107 J		<0.1	0.0011	0.00711			0.000512 J		
	MW-107	Apr-14		0.00681	**2.58**			<0.00100		**10.8**	<0.00070	**0.289**			<0.00100		
	MW-107	Apr-15		0.01	**1.53** J			0.000581 J		0.59	<0.00120	0.15			0.00457 J		
	MW-107	Apr-16		0.00187 J	**2.06**			<0.00270		0.278 J	<0.00120	0.0956			<0.00190		
	MW-107	Apr-17		0.00128 J	**2.01**			<0.002		0.0388 J	<0.002	0.107			<0.002		
	MW-109	Apr-14		**0.0226**	0.396			<0.00100		0.603	<0.00070	**0.332**			0.00138 J		
	MW-109	Apr-15		0.00369	0.0313			<0.00054		0.155	<0.00024	0.162 J			0.00235 J		
	MW-109	Apr-16		0.00707 J	0.0472			<0.00270		0.0876 J	<0.00120	0.147			<0.00190		
	MW-109	Apr-17		0.00306	0.0336			<0.002		<0.1	<0.002	0.0728			0.000878 JB		
	MW-110	Apr-14		**0.0307**	0.0633			<0.00100		**1.08**	<0.00070	**1.60**			0.00133 J		
	MW-110	Apr-15		0.00892	0.0573			<0.00054		0.117	<0.00024	**0.667**					
	MW-110	Apr-16		**0.0178**	0.0519			<0.00270		0.33 J	<0.00120	**1.25**			<0.00190		
	MW-110	Apr-17		0.00401	0.0567			<0.002		0.0716 J	<0.002	**0.545**			0.000559 JB		
	RW-4	Apr-15		0.00189 J	0.0573			<0.00054		0.0571 J	<0.00024	0.11			0.000503 J		
	RW-4R	Apr-16		0.00323 J	0.0564			<0.00270		0.119 J	<0.00120	0.0702			0.00236 J		
	RW-4R	Apr-17		0.00381	0.0709			0.00069 J		<0.1	<0.002	0.0245 O1			<0.002		
	RW-5R	Apr-15		0.00136 J	0.0275			<0.00054		0.0247 J	<0.00024	0.0167			<0.00038		
	RW-5R	Apr-16		0.00182 J	0.0307			<0.00270		0.146 J	<0.00120	0.0193 J			0.00542 J		
	RW-6	Apr-15		**0.0354**	0.857			0.000677 J		**17.5**	0.00129 J	**0.284**			<0.00038		
	RW-6R	Apr-16		**0.0615**	0.384			<0.00270		**3.37**	<0.00120	**0.537**			0.00213 J		
	RW-15	Apr-17		**0.0306**	0.896			<0.002		0.137	0.000501 J	**0.376**			<0.002		
South RO Reject Field	MW-114	Apr-14		0.00297 J	0.0136			<0.00100		<0.0780	<0.00070	**1.13**			<0.00100		
	MW-114	Apr-15		0.00273	0.0127 J			<0.00054		<0.0150	<0.00024	**0.894**			0.0018 J		
	MW-114	Apr-16		0.00298 J	0.0148 J			<0.00270		<0.075	<0.00120	**1.00**			<0.00190		
	MW-114	Apr-17		0.00252	0.0147			<0.002		<0.1	<0.002	**1.01**			0.00152 JB		
	MW-115	Apr-14		0.00368 J	0.0087			<0.00100		<0.0780	<0.00070	0.0216			0.00166 J		
	MW-115	Apr-15		0.00797 J	0.00965 J			0.000735 J		0.0283 J	<0.00024	0.102			0.00313		
	MW-115	Apr-16		0.00477 J	0.00839 J			<0.00270		<0.075	<0.00120	0.06			<0.00190		
	MW-115	Apr-17		0.00303	0.00816			<0.002		<0.1	<0.002	0.0436			0.00108 JB		
	MW-116	Apr-14		0.00348 J	0.0095			<0.00100		<0.0780	<0.00070	<0.00250			0.00563		
	MW-116	Apr-15		0.00507	0.00904 J			0.000586 J		<0.0150	<0.00024	0.00316 J			0.00417 J		
	MW-116	Apr-16		0.00339 J	0.00902 J			<0.00270		<0.075	<0.00120	0.00791 J			0.00564 J		
	MW-116	Apr-17		0.00347	0.008 B			<0.002		<0.1	<0.002	0.0449			<0.002		
TEL	MW-49	Apr-14		0.0046 J	0.0376			<0.00100		<0.0780	<0.00070	**0.333**	<4.2E-05	0.00825	<0.00100		<0.00090
	MW-49	Apr-15		0.00329	0.0394			<0.00054		0.0291 J	0.000467 J	**0.240**		0.00656	0.00302 J		0.000493 J
	MW-49	Apr-16		0.00578 J	0.0492	0.708	<0.00080	<0.00270	<0.0013	<0.075	<0.00120	**0.300**	<4.9E-05	0.00842 J	<0.00190	<0.00165	0.00123 J
	MW-49	Apr-17		0.00441	0.0471	0.591	<0.001	<0.002	<0.002	0.0602 J	<0.002	**0.248**	<0.0002	0.00535	<0.002	<0.01	0.000883 J
	TEL-1	Apr-14	FD	0.00428 J	0.0131 J			<0.00100		<0.0780	<0.00070	0.0909 J			0.0011 J		
	TEL-1	Apr-14		0.004 J	0.0127			<0.00100		<0.0780	<0.00070	0.0837			<0.00100		
	TEL-1	Apr-15		0.0048	0.0113			0.00301		0.0488 J	<0.00120	0.052			0.00161 J		
	TEL-1	Apr-16		0.00441 J	0.0119 J			0.014		0.075 J	<0.00120	**0.204**			<0.00190		
	TEL-1	Apr-17		0.00533	0.013			0.00782		0.0488 J	<0.002	0.125			<0.002		
	TEL-2	Apr-14		**0.0119**	0.0745			<0.00100		<0.0780	0.00246 J	0.0107			<0.00100		
	TEL-2	Apr-15		**0.0173**	0.0887			0.00111 J		0.0269 J	0.00254	0.00915			0.0136		
	TEL-2	Apr-16		**0.012**	0.0483			<0.00270		<0.075	0.00137 J	0.0224 J			<0.00190		
	TEL-2	Apr-17		**0.0124**	0.0717			0.001 JB		<0.1	0.00148 J	0.015			<0.002		
	TEL-3	Apr-14		0.00303 J	0.0129			0.00193 J		<0.0780	<0.00070	0.0105			<0.00100		
	TEL-3	Apr-15		0.00639	0.0123			0.00235		0.0316 J	0.000406 J	0.00717			0.0219		
	TEL-3	Apr-16		0.00979 J	0.0234 J			0.0035 J		<0.075	<0.00120	0.00813 J			<0.00190		
	TEL-3	Apr-17		0.00225	0.0173			0.00158 JB		<0.1	<0.002	0.0115			<0.002		

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

2017 Annual Groundwater Monitoring Report

HollyFrontier Navajo Refining LLC, Artesia Refinery, Artesia, New Mexico

Area	Well ID	Date	Dup	Analyte Group: Dissolved Metals														
				Analyte:	Arsenic	Barium	Boron	Cadmium	Chromium	Cobalt	Iron	Lead	Manganese	Mercury	Nickel	Selenium	Uranium	Vanadium
				Units:	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
				CGWSL:	0.010	1.00	0.75	0.005	0.050	0.050	1.00	0.015	0.200	0.002	0.200	0.050	0.030	0.0631
				CGWSL Source:	USEPA MCL	WQCC HH	WQCC Irr	USEPA MCL	WQCC HH	WQCC Irr	WQCC Dom	USEPA MCL	WQCC Dom	USEPA MCL	WQCC Irr	USEPA MCL	WQCC HH	NMED TW
TEL	TEL-4	Apr-14		**0.0125**	0.0349			0.00884		<0.0780	0.00196 J	**0.444**			<0.00100		
	TEL-4	Apr-15	FD	0.00568	0.022			0.0298		0.149	0.00143 J	**0.835**			<0.00038		
	TEL-4	Apr-15		0.00563	0.0208			0.0139		0.0279 J	0.00114 J	**0.792**			0.000882 J		
	TEL-4	Apr-16	FD	0.00836 J	0.0249 J			0.0272		<0.075	0.00377 J	**0.808**			<0.00190		
	TEL-4	Apr-16		0.00738 J	0.0263			0.0266		<0.075	0.00351 J	**0.776**			<0.00190		
	TEL-4	Apr-17	FD	0.00692	0.0199			0.0101		<0.1	0.00051 J	**1.07**			0.000522 J		
	TEL-4	Apr-17		0.0066	0.0188			0.0114		<0.1	0.000416 J	**1.04**			0.000623 J		
TMD	MW-8	Apr-13		<0.0100	0.0114			<0.0100		<0.400	<0.0100	**0.584**			0.0213		
	MW-8	Apr-14		0.00898	0.0116			<0.00100		<0.0780	<0.00070	**0.587**			0.0295		
	MW-8	Apr-15		0.00679	0.01			0.000644 J		<0.0150	<0.00024	**0.464**			0.0174		
	MW-8	Apr-17		0.00606	0.0119			<0.002		<0.1	<0.002	**0.494**			0.00637		
	MW-16	Apr-13		<0.0100	0.0167			<0.0100		<0.400	<0.0100	0.0509			<0.0100		
	MW-16	Apr-14		0.00546	0.0144			<0.00100		<0.0780	<0.00070	0.125			<0.00100		
	MW-16	Apr-15		0.00465 J	0.0151 J			<0.00270		<0.0750	<0.00120	0.0513			0.00213 J		
	MW-16	Apr-17		0.00513	0.0164			<0.002		0.0333 J	<0.002	0.00335 J			0.0116		
	MW-20	Apr-14	FD	0.00848	0.0103			<0.00100		<0.0780	<0.00070	0.0647			0.022		
	MW-20	Apr-14		0.00931	0.00977			<0.00100		<0.0780	<0.00070	0.0645			0.0205		
	MW-20	Apr-15		0.00586	0.00926			<0.00054		0.0359 J	<0.00024	0.00169 J			0.0254		
	MW-20	Apr-16		0.00646 J	0.0112 J			<0.00270		<0.075	<0.00120	0.00432 J			0.0266		
	MW-20	Apr-17		0.00614	0.0124			<0.002		<0.1	<0.002	0.00845			0.0192		
	MW-21	Apr-13		<0.0100	<0.0100			<0.0100		<0.400	<0.0100	**0.272**			0.0319		
	MW-21	Apr-14		0.00845	0.00996			<0.00100		<0.0780	<0.00070	**0.422**			0.0368		
	MW-21	Apr-15		0.00681 J	0.00852 J			<0.00270		<0.0750	<0.00120	**0.252**			0.0269		
	MW-21	Apr-17		0.00536	0.00969			<0.002		<0.1	<0.002	0.191			0.0266		
	MW-25	Apr-14		0.00575 J	0.0277			<0.00200		<0.156	<0.00140	0.121			0.00885 J		
	MW-25	Apr-15		**0.0104**	0.0196 J			<0.00270		<0.0750	<0.00120	**0.218**			0.0204		
	MW-25	Apr-16		0.00646 J	0.0161 J			<0.00270		<0.075	<0.00120	**0.319** V			0.00234 J		
	MW-25	Apr-17		0.00306	0.0129			<0.002		<0.1	<0.002	**0.290**			0.00234		
	MW-26	Apr-14		0.00617 J	0.00866 J			<0.00200		<0.156	<0.00140	**0.520**			0.0309		
	MW-26	Apr-15		0.00338	0.00842			<0.00054		<0.0150	<0.00024	**0.470**			0.0184		
	MW-26	Apr-16		0.00363 J	0.00913 J			<0.00270		<0.075	<0.00120	**0.534**			0.0186		
	MW-26	Apr-17		0.0033	0.00987			<0.002		0.0359 J	<0.002	**0.635**			0.0251		
	MW-27	Apr-14		0.00355 J	0.015			<0.00100		<0.0780	<0.00070	0.00617			0.0193		
	MW-27	Apr-15		0.00259	0.0218			<0.00054		<0.0150	<0.00024	0.029			0.0173		
	MW-27	Apr-16		0.00249 J	0.0185 J			<0.00270		<0.075	<0.00120	0.0164 J			0.0132		
	MW-27	Apr-17		0.00212	0.0182			<0.002		<0.1	0.000708 J	0.0173			0.00708		
	MW-46R	Apr-13		<0.00500	0.0121			<0.00500		<0.200	<0.00500	0.0424			0.006		
	MW-46R	Apr-14		0.00348 J	0.012			<0.00100		0.0908 J	<0.00070	0.0925			0.00666		
	MW-46R	Apr-15		0.00293	0.0127			<0.00054		0.0873 J	<0.00024	0.102			0.00102 J		
	MW-46R	Apr-17		0.00247	0.0124			<0.002		<0.1	<0.002	0.131			0.00193 J		
	MW-68	Apr-14		0.00413 J	0.0135			<0.00100		<0.0780	<0.00070	<0.00250			0.0302		
	MW-68	Apr-15		0.00272	0.0154			<0.00054		0.0904 J	<0.00024	0.00126 J			0.0115		
	MW-68	Apr-16		0.00267 J	0.0122 J			<0.00270		<0.075	<0.00120	0.0388			0.002 J		
	MW-68	Apr-17		0.0025	0.0125			<0.002		<0.1	<0.002	0.0929			0.00331		
	MW-71	Apr-14		0.00573	0.0102			<0.00100		<0.0780	<0.00070	<0.00250	<4.2E-05	0.00155 J	0.0499		0.0255
	MW-71	Apr-15		0.00387	0.00817			<0.00054		<0.0150	<0.00024	0.000487 J		0.00116 J	0.0336		0.0215
	MW-71	Apr-16		0.00436 J	0.00939 J	0.649	<0.00080	<0.00270	<0.0013	<0.075	<0.00120	<0.00125	<4.9E-05	<0.00175	0.0345	**0.0588**	0.0244 J
	MW-71	Apr-17		0.00408	0.00978	0.606	<0.001	<0.002	<0.002	<0.1	<0.002	0.000265 J	<0.0002	0.000892 J	0.0331	**0.0617**	0.026
	MW-89	Apr-14		0.00959	0.0135			<0.00100		<0.0780	<0.00070	**0.528**			0.0182		
	MW-89	Apr-15		0.00928 J	0.0167 J			<0.00270		<0.0750	<0.00120	0.0732			0.0291		
	MW-89	Apr-16		0.0078 J	0.0143 J			<0.00270		0.165 J	<0.00120	0.0917			0.0332		
	MW-89	Apr-17		0.00684	0.016			<0.002		<0.1	<0.002	0.0452			**0.0559**		
Up-Gradient	UG-1	Apr-14		0.00288 J	0.012			0.00187 J		<0.0780	<0.00070	<0.00250	<4.2E-05	<0.00100	0.00635		0.0107
	UG-1	Apr-15		0.00124 J	0.0133			0.000833 J		<0.0150	<0.00024	0.000689 J		0.00139 J	0.0101 J		0.0109
	UG-1	Apr-16		<0.00125	0.0144 J	0.525	<0.00080	<0.00270	<0.00130	<0.075	<0.00120	<0.00125	<4.9E-05	0.00179 J	0.0133	0.0264 J	0.0114 J
	UG-1	Apr-17		0.00113 J	0.0118	0.502	<0.001	0.000688 J	<0.002	<0.1	<0.002	0.00476	<0.0002	0.00225	0.00938	0.0273	0.012
	UG-2	Apr-14		0.00625	0.0147			<0.00100		0.334	<0.00070	**0.346**	<4.2E-05	0.0537	0.00369 J		0.0142
	UG-2	Apr-15		0.00205	0.015			<0.00054		<0.0150	<0.00024	0.00934		0.00543	0.00373 J		0.0116
	UG-2	Apr-16		0.00226 J	0.0153 J	0.315	<0.00080	<0.00270	<0.00130	<0.075	<0.00120	0.0142 J	<4.9E-05	0.00595 J	0.00342 J	0.0156 J	0.0129 J
	UG-2	Apr-17		0.00206	0.0137	0.265	<0.001	<0.002	<0.002	<0.1	<0.002	0.0039	<0.0002	0.00342	0.00522	0.0155	0.0159
	UG-3R	Apr-14	FD	0.0031 J	0.0172			<0.00100		<0.0780	<0.00070	<0.00250	<4.2E-05	<0.00100	0.0046 J		0.00834
	UG-3R	Apr-14		0.00253 J	0.0175			<0.00100		<0.0780	<0.00070	<0.00250	<4.2E-05	<0.00100	0.00422 J		0.00799
	UG-3R	Apr-15		0.00157 J	0.0193			<0.00054		0.0534 J	<0.00024	0.00492 J		0.00114 J	0.00375 J		0.00934
	UG-3R	Apr-16		0.00171 J	0.0187 J	0.278	<0.00080	<0.00270	<0.00130	<0.075	<0.00120	0.00182 J	<4.9E-05	<0.00175	0.00406 J	0.0126 J	0.0102 J
	UG-3R	Apr-17		0.00165 J	0.0167	0.219	<0.001	0.000573 J	0.00042 J	<0.1	<0.002	0.00217	<0.0002	0.00316	0.00371	0.0132	0.00992
	UG-4	Apr-16		0.00144 J	0.021 J	**1.21**	<0.00080	<0.00270	<0.00130	<0.075	<0.00120	<0.00125	<4.9E-05	<0.00175	0.00673 J	**0.0365** J	0.00794 J
	UG-4	Apr-17		0.00103 J	0.0149	**0.958** O1V	<0.001	<0.002	<0.002	<0.1	<0.002	0.0062	<0.0002	0.00255	0.0142	**0.0373**	0.00736

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, March 2017, Table A-1, Tap Water Screening Level
WQCC Dom	NMED Groundwater standard for domestic exposure taken from 20.6.2.3103.B NMAC
WQCC HH	NMED Groundwater standard for human health exposure, 20.6.2.3103.A NMAC
WQCC Irr	NMED Groundwater standard for irrigation exposure, 20.6.2.3103.C NMAC
USEPA MCL	United States Environmental Protection Agency Maximum Contaminant Level, "Regional Screening Levels (RSL) Summary Table", November 2017

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.
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.

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

2017 Annual Groundwater Monitoring Report

HollyFrontier Navajo Refining LLC, Artesia Refinery, Artesia, New Mexico

				Analyte Group:	Volatile Organic Compounds											
				Analyte:	1,1,1-Tri-chloroethane	1,1,2,2-Tetra-chloroethane	1,1,2-Tri-chloroethane	1,1-Dichloro-ethane	1,1-Dichloro-ethene	1,2,4-Trimethyl-benzene	1,2-Dibromo-ethane	1,2-Dichloro-ethane	1,2-Dichloro-propane	1,3,5-Trimethyl-benzene	2-Butanone	2-Phenyl-butane
				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:	0.06	0.01	0.005	0.025	0.007	0.015	0.00005	0.005	0.005	0.12	5.56	---
				CGWSL Source:	WQCC HH	WQCC HH	USEPA MCL	WQCC HH	USEPA MCL	USEPA TW	USEPA MCL	USEPA MCL	USEPA MCL	USEPA TW	NMED TW	
Area	**Well ID**	**Date**	**Dup**													
Cross-Gradient	KWB-13	Apr-14		<0.000500	<0.000500	<0.000500	<0.000400	<0.000500	<0.00050	**<0.000400**	<0.000500	<0.000700	<0.000600	<0.00100	
	KWB-13	Apr-15		<0.000319	<0.000130	<0.000380	<0.000260	<0.000400	0.00302	**<0.000380**	<0.000360	<0.000310	0.000456 J	<0.00390	<0.000360
	KWB-13	Apr-16		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365
	KWB-13	Apr-17		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365
	MW-17	Apr-14														
	NP-5	Apr-13		<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	**<0.00500**	<0.00500	<0.00500	<0.00500	<0.0100	<0.00500
	NP-5	Apr-15		<0.000319	<0.000130	<0.000380	<0.000260	<0.000400	0.000804 J	**<0.000380**	<0.000360	<0.000310	<0.000390	<0.00390	<0.000360
	NP-5	Apr-17		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365
	RA-3156	Nov-13		<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	**<0.00500**	<0.00500	<0.00500	<0.00500	<0.0100	<0.00500
	RA-3156	Apr-14		<0.000500	<0.000500	<0.000500	<0.000400	<0.000500	<0.00050	**<0.000400**	<0.000500	<0.000700	<0.000600	<0.00100	
	RA-3156	Apr-16		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365
	RA-3156	Apr-17		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365
	MW-136	Oct-15		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365
	MW-136	Apr-16		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365
	MW-136	Oct-16		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365
	MW-136	Apr-17		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365
	MW-136	Oct-17		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365
Evaporation Ponds	MW-1R	Apr-14		<0.000500	<0.000500	<0.000500	<0.000400	<0.000500	<0.00050	**<0.000400**	<0.000500	<0.000700	<0.000600	<0.00100	
	MW-1R	Apr-15		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000360
	MW-1R	Apr-16		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365
	MW-1R	Apr-17		<0.000319	<0.000130	<0.000383 J4	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365
	MW-2A	Apr-15		<0.000319	<0.000130	<0.000380	<0.000260	<0.000400	<0.000370	**<0.000380**	<0.000360	<0.000310	<0.000390	<0.00390	<0.000360
	MW-2A	Oct-15		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365
	MW-2A	Apr-16		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365
	MW-2A	Oct-16		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365
	MW-2A	Apr-17		<0.00319	<0.00130	<0.00383	<0.00259	<0.00398	<0.00373	**<0.00381**	<0.00361	<0.00306	<0.00387	<0.0393	<0.00365
	MW-2A	Oct-17		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365
	MW-3	Apr-15		<0.000319	<0.000130	<0.000380	<0.000260	<0.000400	<0.000370	**<0.000380**	<0.000360	<0.000310	<0.000390	<0.00390	<0.000360
	MW-3	Apr-15	FD	<0.000319	<0.000130	<0.000380	<0.000260	<0.000400	<0.000370	**<0.000380**	<0.000360	<0.000310	<0.000390	<0.00390	<0.000360
	MW-3	Oct-15		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365
	MW-3	Oct-15	FD	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365
	MW-3	Apr-16		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365
	MW-3	Apr-16	FD	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365
	MW-3	Oct-16		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365
	MW-3	Oct-16	FD	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	0.000367 J
	MW-3	Apr-17		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365
	MW-3	Apr-17	FD	<0.000319	<0.000130	<0.000383 J4	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365
	MW-3	Oct-17		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365
	MW-3	Oct-17	FD	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365
	MW-4A	Apr-15		<0.000319	<0.000130	<0.000380	<0.000260	<0.000400	<0.000370	**<0.000380**	<0.000360	<0.000310	<0.000390	<0.00390	<0.000360
	MW-4A	Oct-15		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	0.000502 J	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	0.000502 J
	MW-4A	Apr-16		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365
	MW-4A	Oct-16		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	0.000553 J	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	0.000607 J
	MW-4A	Apr-17		<0.000319	<0.000130	<0.000383 J4	<0.000259	<0.000398	0.000390 J	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	0.000375 J
	MW-4A	Oct-17		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	0.000369 J
	MW-4B	Apr-13		<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	**<0.00500**	<0.00500	<0.00500	<0.00500	<0.0100	<0.00500
	MW-4B	Apr-15		<0.000319	<0.000130	<0.000380	<0.000260	<0.000400	<0.000370	**<0.000380**	<0.000360	<0.000310	<0.000390	<0.00390	<0.000360
	MW-4B	Apr-17		<0.000319	<0.000130	<0.000383 J4	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365
	MW-5A	Apr-15		<0.000319	<0.000130	<0.000380	<0.000260	<0.000400	<0.000370	**<0.000380**	<0.000360	<0.000310	<0.000390	<0.00390	<0.000360
	MW-5A	Oct-15		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365
	MW-5A	Apr-16		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365
	MW-5A	Oct-16		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365
	MW-5A	Apr-17		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	0.000425 J
	MW-5A	Oct-17		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	0.000456 J	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	0.000693 J
	MW-5B	Apr-13		<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	**<0.00500**	<0.00500	<0.00500	<0.00500	<0.0100	<0.00500
	MW-5B	Apr-15		<0.000319	<0.000130	<0.000380	<0.000260	<0.000400	0.000976 J	**<0.000380**	<0.000360	<0.000310	<0.000390	<0.00390	<0.000360
	MW-5B	Apr-17		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	0.000499 J	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365
	MW-5C	Apr-13		<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	**<0.00500**	<0.00500	<0.00500	<0.00500	<0.0100	<0.00500
	MW-5C	Apr-15		<0.000319	<0.000130	<0.000380	<0.000260	<0.000400	<0.000370	**<0.000380**	<0.000360	<0.000310	<0.000390	<0.00390	<0.000360
	MW-5C	Apr-17		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365
	MW-6A	Apr-14		<0.000500	<0.000500	<0.000500	<0.000400	<0.000500	<0.00050	**<0.000400**	<0.000500	<0.000700	<0.000600	<0.00100	
	MW-6A	Apr-15		<0.000319	<0.000130	<0.000380	<0.000260	<0.000400	<0.000370	**<0.000380**	<0.000360	<0.000310	<0.000390	<0.00390	<0.000360
	MW-6A	Apr-16		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365
	MW-6A	Apr-17		<0.00319	<0.00130	<0.00383	<0.00259	<0.00398	<0.00373	**<0.00381**	<0.00361	<0.00306	<0.00387	<0.0393	<0.00365
	MW-6B	Mar-13		<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	**<0.00500**	<0.00500	<0.00500	<0.00500	<0.0100	<0.00500
	MW-6B	Mar-13	FD	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	**<0.00500**	<0.00500	<0.00500	<0.00500	<0.0100	<0.00500
	MW-6B	Apr-15		<0.000319	<0.000130	<0.000380	<0.000260	<0.000400	<0.000370	**<0.000380**	<0.000360	<0.000310	<0.000390	<0.00390	<0.000360
	MW-6B	Apr-17		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365
	MW-7A	Apr-15		<0.000319	<0.000130	<0.000380	<0.000260	<0.000400	<0.000370	**<0.000380**	<0.000360	<0.000310	<0.000390	<0.00390	<0.000360
	MW-7A	Apr-15	FD	<0.000319	<0.000130	<0.000380	<0.000260	<0.000400	<0.000370	**<0.000380**	<0.000360	<0.000310	<0.000390	<0.00390	<0.000360
	MW-7A	Oct-15		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365
	MW-7A	Oct-15	FD	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365
	MW-7A	Apr-16		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365
	MW-7A	Apr-16	FD	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365
	MW-7A	Oct-16		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365
	MW-7A	Oct-16	FD	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365
	MW-7A	Apr-17		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365
	MW-7A	Apr-17	FD	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365
	MW-7A	Oct-17		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365
	MW-7A	Oct-17	FD	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365
	MW-7B	Apr-13		<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	**<0.00500**	<0.00500	<0.00500	<0.00500	<0.0100	<0.00500
	MW-7B	Apr-15		<0.000319	<0.000130	<0.000380	<0.000260	<0.000400	<0.000370	**<0.000380**	<0.000360	<0.000310	<0.000390	<0.00390	<0.000360
	MW-7B	Apr-17		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365
	MW-10	Apr-15		<0.000319	<0.000130	<0.000380	<0.000260	<0.000400	<0.000370	**<0.000380**	<0.000360	<0.000310	<0.000390	<0.00390	<0.000360
	MW-10	Oct-15		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365
	MW-10	Apr-16		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365
	MW-10	Oct-16		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365
	MW-10	Apr-17		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365
	MW-10	Oct-17		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365
	MW-11A	Apr-15		<0.000319	<0.000130	<0.000380	<0.000260	<0.000400	<0.000370	**<0.000380**	<0.000360	<0.000310	<0.000390	<0.00390	<0.000360
	MW-11A	Oct-15														
	MW-11A	Apr-16		<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	**<0.00100**	<0.00100	<0.00100	<0.00100	<0.0100	<0.000365
	MW-11A	Oct-16														
	MW-11A	Apr-17		<0.000319	<0.000130	<0.000383 J4	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365
	MW-11A	Oct-17														
	MW-11B	Mar-13		<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	**<0.00500**	<0.00500	<0.00500	<0.00500	<0.0100	<0.00500
	MW-11B	Apr-15		<0.000319	<0.000130	<0.000380	<0.000260	<0.000400	<0.000370	**<0.000380**	<0.000360	<0.000310	<0.000390	<0.00390	<0.000360
	MW-11B	Apr-17		<0.000319	<0.000130	<0.000383 J4	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365
	MW-12	Apr-14														
	MW-13	Apr-14														
	MW-15	Apr-14		<0.000500	<0.000500	<0.000500	<0.000400	<0.000500	<0.00050	**<0.000400**	<0.000500	<0.000700	<0.000600	<0.00100	
	MW-15	Apr-15		<0.000319	<0.000130	<0.000380	<0.000260	<0.000400	<0.000370	**<0.000380**	<0.000360	<0.000310	<0.000390	<0.00390	<0.000360
	MW-15	Apr-16		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365
	MW-15	Apr-17		<0.000319	<0.000130	<0.000383 J4	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365

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

2017 Annual Groundwater Monitoring Report

HollyFrontier Navajo Refining LLC, Artesia Refinery, Artesia, New Mexico

	Analyte Group:			Volatile Organic Compounds												
			Analyte:	1,1,1-Tri-chloroethane	1,1,2,2-Tetra-chloroethane	1,1,2-Tri-chloroethane	1,1-Dichloro-ethane	1,1-Dichloro-ethene	1,2,4-Trimethyl-benzene	1,2-Dibromo-ethane	1,2-Dichloro-ethane	1,2-Dichloro-propane	1,3,5-Trimethyl-benzene	2-Butanone	2-Phenyl-butane
			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:	0.06	0.01	0.005	0.025	0.007	0.015	0.00005	0.005	0.005	0.12	5.56	---
			CGWSL Source:	WQCC HH	WQCC HH	USEPA MCL	WQCC HH	USEPA MCL	USEPA TW	USEPA MCL	USEPA MCL	USEPA MCL	USEPA TW	NMED TW	
Area	Well ID	Date	Dup												
Evaporation Ponds	MW-18A	Apr-15		<0.000319	<0.000130	<0.000380	<0.000260	<0.000400	<0.000370	**<0.000380**	<0.000360	<0.000310	<0.000390	<0.00390	<0.000360
	MW-18A	Oct-15		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365
	MW-18A	Apr-16		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365
	MW-18A	Oct-16		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365
	MW-18A	Apr-17		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365
	MW-18A	Oct-17		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365
	MW-18B	Apr-13		<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	**<0.00500**	<0.00500	<0.00500	<0.00500	<0.0100	<0.00500
	MW-18B	Apr-15		<0.000319	<0.000130	<0.000380	<0.000260	<0.000400	<0.000370	**<0.000380**	<0.000360	<0.000310	<0.000390	<0.00390	<0.000360
	MW-18B	Apr-17		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365
	MW-22A	Apr-15		<0.000319	<0.000130	<0.000380	<0.000260	<0.000400	<0.000370	**<0.000380**	<0.000360	<0.000310	<0.000390	<0.00390	<0.000360
	MW-22A	Apr-15	FD	<0.000319	<0.000130	<0.000380	<0.000260	<0.000400	<0.000370	**<0.000380**	<0.000360	<0.000310	<0.000390	<0.00390	<0.000360
	MW-22A	Oct-15		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	0.000428 J
	MW-22A	Oct-15	FD	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	0.000479 J
	MW-22A	Apr-16		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365
	MW-22A	Apr-16	FD	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365
	MW-22A	Oct-16		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	0.00066 J
	MW-22A	Oct-16	FD	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365
	MW-22A	Apr-17		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	0.000625 J
	MW-22A	Apr-17	FD	<0.000319	<0.000130	<0.000383 J4	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	0.000401 J
	MW-22A	Oct-17		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	0.000625 J
	MW-22A	Oct-17	FD	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	0.000887 J
	MW-22B	Apr-13		<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	**<0.00500**	<0.00500	<0.00500	<0.00500	<0.0100	<0.00500
	MW-22B	Apr-15		<0.000319	<0.000130	<0.000380	<0.000260	<0.000400	<0.000370	**<0.000380**	<0.000360	<0.000310	<0.000390	<0.00390	0.000381 J
	MW-22B	Apr-17		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365
	MW-70	Apr-15		<0.000319	<0.000130	<0.000380	<0.000260	<0.000400	<0.000370	**<0.000380**	<0.000360	<0.000310	<0.000390	<0.00390	<0.000360
	MW-70	Oct-15		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365
	MW-70	Apr-16		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365
	MW-70	Oct-16		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365
	MW-70	Apr-17		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365
	MW-70	Oct-17		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365
	MW-72	Apr-14		<0.000500	<0.000500	<0.000500	<0.000400	<0.000500	<0.00050	**<0.000400**	<0.000500	<0.000700	<0.000600	<0.00100	
	MW-72	Apr-15		<0.000319	<0.000130	<0.000380	<0.000260	<0.000400	<0.000370	**<0.000380**	<0.000360	<0.000310	<0.000390	<0.00390	<0.000360
	MW-72	Apr-16		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365
	MW-72	Apr-17		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365
	MW-73	Apr-14		<0.000500	<0.000500	<0.000500	<0.000400	<0.000500	0.00210 J	**<0.000400**	<0.000500	<0.000700	<0.000600	0.0028 J	
	MW-73	Apr-15		<0.000319	<0.000130	<0.000380	<0.000260	<0.000400	0.00171	**<0.000380**	<0.000360	<0.000310	<0.000390	<0.00390	<0.000360
	MW-73	Apr-16		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365
	MW-73	Apr-17		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365
	MW-74	Apr-15		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000360
	MW-74	Oct-15		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365
	MW-74	Apr-16		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365
	MW-74	Oct-16		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	0.000718 J	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365
	MW-74	Apr-17		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	0.000893 J	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365
	MW-74	Oct-17		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	0.00124	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365
	MW-75	Apr-15		<0.000319	<0.000130	<0.000380	<0.000260	<0.000400	0.000710 J	**<0.000380**	<0.000360	<0.000310	<0.000390	<0.00390	<0.000360
	MW-75	Oct-15		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	0.00252	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365
	MW-75	Apr-16		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365
	MW-75	Oct-16		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	0.000631 J	**<0.000381**	<0.000361	<0.000306	0.00103	0.00429 J	0.00138
	MW-75	Apr-17		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	0.000433 J
	MW-75	Oct-17		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	0.000387 J	**<0.000381**	<0.000361	<0.000306	0.000912 J	<0.00393	0.00107
	MW-76	Apr-15		<0.000319	0.000308 J	0.000384 J	<0.000260	<0.000400	0.000699 J	**<0.000380**	<0.000360	<0.000310	0.000697 J	<0.00390	0.000429 J
	MW-76	Oct-15		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	0.000531 J	**<0.000381**	<0.000361	<0.000306	0.000499 J	<0.00393	0.000493 J
	MW-76	Apr-16		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365
	MW-76	Oct-16		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	0.00187	**<0.000381**	<0.000361	<0.000306	0.00166	<0.00393	0.00055 J
	MW-76	Apr-17		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365
	MW-76	Oct-17		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	0.000428 J	**<0.000381**	<0.000361	<0.000306	0.000827 J	<0.00393	0.000521 J
	MW-77	Apr-15		<0.000319	<0.000130	<0.000380	<0.000260	<0.000400	0.00333	**<0.000380**	<0.000360	<0.000310	0.00239	<0.00390	0.0039
	MW-77	Oct-15		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	0.00348	**<0.000381**	<0.000361	<0.000306	0.00223	<0.00393	0.00394
	MW-77	Apr-16		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	0.00161	<0.00393	0.00348
	MW-77	Oct-16		<0.00319	<0.00130	<0.00383	<0.00259	<0.00398	0.00432 J	**<0.00381**	<0.00361	<0.00306	<0.00387	<0.0393	0.00392 J
	MW-77	Apr-17		<0.00319	<0.00130	<0.00383	<0.00259	<0.00398	0.00384 J	**<0.00381**	<0.00361	<0.00306	<0.00387	<0.0393	0.00382 J
	MW-78	Apr-14		<0.000500	<0.000500	<0.000500	<0.000400	<0.000500	<0.00050	**<0.000400**	<0.000500	<0.000700	<0.000600	0.011	
	MW-78	Apr-15		<0.000319	0.000305 J	<0.000380	<0.000260	<0.000400	0.00132	**<0.000380**	<0.000360	<0.000310	0.000829 J	<0.00390	0.000558 J
	MW-78	Apr-16		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365
	MW-78	Apr-17		<0.00319	<0.00130	<0.00383	<0.00259	<0.00398	<0.00373	**<0.00381**	<0.00361	<0.00306	<0.00387	<0.0393	<0.00365
	MW-79	Apr-15		<0.000319	<0.000130	<0.000380	<0.000260	<0.000400	<0.000370	**<0.000380**	<0.000360	<0.000310	<0.000390	<0.00390	<0.000360
	MW-79	Oct-15		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365
	MW-79	Apr-16		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365
	MW-79	Oct-16		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365
	MW-79	Apr-17		<0.00319	<0.00130	<0.00383	<0.00259	<0.00398	<0.00373	**<0.00381**	<0.00361	<0.00306	<0.00387	<0.0393	<0.00365
	MW-79	Oct-17		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365
	MW-80	Apr-14		<0.000500	<0.000500	<0.000500	<0.000400	<0.000500	<0.00050	**<0.000400**	<0.000500	<0.000700	<0.000600	<0.00100	
	MW-80	Apr-15		<0.000319	<0.000130	<0.000380	<0.000260	<0.000400	<0.000370	**<0.000380**	<0.000360	<0.000310	<0.000390	<0.00390	<0.000360
	MW-80	Apr-16		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365
	MW-80	Apr-17		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365
	MW-81	Apr-14		<0.000500	<0.000500	<0.000500	<0.000400	<0.000500	<0.00050	**<0.000400**	<0.000500	<0.000700	<0.000600	<0.00100	
	MW-81	Apr-15		<0.000319	<0.000130	<0.000380	<0.000260	<0.000400	<0.000370	**<0.000380**	<0.000360	<0.000310	<0.000390	<0.00390	<0.000360
	MW-81	Apr-16		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365
	MW-81	Apr-17		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365
	MW-82	Apr-14		<0.000500	<0.000500	<0.000500	<0.000400	<0.000500	<0.00050	**<0.000400**	<0.000500	<0.000700	<0.000600	0.0037 J	
	MW-82	Apr-14	FD	<0.000500	<0.000500	<0.000500	<0.000400	<0.000500	<0.00050	**<0.000400**	<0.000500	<0.000700	<0.000600	0.0031 J	
	MW-82	Apr-15		<0.000319	<0.000130	<0.000380	<0.000260	<0.000400	<0.000370	**<0.000380**	<0.000360	<0.000310	<0.000390	<0.00390	<0.000360
	MW-82	Apr-16		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365
	MW-82	Apr-17		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365
	MW-83	Apr-15		<0.000319	<0.000130	<0.000380	<0.000260	<0.000400	<0.000370	**<0.000380**	<0.000360	<0.000310	<0.000390	<0.00390	<0.000360
	MW-83	Oct-15		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365
	MW-83	Apr-16		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365
	MW-83	Oct-16		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365
	MW-83	Apr-17		<0.00319	<0.00130	<0.00383	<0.00259	<0.00398	<0.00373	**<0.00381**	<0.00361	<0.00306	<0.00387	<0.0393	<0.00365
	MW-83	Oct-17		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	0.000411 J	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365
	MW-84	Apr-15		<0.000319	<0.000130	<0.000380	<0.000260	<0.000400	<0.000370	**<0.000380**	<0.000360	<0.000310	<0.000390	<0.00390	<0.000360
	MW-84	Oct-15		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365
	MW-84	Apr-16		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365
	MW-84	Oct-16		<0.00319	<0.00130	<0.00383	<0.00259	<0.00398	<0.00373	**<0.00381**	<0.00361	<0.00306	<0.00387	<0.0393	<0.00365
	MW-84	Apr-17		<0.00319	<0.00130	<0.00383	<0.00259	<0.00398	<0.00373	**<0.00381**	<0.00361	<0.00306	<0.00387	<0.0393	<0.00365
	MW-84	Oct-17		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365
	MW-87	Apr-15		<0.000319	<0.000130	<0.000380	<0.000260	<0.000400	<0.000370	**<0.000380**	<0.000360	<0.000310	<0.000390	<0.00390	<0.000360
	MW-87	Oct-15		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365
	MW-87	Apr-16		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365
	MW-87	Oct-16		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365
	MW-87	Apr-17		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365
	MW-87	Oct-17		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365

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

2017 Annual Groundwater Monitoring Report

HollyFrontier Navajo Refining LLC, Artesia Refinery, Artesia, New Mexico

				Analyte Group:	Volatile Organic Compounds											
				Analyte:	1,1,1-Tri-chloroethane	1,1,2,2-Tetra-chloroethane	1,1,2-Tri-chloroethane	1,1-Dichloro-ethane	1,1-Dichloro-ethene	1,2,4-Trimethyl-benzene	1,2-Dibromo-ethane	1,2-Dichloro-ethane	1,2-Dichloro-propane	1,3,5-Trimethyl-benzene	2-Butanone	2-Phenyl-butane
				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:	0.06	0.01	0.005	0.025	0.007	0.015	0.00005	0.005	0.005	0.12	5.56	---
				CGWSL Source:	WQCC HH	WQCC HH	USEPA MCL	WQCC HH	USEPA MCL	USEPA TW	USEPA MCL	USEPA MCL	USEPA MCL	USEPA TW	NMED TW	
Area	**Well ID**	**Date**	**Dup**													
Evaporation Ponds	MW-88	Apr-15		<0.000319	<0.000130	<0.000380	<0.000260	<0.000400	<0.000370	**<0.000380**	<0.000360	<0.000310	<0.000390	<0.00390	<0.000360
	MW-88	Oct-15		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365
	MW-88	Apr-16		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365
	MW-88	Oct-16		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365
	MW-88	Apr-17		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365
	MW-88	Oct-17		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365
	MW-120	Apr-15		<0.000320	<0.000130	<0.000380	<0.000260	<0.000400	<0.000370	**<0.000380**	<0.000360	<0.000310	<0.000390	<0.000390	
	MW-120	Oct-15		<0.000319	<0.000130	<0.000380	<0.000260	<0.000400	<0.000370	**<0.000380**	<0.000360	<0.000310	<0.000390	<0.00390	<0.000360
	MW-120	Apr-16		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365
	MW-120	Oct-16		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365
	MW-120	Apr-17		<0.00319	<0.00130	<0.00383	<0.00259	<0.00398	<0.00373	**<0.00381**	<0.00361	<0.00306	<0.00387	<0.0393	<0.00365
	MW-120	Oct-17		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365
	MW-121	Apr-15		<0.000319	<0.000130	<0.000380	<0.000260	<0.000400	<0.000370	**<0.000380**	<0.000360	<0.000310	<0.000390	<0.00390	<0.000360
	MW-121	Oct-15		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365
	MW-121	Apr-16		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365
	MW-121	Oct-16		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365
	MW-121	Apr-17		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365
	MW-121	Oct-17		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365
	MW-122	Apr-15		<0.000319	<0.000130	<0.000380	<0.000260	<0.000400	<0.000370	**<0.000380**	<0.000360	<0.000310	<0.000390	<0.00390	<0.000360
	MW-122	Oct-15		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365
	MW-122	Apr-16		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365
	MW-122	Oct-16		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365
	MW-122	Apr-17		<0.00319	<0.00130	<0.00383	<0.00259	<0.00398	<0.00373	**<0.00381**	<0.00361	<0.00306	<0.00387	<0.0393	<0.00365
	MW-122	Oct-17		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365
	MW-123	Apr-15		<0.000319	<0.000319	<0.000130	<0.000380	<0.000260	<0.000400	**<0.000370**	<0.000380	<0.000360	<0.000310	<0.000390	<0.00390
	MW-123	Oct-15		<0.000319	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	**<0.000373**	<0.000381	<0.000361	<0.000306	<0.000387	<0.00393
	MW-123	Apr-16		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365
	MW-123	Oct-16		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365
	MW-123	Apr-17		<0.000319	<0.000130	<0.000383 J4	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365
	MW-123	Oct-17		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365
	MW-124	Apr-15		<0.000319	<0.000130	<0.000380	<0.000260	<0.000400	<0.000370	**<0.000380**	<0.000360	<0.000310	<0.000390	<0.00390	<0.000360
	MW-124	Oct-15		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365
	MW-124	Apr-16		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365
	MW-124	Oct-16		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365
	MW-124	Apr-17		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365
	MW-124	Oct-17		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365
	OCD-1R	Apr-15		<0.000320	<0.000130	<0.000380	<0.000260	<0.000400	<0.000370	**<0.000380**	<0.000360	<0.000310	<0.000390	<0.000390	
	OCD-1R	Oct-15		<0.000319	<0.000130	<0.000380	<0.000260	<0.000400	<0.000370	**<0.000380**	<0.000360	<0.000310	<0.000390	<0.00390	<0.000360
	OCD-1R	Apr-16		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365
	OCD-1R	Oct-16		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365
	OCD-1R	Apr-17		<0.000319	<0.000130	<0.000383 J4	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365
	OCD-1R	Oct-17		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365
	OCD-2A	Apr-15		<0.000319	<0.000130	<0.000380	<0.000260	<0.000400	<0.000370	**<0.000380**	<0.000360	<0.000310	<0.000390	<0.00390	<0.000360
	OCD-2A	Oct-15		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365
	OCD-2A	Apr-16		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365
	OCD-2A	Oct-16		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365
	OCD-2A	Apr-17		<0.000319	<0.000130	<0.000383 J4	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365
	OCD-2A	Oct-17		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365
	OCD-3	Apr-15		<0.000319	<0.000130	<0.000380	<0.000260	<0.000400	<0.000370	**<0.000380**	<0.000360	<0.000310	<0.000390	<0.00390	<0.000360
	OCD-3	Oct-15		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365
	OCD-3	Apr-16		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365
	OCD-3	Oct-16		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365
	OCD-3	Apr-17		<0.000319	<0.000130	<0.000383 J4	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365
	OCD-3	Oct-17		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365
	OCD-4	Apr-15		<0.000319	<0.000130	<0.000380	<0.000260	<0.000400	<0.000370	**<0.000380**	<0.000360	<0.000310	<0.000390	<0.00390	<0.000360
	OCD-4	Oct-15		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365
	OCD-4	Apr-16		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365
	OCD-4	Oct-16		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365
	OCD-4	Apr-17		<0.000319	<0.000130	<0.000383 J4	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365
	OCD-4	Oct-17		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365
	OCD-5	Apr-15		<0.000319	<0.000130	<0.000380	<0.000260	<0.000400	<0.000370	**<0.000380**	<0.000360	<0.000310	<0.000390	<0.00390	<0.000360
	OCD-5	Oct-15		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365
	OCD-5	Apr-16		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365
	OCD-5	Oct-16		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365
	OCD-5	Apr-17		<0.000319	<0.000130	<0.000383 J4	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365
	OCD-5	Oct-17		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365
	OCD-6	Apr-15		<0.000319	<0.000130	<0.000380	<0.000260	<0.000400	<0.000370	**<0.000380**	<0.000360	<0.000310	<0.000390	<0.00390	<0.000360
	OCD-6	Oct-15		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365
	OCD-6	Apr-16		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365
	OCD-6	Oct-16		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365
	OCD-6	Apr-17		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365
	OCD-6	Oct-17		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365
	OCD-7AR	Apr-15		<0.000319	<0.000130	<0.000380	<0.000260	<0.000400	0.000760 J	**<0.000380**	<0.000360	<0.000310	<0.000390	<0.00390	<0.000360
	OCD-7AR	Oct-15		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	0.00129	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	
	OCD-7AR	Apr-16		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365
	OCD-7AR	Oct-16		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	0.00172	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365
	OCD-7AR	Apr-17		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	0.000840 J	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365
	OCD-7AR	Oct-17		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	0.00109	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365
	OCD-7B	Mar-13		<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	**<0.00500**	<0.00500	<0.00500	<0.00500	<0.0100	<0.00500
	OCD-7B	Apr-15		<0.000319	<0.000130	<0.000380	<0.000260	<0.000400	<0.000370	**<0.000380**	<0.000360	<0.000310	<0.000390	<0.00390	<0.000360
	OCD-7B	Apr-17		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365
	OCD-8A	Apr-15		<0.000319	<0.000130	<0.000380	<0.000260	<0.000400	0.000370 J	**<0.000380**	<0.000360	<0.000310	<0.000390	<0.00390	<0.000360
	OCD-8A	Oct-15		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	0.000454 J	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365
	OCD-8A	Apr-16		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	0.000482 J	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365
	OCD-8A	Oct-16		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	0.00108	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365
	OCD-8A	Apr-17		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	0.000518 J	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365
	OCD-8A	Oct-17		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	0.000832 J	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365
	OCD-8B	Apr-13		<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	**<0.00500**	<0.00500	<0.00500	<0.00500	<0.0100	<0.00500
	OCD-8B	Apr-15		<0.000319	<0.000130	<0.000380	<0.000260	<0.000400	<0.000370	**<0.000380**	<0.000360	<0.000310	<0.000390	<0.00390	<0.000360
	OCD-8B	Apr-17		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365
Field East of Refinery	KWB-1A	Apr-15		<0.000500	<0.000500	<0.000500	<0.000400	<0.000500	<0.00050	**<0.000400**	<0.000500	<0.000700	<0.000600	<0.00100	
	KWB-1A	Oct-15		<0.000320	<0.000130	<0.000380	<0.000260	<0.000400	<0.000370	**<0.000380**	<0.000360	<0.000310	<0.000390	<0.000390	
	KWB-1A	Apr-16		<0.000319	<0.000130	<0.000380	<0.000260	<0.000400	<0.000370	**<0.000380**	<0.000360	<0.000310	<0.000390	<0.00390	<0.000360
	KWB-1A	Oct-16		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365
	KWB-1A	Apr-17		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365
	KWB-1A	Oct-17		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365
	KWB-1C	Apr-13		<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	**<0.00500**	<0.00500	<0.00500	<0.00500	<0.0100	<0.00500
	KWB-1C	Apr-15		<0.000319	<0.000130	<0.000380	<0.000260	<0.000400	<0.000370	**<0.000380**	<0.000360	<0.000310	<0.000390	<0.00390	<0.000360
	KWB-1C	Apr-17		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365
	KWB-7	Apr-15		<0.000319	<0.000130	<0.000380	<0.000260	<0.000400	**0.0766**	**<0.000380**	<0.000360	<0.000310	0.000982 J	<0.00390	0.0104
	KWB-7	Oct-15		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	0.00557	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	0.00808
	KWB-7	Apr-16		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	**0.0482**	**<0.000381**	<0.000361	<0.000306	0.00903	<0.00393 J4	0.00607
	KWB-7	Oct-16		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	0.00700	**<0.000381**	<0.000361	<0.000306	0.000877 J	<0.00393	0.00691
	KWB-7	Apr-17		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	0.0115	**<0.000381**	<0.000361	<0.000306	<0.000387	0.0161	0.00714
	KWB-7	Oct-17		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	**0.0258**	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	0.00591

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

2017 Annual Groundwater Monitoring Report

HollyFrontier Navajo Refining LLC, Artesia Refinery, Artesia, New Mexico

				Analyte Group:	Volatile Organic Compounds											
				Analyte:	1,1,1-Tri-chloroethane	1,1,2,2-Tetra-chloroethane	1,1,2-Tri-chloroethane	1,1-Dichloro-ethane	1,1-Dichloro-ethene	1,2,4-Trimethyl-benzene	1,2-Dibromo-ethane	1,2-Dichloro-ethane	1,2-Dichloro-propane	1,3,5-Trimethyl-benzene	2-Butanone	2-Phenyl-butane
				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:	0.06	0.01	0.005	0.025	0.007	0.015	0.00005	0.005	0.005	0.12	5.56	---
				CGWSL Source:	WQCC HH	WQCC HH	USEPA MCL	WQCC HH	USEPA MCL	USEPA TW	USEPA MCL	USEPA MCL	USEPA MCL	USEPA TW	NMED TW	
Area	Well ID	Date	Dup													
Field East of Refinery	KWB-8	Oct-16		<0.0638	<0.0260	<0.0766	<0.0518	<0.0796	**0.170** J	**<0.0762**	**<0.0722**	<0.0612	<0.0774	<0.786	<0.0730
	KWB-8	Apr-17		<0.0319	<0.0130	<0.0383	<0.0259	<0.0398	**0.380**	**<0.0381**	**<0.0361**	<0.0306	0.0863 J	<0.393	<0.0365
	KWB-8	Oct-17		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	**0.114**	**<0.000381**	<0.000361	<0.000306	0.0225	0.0885	<0.000365
	KWB-10R	Apr-15		<0.00319	<0.00130	<0.00380	<0.00260	<0.00400	**0.457**	**<0.00380**	<0.00360	<0.00310	**0.136**	<0.0390	0.0122
	KWB-10R	Oct-15		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	**0.358**	**<0.000381**	<0.000361	<0.000306	0.100	<0.00393	0.00927
	KWB-10R	Apr-16		<0.0160	<0.00650	<0.0192	<0.0130	<0.0199	**0.323**	**<0.0190**	**<0.0180**	<0.0153	0.0886	<0.196	<0.0182
	KWB-10R	Oct-16		<0.00638	<0.00260	<0.00766	<0.00518	<0.00796	**0.307**	**<0.00762**	**<0.00722**	<0.00612	0.0765	0.234	0.00903 J
	KWB-10R	Apr-17		<0.0160	<0.00650	<0.0192	<0.0130	<0.0199	**0.360**	**<0.0190**	**<0.0180**	<0.0153	0.0907	<0.196	<0.0182
	KWB-10R	Oct-17		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	**0.302**	**<0.000381**	<0.000361	<0.000306	0.0759	<0.00393	0.0126
	KWB-11A	Apr-15		<0.000319	<0.000130	<0.000380	<0.000260	<0.000400	**0.0658**	**<0.000380**	<0.000360	<0.000310	0.00168	<0.00390	0.000636 J
	KWB-11A	Oct-15		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	**0.0528**	**<0.000381**	<0.000361	<0.000306	0.00117	<0.00393	0.00457
	KWB-11A	Apr-16		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	**0.0256**	**<0.000381**	<0.000361	<0.000306	0.00122	<0.00393	0.00353
	KWB-11A	Oct-16		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	**0.0341**	**<0.000381**	<0.000361	<0.000306	0.000945 J	<0.00393	0.00474
	KWB-11A	Apr-17		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	0.0142	**<0.000381**	0.000409 J	<0.000306	<0.000387	<0.00393	0.00419
	KWB-11A	Oct-17		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	**0.0230**	**<0.000381**	<0.000361	<0.000306	0.00129	<0.00393	<0.000365
	KWB-11B	Apr-15		<0.000319	<0.000130	<0.000380	<0.000260	<0.000400	<0.000370	**<0.000380**	<0.000360	<0.000310	<0.000390	<0.00390	<0.000360
	KWB-11B	Oct-15		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	0.000489 J	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365
	KWB-11B	Apr-16		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365
	KWB-11B	Oct-16		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	0.000394 J	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365
	KWB-11B	Apr-17		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365
	KWB-11B	Oct-17		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365
	KWB-12A	Apr-15		<0.000319	<0.000130	<0.000380	<0.000260	<0.000400	0.000452 J	**<0.000380**	<0.000360	<0.000310	<0.000390	<0.00390	<0.000360
	KWB-12A	Apr-15	FD	<0.000319	<0.000130	<0.000380	<0.000260	<0.000400	<0.000370	**<0.000380**	<0.000360	<0.000310	<0.000390	<0.00390	<0.000360
	KWB-12A	Oct-15		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365
	KWB-12A	Apr-16		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365
	KWB-12A	Oct-16		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365
	KWB-12A	Apr-17		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365
	KWB-12A	Oct-17		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365
	KWB-12B	Apr-15		<0.000319	<0.000130	<0.000380	<0.000260	<0.000400	<0.000370	**<0.000380**	<0.000360	<0.000310	<0.000390	<0.00390	<0.000360
	KWB-12B	Oct-15		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365
	KWB-12B	Oct-15	FD	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	0.000895 J	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365
	KWB-12B	Apr-16		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365
	KWB-12B	Apr-16	FD	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365
	KWB-12B	Oct-16		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365
	KWB-12B	Oct-16	FD	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365
	KWB-12B	Apr-17		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365
	KWB-12B	Apr-17	FD	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365
	KWB-12B	Oct-17		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365
	KWB-12B	Oct-17	FD	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365
	KWB-P4	Apr-13		<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	**<0.00500**	<0.00500	<0.00500	<0.00500	<0.0100	<0.00500
	KWB-P4	Apr-15		<0.000319	<0.000130	<0.000380	<0.000260	<0.000400	<0.000370	**<0.000380**	<0.000360	<0.000310	<0.000390	<0.00390	<0.000360
	KWB-P4	Apr-17		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365
	MW-57	Apr-15		<0.000319	<0.000130	<0.000380	<0.000260	<0.000400	0.00163	**<0.000380**	<0.000360	<0.000310	0.000463 J	<0.00390	<0.000360
	MW-57	Oct-15		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365
	MW-57	Apr-16		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365
	MW-57	Oct-16		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365
	MW-57	Apr-17		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365
	MW-57	Oct-17		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365
	MW-58	Apr-15		<0.00319	<0.00130	<0.00380	<0.00260	<0.00400	**1.04**	**<0.00380**	<0.00360	<0.00310	**0.195**	<0.0390	0.0119
	MW-58	Oct-15		<0.0319	<0.0130	<0.0383	<0.0259	<0.0398	**0.893**	**<0.0381**	**<0.0361**	<0.0306	0.0651 J	<0.393	<0.0365
	MW-58	Apr-16		<0.00319	<0.00130	<0.00383	<0.00259	<0.00398	**0.753**	**<0.00381**	<0.00361	<0.00306	0.0179	<0.0393	0.0112
	MW-58	Oct-16		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	**0.387**	**<0.000381**	<0.000361	<0.000306	0.00321	<0.00393	0.00811
	MW-58	Apr-17		<0.0319	<0.0130	<0.0383	<0.0259	<0.0398	**0.517**	**<0.0381**	**<0.0361**	<0.0306	<0.0387	<0.393	<0.0365
	MW-58	Oct-17		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	**0.166**	**<0.000381**	<0.000361	<0.000306	0.00130	<0.00393	0.00872
	MW-111	Apr-15		<0.000319	<0.000130	<0.000380	<0.000260	<0.000400	0.00256	**<0.000380**	0.000724 J	<0.000310	0.000567 J	<0.00390	<0.000360
	MW-111	Oct-15		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	0.00122	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365
	MW-111	Apr-16		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	0.000539 J	<0.000306	<0.000387	<0.00393	<0.000365
	MW-111	Oct-16		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	0.00215	**<0.000381**	0.000729 J	<0.000306	<0.000387	<0.00393	<0.000365
	MW-111	Apr-17		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	0.00219	**<0.000381**	0.000698	<0.000306	<0.000387	<0.00393	<0.000365
	MW-111	Oct-17		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	0.00188	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365
	MW-113	Apr-15		<0.000319	<0.000130	<0.000380	<0.000260	<0.000400	<0.000370	**<0.000380**	0.000497 J	<0.000310	<0.000390	<0.00390	<0.000360
	MW-113	Apr-15	FD	<0.000319	<0.000130	<0.000380	<0.000260	<0.000400	0.000538 J	**<0.000380**	0.000383 J	<0.000310	<0.000390	<0.00390	<0.000360
	MW-113	Oct-15		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	0.000455 J	<0.000306	<0.000387	<0.00393	<0.000365
	MW-113	Oct-15	FD	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365
	MW-113	Apr-16		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	0.000753 J	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365
	MW-113	Apr-16	FD	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	0.000813 J	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365
	MW-113	Oct-16		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	0.00977	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	0.000418 J
	MW-113	Oct-16	FD	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	0.00933	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	0.000379 J
	MW-113	Apr-17		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	0.00389	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	0.000379 J
	MW-113	Apr-17	FD	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	0.00448	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	0.000417 J
	MW-113	Oct-17		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	**0.0229**	**<0.000381**	<0.000361	<0.000306	0.000442 J	<0.00393	0.000988 J
	MW-113	Oct-17	FD	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	**0.0212**	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	0.00088 J
	MW-125	Apr-15		<0.000319	<0.000130	<0.000380	<0.000260	<0.000400	<0.000370	**<0.000380**	<0.000360	<0.000310	<0.000390	<0.00390	<0.000360
	MW-125	Oct-15		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365
	MW-125	Apr-16		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365
	MW-125	Oct-16		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365
	MW-125	Apr-17		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365
	MW-125	Oct-17		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365
	MW-126A	Apr-15		<0.000319	<0.000130	<0.000380	<0.000260	<0.000400	0.000397 J	**<0.000380**	<0.000360	<0.000310	<0.000390	<0.00390	<0.000360
	MW-126A	Oct-15		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	0.00251	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	0.00415
	MW-126A	Apr-16		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393 J4	<0.000365
	MW-126A	Oct-16		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	0.0113
	MW-126A	Apr-17		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	0.000715 J
	MW-126A	Oct-17		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	0.000746 J
	MW-126B	Apr-15		<0.000319	<0.000130	<0.000380	<0.000260	<0.000400	0.000409 J	**<0.000380**	<0.000360	<0.000310	<0.000390	<0.00390	<0.000360
	MW-126B	Oct-15		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365
	MW-126B	Apr-16		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365
	MW-126B	Oct-16		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365
	MW-126B	Apr-17		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365
	MW-126B	Oct-17		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365
	MW-127	Apr-15		<0.000319	<0.000130	<0.000380	<0.000260	<0.000400	**0.126**	**<0.000380**	0.000418 J	<0.000310	0.00854	<0.00390	0.00324
	MW-127	Oct-15		<0.00638	<0.00260	<0.00766	<0.00518	<0.00796	**0.0980**	**<0.00762**	**<0.00722**	<0.00612	<0.00774	<0.0786	<0.00730
	MW-127	Apr-16		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	**0.0941**	**<0.000381**	<0.000361	<0.000306	0.00632	<0.00393 J4	0.00334
	MW-127	Oct-16		<0.00319	<0.00130	<0.00383	<0.00259	<0.00398	**0.0332**	**<0.00381**	<0.00361	<0.00306	<0.00387	<0.0393	<0.00365
	MW-127	Apr-17		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	**0.0562**	**<0.000381**	<0.000361	<0.000306	0.00490	<0.00393	0.00427
	MW-127	Oct-17		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	**0.0327**	**<0.000381**	<0.000361	<0.000306	0.00452	<0.00393	0.00319
	MW-128	Apr-15		<0.000319	<0.000130	<0.000380	<0.000260	<0.000400	0.00374	**<0.000380**	<0.000360	<0.000310	0.000551 J	<0.00390	0.000814 J
	MW-128	Oct-15		<0.00638	<0.00260	<0.00766	<0.00518	<0.00796	<0.00746	**<0.00762**	**<0.00722**	<0.00612	<0.00774	<0.0786	<0.00730
	MW-128	Apr-16		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	0.00209	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365
	MW-128	Oct-16		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	0.00197	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365
	MW-128	Apr-17		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	0.00276	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	0.000391 J
	MW-128	Oct-17		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	0.00233	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	0.00038 J

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

2017 Annual Groundwater Monitoring Report

HollyFrontier Navajo Refining LLC, Artesia Refinery, Artesia, New Mexico

				Analyte Group:	Volatile Organic Compounds											
				Analyte:	1,1,1-Tri-chloroethane	1,1,2,2-Tetra-chloroethane	1,1,2-Tri-chloroethane	1,1-Dichloro-ethane	1,1-Dichloro-ethene	1,2,4-Trimethyl-benzene	1,2-Dibromo-ethane	1,2-Dichloro-ethane	1,2-Dichloro-propane	1,3,5-Trimethyl-benzene	2-Butanone	2-Phenyl-butane
				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:	0.06	0.01	0.005	0.025	0.007	0.015	0.00005	0.005	0.005	0.12	5.56	---
				CGWSL Source:	WQCC HH	WQCC HH	USEPA MCL	WQCC HH	USEPA MCL	USEPA TW	USEPA MCL	USEPA MCL	USEPA MCL	USEPA TW	NMED TW	
Area	**Well ID**	**Date**	**Dup**													
Field East of Refinery	MW-129	Apr-15		<0.000319	<0.000130	<0.000380	<0.000260	<0.000400	0.00286	**<0.000380**	<0.000360	<0.000310	0.000679 J	<0.00390	0.00102	
	MW-129	Oct-15		<0.0319	<0.0130	<0.0383	<0.0259	<0.0398	**<0.0373**	**<0.0381**	**<0.0361**	<0.0306	<0.0387	<0.393	<0.0365	
	MW-129	Apr-16		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	0.00382	**<0.000381**	<0.000361	<0.000306	0.000880 J	<0.00393 J4	0.00103	
	MW-129	Oct-16		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	0.00143	**<0.000381**	<0.000361	<0.000306	0.000479 J	<0.00393	0.00105	
	MW-129	Apr-17		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	0.00101	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	0.000928 J	
	MW-130	Apr-15		<0.000319	<0.000130	<0.000380	<0.000260	<0.000400	<0.000370	**<0.000380**	<0.000360	<0.000310	<0.000390	<0.00390	<0.000360	
	MW-130	Oct-15		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365	
	MW-130	Apr-16		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365	
	MW-130	Oct-16		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365	
	MW-130	Apr-17		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365	
	MW-130	Oct-17		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365	
	MW-131	Apr-15		<0.000319	<0.000130	<0.000380	<0.000260	<0.000400	**0.0486**	**<0.000380**	<0.000360	<0.000310	0.0119	<0.00390	0.00366	
	MW-131	Oct-15		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	**0.0231**	**<0.000381**	<0.000361	<0.000306	0.00694	<0.00393	0.00437	
	MW-131	Apr-16		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	**0.0212**	**<0.000381**	<0.000361	<0.000306	0.00562	<0.00393 J4	0.00318	
	MW-131	Oct-16		<0.00160	<0.000650	<0.00192	<0.00130	<0.00199	0.0133	**<0.00190**	<0.00180	<0.00153	0.00398 J	<0.0196	0.00269 J	
	MW-131	Apr-17		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	0.0137	**<0.000381**	<0.000361	<0.000306	0.00348	<0.00393	0.00331	
	MW-131	Oct-17		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	**<0.0932**	**<0.000381**	<0.000361	<0.000306	0.00174	<0.00393	0.00286	
	MW-133	Nov-14		<0.0320	<0.0130	<0.0380	<0.0260	<0.0400	**0.280**	**<0.0380**	**<0.0360**	<0.0310	0.0530 J	<0.390 J4J3		
	MW-133	Apr-15		<0.0319	<0.0130	<0.0380	<0.0260	<0.0400	**0.138**	**<0.0380**	**<0.0360**	<0.0310	<0.0390	<0.390	<0.0360	
	MW-134	Apr-15		<0.000319	<0.000130	<0.000380	<0.000260	<0.000400	<0.000370	**<0.000380**	<0.000360	<0.000310	<0.000390	<0.00390	<0.000360	
	MW-134	Apr-15	FD	<0.000319	<0.000130	<0.000380	<0.000260	<0.000400	<0.000370	**<0.000380**	<0.000360	<0.000310	<0.000390	<0.00390	<0.000360	
	MW-134	Oct-15		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365	
	MW-134	Oct-15	FD	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365	
	MW-134	Apr-16		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393 J4	<0.000365	
	MW-134	Apr-16	FD	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393 J4	<0.000365	
	MW-134	Oct-16		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365	
	MW-134	Oct-16	FD	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365	
	MW-134	Apr-17		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365	
	MW-134	Apr-17	FD	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365	
	MW-134	Oct-17		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365	
	MW-134	Oct-17	FD	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365	
	MW-135	Apr-15		<0.000319	<0.000130	<0.000380	<0.000260	<0.000400	0.000793 J	**<0.000380**	<0.000360	<0.000310	<0.000390	<0.00390	<0.000360	
	MW-135	Oct-15		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365	
	MW-135	Apr-16		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365	
	MW-135	Oct-16		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365	
	MW-135	Apr-17		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365	
	MW-135	Oct-17		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365	
	RA-4196	Apr-15		<0.000319	<0.000130	<0.000380	<0.000260	<0.000400	<0.000370	**<0.000380**	<0.000360	<0.000310	<0.000390	<0.00390	<0.000360	
	RA-4196	Oct-15		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365	
	RA-4196	Apr-16		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365	
	RA-4196	Oct-16		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365	
	RA-4196	Apr-17		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365	
	RA-4196	Oct-17		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365	
	RA-4798	Apr-15		<0.000319	<0.000130	<0.000380	<0.000260	<0.000400	<0.000370	**<0.000380**	0.00311	<0.000310	<0.000390	<0.00390	<0.000360	
	RA-4798	Oct-15		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	0.00154	<0.000306	<0.000387	<0.00393	<0.000365	
	RA-4798	Apr-16		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	0.00221	<0.000306	<0.000387	<0.00393	<0.000365	
	RA-4798	Oct-16		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	0.00232	<0.000306	<0.000387	<0.00393	<0.000365	
	RA-4798	Apr-17		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	0.000793 J	<0.000306	<0.000387	<0.00393	<0.000365	
	RA-4798	Oct-17		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	0.00141	<0.000306	<0.000387	<0.00393	<0.000365	
	RW-12R	Apr-16		<0.00160	<0.000650	<0.00192	<0.00130	<0.00199	0.0145	**<0.00190**	<0.00180	<0.00153	<0.00194	<0.0196	0.00471 J	
	RW-12R	Apr-17		<0.00160	<0.000650	<0.00192	<0.00130	<0.00199	**0.0338**	**<0.00190**	<0.00180	<0.00153	<0.00194	<0.0196	0.0104	
	RW-13R	Apr-16		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	**0.0443**	**<0.000381**	0.000758 J	<0.000306	0.00539	<0.00393	0.0027	
	RW-18	Apr-14		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000400**	<0.000500	<0.000700	<0.000600	<0.00100		
	RW-18	Apr-15		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000380**	<0.000360	<0.000310	<0.000390	<0.00390	<0.000360	
	RW-18	Apr-16		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365	
	RW-18	Apr-17		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365	
	RW-20	Apr-15		<0.00319	<0.00130	<0.00380	<0.00260	<0.00400	**0.539**	**<0.00380**	<0.00360	<0.00310	0.113	<0.0390	0.00931 J	
	RW-22	Apr-15		<0.00319	<0.00130	<0.00380	<0.00260	<0.00400	**0.575**	**<0.00380**	<0.00360	<0.00310	0.0853	<0.0390	0.00967 J	
North Refinery	MW-23	Apr-15		<0.00798	<0.00320	<0.00960	<0.00650	<0.0100	**0.473**	**<0.00950** J	**<0.00900** J	<0.00760	0.0997	<0.0980 J	<0.00910	
	MW-23	Oct-15		<0.000319	<0.000130	<0.000383	<0.000259	0.00126	0.000677 J	**<0.000381**	<0.000361	0.00206	<0.000387	<0.00393	0.0152	
	MW-23	Apr-16		<0.00160	<0.000650	<0.00192	<0.00130	<0.00199	<0.00186	**<0.00190**	<0.00180	<0.00153	<0.00194	<0.0196	0.0225	
	MW-23	Oct-16		<0.00798	<0.00325	<0.00958	<0.00648	<0.00995	<0.00932	**<0.00952**	**<0.00902**	<0.00765	<0.00968	<0.0982	0.0201 J	
	MW-23	Apr-17		<0.000319	<0.000130	<0.000383	<0.000259	0.00103	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	0.019	
	MW-23	Oct-17		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	0.000578 J	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	0.0154	
	MW-29	Apr-15		<0.000319	<0.000130	0.000819 J	<0.000260	<0.000400	<0.000370	**<0.000380**	<0.000360	<0.000310	<0.000390	<0.00390	0.00075 J	
	MW-29	Oct-15		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	0.000791 J	
	MW-29	Apr-16		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365	
	MW-29	Oct-16		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365	
	MW-29	Apr-17		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365	
	MW-29	Oct-17		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365	
	MW-39	Apr-15		<0.000319	<0.000130	<0.000380	<0.000260	<0.000400	<0.000370	**<0.000380**	<0.000360	<0.000310	<0.000390	<0.00390	0.000987 J	
	MW-39	Oct-15		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	0.000527 J	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	0.000697 J	
	MW-39	Apr-16		<0.00798	<0.00325	<0.00958	<0.00648	<0.00995	**0.0526**	**<0.00952**	**<0.00902**	<0.00765	<0.00968	<0.0982	<0.00912	
	MW-39	Oct-16		<0.0319	<0.0130	<0.0383	<0.0259	<0.0398	**0.0673** J	**<0.0381**	**<0.0361**	<0.0306	<0.0387	<0.393	<0.0365	
	MW-39	Apr-17		<0.00319	<0.00130	<0.00383	<0.00259	<0.00398	**0.0710**	**<0.00381**	<0.00361	<0.00306	0.00534 J	<0.0393	0.00878 J	
	MW-39	Oct-17		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	**0.0599**	**<0.000381**	<0.000361	<0.000306	0.00604	<0.00393	0.00851	
	MW-40	Apr-14		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393		
	MW-40	Apr-15		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	0.0046	
	MW-40	Apr-16		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	0.000760 J	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	0.0146	
	MW-40	Apr-17		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	0.000538 J	**<0.000381**	<0.000361	0.000706 J	<0.000387	<0.00393	0.0167	
	MW-41	Apr-14		<0.000500	<0.000500	<0.000500	<0.000400	<0.000500	<0.00050	**<0.000400**	<0.000500	<0.000700	<0.000600	<0.00100		
	MW-41	Apr-15		<0.000319	<0.000130	<0.000380	<0.000260	<0.000400	<0.000370	**<0.000380**	<0.000360	<0.000310	<0.000390	<0.00390	0.0022	
	MW-41	Apr-16		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	0.00444	
	MW-41	Apr-17		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	0.00499	
	MW-42	Apr-14		<0.000500	<0.000500	<0.000500	<0.000400	<0.000500	**0.0630**	**<0.000400**	<0.000500	<0.000700	<0.000600	<0.00100		
	MW-42	Apr-15		<0.00319	<0.00130	<0.00380	<0.00260	<0.00400	**0.0247**	**<0.00380**	<0.00360	<0.00310	<0.00390	<0.0390	0.00592 J	
	MW-42	Apr-16		<0.00160	<0.000650	<0.00192	<0.00130	<0.00199	**0.0169**	**<0.00190**	<0.00180	<0.00153	<0.00194	<0.0196	0.00562	
	MW-42	Apr-17		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	0.00352	**<0.000381**	<0.000361	0.000951 J	<0.000387	<0.00393	0.00553	
	MW-43	Apr-15		<0.00319	<0.00130	<0.00380	<0.00260	<0.00400	**0.0576**	**<0.00380** J	<0.00360 J	0.00376 J	0.00448 J	<0.0390 J	0.00912 J	
	MW-43	Oct-15		<0.00319	<0.00130	<0.00383	<0.00259	<0.00398	**0.477**	**<0.00381**	<0.00361	0.00782 J	0.101	<0.0393	0.00763 J	
	MW-43	Apr-16		<0.0798	<0.0325	<0.0958	<0.0648	<0.0995	**0.502**	**<0.0952**	**<0.0902**	<0.0765	0.112 J	<0.982	<0.0912	
	MW-43	Oct-16		<0.0798	<0.0325	<0.0958	<0.0648	<0.0995	**0.433**	**<0.0952**	**<0.0902**	<0.0765	<0.0968	<0.982	<0.0912	
	MW-43	Apr-17		<0.0160	<0.00650	<0.0192	<0.0130	<0.0199	**0.497**	**<0.0190**	**<0.0180**	<0.0153	0.108	<0.196	<0.0182	
	MW-43	Oct-17		<0.0160	<0.00650	<0.0192	<0.0130	<0.0199	**0.839**	**<0.0190**	**<0.0180**	<0.0153	**0.182**	<0.196	0.0204 J	
	MW-59	Apr-14		<0.000500	<0.000500	<0.000500	<0.000400	<0.000500	<0.00050	**<0.000400**	<0.000500	<0.000700	<0.000600	<0.00100		
	MW-59	Apr-15		<0.000319	<0.000130	<0.000380	<0.000260	<0.000400	<0.000370	**<0.000380**	<0.000360	<0.000310	<0.000390	<0.00390	0.00132	
	MW-59	Apr-16		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	0.00186	
	MW-59	Apr-17		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	0.00297	
	MW-60	Apr-15		<0.000319	0.000307 J	<0.000380	<0.000260	<0.000400	0.000879 J	**<0.000380**	0.000376 J	<0.000310	<0.000390	<0.00390	0.00249	
	MW-60	Apr-15	FD	<0.000319	<0.000130	<0.000380	<0.000260	<0.000400	0.000430 J	**<0.000380**	<0.000360	<0.000310	<0.000390	<0.00390	0.00112	
	MW-60	Oct-15		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	0.00287	
	MW-60	Oct-15	FD	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	0.00293	
	MW-60	Apr-16		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	0.00309	
	MW-60	Apr-16	FD	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	0.000402 J	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	0.00268	

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

2017 Annual Groundwater Monitoring Report

HollyFrontier Navajo Refining LLC, Artesia Refinery, Artesia, New Mexico

				Analyte Group:	Volatile Organic Compounds											
				Analyte:	1,1,1-Tri-chloroethane	1,1,2,2-Tetra-chloroethane	1,1,2-Tri-chloroethane	1,1-Dichloro-ethane	1,1-Dichloro-ethene	1,2,4-Trimethyl-benzene	1,2-Dibromo-ethane	1,2-Dichloro-ethane	1,2-Dichloro-propane	1,3,5-Trimethyl-benzene	2-Butanone	2-Phenyl-butane
				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:	0.06	0.01	0.005	0.025	0.007	0.015	0.00005	0.005	0.005	0.12	5.56	---
				CGWSL Source:	WQCC HH	WQCC HH	USEPA MCL	WQCC HH	USEPA MCL	USEPA TW	USEPA MCL	USEPA MCL	USEPA MCL	USEPA TW	NMED TW	
Area	**Well ID**	**Date**	**Dup**													
North Refinery	MW-60	Oct-16		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	0.000948 J	**<0.000381**	<0.000361	<0.000306	<0.000387	0.00609 J	0.00328
	MW-60	Oct-16	FD	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	0.000618 J	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	0.00312
	MW-60	Apr-17		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	0.00293
	MW-60	Apr-17	FD	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	0.00274
	MW-60	Oct-17		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	0.000685 J	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	0.00319
	MW-60	Oct-17	FD	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	0.000753 J	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	0.00322
	MW-61	Apr-15		<0.00319	<0.00130	<0.00380	<0.00260	<0.00400	**0.531**	**<0.00380** J	<0.00360 J	<0.00310	**0.130**	<0.0390 J	0.0168
	MW-61	Oct-15		<0.00319	<0.00130	<0.00383	<0.00259	<0.00398	**0.233**	**<0.00381**	<0.00361	<0.00306	<0.00387	<0.0393	0.0115
	MW-61	Apr-16		<0.00160	<0.000650	<0.00192	<0.00130	<0.00199	**0.139**	**<0.00190**	<0.00180	<0.00153	<0.00194	<0.0196	0.0073
	MW-61	Oct-16		<0.00798	<0.00325	<0.00958	<0.00648	<0.00995	**0.119**	**<0.00952**	**<0.00902**	<0.00765	<0.00968	<0.0982	0.0114 J
	MW-61	Apr-17		<0.00798	<0.00325	<0.00958	<0.00648	<0.00995	**0.118**	**<0.00952**	**<0.00902**	<0.00765	<0.00968	<0.0982	0.011 J
	MW-61	Oct-17		<0.000319	<0.000130	<0.000383	1/0/1900 J	<0.000398	**0.141**	**<0.000381**	<0.000361	<0.000306	0.00349	<0.00393	0.0132
	MW-62	Apr-15		<0.00319	<0.00130	<0.00380	<0.00260	<0.00400	<0.00370	**<0.00380** J	<0.00360 J	<0.00310	<0.00390	<0.0390 J	0.0144
	MW-62	Oct-15		<0.00638	<0.00260	<0.00766	<0.00518	<0.00796	**0.662**	**<0.00762**	**<0.00722**	<0.00612	**0.158**	<0.0786	0.0202
	MW-62	Apr-16		<0.00798	<0.00325	<0.00958	<0.00648	<0.00995	**0.502**	**<0.00952**	**<0.00902**	<0.00765	0.114	<0.0982	<0.00912
	MW-62	Oct-16		<0.0319 J6	<0.0130 J6	<0.0383 J6	<0.0259 J6	<0.0398 J6	**0.620** J6	**<0.0381** J6	**<0.0361** J6	<0.0306 J6	**0.149** J6	<0.393 J6	<0.0365 J6
	MW-62	Apr-17		<0.0160	<0.00650	<0.0192	<0.0130	<0.0199	**0.646**	**<0.0190**	**<0.0180**	<0.0153	**0.149**	<0.196	<0.0182
	MW-62	Oct-17		<0.0319	<0.0130	<0.0383	<0.0259	<0.0398	**0.759**	**<0.0381**	**<0.0361**	<0.0306	**0.173**	<0.393	<0.0365
	MW-67	Apr-15		<0.00160	<0.000650	<0.00190	<0.00130	<0.00200	0.00500 J	**<0.00190**	<0.00180	<0.00150	<0.00190	<0.0200 J4	
	MW-67	Oct-15		<0.000319	<0.000130	<0.000380	<0.000260	<0.000400	0.00108	**<0.000380**	<0.000360	<0.000310	<0.000390	<0.00390	0.00907
	MW-67	Apr-16		<0.00638	<0.00260	<0.00766	<0.00518	<0.00796	<0.00746	**<0.00762**	**<0.00722**	<0.00612	<0.00774	<0.0786	<0.00730
	MW-67	Oct-16		<0.00319	<0.00130	<0.00383	<0.00259	<0.00398	0.0108	**<0.00381**	<0.00361	<0.00306	<0.00387	<0.0393	0.00716 J
	MW-67	Apr-17		<0.00160	<0.000650	<0.00192	<0.00130	<0.00199	0.00498 J	**<0.00190**	<0.00180	<0.00153	<0.00194	<0.0196	0.00859
	MW-67	Oct-17		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	0.00119	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	0.0057
	MW-90	Apr-15		<0.000319	<0.000130	<0.000380	<0.000260	<0.000400	<0.000370	**<0.000380**	<0.000360	<0.000310	<0.000390	<0.00390	0.00285
	MW-90	Oct-15		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	0.00206
	MW-90	Apr-16		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	0.000888 J
	MW-90	Oct-16		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365
	MW-90	Apr-17		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	0.00243
	MW-90	Oct-17		<0.000319	1/0/1900 J	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	0.00425
	MW-91	Apr-15		<0.00319	<0.00130	<0.00380	<0.00260	<0.00400	**0.184**	**<0.00380**	<0.00360	<0.00310	0.0476	<0.0390	0.00796 J
	MW-91	Oct-15		<0.00798	<0.00325	<0.00958	<0.00648	<0.00995	**0.226**	**<0.00952**	**<0.00902**	<0.00765	0.0626	<0.0982	0.0134 J
	MW-91	Apr-16		<0.0160	<0.00650	<0.0192	<0.0130	<0.0199	**0.266**	**<0.00190**	**<0.0180**	<0.0153	0.0719	<0.196	<0.0182
	MW-91	Oct-16		<0.0798	<0.0325	<0.0958	<0.0648	<0.0995	**0.218** J	**<0.0952**	**<0.0902**	<0.0765	<0.0968	<0.982	<0.0912
	MW-91	Apr-17		<0.0319	<0.0130	<0.0383	<0.0259	<0.0398	**0.235**	**<0.0381**	**<0.0361**	<0.0306	0.0634 J	<0.393	<0.0365
	MW-91	Oct-17		<0.0319	<0.0130	<0.0383	<0.0259	<0.0398	**0.221**	**<0.0381**	**<0.0361**	<0.0306	0.0693 J	<0.393	<0.0365
	MW-92	Apr-16		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	**0.0588**	**<0.000381**	<0.000361	<0.000306	0.0174	<0.00393	0.00699
	MW-92	Oct-16		<0.00638	<0.00260	<0.00766	<0.00518	<0.00796	**0.0308**	**<0.00762**	**<0.00722**	<0.00612	0.00835 J	<0.0786	<0.00730
	MW-93	Apr-15		<0.00319	<0.00130	<0.00380	<0.00260	<0.00400	**0.206**	**<0.00380** J	<0.00360 J	<0.00310	0.0368	<0.0390 J	0.00716 J
	MW-93	Oct-15		<0.00319	<0.00130	<0.00383	<0.00259	<0.00398	**0.241**	**<0.00381**	<0.00361	<0.00306	0.0414	<0.0393	0.00653 J
	MW-93	Apr-16		<0.00160	<0.000650	<0.00192	<0.00130	<0.00199	**0.0331**	**<0.00190**	<0.00180	<0.00153	0.00543	<0.0196	0.00208 J
	MW-93	Oct-16		<0.00319	<0.00130	<0.00383	<0.00259	<0.00398	**0.103**	**<0.00381**	<0.00361	<0.00306	0.0146	<0.0393	0.00379 J
	MW-93	Apr-17		<0.00798	<0.00325	<0.00958	<0.00648	<0.00995	**0.148**	**<0.00952**	**<0.00902**	<0.00765	0.0236 J	<0.0982	<0.00912
	MW-94	Oct-15		<0.00319	<0.00130	<0.00383	<0.00259	<0.00398	**0.432**	**<0.00381**	<0.00361	<0.00306	0.0857	<0.0393	0.0283
	MW-94	Apr-16		<0.0160	<0.00650	<0.0192	<0.0130	<0.0199	**0.489**	**<0.0190**	**<0.0180**	<0.0153	0.100	<0.196 J4	0.0403 J
	MW-94	Oct-16		<0.00160	<0.000650	<0.00192	<0.00130	<0.00199	**0.458**	**<0.00190**	<0.00180	<0.00153	0.0917	<0.0196	0.0303
	MW-94	Apr-17		<0.00798	<0.00325	<0.00958	<0.00648	<0.00995	**0.398**	**<0.00952**	**<0.00902**	<0.00765	0.0785	<0.0982	0.0317
	MW-95	Apr-14		<0.000500	<0.000500	<0.000500	<0.000400	<0.000500	<0.00050	**<0.000400**	<0.000500	<0.000700	<0.000600	<0.00100	
	MW-95	Apr-15		<0.000319	<0.000130	<0.000380	<0.000260	<0.000400	<0.000370	**<0.000380**	<0.000360	<0.000310	<0.000390	<0.00390	0.00288
	MW-95	Apr-16		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393 J4	0.0033
	MW-95	Apr-17		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	0.0024
	MW-96	Apr-15		<0.000319	<0.000130	<0.000380	<0.000260	<0.000400	0.000553 J	**<0.000380**	<0.000360	<0.000310	<0.000390	<0.00390	0.00551
	MW-96	Oct-15		<0.160	<0.0650	<0.192	<0.130	<0.199	**<0.186**	**<0.190**	**<0.180**	<0.153	**<0.194**	<1.96	<0.182
	MW-96	Apr-16		<0.00638	<0.00260	<0.00766	<0.00518	<0.00796	<0.00746	**<0.00762**	**<0.00722**	<0.00612	<0.00774	<0.0786	0.0104 J
	MW-96	Oct-16		<0.0160	<0.00650	<0.0192	<0.0130	<0.0199	**<0.0186**	**<0.0190**	**<0.0180**	<0.0153	<0.0194	<0.196	<0.0182
	MW-96	Apr-17		<0.0160	<0.00650	<0.0192	<0.0130	<0.0199	**<0.0186**	**<0.0190**	**<0.0180**	<0.0153	<0.0194	<0.196	<0.0182
	MW-96	Oct-17		<0.0160	<0.00650	<0.0192	<0.0130	<0.0199	**<0.0186**	**<0.0190**	**<0.0180**	<0.0153	<0.0194	<0.196	<0.0182
	MW-98	Apr-15		<0.00798	<0.00320	<0.00960	<0.00650	<0.0100	**0.360**	**<0.00950** J	**<0.00900** J	<0.00760	0.0870	<0.0980 J	0.00919 J
	MW-98	Oct-15		<0.00798	<0.00325	<0.00958	<0.00648	<0.00995	**0.380**	**<0.00952**	**<0.00902**	<0.00765	0.0836	<0.0982	<0.00912
	MW-98	Apr-16		<0.0319	<0.0130	<0.0383	<0.0259	<0.0398	**0.177**	**<0.0381**	**<0.0361**	<0.0306	0.0462 J	<0.393	<0.0365
	MW-98	Oct-16		<0.0319	<0.0130	<0.0383	<0.0259	<0.0398	**0.299**	**<0.0381**	**<0.0361**	<0.0306	0.0823 J	<0.393	<0.0365
	MW-98	Apr-17		<0.0319	<0.0130	<0.0383	<0.0259	<0.0398	**0.382**	**<0.0381**	**<0.0361**	<0.0306	0.0852 J	<0.393	<0.0365
	MW-98	Oct-17		<0.0160	<0.00650	<0.0192	<0.0130	<0.0199	**0.488**	**<0.0190**	**<0.0180**	<0.0153	0.118	<0.196	<0.0182
	MW-137	Oct-15		<0.0319	<0.0130	<0.0383	<0.0259	<0.0398	**0.437**	**<0.0381**	**<0.0361**	<0.0306	0.102	<0.393	<0.0365
	MW-137	Apr-16		<0.0798	<0.0325	<0.0958	<0.0648	<0.0995	**0.460**	**<0.0952**	**<0.0902**	<0.0765	0.102 J	<0.982	<0.0912
	MW-137	Oct-16		<0.0798	<0.0325	<0.0958	<0.0648	<0.0995	**0.421**	**<0.0952**	**<0.0902**	<0.0765	<0.0968	<0.982	<0.0912
	MW-137	Apr-17		<0.0638	<0.0260	<0.0766	<0.0518	<0.0796	**0.414**	**<0.0762**	**<0.0722**	<0.0612	0.0969 J	<0.786	<0.0730
	MW-137	Oct-17		<0.0638	<0.0260	<0.0766	<0.0518	<0.0796	**0.559**	**<0.0762**	**<0.0722**	<0.0612	**0.137** J	<0.786	<0.0730
	MW-138	Oct-15		<0.00638	<0.00260	<0.00766	<0.00518	<0.00796	**0.0792**	**<0.00762**	**<0.00722**	<0.00612	0.0189 J	<0.0786	0.0144 J
	MW-138	Apr-16		<0.00319	<0.00130	<0.00383	<0.00259	<0.00398	<0.00373	**<0.00381**	<0.00361	<0.00306	<0.00387	<0.0393	0.0138
	MW-138	Oct-16		<0.00319	<0.00130	<0.00383	<0.00259	<0.00398	<0.00373	**<0.00381**	<0.00361	<0.00306	<0.00387	<0.0393	0.0115
	MW-138	Apr-17		<0.00319	<0.00130	<0.00383	<0.00259	<0.00398	<0.00373	**<0.00381**	<0.00361	<0.00306	<0.00387	<0.0393	0.0116
	MW-138	Oct-17		<0.00160	<0.000650	<0.00192	<0.00130	<0.00199	0.00547	**<0.00190**	<0.00180	<0.00153	<0.00194	<0.0196	0.0119
	RW-1	Apr-15		<0.0160	<0.00650	<0.0190	<0.0130	<0.0200	**<0.0190**	**<0.0190**	**<0.0180**	<0.0150	<0.0190	<0.200	<0.0180
	RW-1R	Apr-16		<0.000319	<0.000130	<0.000383	<0.000259	0.000763 J	0.00369	**<0.000381**	<0.000361	<0.000306	0.000516 J	<0.00393	0.000968 J
	RW-1R	Apr-17		<0.00319	<0.00130	<0.00383	<0.00259	<0.00398	<0.00373	**<0.00381**	<0.00361	<0.00306	<0.00387	<0.0393	0.00414 J
	RW-2	Apr-15		<0.00319	<0.00130	<0.00380	<0.00260	<0.00400	**0.330**	**<0.00380** J	<0.00360 J	<0.00310	0.0772	<0.0390 J	0.012
	RW-2R	Apr-16		<0.0160	<0.00650	<0.0192	<0.0130	<0.0199	**0.188**	**<0.0190**	**<0.0180**	<0.0153	0.0419 J	<0.196	<0.0182
	RW-2R	Apr-17		<0.0160	<0.00650	<0.0192	<0.0130	<0.0199	**0.271**	**<0.0190**	**<0.0180**	<0.0153	0.0664	<0.196	<0.0182
	RW-7	Apr-15		<0.000319	<0.000130	<0.000380	<0.000260	<0.000400	**0.0818**	**<0.000380**	<0.000360	<0.000310	0.000663 J	<0.00390	0.0146
	RW-7R	Apr-16		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393 J4	<0.000365
	RW-7R	Apr-17		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365
	RW-8	Apr-15		<0.00319	<0.00130	<0.00380	<0.00260	<0.00400	0.00710 J	**<0.00380**	<0.00360	<0.00310	<0.00390	<0.0390	0.00942 J
	RW-8	Apr-17		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	**0.0928**	**<0.000381**	0.00343	<0.000306	0.0249	<0.00393	0.0117
	RW-9	Apr-14		<0.000500	<0.000500	<0.000500	<0.000400	<0.000500	0.00650	**<0.000400**	<0.000500	<0.000700	<0.000600	<0.00100	
	RW-9	Apr-15		<0.0160	<0.00650	<0.0190	<0.0130	<0.0200	**<0.0190**	**<0.0190**	**<0.0180**	<0.0150	<0.0190	<0.200	<0.0180
	RW-9	Apr-16		<0.00160	<0.000650	<0.00192	<0.00130	<0.00199	**0.0283**	**<0.00190**	<0.00180	<0.00153	<0.00194	<0.0196	0.0126
	RW-9	Apr-17		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	0.000991 J	**<0.000381**	<0.000361	0.00182	<0.000387	<0.00393	0.0175
	RW-10	Apr-14		<0.000500	<0.000500	<0.000500	<0.000400	<0.000500	<0.00050	**<0.000400**	<0.000500	<0.000700	<0.000600	<0.00100	
	RW-10	Apr-15		<0.000319	<0.000130	<0.000380	<0.000260	<0.000400	<0.000370	**<0.000380**	<0.000360	<0.000310	<0.000390	<0.00390	<0.000360
	RW-10	Apr-16		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365
	RW-10	Apr-17		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	0.000569 J
	RW-16	Apr-14		<0.000500	<0.000500	<0.000500	<0.000400	<0.000500	<0.00050	**<0.000400**	<0.000500	<0.000700	<0.000600	<0.00100	
	RW-16	Apr-14	FD	<0.000319	<0.000130	<0.000380	<0.000260	<0.000400	<0.000370	**<0.000380**	<0.000360	<0.000310	<0.000390	<0.00390	<0.000360
	RW-16	Apr-15		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000360
	RW-16	Apr-16		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365
	RW-16	Apr-17		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365
	RW-17	Apr-14		<0.000500	<0.000500	<0.000500	<0.000400	<0.000500	<0.00050	**<0.000400**	<0.000500	<0.000700	<0.000600	<0.00100	
	RW-17	Apr-15		<0.000319	<0.000130	<0.000380	<0.000260	<0.000400	<0.000370	**<0.000380**	<0.000360	<0.000310	<0.000390	<0.00390	<0.000360
	RW-17	Apr-16		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365
	RW-17	Apr-17		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365

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

2017 Annual Groundwater Monitoring Report

HollyFrontier Navajo Refining LLC, Artesia Refinery, Artesia, New Mexico

				Analyte Group:	Volatile Organic Compounds											
				Analyte:	1,1,1-Tri-chloroethane	1,1,2,2-Tetra-chloroethane	1,1,2-Tri-chloroethane	1,1-Dichloro-ethane	1,1-Dichloro-ethene	1,2,4-Trimethyl-benzene	1,2-Dibromo-ethane	1,2-Dichloro-ethane	1,2-Dichloro-propane	1,3,5-Trimethyl-benzene	2-Butanone	2-Phenyl-butane
				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:	0.06	0.01	0.005	0.025	0.007	0.015	0.00005	0.005	0.005	0.12	5.56	---
				CGWSL Source:	WQCC HH	WQCC HH	USEPA MCL	WQCC HH	USEPA MCL	USEPA TW	USEPA MCL	USEPA MCL	USEPA MCL	USEPA TW	NMED TW	
Area	**Well ID**	**Date**	**Dup**													
North RO Reject Field	MW-117	Apr-15		<0.000319	<0.000130	<0.000380	<0.000260	<0.000400	0.00285	**<0.000380**	<0.000360	<0.000310	0.000897 J	<0.00390	<0.000360
	MW-117	Oct-15		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365
	MW-117	Apr-16		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365
	MW-117	Oct-16		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365
	MW-117	Apr-17		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365
	MW-117	Oct-17		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365
	MW-118	Apr-15		<0.000319	<0.000130	<0.000380	<0.000260	<0.000400	0.000863 J	**<0.000380**	<0.000360	<0.000310	<0.000390	<0.00390	<0.000360
	MW-118	Oct-15		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365
	MW-118	Apr-16		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365
	MW-118	Oct-16		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365
	MW-118	Apr-17		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365
	MW-118	Oct-17		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365
	MW-119	Apr-15		<0.000319	<0.000130	<0.000380	<0.000260	<0.000400	<0.000370	**<0.000380**	<0.000360	<0.000310	<0.000390	<0.00390	<0.000360
	MW-119	Oct-15		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365
	MW-119	Apr-16		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365
	MW-119	Oct-16		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365
	MW-119	Apr-17		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365
	MW-119	Oct-17		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365
NCL	MW-18	Apr-14		<0.000500	<0.000500	<0.000500	<0.000400	<0.000500	<0.00050	**<0.000400**	<0.000500	<0.000700	<0.000600	<0.00100	
	MW-18	Apr-15		<0.000319	<0.000130	<0.000380	<0.000260	<0.000400	<0.000370	**<0.000380**	<0.000360	<0.000310	<0.000390	<0.00390	<0.000360
	MW-18	Apr-16		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365
	MW-18	Apr-17		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365
	MW-45	Apr-15		<0.000319	<0.000130	<0.000380	<0.000260	<0.000400	<0.000370	**<0.000380**	<0.000360	<0.000310	<0.000390	<0.00390	<0.000360
	MW-45	Oct-15		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365
	MW-45	Apr-16		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365
	MW-45	Oct-16		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365
	MW-45	Apr-17		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365
	MW-45	Oct-17		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365
	MW-53	Apr-14		<0.000500	<0.000500	<0.000500	<0.000400	<0.000500	<0.00050	**<0.000400**	<0.000500	<0.000700	<0.000600	<0.00100	
	MW-53	Apr-15		<0.000319	<0.000130	<0.000380	<0.000260	<0.000400	<0.000370	**<0.000380**	<0.000360	<0.000310	<0.000390	<0.00390	<0.000360
	MW-53	Apr-16		<0.000319	<0.000130 J4	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365
	MW-53	Apr-17		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365
	MW-54A	Apr-15		<0.000319	<0.000130	<0.000380	<0.000260	<0.000400	<0.000370	**<0.000380**	<0.000360	<0.000310	<0.000390	<0.00390	0.000428 J
	MW-54A	Oct-15		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	0.000742 J
	MW-54A	Apr-16		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365
	MW-54A	Oct-16		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365
	MW-54A	Apr-17		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365
	MW-54A	Oct-17		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	0.00118
	MW-54B	Apr-13		<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	**<0.00500**	<0.00500	<0.00500	<0.00500	<0.0100	<0.00500
	MW-54B	Apr-15		<0.000319	<0.000130	<0.000380	<0.000260	<0.000400	<0.000370	**<0.000380**	<0.000360	<0.000310	<0.000390	<0.00390	<0.000360
	MW-54B	Apr-17		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365
	MW-55	Apr-15		<0.000319	<0.000130	<0.000380	<0.000260	<0.000400	<0.000370	**<0.000380**	<0.000360	<0.000310	<0.000390	<0.00390	<0.000360
	MW-55	Oct-15		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365
	MW-55	Apr-16		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	**0.0599**	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365
	MW-55	Oct-16		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365
	MW-55	Apr-17		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365
	MW-55	Oct-17		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365
	MW-56	Apr-15		<0.000319	<0.000130	<0.000380	<0.000260	<0.000400	<0.000370	**<0.000380**	<0.000360	<0.000310	<0.000390	<0.00390	<0.000360
	MW-56	Oct-15		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365
	MW-56	Apr-16		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365
	MW-56	Oct-16		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365
	MW-56	Apr-17		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365
	MW-108	Apr-15		<0.00319	<0.00130	<0.00380	<0.00260	<0.00400	**0.0465**	**<0.00380**	<0.00360	<0.00310	0.00603 J	<0.0390	0.00565 J
	MW-108	Oct-15		<0.00319	<0.00130	<0.00383	<0.00259	<0.00398	**0.0616**	**<0.00381**	<0.00361	<0.00306	0.00805 J	<0.0393	0.00655 J
	MW-108	Apr-16		<0.0160	<0.00650	<0.0192	<0.0130	<0.0199	**0.0599**	**<0.0190**	**<0.0180**	<0.0153	<0.0194	<0.196	<0.0182
	MW-108	Oct-16		<0.00798	<0.00325	<0.00958	<0.00648	<0.00995	**0.0561**	**<0.00952**	**<0.00902**	<0.00765	<0.00968	<0.0982	<0.00912
	MW-108	Apr-17		<0.00798	<0.00325	<0.00958	<0.00648	<0.00995	**0.0605**	**<0.00952**	**<0.00902**	<0.00765	<0.00968	<0.0982	<0.00912
	MW-108	Oct-17		<0.00160	<0.000650	<0.00192	<0.00130	<0.00199	**0.0451**	**<0.00190**	<0.00180	<0.00153	0.00330 J	<0.0196	0.00527
	NCL-31	Apr-15		<0.000319	<0.000130	<0.000380	<0.000260	<0.000400	<0.000370	**<0.000380**	<0.000360	<0.000310	<0.000390	<0.00390	0.000683 J
	NCL-31	Oct-15		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	0.00164
	NCL-31	Apr-16		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	0.000595 J
	NCL-31	Oct-16		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	0.000554 J	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365
	NCL-31	Apr-17		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	0.000971 J
	NCL-31	Oct-17		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	0.000489 J	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	0.000428 J
	NCL-32	Apr-15		<0.000319	<0.000130	<0.000380	<0.000260	<0.000400	<0.000370	**<0.000380**	<0.000360	<0.000310	<0.000390	<0.00390	<0.000360
	NCL-32	Oct-15		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365
	NCL-32	Apr-16		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365
	NCL-32	Oct-16		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365
	NCL-32	Apr-17		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365
	NCL-32	Oct-17		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365
	NCL-33	Apr-15		<0.000319	<0.000130	<0.000380	<0.000260	<0.000400	<0.000370	**<0.000380**	<0.000360	<0.000310	<0.000390	<0.00390	<0.000360
	NCL-33	Oct-15		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398 J	<0.000373	**<0.000381** J	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365
	NCL-33	Apr-16		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365
	NCL-33	Oct-16		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365
	NCL-33	Apr-17		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365
	NCL-33	Oct-17		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365
	NCL-34A	Apr-15		<0.000319	<0.000130	<0.000380	<0.000260	<0.000400	**0.0979**	**<0.000380**	<0.000360	<0.000310	0.00122	<0.00390	0.0159
	NCL-34A	Oct-15		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	**0.0589**	**<0.000381**	<0.000361	<0.000306	0.000423 J	<0.00393	0.0174
	NCL-34A	Apr-16		<0.0160	<0.00650	<0.0192	<0.0130	<0.0199	**0.102**	**<0.0190**	**<0.0180**	<0.0153	<0.0194	<0.196	0.019 J
	NCL-34A	Oct-16		<0.0319	<0.0130	<0.0383	<0.0259	<0.0398	**0.0754** J	**<0.0381**	**<0.0361**	<0.0306	<0.0387	<0.393	<0.0365
	NCL-34A	Apr-17		<0.0160	<0.00650	<0.0192	<0.0130	<0.0199	**0.0560**	**<0.0190**	**<0.0180**	<0.0153	<0.0194	<0.196	0.0184 J
	NCL-34A	Oct-17		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	**0.0290**	**<0.000381**	<0.000361	<0.000306	0.00141	<0.00393	0.0216
	NCL-44	Apr-15		<0.000319	<0.000130	<0.000380	<0.000260	<0.000400	<0.000370	**<0.000380**	<0.000360	<0.000310	<0.000390	<0.00390	0.00039 J
	NCL-44	Oct-15		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	0.000419 J
	NCL-44	Apr-16		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	0.00144
	NCL-44	Oct-16		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	0.000672 J
	NCL-44	Apr-17		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	0.000618 J
	NCL-44	Oct-17		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	0.000487 J
	NCL-49	Apr-15		<0.000319	<0.000130	<0.000380	<0.000260	<0.000400	<0.000370	**<0.000380**	<0.000360	<0.000310	<0.000390	<0.00390	<0.000360
	NCL-49	Apr-15	FD	<0.000319	<0.000130	<0.000380	<0.000260	<0.000400	<0.000370	**<0.000380**	<0.000360	<0.000310	<0.000390	<0.00390	<0.000360
	NCL-49	Oct-15		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365
	NCL-49	Oct-15	FD	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365
	NCL-49	Apr-16		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.00762**	**<0.00722**	<0.00612	<0.00774	<0.0786	<0.000365
	NCL-49	Apr-16	FD	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365
	NCL-49	Oct-16		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365
	NCL-49	Oct-16	FD	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365
	NCL-49	Apr-17		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365
	NCL-49	Apr-17	FD	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365
	NCL-49	Oct-17		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365
	NCL-49	Oct-17	FD	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365

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

2017 Annual Groundwater Monitoring Report

HollyFrontier Navajo Refining LLC, Artesia Refinery, Artesia, New Mexico

				Analyte Group:	Volatile Organic Compounds											
				Analyte:	1,1,1-Tri-chloroethane	1,1,2,2-Tetra-chloroethane	1,1,2-Tri-chloroethane	1,1-Dichloro-ethane	1,1-Dichloro-ethene	1,2,4-Trimethyl-benzene	1,2-Dibromo-ethane	1,2-Dichloro-ethane	1,2-Dichloro-propane	1,3,5-Trimethyl-benzene	2-Butanone	2-Phenyl-butane
				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:	0.06	0.01	0.005	0.025	0.007	0.015	0.00005	0.005	0.005	0.12	5.56	---
				CGWSL Source:	WQCC HH	WQCC HH	USEPA MCL	WQCC HH	USEPA MCL	USEPA TW	USEPA MCL	USEPA MCL	USEPA MCL	USEPA TW	NMED TW	
Area	Well ID	Date	Dup													
South Refinery	KWB-2R	Apr-15		<0.00319	<0.00130	<0.00380	<0.00260	<0.00400	**0.307**	**<0.00380**	<0.00360	<0.00310	<0.00390	<0.0390	0.0107	
	KWB-2R	Oct-15		<0.0319	<0.0130	<0.0383	<0.0259	<0.0398	**0.317**	**<0.0381**	**<0.0361**	<0.0306	<0.0387	<0.393	<0.0365	
	KWB-2R	Apr-16		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	**0.0497**	**<0.000381**	<0.000361	<0.000306	0.000489 J	<0.00393	0.0035	
	KWB-2R	Oct-16		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	**0.0347**	**<0.000381**	<0.000361	<0.000306	0.000427 J	<0.00393	0.00588	
	KWB-2R	Apr-17		<0.000319	0.00016 J	<0.000383	<0.000259	<0.000398	**0.0341**	**<0.000381**	<0.000361	<0.000306	<0.000387	0.0164	0.00279	
	KWB-2R	Oct-17		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	**0.150**	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	0.00996	
	KWB-5	Apr-15		<0.000319	<0.000130	<0.000380	<0.000260	<0.000400	**0.0158**	**<0.000380**	<0.000360	<0.000310	0.00419	<0.00390	0.00291	
	KWB-5	Oct-15		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	0.00334	**<0.000381**	<0.000361	<0.000306	0.00179	<0.00393	0.00314	
	KWB-5	Apr-16		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	0.00535	**<0.000381**	<0.000361	<0.000306	0.000901 J	<0.00393	0.00242	
	KWB-5	Oct-16		<0.00160	<0.000650	<0.00192	<0.00130	<0.00199	<0.00186	**<0.00190**	<0.00180	<0.00153	<0.00194	<0.0196	<0.00182	
	KWB-5	Apr-17		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	**0.0172**	**<0.000381**	<0.000361	<0.000306	0.00179	<0.00393	0.0028	
	KWB-5	Oct-17		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	**<0.0932**	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	0.00202	
	KWB-6	Apr-15		<0.00798	<0.00320	<0.00960	<0.00650	<0.0100	**0.680**	**<0.00950**	**0.0119** J	<0.00760	**0.124**	<0.0980	0.00954 J	
	KWB-6	Oct-15		<0.160	<0.0650	<0.192	<0.130	<0.199	**0.325** J	**<0.190**	**<0.180**	<0.153	**<0.194**	<1.96	<0.182	
	KWB-6	Apr-16		<0.00160	<0.000650	<0.00192	<0.00130	<0.00199	**0.876**	**<0.00190**	**0.00683**	<0.00153	**0.134**	<0.0196	0.00944	
	KWB-6	Oct-16		<0.00638	<0.00260	<0.00766	<0.00518	<0.00796	**0.292**	**<0.00762**	**<0.00722**	<0.00612	0.0449	<0.0786	<0.00730	
	KWB-6	Apr-17		<0.00160	<0.000650	<0.00192	<0.00130	<0.00199	**0.399**	**<0.00190**	0.00451 J	<0.00153	0.0517	<0.0196	0.00695	
	KWB-6	Oct-17		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	**0.206**	**<0.000381**	<0.000361	<0.000306	0.0302	<0.00393	0.00483	
	MW-28	Apr-15		<0.0319	<0.0130	<0.0380	<0.0260	<0.0400	**0.0950** J	**<0.0380**	**<0.0360**	<0.0310	<0.0390	<0.390	<0.0360	
	MW-28	Oct-15		<0.0319	<0.0130	<0.0383	<0.0259	<0.0398	**0.151**	**<0.0381**	**<0.0361**	<0.0306	<0.0387	<0.393	<0.0365	
	MW-28	Apr-16		<0.00319	<0.00130	<0.00383	<0.00259	<0.00398	**0.113**	**<0.00381**	<0.00361	<0.00306	0.00861 J	<0.0393	0.0053 J	
	MW-28	Oct-16		<0.0160	<0.00650	<0.0192	<0.0130	<0.0199	**0.253**	**<0.0190**	**<0.0180**	0.0789	0.0202 J	<0.196	<0.0182	
	MW-28	Apr-17		<0.0160	<0.00650	<0.0192	<0.0130	<0.0199	**0.168**	**<0.0190**	**<0.0180**	<0.0153	<0.0194	<0.196	<0.0182	
	MW-28	Oct-17		<0.0160	<0.00650	<0.0192	<0.0130	<0.0199	**0.142**	**<0.0190**	**<0.0180**	<0.0153	<0.0194	<0.196	<0.0182	
	MW-48	Apr-15		<0.00319	<0.00130	<0.00380	<0.00260	<0.00400	**0.140**	**<0.00380**	<0.00360	<0.00310	0.00962 J	<0.0390	0.00641 J	
	MW-48	Oct-15		<0.00160	<0.000650	<0.00192	<0.00130	<0.00199	**0.211**	**<0.00190**	<0.00180	<0.00153	0.00235 J	<0.0196	0.011	
	MW-48	Apr-16		<0.00638	<0.000130	<0.000383	<0.000259	<0.000398	**0.310**	**<0.00762**	**<0.00722**	<0.00612	0.0223	<0.0786	0.00987 J	
	MW-48	Oct-16		<0.00160	<0.000650	<0.00192	<0.00130	<0.00199	**0.323**	**<0.00190**	<0.00180	<0.00153	0.0284	<0.0196	0.0114	
	MW-48	Apr-17		<0.0160	<0.00650	<0.0192	<0.0130	<0.0199	**0.482**	**<0.0190**	**<0.0180**	<0.0153	0.0577	<0.196	<0.0182	
	MW-48	Oct-17		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	**0.368**	**<0.000381**	<0.000361	<0.000306	0.0465	<0.00393	<0.000365	
	MW-50	Apr-15		<0.000319	<0.000130	<0.000380	<0.000260	<0.000400	<0.000370	**<0.000380**	<0.000360	<0.000310	<0.000390	<0.00390	0.000587 J	
	MW-50	Oct-15		<0.000319 J	<0.000130 J	<0.000383 J	<0.000259	<0.000398	<0.000373 J	**<0.000381** J	<0.000361	<0.000306 J	<0.000387 J	<0.00393	0.000946 J	
	MW-50	Apr-16		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365	
	MW-50	Oct-16		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	0.000625 J	
	MW-50	Apr-17		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365	
	MW-50	Oct-17		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365	
	MW-52	Apr-15		<0.000319	<0.000130	<0.000380	<0.000260	<0.000400	<0.000370	**<0.000380**	<0.000360	<0.000310	<0.000390	<0.00390	<0.000360	
	MW-52	Oct-15		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365	
	MW-52	Apr-16		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365	
	MW-52	Oct-16		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365	
	MW-52	Apr-17		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365	
	MW-52	Oct-17		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365	
	MW-64	Apr-16		<0.0160	<0.00650	<0.0192	<0.0130	<0.0199	**0.666**	**<0.0190**	**<0.0180**	<0.0153	**0.140**	<0.196 J4	<0.0182	
	MW-64	Oct-16		<0.0319	<0.0130	<0.0383	<0.0259	<0.0398	**0.435**	**<0.0381**	**<0.0361** J5	<0.0306	0.0904 J	<0.393	<0.0365	
	MW-64	Apr-17		<0.0798	<0.0325	<0.0958	<0.0648	<0.0995	**0.793**	**<0.0952**	**<0.0902**	<0.0765	**0.163** J	<0.982	<0.0912	
	MW-64	Oct-17		<0.0798	<0.0325	<0.0958	<0.0648	<0.0995	**0.643**	**<0.0952**	**<0.0902**	<0.0765	**0.130** J	<0.982	<0.0912	
	MW-65	Apr-15		<0.00319	<0.00130	<0.00380	<0.00260	<0.00400	**0.0514**	**<0.00380**	<0.00360	<0.00310	0.0228	<0.0390	0.0105	
	MW-65	Apr-16		<0.00319	<0.00130	<0.00383	<0.00259	<0.00398	**0.0309**	**<0.00381**	<0.00361	<0.00306	0.0165	<0.0393	0.00821 J	
	MW-65	Oct-16		<0.00638	<0.00260	<0.00766	<0.00518	<0.00796	<0.00746	**<0.00762**	**<0.00722**	<0.00612	<0.00774	<0.0786	<0.00730	
	MW-65	Apr-17		<0.0319	<0.0130	<0.0383	<0.0259	<0.0398	**<0.0373**	**<0.0381**	**<0.0361**	<0.0306	<0.0387	<0.393	<0.0365	
	MW-65	Oct-17		<0.0319	<0.0130	<0.0383	<0.0259	<0.0398	**<0.0373**	**<0.0381**	**<0.0361**	<0.0306	<0.0387	<0.393	<0.0365	
	MW-66	Apr-15		<0.0160	<0.00650	<0.0190	<0.0130	<0.0200	**<0.0190**	**<0.0190**	**<0.0180**	<0.0150	<0.0190	<0.200	<0.0180	
	MW-66	Oct-15		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	0.00409	**<0.000381**	<0.000361	<0.000306	0.000859 J	<0.00393	0.00938	
	MW-66	Apr-16		<0.00319	<0.00130	<0.00383	<0.00259	<0.00398	0.00940 J	**<0.00381**	<0.00361	<0.00306	<0.00387	<0.0393	0.00771 J	
	MW-66	Oct-16		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	0.00241	**<0.000381**	<0.000361	<0.000306	0.000547 J	<0.00393	0.00983	
	MW-66	Apr-17		<0.0160	<0.00650	<0.0192	<0.0130	<0.0199	**<0.0186**	**<0.0190**	**<0.0180**	<0.0153	<0.0194	<0.196	<0.0182	
	MW-66	Oct-17		<0.00319	<0.00130	<0.00383	<0.00259	<0.00398	<0.00373	**<0.00381**	<0.00361	<0.00306	<0.00387	<0.0393	<0.00365	
	MW-99	Apr-15		<0.00798	<0.00320	<0.00960	<0.00650	<0.0100	**0.337**	**<0.00950**	**<0.00900**	<0.00760	0.0706	<0.0980	0.0108 J	
	MW-99	Oct-15		<0.00798	<0.00325	<0.00958	<0.00648	<0.00995	**0.400**	**<0.00952**	**<0.00902**	<0.00765	0.0169 J	<0.0982	0.0113 J	
	MW-99	Apr-16		<0.00319	<0.00130	<0.00383	<0.00259	<0.00398	**0.498**	**<0.00381**	<0.00361	<0.00306	0.0129	<0.0393	0.00922 J	
	MW-99	Oct-16		<0.00638	<0.00260	<0.00766	<0.00518	<0.00796	**0.343**	**<0.00762**	**<0.00722**	<0.00612	<0.00774	<0.0786	0.00804 J	
	MW-99	Apr-17		<0.0160	<0.00650	<0.0192	<0.0130	<0.0199	**0.252**	**<0.0190**	**<0.0180**	<0.0153	0.0196 J	<0.196	<0.0182	
	MW-99	Oct-17		<0.0319	<0.0130	<0.0383	<0.0259	<0.0398	**0.152**	**<0.0381**	**<0.0361**	<0.0306	<0.0387	<0.393	<0.0365	
	MW-101	Apr-15		<0.00160	<0.000650	<0.00190	<0.00130	<0.00200	<0.00190	**<0.00190** J	<0.00180 J	<0.00150	<0.00190	<0.0200 J	<0.00180	
	MW-101	Oct-15		<0.00160	<0.000650	<0.00192	<0.00130	<0.00199	<0.00186	**<0.00190**	<0.00180	<0.00153	<0.00194	<0.0196	<0.00182	
	MW-101	Apr-16		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	0.00151	
	MW-101	Oct-16		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	0.000391 J	
	MW-101	Apr-17		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	0.00132	
	MW-101	Oct-17		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	0.000386 J	
	MW-102	Apr-15		<0.00319	<0.00130	<0.00380	<0.00260	<0.00400	**0.136**	**<0.00380**	**0.00548** J	<0.00310	0.0278	<0.0390	0.00509 J	
	MW-102	Oct-15		<0.0319	<0.0130	<0.0383	<0.0259	<0.0398	**0.465**	**<0.0381**	**<0.0361**	<0.0306	0.115	<0.393	<0.0365	
	MW-102	Apr-16		<0.0319	<0.0130	<0.0383	<0.0259	<0.0398	**0.402**	**<0.0381**	**<0.0361**	<0.0306	0.110	<0.393	<0.0365	
	MW-102	Oct-16		<0.0319	<0.0130	<0.0383	<0.0259	<0.0398	**0.337**	**<0.0381**	**<0.0361**	<0.0306	0.0773 J	<0.393	<0.0365	
	MW-102	Apr-17		<0.00638	<0.00260	<0.00766	<0.00518	<0.00796	**0.291**	**<0.00762**	**<0.00722**	<0.00612	0.0282	<0.0786	0.0152 J	
	MW-102	Oct-17		<0.0160	<0.00650	<0.0192	<0.0130	<0.0199	**0.278**	**<0.0190**	**<0.0180**	<0.0153	0.0413 J	<0.196	0.0188 J	
	MW-103	Apr-14		<0.000500	<0.000500	<0.000500	<0.000400	<0.000500	0.0150	**<0.000400**	<0.000500	<0.000700	<0.000600	<0.00100		
	MW-103	Apr-15		<0.000319	<0.000130	<0.000380	<0.000260	<0.000400	0.0102	**<0.000380**	<0.000360	<0.000310	<0.000390	<0.00390	0.00396	
	MW-103	Apr-16		<0.00160	<0.000650	<0.00192	<0.00130	<0.00199	<0.00186	**<0.00190**	<0.00180	<0.00153	<0.00194	<0.0196	0.0034 J	
	MW-103	Apr-17		<0.0160	<0.00650	<0.0192	<0.0130	<0.0199	**<0.0186**	**<0.0190**	**<0.0180**	<0.0153	<0.0194	<0.196	<0.0182	
	MW-104	Apr-15		<0.000319	<0.000130	<0.000380	<0.000260	<0.000400	<0.000370	**<0.000380**	<0.000360	<0.000310	<0.000390	<0.00390	0.032	
	MW-104	Apr-15	FD	<0.000319	<0.000130	<0.000380	<0.000260	<0.000400	<0.000370	**<0.000380**	<0.000360	<0.000310	<0.000390	<0.00390	0.0328	
	MW-104	Oct-15		<0.00160	<0.000650	<0.00192	<0.00130	<0.00199	<0.00186	**<0.00190**	<0.00180	<0.00153	<0.00194	<0.0196	0.0378	
	MW-104	Oct-15	FD	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	0.000420 J	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	0.0349	
	MW-104	Apr-16		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	0.0344	
	MW-104	Apr-16	FD	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	0.038	
	MW-104	Oct-16		<0.00160	<0.000650	<0.00192	<0.00130	<0.00199	<0.00186	**<0.00190**	<0.00180	<0.00153	<0.00194	<0.0196	0.0346	
	MW-104	Oct-16	FD	<0.00160	<0.000650	<0.00192	<0.00130	<0.00199	<0.00186	**<0.00190**	<0.00180	<0.00153	<0.00194	<0.0196	0.038	
	MW-104	Apr-17		<0.00319	<0.00130	0.0075 J	<0.00259	<0.00398	<0.00373	**<0.00381**	<0.00361	<0.00306	<0.00387	<0.0393	0.0327	
	MW-104	Apr-17	FD	<0.00160	<0.000650	<0.00192	<0.00130	<0.00199	0.00209 J	**<0.00190**	<0.00180	<0.00153	<0.00194	<0.0196	0.0193	
	MW-104	Oct-17		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	0.000544 J	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	0.0378	
	MW-104	Oct-17	FD	<0.00160	<0.000650	1/0/1900	<0.00130	<0.00199	<0.00186	**<0.00190**	<0.00180	<0.00153	<0.00194	<0.0196	0.0296	
	MW-105	Apr-15		<0.00160	<0.000650	<0.00190	<0.00130	<0.00200	**0.0678**	**<0.00190** J	<0.00180 J	<0.00150	0.0325	<0.0200 J	0.0128	
	MW-105	Oct-15		<0.00319	<0.00130	<0.00383	<0.00259	<0.00398	**0.0487**	**<0.00381**	<0.00361	<0.00306	0.0291	<0.0393	0.0121	
	MW-105	Apr-16		<0.0798	<0.0325	<0.0958	<0.0648	<0.0995	**0.103** J	**<0.0952**	**<0.0902**	<0.0765	<0.0968	<0.982	<0.0912	
	MW-105	Oct-16		<0.0319	<0.0130	<0.0383	<0.0259	<0.0398	**0.141**	**<0.0381**	**<0.0361**	<0.0306	<0.0387	<0.393	<0.0365	
	MW-105	Apr-17		<0.0319	<0.0130	<0.0383	<0.0259	<0.0398	**0.104**	**<0.0381**	**<0.0361**	<0.0306	<0.0387	<0.393	<0.0365	
	MW-105	Oct-17		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	**0.0964**	**<0.000381**	<0.000361	<0.000306	0.0250	<0.00393	0.0119	
	MW-106	Apr-15		<0.000319	<0.000130	<0.000380	<0.000260	<0.000400	**0.0173**	**<0.000380**	<0.000360	<0.000310	0.00273	<0.00390	0.00081 J	
	MW-106	Oct-15		<0.0319	<0.0130	<0.0383	<0.0259	<0.0398	**0.0921** J	**<0.0381**	**<0.0361**	<0.0306	<0.0387	<0.393	<0.0365	
	MW-106	Apr-16		<0.00798	<0.00325	<0.00958	<0.00648	<0.00995	**0.0824**	**<0.00952**	**<0.00902**	<0.00765	0.0114 J	<0.0982	<0.00912	
	MW-106	Oct-16		<0.0160	<0.00650	<0.0192	<0.0130	<0.0199	**0.126**	**<0.0190**	**<0.0180**	<0.0153	0.0219 J	<0.196	<0.0182	
	MW-106	Apr-17		<0.0160	<0.00650	<0.0192	<0.0130	<0.0199	**0.0853**	**<0.0190**	**<0.0180**	<0.0153	<0.0194	<0.196	<0.0182	
	MW-106	Oct-17		<0.0160	<0.00650	<0.0192	<0.0130	<0.0199	**0.0731**	**<0.0190**	**<0.0180**	<0.0153	<0.0194	<0.196	<0.0182	

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

2017 Annual Groundwater Monitoring Report

HollyFrontier Navajo Refining LLC, Artesia Refinery, Artesia, New Mexico

				Analyte Group:	Volatile Organic Compounds											
				Analyte:	1,1,1-Tri-chloroethane	1,1,2,2-Tetra-chloroethane	1,1,2-Tri-chloroethane	1,1-Dichloro-ethane	1,1-Dichloro-ethene	1,2,4-Trimethyl-benzene	1,2-Dibromo-ethane	1,2-Dichloro-ethane	1,2-Dichloro-propane	1,3,5-Trimethyl-benzene	2-Butanone	2-Phenyl-butane
				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:	0.06	0.01	0.005	0.025	0.007	0.015	0.00005	0.005	0.005	0.12	5.56	---
				CGWSL Source:	WQCC HH	WQCC HH	USEPA MCL	WQCC HH	USEPA MCL	USEPA TW	USEPA MCL	USEPA MCL	USEPA MCL	USEPA TW	NMED TW	
Area	**Well ID**	**Date**	**Dup**													
South Refinery	MW-107	Apr-15		<0.00319	<0.00130	<0.00380	<0.00260	<0.00400	0.0133	**<0.00380**	<0.00360	<0.00310	<0.00390	<0.0390	<0.00360	
	MW-107	Oct-15		<0.0319	<0.0130	<0.0383	<0.0259	<0.0398	**0.100**	**<0.0381**	**<0.0361**	<0.0306	<0.0387	<0.393	<0.0365	
	MW-107	Apr-16		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	0.00111	**<0.000381**	<0.000361	<0.000306	0.000591 J	<0.00393	0.00613	
	MW-107	Oct-16		<0.00160	<0.000650	<0.00192	<0.00130	<0.00199	0.00205 J	**<0.00190**	<0.00180	<0.00153	<0.00194	<0.0196	0.00592	
	MW-107	Apr-17		<0.0160	<0.00650	<0.0192	<0.0130	<0.0199	**<0.0186**	**<0.0190**	**<0.0180**	<0.0153	<0.0194	<0.196	<0.0182	
	MW-109	Apr-15		<0.00319	<0.00130	<0.00380	<0.00260	<0.00400	<0.00370	**<0.00380**	<0.00360	<0.00310	<0.00390	<0.0390	0.00453 J	
	MW-109	Oct-15		<0.00319	<0.00130	<0.00383	<0.00259	<0.00398	0.00487 J	**<0.00381**	<0.00361	<0.00306	<0.00387	<0.0393	0.00396 J	
	MW-109	Apr-16		<0.00160	<0.000650	<0.00192	<0.00130	<0.00199	0.00418 J	**<0.00190**	<0.00180	<0.00153	<0.00194	<0.0196	0.00501	
	MW-109	Oct-16		<0.00638	<0.00260	<0.00766	<0.00518	<0.00796	<0.00746	**<0.00762**	**<0.00722**	<0.00612	<0.00774	<0.0786	<0.00730	
	MW-109	Apr-17		<0.00319	<0.00130	<0.00383	<0.00259	<0.00398	0.00751	**<0.00381**	<0.00361	<0.00306	<0.00387	<0.0393	0.00698 J	
	MW-109	Oct-17		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	0.00547	**<0.000381**	<0.000361	<0.000306	0.00167	<0.00393	0.0087	
	MW-110	Apr-15		<0.000319	<0.000130	<0.000380	<0.000260	<0.000400	0.00548	**<0.000380**	<0.000360	<0.000310	0.00166	<0.00390	0.00674	
	MW-110	Oct-15		<0.00160	<0.000650	<0.00192	<0.00130	<0.00199	**0.0350**	**<0.00190**	<0.00180	<0.00153	0.00228 J	<0.0196	0.00654	
	MW-110	Apr-16		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	0.000871 J	**<0.000381**	<0.000361	<0.000306	0.000525 J	<0.00393	0.00576	
	MW-110	Oct-16		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	0.00126	
	MW-110	Apr-17		<0.00160	<0.000650	<0.00192	<0.00130	<0.00199	**0.0193**	**<0.00190**	<0.00180	<0.00153	<0.00194	<0.0196	0.00963	
	MW-110	Oct-17		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365	
	RA-313	Apr-14		<0.000500	<0.000500	<0.000500	<0.000400	<0.000500	<0.00050	**<0.000400**	<0.000500	<0.000700	<0.000600	<0.00100		
	RA-313	Apr-15		<0.000319	<0.000130	<0.000380	<0.000260	<0.000400	<0.000370	**<0.000380**	<0.000360	<0.000310	<0.000390	<0.00390	<0.000360	
	RA-313	Apr-16		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393 J4	<0.000365	
	RA-313	Apr-17		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365	
	RW-4	Apr-15		<0.000319	<0.000130	<0.000380	<0.000260	<0.000400	<0.000370	**<0.000380**	<0.000360	<0.000310	<0.000390	<0.00390	0.00302	
	RW-4R	Apr-16		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	0.00269	
	RW-4R	Apr-17		<0.00160	<0.000650	<0.00192	<0.00130	<0.00199	<0.00186	**<0.00190**	<0.00180	<0.00153	<0.00194	<0.0196	0.00213 J	
	RW-5R	Apr-15		<0.00319	<0.00130	<0.00380	<0.00260	<0.00400	**0.298**	**<0.00380**	<0.00360	<0.00310	0.0558	<0.0390	0.00691 J	
	RW-5R	Apr-16		<0.00638	<0.00260	<0.00766	<0.00518	<0.00796	**0.437**	**<0.00762**	**<0.00722**	<0.00612	0.100	<0.0786	0.013 J	
	RW-6	Apr-15		<0.00319	<0.00130	<0.00380	<0.00260	<0.00400	**0.134**	**<0.00380**	<0.00360	<0.00310	0.0280	<0.0390	0.00944 J	
	RW-6R	Apr-16		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	0.00555	**<0.000381**	<0.000361	<0.000306	0.00111	<0.00393	0.0059	
	RW-15C	Apr-17		<0.00798	<0.00325	<0.00958	<0.00648	<0.00995	**1.46**	**<0.00952**	**<0.00902**	<0.00765	**0.231**	<0.0982	0.0194 J	
South RO Reject Field	MW-114	Apr-15		<0.000319	<0.000130	<0.000380	<0.000260	<0.000400	<0.000370	**<0.000380**	<0.000360	<0.000310	<0.000390	<0.00390	<0.000360	
	MW-114	Oct-15		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365	
	MW-114	Apr-16		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365	
	MW-114	Oct-16		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365	
	MW-114	Apr-17		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365	
	MW-114	Oct-17		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365	
	MW-115	Apr-15		<0.000319	<0.000130	<0.000380	<0.000260	<0.000400	<0.000370	**<0.000380**	<0.000360	<0.000310	<0.000390	<0.00390	<0.000360	
	MW-115	Oct-15		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365	
	MW-115	Apr-16		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365	
	MW-115	Oct-16		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365	
	MW-115	Apr-17		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365	
	MW-115	Oct-17		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365	
	MW-116	Apr-15		<0.000319	<0.000130	<0.000380	<0.000260	<0.000400	<0.000370	**<0.000380**	<0.000360	<0.000310	<0.000390	<0.00390	<0.000360	
	MW-116	Oct-15		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365	
	MW-116	Apr-16		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365	
	MW-116	Oct-16		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	0.000389 J	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365	
	MW-116	Apr-17		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365	
	MW-116	Oct-17		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365	
TEL	MW-49	Apr-15		<0.000319	<0.000130	<0.000380	<0.000260	<0.000400 J	0.00954	**<0.000380**	<0.000360	<0.000310	<0.000390	<0.00390	0.00245	
	MW-49	Oct-15		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	0.0150	**<0.000381**	<0.000361	<0.000306	0.000858 J	<0.00393	0.00371	
	MW-49	Apr-16		<0.00638	<0.00260	<0.00766	<0.00518	<0.00796	**0.0305**	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.00730	
	MW-49	Oct-16		<0.0319	<0.0130 J4	<0.0383	<0.0259	<0.0398	**0.0457** J	**<0.0381**	**<0.0361**	<0.0306	<0.0387	<0.393 J3	<0.0365	
	MW-49	Apr-17		<0.00319	<0.00130	<0.00383	<0.00259	<0.00398	**0.0409**	**<0.00381**	<0.00361	<0.00306	0.00628 J	<0.0393	0.00406 J	
	MW-49	Oct-17		<0.00638	<0.00260	<0.00766	<0.00518	<0.00796	**0.118**	**<0.00762**	**<0.00722**	<0.00612	0.0225	<0.0786	0.0083	
	TEL-1	Apr-15		<0.000319	<0.000130	<0.000380	<0.000260	<0.000400	0.00103	**<0.000380**	<0.000360	<0.000310	<0.000390	<0.00390	<0.000360	
	TEL-1	Oct-15		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	0.000971 J	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	0.00166	
	TEL-1	Apr-16		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	0.000807 J	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	0.00174	
	TEL-1	Oct-16		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	0.000939 J	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	0.00232	
	TEL-1	Apr-17		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	0.000500 J	**<0.000381**	<0.000361	<0.000306	<0.000387	0.00602 J	<0.000365	
	TEL-1	Oct-17		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	0.00219	**<0.000381**	<0.000361	<0.000306	0.000626 J	<0.00393	0.00198	
	TEL-2	Apr-15		<0.00638	<0.00260	<0.00770	<0.00520	<0.00800 J	**0.138**	**<0.00760**	**<0.00720**	<0.00610	0.0198 J	<0.0790	<0.00730	
	TEL-2	Oct-15		<0.00160	<0.000650	<0.00192	<0.00130	<0.00199	**0.138**	**<0.00190**	<0.00180	<0.00153	0.0109	<0.0196	0.00649	
	TEL-2	Apr-16		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	**0.125**	**<0.000381**	<0.000361	<0.000306	0.0143	<0.00393	0.00662	
	TEL-2	Oct-16		<0.00319	<0.00130	<0.00383	<0.00259	<0.00398	**0.0976**	**<0.00381**	<0.00361	<0.00306	0.00929 J	<0.0393	0.00607 J	
	TEL-2	Apr-17		<0.00319	<0.00130	<0.00383	<0.00259	<0.00398	**0.0706**	**<0.00381**	<0.00361	<0.00306	0.00599 J	<0.0393	0.004 J	
	TEL-2	Oct-17		<0.00319	<0.00130	<0.00383	<0.00259	<0.00398	**0.108**	**<0.00381**	<0.00361	<0.00306	<0.00387	<0.0393	0.00974 J	
	TEL-3	Apr-15		<0.00319	<0.00130	<0.00380	<0.00260	<0.00400	0.0104	**<0.00380**	<0.00360	<0.00310	<0.00390	<0.0390	0.00899 J	
	TEL-3	Oct-15		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	**0.0213**	**<0.000381**	<0.000361	<0.000306	0.00128	<0.00393	0.0111	
	TEL-3	Apr-16		<0.00798	<0.00325	<0.00958	<0.00648	<0.00995	0.0128 J	**<0.00952**	**<0.00902**	<0.00765	<0.00968	<0.0982	0.0108 J	
	TEL-3	Oct-16		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	**0.0157**	**<0.000381**	<0.000361	<0.000306	0.00115	<0.00393	0.00596	
	TEL-3	Apr-17		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	**0.0163**	**<0.000381**	<0.000361	<0.000306	0.000748 J	<0.00393	0.00806	
	TEL-4	Apr-15		<0.00319	<0.00130	<0.00380	<0.00260	<0.00400	**0.0742**	**<0.00380**	<0.00360	<0.00310	<0.00390	<0.0390	0.0117	
	TEL-4	Apr-15	FD	<0.00319	<0.00130	<0.00380	<0.00260	<0.00400	**0.0758**	**<0.00380**	<0.00360	<0.00310	<0.00390	<0.0390	0.0118	
	TEL-4	Oct-15		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	**0.0740**	**<0.000381**	<0.000361	<0.000306	0.000524 J	<0.00393	0.0119	
	TEL-4	Oct-15	FD	<0.00319	<0.00130	<0.00383	<0.00259	<0.00398	**0.0861**	**<0.00381**	<0.00361	<0.00306	<0.00387	<0.0393	0.0145	
	TEL-4	Apr-16		<0.00319	<0.00130	<0.00383	<0.00259	<0.00398	**0.142**	**<0.00381**	<0.00361	<0.00306	<0.00387	<0.0393	0.0161	
	TEL-4	Apr-16	FD	<0.000319	<0.00130	<0.00383	<0.00259	<0.00398	**0.147**	**<0.00381**	<0.00361	<0.00306	<0.00387	<0.0393	0.0165	
	TEL-4	Oct-16		<0.00319	<0.00130	<0.00383	<0.00259	<0.00398	**0.0775**	**<0.00381**	<0.00361	<0.00306	<0.00387	<0.0393	0.0111	
	TEL-4	Oct-16	FD	<0.00319	<0.00130	<0.00383	<0.00259	<0.00398	**0.105**	**<0.00381**	<0.00361	<0.00306	<0.00387	<0.0393	0.0162	
	TEL-4	Apr-17		<0.00319	<0.00130	<0.00383	<0.00259	<0.00398	**0.0287**	**<0.00381**	<0.00361	<0.00306	<0.00387	<0.0393	0.00766 J	
	TEL-4	Apr-17	FD	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	**0.0352**	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	0.0108	
	TEL-4	Oct-17		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	**0.0387**	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	0.0197	
	TEL-4	Oct-17	FD	<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	**0.0343**	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	0.0184	
TMD	MW-8	Apr-14		<0.000500	<0.000500	<0.000500	<0.000400	<0.000500	<0.00050	**<0.000400**	<0.000500	<0.000700	<0.000600	<0.00100		
	MW-8	Apr-15		<0.000319	<0.000130	<0.000380	<0.000260	<0.000400	<0.000370	**<0.000380**	<0.000360	<0.000310	<0.000390	<0.00390	<0.000360	
	MW-8	Apr-16		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365	
	MW-8	Apr-17		<0.000319	<0.000130	<0.000383 J4	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365	
	MW-16	Apr-14		<0.000500	<0.000500	<0.000500	<0.000400	<0.000500	<0.00050	**<0.000400**	<0.000500	<0.000700	<0.000600	<0.00100		
	MW-16	Apr-15		<0.000319	<0.000130	<0.000380	<0.000260	<0.000400	<0.000370	**<0.000380** J	<0.000360 J	<0.000310	<0.000390	<0.00390 J	<0.000360	
	MW-16	Apr-17		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365	
	MW-20	Apr-14		<0.000500	<0.000500	<0.000500	<0.000400	<0.000500	<0.00050	**<0.000400**	<0.000500	<0.000700	<0.000600	<0.00100		
	MW-20	Apr-14	FD	<0.000500	<0.000500	<0.000500	<0.000400	<0.000500	<0.00050	**<0.000400**	<0.000500	<0.000700	<0.000600	<0.00100		
	MW-20	Apr-15		<0.000319	<0.000130	<0.000380	<0.000260	<0.000400	<0.000370	**<0.000380**	<0.000360	<0.000310	<0.000390	<0.00390	<0.000360	
	MW-20	Apr-16		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393 J4	<0.000365	
	MW-20	Apr-17		<0.000319	<0.000130	<0.000383 J4	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365	
	MW-21	Apr-15		<0.000319	<0.000130	<0.000380	<0.000260	<0.000400	<0.000370	**<0.000380** J	<0.000360 J	<0.000310	<0.000390	<0.00390 J	<0.000360	
	MW-21	Oct-15		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365	
	MW-21	Apr-16		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365	
	MW-21	Oct-16		<0.000319	<0.000130 J4	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393 J3	<0.000365	
	MW-21	Apr-17		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365	
	MW-21	Oct-17		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365	
	MW-25	Apr-14		<0.000500	<0.000500	<0.000500	<0.000400	<0.000500	<0.00050	**<0.000400**	<0.000500	<0.000700	<0.000600	<0.00100		
	MW-25	Apr-15		<0.000319	<0.000130	<0.000380	<0.000260	<0.000400	<0.000370	**<0.000380** J	<0.000360 J	<0.000310	<0.000390	<0.00390 J	<0.000360	
	MW-25	Apr-16		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393 J4	<0.000365	
	MW-25	Apr-17		<0.000319	<0.000130	<0.000383 J4	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365	

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

2017 Annual Groundwater Monitoring Report

HollyFrontier Navajo Refining LLC, Artesia Refinery, Artesia, New Mexico

	Analyte Group:			Volatile Organic Compounds												
			Analyte:	1,1,1-Tri-chloroethane	1,1,2,2-Tetra-chloroethane	1,1,2-Tri-chloroethane	1,1-Dichloro-ethane	1,1-Dichloro-ethene	1,2,4-Trimethyl-benzene	1,2-Dibromo-ethane	1,2-Dichloro-ethane	1,2-Dichloro-propane	1,3,5-Trimethyl-benzene	2-Butanone	2-Phenyl-butane
			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:	0.06	0.01	0.005	0.025	0.007	0.015	0.00005	0.005	0.005	0.12	5.56	---
			CGWSL Source:	WQCC HH	WQCC HH	USEPA MCL	WQCC HH	USEPA MCL	USEPA TW	USEPA MCL	USEPA MCL	USEPA MCL	USEPA TW	NMED TW	
Area	**Well ID**	**Date**	**Dup**												
TMD	MW-26	Apr-14		<0.000500	<0.000500	<0.000500	<0.000400	<0.000500	<0.00050	**<0.000400**	<0.000500	<0.000700	<0.000600	<0.00100	
	MW-26	Apr-15		<0.000319	<0.000130	<0.000380	<0.000260	<0.000400	<0.000370	**<0.000380**	<0.000360	<0.000310	<0.000390	<0.00390	<0.000360
	MW-26	Apr-16		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393 J4	<0.000365
	MW-26	Apr-17		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365
	MW-27	Apr-14		<0.000500	<0.000500	<0.000500	<0.000400	<0.000500	<0.00050	**<0.000400**	<0.000500	<0.000700	<0.000600	<0.00100	
	MW-27	Apr-15		<0.000319	<0.000130	<0.000380	<0.000260	<0.000400	<0.000370	**<0.000380**	<0.000360	<0.000310	<0.000390	<0.00390	<0.000360
	MW-27	Apr-16		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393 J4	<0.000365
	MW-27	Apr-17		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365
	MW-46R	Nov-14		<0.000320	<0.000130	<0.000380	<0.000260	<0.000400 J	<0.000370	**<0.000380**	<0.000360	<0.000310	<0.000390	<0.000390	
	MW-46R	Apr-15		<0.000319	<0.000130	<0.000380	<0.000260	<0.000400	<0.000370	**<0.000380**	<0.000360	<0.000310	<0.000390	<0.00390	<0.000360
	MW-46R	Apr-16		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365
	MW-46R	Oct-16		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365
	MW-46R	Apr-17		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365
	MW-46R	Oct-17		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365
	MW-68	Apr-14		<0.000500	<0.000500	<0.000500	<0.000400	<0.000500	<0.00050	**<0.000400**	<0.000500	<0.000700	<0.000600	<0.00100	
	MW-68	Apr-15		<0.000319	<0.000130	<0.000380	<0.000260	<0.000400	<0.000370	**<0.000380**	<0.000360	<0.000310	<0.000390	<0.00390	<0.000360
	MW-68	Apr-16		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365
	MW-68	Apr-17		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365
	MW-71	Apr-14		<0.000500	<0.000500	<0.000500	<0.000400	<0.000500	<0.00050	**<0.000400**	<0.000500	<0.000700	<0.000600	<0.00100	
	MW-71	Apr-15		<0.000319	<0.000130	<0.000380	<0.000260	<0.000400	<0.000370	**<0.000380**	<0.000360	<0.000310	<0.000390	<0.00390	<0.000360
	MW-71	Apr-16		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365
	MW-71	Apr-17		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365
	MW-89	Apr-14		<0.000500	<0.000500	<0.000500	<0.000400	<0.000500	<0.00050	**<0.000400**	<0.000500	<0.000700	<0.000600	<0.00100	
	MW-89	Apr-15		<0.000319	<0.000130	<0.000380	<0.000260	<0.000400	<0.000370	**<0.000380** J	<0.000360 J	<0.000310	<0.000390	<0.00390 J	<0.000360
	MW-89	Apr-16		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393 J4	<0.000365
	MW-89	Apr-17		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365
	NP-1	Apr-15		<0.000319	<0.000130	<0.000380	<0.000260	<0.000400	<0.000370	**<0.000380**	0.000581 J	<0.000310	<0.000390	<0.00390	<0.000360
	NP-1	Oct-15		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	0.000431 J	<0.000306	<0.000387	<0.00393	<0.000365
	NP-1	Apr-16		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	0.000526 J	<0.000306	<0.000387	<0.00393 J4	<0.000365
	NP-1	Oct-16		<0.000319 J4	<0.000130 J4	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	0.000446 J	<0.000306	<0.000387	<0.00393 J3	<0.000365
	NP-1	Apr-17		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	0.000408 J	<0.000306	<0.000387	<0.00393	<0.000365
	NP-1	Oct-17		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	0.000465 J	<0.000306	<0.000387	<0.00393	<0.000365
	NP-2	Apr-13		<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	**<0.00500**	<0.00500	<0.00500	<0.00500	<0.0100	<0.00500
	NP-6	Apr-13		<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	**<0.00500**	<0.00500	<0.00500	<0.00500	<0.0100	<0.00500
	NP-6	Apr-15		<0.000319	<0.000130	<0.000380	<0.000260	<0.000400	<0.000370	**<0.000380** J	<0.000360 J	<0.000310	<0.000390	<0.00390 J	<0.000360
	NP-6	Apr-17		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365
Up-Gradient	UG-1	Apr-14		<0.000500	<0.000500	<0.000500	<0.000400	<0.000500	<0.00050	**<0.000400**	<0.000500	<0.000700	<0.000600	<0.00100	
	UG-1	Apr-15		<0.000319	<0.000130	<0.000380	<0.000260	<0.000400	<0.000370	**<0.000380**	<0.000360	<0.000310	<0.000390	<0.00390	<0.000360
	UG-1	Apr-16		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365
	UG-1	Apr-17		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365
	UG-2	Apr-14		<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	**<0.00500**	<0.00500	<0.00500	<0.00500	<0.0100	<0.00500
	UG-2	Apr-15		<0.000500	<0.000500	<0.000500	<0.000400	<0.000500	<0.00050	**<0.000400**	<0.000500	<0.000700	<0.000600	<0.00100	
	UG-2	Apr-16		<0.000319	<0.000130	<0.000380	<0.000260	<0.000400	<0.000370	**<0.000380**	<0.000360	<0.000310	<0.000390	<0.00390	<0.000360
	UG-2	Apr-17		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365
	UG-3R	Apr-14		<0.000500	<0.000500	<0.000500	<0.000400	<0.000500	<0.00050	**<0.000400**	<0.000500	<0.000700	<0.000600	<0.00100	
	UG-3R	Apr-14	FD	<0.000500	<0.000500	<0.000500	<0.000400	<0.000500	<0.00050	**<0.000400**	<0.000500	<0.000700	<0.000600	<0.00100	
	UG-3R	Apr-15		<0.000319	<0.000130	<0.000380	<0.000260	<0.000400	<0.000370	**<0.000380**	<0.000360	<0.000310	<0.000390	<0.00390	<0.000360
	UG-3R	Apr-16		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365
	UG-3R	Apr-17		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365
	UG-4	Apr-16		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365
	UG-4	Apr-17		<0.000319	<0.000130	<0.000383	<0.000259	<0.000398	<0.000373	**<0.000381**	<0.000361	<0.000306	<0.000387	<0.00393	<0.000365

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 TPH	NMED Risk Assessment Guidance for Site Investigations and Remediation, March 2017, Table 6-4 TPH Groundwater Screening Levels
NMED TW	NMED Risk Assessment Guidance for Site Investigations and Remediation, March 2017, Table A-1, Tap Water Screening Level
TPH	Total Petroleum Hydrocarbons
USEPA TW	United States Environmental Protection Agency Tap Water Screening Level, "Regional Screening Levels (RSL) Summary Table", November 2017
USEPA MCL	United States Environmental Protection Agency Maximum Contaminant Level, "Regional Screening Levels (RSL) Summary Table", November 2017
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.
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low.

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

2017 Annual Groundwater Monitoring Report

HollyFrontier Navajo Refining LLC, Artesia Refinery, Artesia, New Mexico

				Analyte Group:	Volatile Organic Compounds											
				Analyte:	4-Methyl-2-Pentanone	Acetone	Benzene	Bromo-dichloro-methane	Bromo-methane	Carbon Disulfide	Carbon Tetrachloride	Chloro-benzene	Chloro-dibromo-methane	Chloroethane	Chloroform	Chloro-methane
				Units:	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
				CGWSL:	1.24	14.1	0.005	0.08	0.00754	0.81	0.005	0.1	0.08	20.86	0.08	0.0203
				CGWSL Source:	NMED TW	TMED TW	USEPA MCL	USEPA MCL	NMED TW	NMED TW	USEPA MCL	USEPA MCL	USEPA MCL	NMED TW	USEPA MCL	NMED TW
Area	**Well ID**	**Date**	**Dup**													
Cross-Gradient	KWB-13	Apr-14		<0.00100	<0.00200	<0.000600	<0.00060	<0.000500	<0.000900	<0.000600	<0.000400	<0.00050	<0.000500	<0.000600	<0.000500
	KWB-13	Apr-15		<0.00210	<0.0100	<0.000330	<0.000380	<0.000870	<0.000280	<0.000380	<0.000350	<0.000330	<0.000450	<0.000320	<0.000280
	KWB-13	Apr-16		<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	KWB-13	Apr-17		<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-17	Apr-14													
	NP-5	Apr-13		<0.0100	<0.0100	<0.00500	<0.00500	<0.00500	<0.0100	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
	NP-5	Apr-15		<0.00210	<0.0100	<0.000330	<0.000380	<0.000870	<0.000280	<0.000380	<0.000350	<0.000330	<0.000450	<0.000320	<0.000280
	NP-5	Apr-17		<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	RA-3156	Nov-13		<0.0100	<0.0100	<0.00500	<0.00500	<0.00500	<0.0100	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
	RA-3156	Apr-14		<0.00100	<0.00200	<0.000600	<0.00060	<0.000500	<0.000900	<0.000600	<0.000400	<0.00050	<0.000500	<0.000600	<0.000500
	RA-3156	Apr-16		<0.00214	<0.0500	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	RA-3156	Apr-17		<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-136	Oct-15		<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-136	Apr-16		<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-136	Oct-16		<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-136	Apr-17		<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-136	Oct-17		<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
Evaporation Ponds	MW-1R	Apr-14		<0.00100	<0.00200	<0.000600	<0.00060	<0.000500	<0.000900	<0.000600	<0.000400	<0.00050	<0.000500	<0.000600	<0.000500
	MW-1R	Apr-15		<0.00214	<0.0100	<0.000330	<0.000380	<0.000870	<0.000280	<0.000380	<0.000350	<0.000330	<0.000450	<0.000320	<0.000280
	MW-1R	Apr-16		<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-1R	Apr-17		<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-2A	Apr-15		<0.00210	<0.0100	<0.000330	<0.000380	<0.000870	<0.000280	<0.000380	<0.000350	<0.000330	<0.000450	<0.000320	<0.000280
	MW-2A	Oct-15		<0.00214	<0.0100	<0.000331	<0.000380	<0.000866 J	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-2A	Apr-16		<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-2A	Oct-16		<0.00214	<0.0100 J3	<0.000331	<0.000380	<0.000866 J4	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-2A	Apr-17		<0.0214	<0.100	<0.00331	<0.00380	**<0.00866**	<0.00275	<0.00379	<0.00348	<0.00327	<0.00453	<0.00324	<0.00276
	MW-2A	Oct-17		<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-3	Apr-15		<0.00210	0.012 J	0.000609 J	<0.000380	<0.000870	<0.000280	<0.000380	<0.000350	<0.000330	<0.000450	<0.000320	<0.000280
	MW-3	Apr-15	FD	<0.00210	0.0191 J	0.000638 J	<0.000380	<0.000870	<0.000280	<0.000380	<0.000350	<0.000330	<0.000450	<0.000320	<0.000280
	MW-3	Oct-15		<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-3	Oct-15	FD	<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-3	Apr-16		<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-3	Apr-16	FD	<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-3	Oct-16		<0.00214	<0.0100 J3	<0.000331	<0.000380	<0.000866 J4	0.000282 J	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-3	Oct-16	FD	<0.00214	<0.0100 J3	<0.000331	<0.000380	<0.000866 J4	0.000311 J	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-3	Apr-17		<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-3	Apr-17	FD	<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-3	Oct-17		<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-3	Oct-17	FD	<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-4A	Apr-15		<0.00210	<0.0100	<0.000330	<0.000380	<0.000870	<0.000280	<0.000380	<0.000350	<0.000330	<0.000450	<0.000320	<0.000280
	MW-4A	Oct-15		<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-4A	Apr-16		<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-4A	Oct-16		<0.00214	<0.0100 J3	<0.000331	<0.000380	<0.000866 J4	0.000634 J	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-4A	Apr-17		<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-4A	Oct-17		<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-4B	Apr-13		<0.0100	<0.0100	<0.00500	<0.00500	<0.00500	<0.0100	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
	MW-4B	Apr-15		<0.00210	<0.0100	0.00183	<0.000380	<0.000870	<0.000280	<0.000380	<0.000350	<0.000330	<0.000450	<0.000320	<0.000280
	MW-4B	Apr-17		<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-5A	Apr-15		<0.00210	<0.0100	<0.000330	<0.000380	<0.000870	<0.000280	<0.000380	<0.000350	<0.000330	<0.000450	<0.000320	<0.000280
	MW-5A	Oct-15		<0.00214	<0.0100	<0.000331	<0.000380	<0.000866 J	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-5A	Apr-16		<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-5A	Oct-16		<0.00214	<0.0100 J3	<0.000331	<0.000380	<0.000866 J4	0.00032 J	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-5A	Apr-17		<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-5A	Oct-17		<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-5B	Apr-13		<0.0100	<0.0100	<0.00500	<0.00500	<0.00500	<0.0100	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
	MW-5B	Apr-15		<0.00210	<0.0100	<0.000330	<0.000380	<0.000870	<0.000280	<0.000380	<0.000350	<0.000330	<0.000450	<0.000320	<0.000280
	MW-5B	Apr-17		<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-5C	Apr-13		<0.0100	<0.0100	<0.00500	<0.00500	<0.00500	<0.0100	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
	MW-5C	Apr-15		<0.00210	<0.0100	<0.000330	<0.000380	<0.000870	<0.000280	<0.000380	<0.000350	<0.000330	<0.000450	<0.000320	<0.000280
	MW-5C	Apr-17		<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-6A	Apr-14		<0.00100	0.0068 J	<0.000600	<0.00060	<0.000500	<0.000900	<0.000600	<0.000400	<0.00050	<0.000500	<0.000600	<0.000500
	MW-6A	Apr-15		<0.00210	<0.0100	0.000715 J	<0.000380	<0.000870	<0.000280	<0.000380	<0.000350	<0.000330	<0.000450	<0.000320	<0.000280
	MW-6A	Apr-16		<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-6A	Apr-17		<0.0214	<0.100	<0.00331	<0.00380	**<0.00866**	<0.00275	<0.00379	<0.00348	<0.00327	<0.00453	<0.00324	<0.00276
	MW-6B	Mar-13		<0.0100	<0.0100	<0.00500	<0.00500	<0.00500	<0.0100	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
	MW-6B	Mar-13	FD	<0.0100	<0.0100	<0.00500	<0.00500	<0.00500	<0.0100	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
	MW-6B	Apr-15		<0.00210	<0.0100	<0.000330	<0.000380	<0.000870	<0.000280	<0.000380	<0.000350	<0.000330	<0.000450	<0.000320	<0.000280
	MW-6B	Apr-17		<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-7A	Apr-15		<0.00210	<0.0100	<0.000330	<0.000380	<0.000870	<0.000280	<0.000380	<0.000350	<0.000330	<0.000450	<0.000320	<0.000280
	MW-7A	Apr-15	FD	<0.00210	0.0184 J	<0.000330	<0.000380	<0.000870	<0.000280	<0.000380	<0.000350	<0.000330	<0.000450	<0.000320	<0.000280
	MW-7A	Oct-15		<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-7A	Oct-15	FD	<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-7A	Apr-16		<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-7A	Apr-16	FD	<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-7A	Oct-16		<0.00214	<0.0100 J3	<0.000331	<0.000380	<0.000866 J4	0.000279 J	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-7A	Oct-16	FD	<0.00214	<0.0100 J3	<0.000331	<0.000380	<0.000866 J4	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-7A	Apr-17		<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-7A	Apr-17	FD	<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-7A	Oct-17		<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-7A	Oct-17	FD	<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-7B	Apr-13		<0.0100	<0.0100	<0.00500	<0.00500	<0.00500	<0.0100	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
	MW-7B	Apr-15		<0.00210	<0.0100	<0.000330	<0.000380	<0.000870	<0.000280	<0.000380	<0.000350	<0.000330	<0.000450	<0.000320	<0.000280
	MW-7B	Apr-17		<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-10	Apr-15		<0.00210	<0.0100	<0.000330	<0.000380	<0.000870	<0.000280	<0.000380	<0.000350	<0.000330	<0.000450	<0.000320 J	<0.000280
	MW-10	Oct-15		<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-10	Apr-16		<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-10	Oct-16		<0.00214	<0.0100 J3	<0.000331	<0.000380	<0.000866 J4	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-10	Apr-17		<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-10	Oct-17		<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-11A	Apr-15		<0.00210	<0.0100	<0.000330	<0.000380	<0.000870	<0.000280	<0.000380	<0.000350	<0.000330	<0.000450	<0.000320	<0.000280
	MW-11A	Oct-15													
	MW-11A	Apr-16		<0.0100	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-11A	Oct-16													
	MW-11A	Apr-17		<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-11A	Oct-17													
	MW-11B	Mar-13		<0.0100	<0.0100	<0.00500	<0.00500	<0.00500	<0.0100	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
	MW-11B	Apr-15		<0.00210	<0.0100	<0.000330	<0.000380	<0.000870	<0.000280	<0.000380	<0.000350	<0.000330	<0.000450	<0.000320	<0.000280
	MW-11B	Apr-17		<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-12	Apr-14													
	MW-13	Apr-14													
	MW-15	Apr-14		<0.00100	<0.00200	<0.000600	<0.00060	<0.000500	<0.000900	<0.000600	<0.000400	<0.00050	<0.000500	<0.000600	<0.000500
	MW-15	Apr-15		<0.00210	<0.0100	<0.000330	<0.000380	<0.000870	<0.000280	<0.000380	<0.000350	<0.000330	<0.000450	<0.000320	<0.000280
	MW-15	Apr-16		<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-15	Apr-17		<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276

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

2017 Annual Groundwater Monitoring Report

HollyFrontier Navajo Refining LLC, Artesia Refinery, Artesia, New Mexico

				Analyte Group:	Volatile Organic Compounds											
				Analyte:	4-Methyl-2-Pentanone	Acetone	Benzene	Bromo-dichloro-methane	Bromo-methane	Carbon Disulfide	Carbon Tetrachloride	Chloro-benzene	Chloro-dibromo-methane	Chloroethane	Chloroform	Chloro-methane
				Units:	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
				CGWSL:	1.24	14.1	0.005	0.08	0.00754	0.81	0.005	0.1	0.08	20.86	0.08	0.0203
				CGWSL Source:	NMED TW	TMED TW	USEPA MCL	USEPA MCL	NMED TW	NMED TW	USEPA MCL	USEPA MCL	USEPA MCL	NMED TW	USEPA MCL	NMED TW
Area	**Well ID**	**Date**	**Dup**													
Evaporation Ponds	MW-18A	Apr-15		<0.00210	<0.0100	<0.000330	<0.000380	<0.000870	<0.000280	<0.000380	<0.000350	<0.000330	<0.000450	<0.000320	<0.000280
	MW-18A	Oct-15		<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-18A	Apr-16		<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-18A	Oct-16		<0.00214	<0.0100 J3	<0.000331	<0.000380	<0.000866 J4	0.000378 J	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-18A	Apr-17		<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-18A	Oct-17		<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-18B	Apr-13		<0.0100	<0.0100	<0.00500	<0.00500	<0.00500	<0.0100	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
	MW-18B	Apr-15		<0.00210	<0.0100	<0.000330	<0.000380	<0.000870	<0.000280	<0.000380	<0.000350	<0.000330	<0.000450	<0.000320	<0.000280
	MW-18B	Apr-17		<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-22A	Apr-15		<0.00210	<0.0100	<0.000330	<0.000380	<0.000870	<0.000280	<0.000380	<0.000350	<0.000330	<0.000450	<0.000320 J	<0.000280
	MW-22A	Apr-15	FD	<0.00210	<0.0100	<0.000330	<0.000380	<0.000870	<0.000280	<0.000380	<0.000350	<0.000330	<0.000450	<0.000320	<0.000280
	MW-22A	Oct-15		<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-22A	Oct-15	FD	<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-22A	Apr-16		<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-22A	Apr-16	FD	<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-22A	Oct-16		<0.00214	<0.0100 J4	<0.000331	<0.000380	<0.000866	0.000948 J	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-22A	Oct-16	FD	<0.00214	<0.0100 J4	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-22A	Apr-17		<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-22A	Apr-17	FD	<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-22A	Oct-17		<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-22A	Oct-17	FD	<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-22B	Apr-13		<0.0100	<0.0100	<0.00500	<0.00500	<0.00500	<0.0100	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
	MW-22B	Apr-15		<0.00210	<0.0100	<0.000330	<0.000380	<0.000870	<0.000280	<0.000380	<0.000350	<0.000330	<0.000450	<0.000320 J	<0.000280
	MW-22B	Apr-17		<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-70	Apr-15		<0.00210	<0.0100	<0.000330	<0.000380	<0.000870	<0.000280	<0.000380	<0.000350	<0.000330	<0.000450	<0.000320	<0.000280
	MW-70	Oct-15		<0.00214	<0.0100	<0.000331	<0.000380	<0.000866 J	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-70	Apr-16		<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-70	Oct-16		<0.00214	<0.0100 J3	<0.000331	<0.000380	<0.000866 J4	0.000292 J	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-70	Apr-17		<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-70	Oct-17		<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-72	Apr-14		<0.00100	<0.00200	<0.000600	<0.00060	<0.000500	<0.000900	<0.000600	<0.000400	<0.00050	<0.000500	<0.000600	<0.000500
	MW-72	Apr-15		<0.00210	<0.0100	<0.000330	<0.000380	<0.000870	<0.000280	<0.000380	<0.000350	<0.000330	<0.000450	<0.000320	<0.000280
	MW-72	Apr-16		<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-72	Apr-17		<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-73	Apr-14		<0.00100	0.0092 J	<0.000600	<0.00060	<0.000500	<0.000900	<0.000600	<0.000400	<0.00050	<0.000500	<0.000600	<0.000500
	MW-73	Apr-15		<0.00210	<0.0100	<0.000330	<0.000380	<0.000870	<0.000280	<0.000380	<0.000350	<0.000330	<0.000450	<0.000320	<0.000280
	MW-73	Apr-16		<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-73	Apr-17		<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-74	Apr-15		<0.00214	<0.0100	<0.000330	<0.000380	<0.000870	<0.000280	<0.000380	<0.000350	<0.000330	<0.000450	<0.000320	<0.000280
	MW-74	Oct-15		<0.00214	<0.0100	<0.000331	<0.000380	<0.000866 J	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-74	Apr-16		<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-74	Oct-16		<0.00214	0.0111 JJ4	<0.000331	<0.000380	<0.000866	0.000538 J	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-74	Apr-17		<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-74	Oct-17		<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-75	Apr-15		<0.00210	<0.100	<0.00330	<0.00380	**<0.00870**	<0.00280	<0.00380	<0.00350	<0.00330	<0.00450	<0.00320	<0.00280
	MW-75	Oct-15		<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-75	Apr-16		<0.00214	<0.0100	0.00134	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-75	Oct-16		<0.00214	0.0156 JJ4	<0.000331	<0.000380	<0.000866	0.00111	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-75	Apr-17		<0.00214	<0.0100	0.00145	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-75	Oct-17		<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-76	Apr-15		<0.00210	0.0203 J	<0.000330	<0.000380	<0.000870	<0.000280	<0.000380	<0.000350	<0.000330	<0.000450	<0.000320	0.000328 J
	MW-76	Oct-15		<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-76	Apr-16		<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-76	Oct-16		<0.00214	0.0147 JJ4	0.00227	<0.000380	<0.000866	0.000396 J	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-76	Apr-17		<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-76	Oct-17		<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-77	Apr-15		<0.00210	0.135	**0.00962**	<0.000380	<0.000870	0.00204	<0.000380	<0.000350	<0.000330	<0.000450	<0.000320	<0.000280
	MW-77	Oct-15		<0.00214	0.0357 J	0.00156	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-77	Apr-16		<0.00214	0.0313 J	0.00287	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-77	Oct-16		<0.0214	<0.100 J4	<0.00331	<0.00380	**<0.00866**	<0.00275	<0.00379	<0.00348	<0.00327	<0.00453	<0.00324	<0.00276
	MW-77	Apr-17		<0.0214	<0.100	<0.00331	<0.00380	**<0.00866**	<0.00275	<0.00379	<0.00348	<0.00327	<0.00453	<0.00324	<0.00276
	MW-78	Apr-14		<0.00100	0.07	0.00310 J	<0.00060	<0.000500	<0.000900	<0.000600	<0.000400	<0.00050	<0.000500	<0.000600	<0.000500
	MW-78	Apr-15		0.0023 J	0.0649	**0.0114**	<0.000380	<0.000870	0.000862 J	<0.000380	<0.000350	<0.000330	<0.000450	<0.000320	0.00045 J
	MW-78	Apr-16		<0.00214	0.0152 J	0.00275	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-78	Apr-17		<0.0214	<0.100	<0.00331	<0.00380	**<0.00866**	<0.00275	<0.00379	<0.00348	<0.00327	<0.00453	<0.00324	<0.00276
	MW-79	Apr-15		<0.00210	<0.0100	<0.000330	<0.000380	<0.000870	<0.000280	<0.000380	<0.000350	<0.000330	<0.000450	<0.000320	<0.000280
	MW-79	Oct-15		<0.00214	<0.0100	<0.000331	<0.000380	<0.000866 J	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-79	Apr-16		<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-79	Oct-16		<0.00214	<0.0100 J4	<0.000331	<0.000380	<0.000866	0.00104	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-79	Apr-17		<0.0214	<0.100	<0.00331	<0.00380	**<0.00866**	<0.00275	<0.00379	<0.00348	<0.00327	<0.00453	<0.00324	<0.00276
	MW-79	Oct-17		<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-80	Apr-14		<0.00100	0.0045 J	<0.000600	<0.00060	<0.000500	<0.000900	<0.000600	<0.000400	<0.00050	<0.000500	<0.000600	<0.000500
	MW-80	Apr-15		<0.00210	<0.0100	<0.000330	<0.000380	<0.000870	<0.000280	<0.000380	<0.000350	<0.000330	<0.000450	<0.000320	<0.000280
	MW-80	Apr-16		<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-80	Apr-17		<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-81	Apr-14		<0.00100	<0.00200	<0.000600	<0.00060	<0.000500	<0.000900	<0.000600	<0.000400	<0.00050	<0.000500	<0.000600	<0.000500
	MW-81	Apr-15		<0.00210	<0.0100	<0.000330	<0.000380	<0.000870	<0.000280	<0.000380	<0.000350	<0.000330	<0.000450	<0.000320	<0.000280
	MW-81	Apr-16		<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-81	Apr-17		<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-82	Apr-14		<0.00100	0.015	<0.000600	<0.00060	<0.000500	<0.000900	<0.000600	<0.000400	<0.00050	<0.000500	<0.000600	<0.000500
	MW-82	Apr-14	FD	<0.00100	0.0097 J	<0.000600	<0.00060	<0.000500	<0.000900	<0.000600	<0.000400	<0.00050	<0.000500	<0.000600	<0.000500
	MW-82	Apr-15		<0.00210	<0.0100	0.000339 J	<0.000380	<0.000870	<0.000280	<0.000380	<0.000350	<0.000330	<0.000450	<0.000320	<0.000280
	MW-82	Apr-16		<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-82	Apr-17		<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-83	Apr-15		<0.00210	0.0235 J	<0.000330	<0.000380	<0.000870	<0.000280	<0.000380	<0.000350	<0.000330	<0.000450	<0.000320	<0.000280
	MW-83	Oct-15		<0.00214	0.0103 J	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-83	Apr-16		<0.00214	0.012 J	0.00114	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-83	Oct-16		<0.00214	<0.0100 J3	0.000449 J	<0.000380	<0.000866 J4	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-83	Apr-17		<0.0214	<0.100	<0.00331	<0.00380	**<0.00866**	<0.00275	<0.00379	<0.00348	<0.00327	<0.00453	<0.00324	<0.00276
	MW-83	Oct-17		<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-84	Apr-15		<0.00210	0.0263 J	0.000664 J	<0.000380	<0.000870	<0.000280	<0.000380	<0.000350	<0.000330	<0.000450	<0.000320	<0.000280
	MW-84	Oct-15		<0.00214	0.0166 J	<0.000331	<0.000380	<0.000866 J	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-84	Apr-16		<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-84	Oct-16		<0.0214	<0.100 J4	<0.00331	<0.00380	**<0.00866**	<0.00275	<0.00379	<0.00348	<0.00327	<0.00453	<0.00324	<0.00276
	MW-84	Apr-17		<0.0214	<0.100	<0.00331	<0.00380	**<0.00866**	<0.00275	<0.00379	<0.00348	<0.00327	<0.00453	<0.00324	<0.00276
	MW-84	Oct-17		<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-87	Apr-15		<0.00210	<0.0100	<0.000330	<0.000380	<0.000870	<0.000280	<0.000380	<0.000350	<0.000330	<0.000450	<0.000320	<0.000280
	MW-87	Oct-15		<0.00214	<0.0100	<0.000331	<0.000380	<0.000866 J	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-87	Apr-16		<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-87	Oct-16		<0.00214	<0.0100 J3	<0.000331	<0.000380	<0.000866 J4	0.000317 J	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-87	Apr-17		<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-87	Oct-17		<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276

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

2017 Annual Groundwater Monitoring Report

HollyFrontier Navajo Refining LLC, Artesia Refinery, Artesia, New Mexico

				Analyte Group:	Volatile Organic Compounds												
				Analyte:	4-Methyl-2-Pentanone	Acetone	Benzene	Bromo-dichloro-methane	Bromo-methane	Carbon Disulfide	Carbon Tetrachloride	Chloro-benzene	Chloro-dibromo-methane	Chloroethane	Chloroform	Chloro-methane
				Units:	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
				CGWSL:	1.24	14.1	0.005	0.08	0.00754	0.81	0.005	0.1	0.08	20.86	0.08	0.0203
				CGWSL Source:	NMED TW	TMED TW	USEPA MCL	USEPA MCL	NMED TW	NMED TW	USEPA MCL	USEPA MCL	USEPA MCL	NMED TW	USEPA MCL	NMED TW
Area	**Well ID**	**Date**	**Dup**													
Evaporation Ponds	MW-88	Apr-15		<0.00210	<0.0100	<0.000330	<0.000380	<0.000870	<0.000280	<0.000380	<0.000350	<0.000330	<0.000450	<0.000320	<0.000280
	MW-88	Oct-15		<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-88	Apr-16		<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-88	Oct-16		<0.00214	<0.0100 J4	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-88	Apr-17		<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-88	Oct-17		<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-120	Apr-15		<0.00210	0.0158 J	<0.000330	<0.000380	<0.000870	<0.000280	<0.000380	<0.000350	<0.000330	<0.000450	<0.000320	<0.000280
	MW-120	Oct-15		<0.00210	<0.0100	<0.000331	<0.000380	<0.000866 J	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-120	Apr-16		<0.00214	0.0108 J	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-120	Oct-16		<0.00214	<0.0100 J3	<0.000331	<0.000380	<0.000866 J4	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-120	Apr-17		<0.0214	<0.100	<0.00331	<0.00380	**<0.00866**	<0.00275	<0.00379	<0.00348	<0.00327	<0.00453	<0.00324	<0.00276
	MW-120	Oct-17		<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-121	Apr-15		<0.00210	<0.0100	<0.000330	<0.000380	<0.000870	<0.000280	<0.000380	<0.000350	<0.000330	<0.000450	<0.000320	<0.000280
	MW-121	Oct-15		<0.00214	<0.0100	<0.000331	<0.000380	<0.000866 J	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-121	Apr-16		<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-121	Oct-16		<0.00214	<0.0100 J3	<0.000331	<0.000380	<0.000866 J4	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-121	Apr-17		<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-121	Oct-17		<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-122	Apr-15		<0.00210	0.0115 J	<0.000330	<0.000380	<0.000870	<0.000280	<0.000380	<0.000350	<0.000330	<0.000450	<0.000320	<0.000280
	MW-122	Oct-15		<0.00214	<0.0100	<0.000331	<0.000380	<0.000866 J	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-122	Apr-16		<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-122	Oct-16		<0.00214	<0.0100 J3	<0.000331	<0.000380	<0.000866 J4	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-122	Apr-17		<0.0214	<0.100	<0.00331	<0.00380	**<0.00866**	<0.00275	<0.00379	<0.00348	<0.00327	<0.00453	<0.00324	<0.00276
	MW-122	Oct-17		<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-123	Apr-15		<0.000360	<0.00210	<0.000330	<0.000380	<0.000870	<0.000280	<0.000380	<0.000350	<0.000330	<0.000450	<0.000320	<0.000280
	MW-123	Oct-15		<0.000365	<0.00214	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-123	Apr-16		<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-123	Oct-16		<0.00214	<0.0100 J3	<0.000331	<0.000380	<0.000866 J4	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-123	Apr-17		<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-123	Oct-17		<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-124	Apr-15		<0.00210	<0.00210	<0.000330	<0.000380	<0.000870	<0.000280	<0.000380	<0.000350	<0.000330	<0.000450	<0.000320	<0.000280
	MW-124	Oct-15		<0.00214	<0.00214	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-124	Apr-16		<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-124	Oct-16		<0.00214	<0.0100 J3	<0.000331	<0.000380	<0.000866 J4	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-124	Apr-17		<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-124	Oct-17		<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	OCD-1R	Apr-15		<0.00210	<0.0100	<0.000330	<0.000380	<0.000870	<0.000280	<0.000380	<0.000350	<0.000330	<0.000450	<0.000320	<0.000280
	OCD-1R	Oct-15		<0.00210	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	OCD-1R	Apr-16		<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	OCD-1R	Oct-16		<0.00214	<0.0100 J4	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	OCD-1R	Apr-17		<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	OCD-1R	Oct-17		<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	OCD-2A	Apr-15		<0.00210	<0.0100	<0.000330	<0.000380	<0.000870	<0.000280	<0.000380	<0.000350	<0.000330	<0.000450	<0.000320 J	<0.000280
	OCD-2A	Oct-15		<0.00214	<0.0100	<0.000331	<0.000380	<0.000866 J	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	OCD-2A	Apr-16		<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	OCD-2A	Oct-16		<0.00214	<0.0100 J4	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	OCD-2A	Apr-17		<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	OCD-2A	Oct-17		<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	OCD-3	Apr-15		<0.00210	<0.0100	<0.000330	<0.000380	<0.000870	<0.000280	<0.000380	<0.000350	<0.000330	<0.000450	<0.000320	<0.000280
	OCD-3	Oct-15		<0.00214	<0.0100	<0.000331	<0.000380	<0.000866 J	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	OCD-3	Apr-16		<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	OCD-3	Oct-16		<0.00214	<0.0100 J4	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	OCD-3	Apr-17		<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	OCD-3	Oct-17		<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	OCD-4	Apr-15		<0.00210	<0.0100	<0.000330	<0.000380	<0.000870	<0.000280	<0.000380	<0.000350	<0.000330	<0.000450	<0.000320	<0.000280
	OCD-4	Oct-15		<0.00214	<0.0100	<0.000331	<0.000380	<0.000866 J	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	OCD-4	Apr-16		<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	OCD-4	Oct-16		<0.00214	<0.0100 J4	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	OCD-4	Apr-17		<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	OCD-4	Oct-17		<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	OCD-5	Apr-15		<0.00210	<0.0100	<0.000330	<0.000380	<0.000870	<0.000280	<0.000380	<0.000350	<0.000330	<0.000450	<0.000320	<0.000280
	OCD-5	Oct-15		<0.00214	<0.0100	<0.000331	<0.000380	<0.000866 J	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	OCD-5	Apr-16		<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	OCD-5	Oct-16		<0.00214	<0.0100 J4	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	OCD-5	Apr-17		<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	OCD-5	Oct-17		<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	OCD-6	Apr-15		<0.00210	<0.0100	<0.000330	<0.000380	<0.000870	<0.000280	<0.000380	<0.000350	<0.000330	<0.000450	<0.000320	<0.000280
	OCD-6	Oct-15		<0.00214	<0.0100	<0.000331	<0.000380	<0.000866 J	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	OCD-6	Apr-16		<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	OCD-6	Oct-16		<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	OCD-6	Apr-17		<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	OCD-6	Oct-17		<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	OCD-7AR	Apr-15		<0.00210	<0.0100	<0.000330	<0.000380	<0.000870	<0.000280	<0.000380	<0.000350	<0.000330	<0.000450	<0.000320	<0.000280
	OCD-7AR	Oct-15		<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	OCD-7AR	Apr-16		<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	OCD-7AR	Oct-16		<0.00214	<0.0100 J3	<0.000331	<0.000380	<0.000866 J4	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	OCD-7AR	Apr-17		<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	OCD-7AR	Oct-17		<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	OCD-7B	Mar-13		<0.0100	<0.0100	<0.00500	<0.00500	<0.00500	<0.0100	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
	OCD-7B	Apr-15		<0.00210	<0.0100	<0.000330	<0.000380	<0.000870	0.00042 J	<0.000380	<0.000350	<0.000330	<0.000450	<0.000320	<0.000280
	OCD-7B	Apr-17		<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	OCD-8A	Apr-15		<0.00210	<0.0100	<0.000330	<0.000380	<0.000870	<0.000280	<0.000380	<0.000350	<0.000330	<0.000450	<0.000320	<0.000280
	OCD-8A	Oct-15		<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	OCD-8A	Apr-16		<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	OCD-8A	Oct-16		<0.00214	<0.0100 J3	<0.000331	<0.000380	<0.000866 J4	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	OCD-8A	Apr-17		<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	OCD-8A	Oct-17		<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	OCD-8B	Apr-13		<0.0100	<0.0100	<0.00500	<0.00500	<0.00500	<0.0100	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
	OCD-8B	Apr-15		<0.00210	<0.0100	<0.000330	<0.000380	<0.000870	<0.000280	<0.000380	<0.000350	<0.000330	<0.000450	<0.000320	<0.000280
	OCD-8B	Apr-17		<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
Field East of Refinery	KWB-1A	Apr-15		<0.00100	<0.0100	<0.000330	<0.000380	<0.000870	<0.000280	<0.000380	<0.000350	<0.000330	<0.000450	<0.000320	<0.000280
	KWB-1A	Oct-15		<0.00210	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	KWB-1A	Apr-16		<0.00210	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	KWB-1A	Oct-16		<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	KWB-1A	Apr-17		<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	KWB-1A	Oct-17		<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	KWB-1C	Apr-13		<0.0100	<0.0100	<0.00500	<0.00500	<0.00500	<0.0100	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
	KWB-1C	Apr-15		<0.00210	<0.0100	<0.000330	<0.000380	<0.000870	<0.000280	<0.000380	<0.000350	<0.000330	<0.000450	<0.000320	<0.000280
	KWB-1C	Apr-17		<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	KWB-7	Apr-15		<0.00210	<0.0100	**0.9290**	<0.000380	<0.000870	<0.00280	<0.000380	<0.000350	<0.000330	<0.000450	<0.000320	<0.000280
	KWB-7	Oct-15		<0.00214	<0.0100	**0.0164**	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	KWB-7	Apr-16		<0.00214	<0.0100	**0.0365**	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	KWB-7	Oct-16		<0.00214	<0.0100	**0.0364**	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	KWB-7	Apr-17		<0.00214	<0.0100	**0.0135**	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	KWB-7	Oct-17		<0.00214	<0.0100	**0.0363**	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276

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

2017 Annual Groundwater Monitoring Report

HollyFrontier Navajo Refining LLC, Artesia Refinery, Artesia, New Mexico

				Analyte Group:	Volatile Organic Compounds												
				Analyte:	4-Methyl-2-Pentanone	Acetone	Benzene	Bromo-dichloro-methane	Bromo-methane	Carbon Disulfide	Carbon Tetrachloride	Chloro-benzene	Chloro-dibromo-methane	Chloroethane	Chloroform	Chloro-methane
				Units:	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
				CGWSL:	1.24	14.1	0.005	0.08	0.00754	0.81	0.005	0.1	0.08	20.86	0.08	0.0203
				CGWSL Source:	NMED TW	TMED TW	USEPA MCL	USEPA MCL	NMED TW	NMED TW	USEPA MCL	USEPA MCL	USEPA MCL	NMED TW	USEPA MCL	NMED TW
Area	**Well ID**	**Date**	**Dup**														
Field East of Refinery	KWB-8	Oct-16			<0.428	<2.00	**11.5**	<0.0760	**<0.173**	<0.0550	**<0.0758**	<0.0696	<0.0654	<0.0906	<0.0648	**<0.0552**
	KWB-8	Apr-17			<0.214	<1.00	**5.62**	<0.0380	**<0.0866**	<0.0275	**<0.0379**	<0.0348	<0.0327	<0.0453	<0.0324	**<0.0276**
	KWB-8	Oct-17			<0.00214	0.0801	**12.5**	<0.000380	<0.000866	0.00427	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	KWB-10R	Apr-15			<0.0210	<0.100	**5.65**	<0.00380	**<0.00870**	<0.00280	<0.00380	<0.00350	<0.00330	<0.00450	<0.00320	<0.00280
	KWB-10R	Oct-15			<0.00214	<0.0100	**6.77**	<0.000380	<0.000866	<0.0275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	KWB-10R	Apr-16			<0.107	<0.500	**5.26**	<0.0190	**<0.0433**	0.0329 J	**<0.0190**	<0.0174	<0.0164	<0.0226	<0.0162	<0.0138
	KWB-10R	Oct-16			<0.0428	<0.200	**0.565**	<0.00760	**<0.0173**	<0.00550	**<0.00758**	<0.00696	<0.00654	<0.00906	<0.00648	<0.00552
	KWB-10R	Apr-17			<0.107	<0.500	**4.95**	<0.0190	**<0.0433**	<0.0138	**<0.0190**	<0.0174	<0.0164	<0.0226	0.0172 J	<0.0138
	KWB-10R	Oct-17			<0.00214	<0.0100	**7.06**	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	KWB-11A	Apr-15			<0.00210	0.0176 J	**0.0248**	<0.000380	<0.000870	<0.000280	<0.000380	<0.000350	<0.000330	<0.000450	<0.000320	<0.000280
	KWB-11A	Oct-15			<0.00214	<0.0100	**0.00571**	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	KWB-11A	Apr-16			<0.00214	<0.0100	**0.00541**	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	KWB-11A	Oct-16			<0.00214	<0.0100	**0.00725**	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	KWB-11A	Apr-17			<0.00214	<0.0100	0.00359	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	KWB-11A	Oct-17			<0.00214	<0.0100	**0.0116**	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	KWB-11B	Apr-15			<0.00210	<0.0100	<0.000330	<0.000380	<0.000870	<0.000280	<0.000380	<0.000350	<0.000330	<0.000450	<0.000320	<0.000280
	KWB-11B	Oct-15			<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	KWB-11B	Apr-16			<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	KWB-11B	Oct-16			<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	KWB-11B	Apr-17			<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	KWB-11B	Oct-17			<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	KWB-12A	Apr-15			<0.00210	<0.0100	<0.000330	<0.000380	<0.000870	<0.000280	<0.000380	<0.000350	<0.000330	<0.000450	<0.000320	<0.000280
	KWB-12A	Apr-15	FD		<0.00210	<0.0100	<0.000330	<0.000380	<0.000870	<0.000280	<0.000380	<0.000350	<0.000330	<0.000450	<0.000320	<0.000280
	KWB-12A	Oct-15			<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	KWB-12A	Apr-16			<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	KWB-12A	Oct-16			<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	KWB-12A	Apr-17			<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	KWB-12A	Oct-17			<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	KWB-12B	Apr-15			<0.00210	<0.0100	<0.000330	<0.000380	<0.000870	<0.000280	<0.000380	<0.000350	<0.000330	<0.000450	<0.000320	<0.000280
	KWB-12B	Oct-15			<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	KWB-12B	Oct-15	FD		<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275 J	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276 J
	KWB-12B	Apr-16			<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	KWB-12B	Apr-16	FD		<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	KWB-12B	Oct-16			<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	KWB-12B	Oct-16	FD		<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	0.000435 J	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	KWB-12B	Apr-17			<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	KWB-12B	Apr-17	FD		<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	KWB-12B	Oct-17			<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	KWB-12B	Oct-17	FD		<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	KWB-P4	Apr-13			<0.0100	<0.0100	<0.00500	<0.00500	<0.00500	<0.0100	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
	KWB-P4	Apr-15			<0.00210	<0.0100	<0.000330	<0.000380	<0.000870	<0.000280	<0.000380	<0.000350	<0.000330	<0.000450	<0.000320	<0.000280
	KWB-P4	Apr-17			<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-57	Apr-15			<0.00210	<0.0100	<0.000330	<0.000380	<0.000870	<0.000280	<0.000380	<0.000350	<0.000330	<0.000450	<0.000320	<0.000280
	MW-57	Oct-15			<0.00214	<0.0100	0.00123 J	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-57	Apr-16			<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-57	Oct-16			<0.00214	<0.0100	0.000681 J	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-57	Apr-17			<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-57	Oct-17			<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-58	Apr-15			<0.0210	<0.100	**6.03**	<0.00380	**<0.00870**	<0.00280	<0.00380	<0.00350	<0.00330	<0.00450	<0.00320	<0.00280
	MW-58	Oct-15			<0.214	<1.00	**6.89**	<0.0380	**<0.0866**	<0.0275	**<0.0379**	<0.0348	<0.0327	<0.0453	<0.0324	**<0.0276**
	MW-58	Apr-16			<0.0214	<0.100	**4.12**	<0.00380	**<0.00866**	<0.00275	<0.00379	<0.00348	<0.00327	<0.00453	<0.00324	<0.00276
	MW-58	Oct-16			<0.00214	<0.0100	**5.92**	<0.000380	<0.000866	0.000345 JV3	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-58	Apr-17			<0.214	<1.00	**3.00**	<0.0380	**<0.0866**	<0.0275	**<0.0379**	<0.0348	<0.0327	<0.0453	<0.0324	**<0.0276**
	MW-58	Oct-17			<0.00214	<0.0100	**4.08**	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-111	Apr-15			<0.00210	<0.0100	**0.0755**	<0.000380	<0.000870	<0.000280	<0.000380	<0.000350	<0.000330	<0.000450	<0.000320	<0.000280
	MW-111	Oct-15			<0.00214	<0.0100	**0.0243**	<0.000380	<0.000866	<0.00688	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-111	Apr-16			<0.00214	<0.0100	**0.0299**	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-111	Oct-16			<0.00214	<0.0100	**0.0432**	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-111	Apr-17			<0.00214	<0.0100	**0.0205**	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-111	Oct-17			<0.00214	<0.0100	**<0.0331**	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-113	Apr-15			<0.00210	<0.0100	<0.000330	<0.000380	<0.000870	<0.000280	<0.000380	<0.000350	<0.000330	<0.000450	<0.000320	<0.000280
	MW-113	Apr-15	FD		<0.00210	<0.0100	0.000402 J	<0.000380	<0.000870	<0.000280	<0.000380	<0.000350	<0.000330	<0.000450	<0.000320	<0.000280
	MW-113	Oct-15			<0.00214	<0.0100	0.000477 J	<0.000380	<0.000866	<0.000275 J	<0.000379 J	<0.000348	<0.000327 J	<0.000453	<0.000324	<0.000276
	MW-113	Oct-15	FD		<0.00214	<0.0100	0.000533 J	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-113	Apr-16			<0.00214	<0.0100	**0.0136**	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-113	Apr-16	FD		<0.00214	<0.0100	**0.0148**	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-113	Oct-16			<0.00214	<0.0100	**0.00660**	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-113	Oct-16	FD		<0.00214	<0.0100	**0.00588**	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-113	Apr-17			<0.00214	0.0424 J	**0.0136**	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-113	Apr-17	FD		<0.00214	<0.0100	**0.0145**	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-113	Oct-17			<0.00214	<0.0100	**0.0132**	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-113	Oct-17	FD		<0.00214	<0.0100	**0.0138**	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-125	Apr-15			<0.00210	<0.0100	<0.000330	<0.000380	<0.000870	<0.000280	<0.000380	<0.000350	<0.000330	<0.000450	<0.000320	<0.000280
	MW-125	Oct-15			<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-125	Apr-16			<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-125	Oct-16			<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-125	Apr-17			<0.00214	<0.0100	0.000603 J	<0.000380	<0.000866 J4	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-125	Oct-17			<0.00214	<0.0100	0.000404 J	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-126A	Apr-15			<0.00210	<0.0100	<0.000330	<0.000380	<0.000870	<0.000280	<0.000380	<0.000350	<0.000330	<0.000450	<0.000320	<0.000280
	MW-126A	Oct-15			<0.00214	0.0351 J	**0.0447**	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-126A	Apr-16			<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-126A	Oct-16			<0.00214	<0.0100	**0.0503**	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-126A	Apr-17			<0.00214	<0.0100	0.000354 J	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-126A	Oct-17			<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-126B	Apr-15			<0.00210	<0.0100	<0.000330	<0.000380	<0.000870	<0.000280	<0.000380	<0.000350	<0.000330	<0.000450	<0.000320	<0.000280
	MW-126B	Oct-15			<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-126B	Apr-16			<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	0.000321 J	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-126B	Oct-16			<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-126B	Apr-17			<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-126B	Oct-17			<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-127	Apr-15			<0.00210	<0.0100	**4.41**	<0.000380	<0.000870	<0.0140	<0.000380	<0.000350	<0.000330	<0.000450	<0.000320	<0.000280
	MW-127	Oct-15			<0.0428	<0.200	**1.51**	<0.00760	**<0.0173**	<0.00550	**<0.00758**	<0.00696	<0.00654	<0.00906	<0.00648	<0.00552
	MW-127	Apr-16			<0.00214	<0.0100	**2.01**	<0.000380	<0.000866	0.000424 J	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-127	Oct-16			<0.0214	<0.100	**0.644**	<0.00380	**<0.00866**	<0.00275	<0.00379	<0.00348	<0.00327	<0.00453	<0.00324	<0.00276
	MW-127	Apr-17			<0.00214	<0.0100	**1.04**	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-127	Oct-17			<0.00214	<0.0100	**0.462**	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-128	Apr-15			<0.00210	<0.0100	**0.297**	<0.000380	<0.000870	0.000321 J	<0.000380	<0.000350	<0.000330	<0.000450	<0.000320	<0.000280
	MW-128	Oct-15			<0.0428	<0.200	**0.0297**	<0.00760	**<0.0173**	<0.00550	**<0.00758**	<0.00696	<0.00654	<0.00906	<0.00648	<0.00552
	MW-128	Apr-16			<0.00214	<0.0100	**0.0231**	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-128	Oct-16			<0.00214	<0.0100	**0.109**	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-128	Apr-17			<0.00214	<0.0100	**0.0563**	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-128	Oct-17			<0.00214	<0.0100	**0.0701**	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276

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

2017 Annual Groundwater Monitoring Report

HollyFrontier Navajo Refining LLC, Artesia Refinery, Artesia, New Mexico

				Analyte Group:	Volatile Organic Compounds												
				Analyte:	4-Methyl-2-Pentanone	Acetone	Benzene	Bromo-dichloro-methane	Bromo-methane	Carbon Disulfide	Carbon Tetrachloride	Chloro-benzene	Chloro-dibromo-methane	Chloroethane	Chloroform	Chloro-methane
				Units:	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
				CGWSL:	1.24	14.1	0.005	0.08	0.00754	0.81	0.005	0.1	0.08	20.86	0.08	0.0203
				CGWSL Source:	NMED TW	TMED TW	USEPA MCL	USEPA MCL	NMED TW	NMED TW	USEPA MCL	USEPA MCL	USEPA MCL	NMED TW	USEPA MCL	NMED TW
Area	**Well ID**	**Date**	**Dup**														
Field East of Refinery	MW-129	Apr-15		<0.00210	<0.0100	**0.0372**	<0.000380	<0.000870	<0.0280	<0.000380	<0.000350	<0.000330	<0.000450	<0.000320	<0.000280
	MW-129	Oct-15		<0.214	<1.00	**<0.0331**	<0.0380	**<0.0866**	<0.0275	**<0.0379**	<0.0348	<0.0327	<0.0453	<0.0324	**<0.0276**
	MW-129	Apr-16		<0.00214	<0.0100	**<0.0166**	<0.000380	<0.000866	0.000295 J	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-129	Oct-16		<0.00214	<0.0100	**0.00791**	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-129	Apr-17		<0.00214	<0.0100	0.00299	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-130	Apr-15		<0.00210	<0.0100	<0.000330	<0.000380	<0.000870	<0.000280	<0.000380	<0.000350	<0.000330	<0.000450	<0.000320	<0.000280
	MW-130	Oct-15		<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-130	Apr-16		<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-130	Oct-16		<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-130	Apr-17		<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-130	Oct-17		<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-131	Apr-15		<0.00210	<0.0100	**1.91**	<0.000380	<0.000870	<0.000280	<0.000380	<0.000350	<0.000330	<0.000450	<0.000320	<0.000280
	MW-131	Oct-15		<0.00214	<0.0100	**2.19**	<0.000380	<0.000866	<0.0138	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-131	Apr-16		<0.00214	<0.0100	**2.42**	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-131	Oct-16		<0.0107	<0.0500	**1.58**	<0.00190	<0.00433	<0.00138	<0.00190	<0.00174	<0.00164	<0.00226	<0.00162	<0.00138
	MW-131	Apr-17		<0.00214	<0.0100	**3.09**	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-131	Oct-17		<0.00214	<0.0100	**1.39**	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-133	Nov-14		<0.210	<1.00	**0.620**	<0.0380	**<0.0870**	<0.0280	**<0.0380**	<0.0350	<0.0330	<0.0450	<0.0320	**<0.0280**
	MW-133	Apr-15		<0.210	<1.00	**0.788**	<0.0380	**<0.0870**	<0.0280	**<0.0380**	<0.0350	<0.0330	<0.0450	<0.0320	**<0.0280**
	MW-134	Apr-15		<0.00210	<0.0100	<0.000330	<0.000380	<0.000870	<0.000280	<0.000380	<0.000350	<0.000330	<0.000450	<0.000320	<0.000280
	MW-134	Apr-15	FD	<0.00210	<0.0100	<0.000330	<0.000380	<0.000870	<0.000280	<0.000380	<0.000350	<0.000330	<0.000450	<0.000320	<0.000280
	MW-134	Oct-15		<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-134	Oct-15	FD	<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-134	Apr-16		<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	0.00039 J	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-134	Apr-16	FD	<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-134	Oct-16		<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-134	Oct-16	FD	<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-134	Apr-17		<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-134	Apr-17	FD	<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-134	Oct-17		<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-134	Oct-17	FD	<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-135	Apr-15		<0.00210	<0.0100	<0.000330	<0.000380	<0.000870	<0.000280	<0.000380	<0.000350	<0.000330	<0.000450	<0.000320	<0.000280
	MW-135	Oct-15		<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	0.000328 J
	MW-135	Apr-16		<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-135	Oct-16		<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-135	Apr-17		<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-135	Oct-17		<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	RA-4196	Apr-15		<0.00210	<0.0100	<0.000330	<0.000380	<0.000870	<0.000280	<0.000380	<0.000350	<0.000330	<0.000450	<0.000320	<0.000280
	RA-4196	Oct-15		<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	RA-4196	Apr-16		<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	RA-4196	Oct-16		<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	RA-4196	Apr-17		<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	RA-4196	Oct-17		<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	RA-4798	Apr-15		<0.00210	<0.0100	<0.000330	<0.000380	<0.000870	<0.000280	<0.000380	<0.000350	<0.000330	<0.000450	<0.000320	<0.000280
	RA-4798	Oct-15		<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	RA-4798	Apr-16		<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	RA-4798	Oct-16		<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	RA-4798	Apr-17		<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	RA-4798	Oct-17		<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	RW-12R	Apr-16		<0.0107	<0.0500	**0.424**	<0.00190	<0.00433	0.00186 J	<0.00190	<0.00174	<0.00164	<0.00226	<0.00162	<0.00138
	RW-12R	Apr-17		<0.0107	<0.0500	**0.335**	<0.00190	<0.00433	0.00142 J	<0.00190	<0.00174	<0.00164	<0.00226	<0.00162	<0.00138
	RW-13R	Apr-16		<0.00214	<0.0100	**0.878**	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	RW-18	Apr-14		<0.00214	<0.00200	<0.000600	<0.00060	<0.000500	<0.000900	<0.000600	<0.000400	<0.00050	<0.000500	<0.000600	<0.000500
	RW-18	Apr-15		<0.00214	<0.0100	<0.000330	<0.000380	<0.000870	<0.000280	<0.000380	<0.000350	<0.000330	<0.000450	<0.000320	<0.000280
	RW-18	Apr-16		<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	0.000636 J	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	RW-18	Apr-17		<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	RW-20	Apr-15		<0.0210	<0.100	**1.87**	<0.00380	**<0.00870**	<0.00280	<0.00380	<0.00350	<0.00330	<0.00450	<0.00320	<0.00280
	RW-22	Apr-15		<0.0210	<0.100	**4.07**	<0.00380	**<0.00870**	<0.00280	<0.00380	<0.00350	<0.00330	<0.00450	<0.00320	<0.00280
North Refinery	MW-23	Apr-15		<0.0540	<0.250	**11.6**	<0.00950	**<0.0220**	0.0664	**<0.00950**	<0.00870	<0.00820 J	<0.0110	<0.00810	<0.00690
	MW-23	Oct-15		<0.00214	0.06	**20.3**	<0.000380	<0.000866	0.000766 J	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-23	Apr-16		<0.0107	<0.0500	**15.5**	<0.00190	<0.00433	0.00185 J	<0.00190	<0.00174	<0.00164	<0.00226	<0.00162	<0.00138
	MW-23	Oct-16		<0.0535	<0.250 J3	**12.2**	<0.00950	**<0.0216**	<0.00688	**<0.00948**	<0.00870	<0.00818	<0.0113	<0.00810	<0.00690
	MW-23	Apr-17		<0.00214	<0.0100	**8.49**	<0.000380	<0.000866 J4	0.000448 J	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-23	Oct-17		<0.00214	<0.0100	**8.11**	<0.000380	<0.000866	0.000451 J	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-29	Apr-15		<0.00210	<0.0100	<0.000330	<0.000380	<0.000870	0.000401 J	<0.000380	<0.000350	<0.000330	<0.000450	<0.000320	<0.000280
	MW-29	Oct-15		<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-29	Apr-16		<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	0.000551 J	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-29	Oct-16		<0.00214	<0.0100 J3	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-29	Apr-17		<0.00214	<0.0100	0.000616 J	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-29	Oct-17		<0.00214	<0.0100	0.000442 J	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-39	Apr-15		<0.00210	<0.0100	<0.000330	<0.000380	<0.000870	0.000372 J	<0.000380	<0.000350	<0.000330	<0.000450	<0.000320	<0.000280
	MW-39	Oct-15		<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	0.00117	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-39	Apr-16		<0.0535	<0.250	**2.14**	<0.00950	**<0.0117**	<0.00688	**<0.00948**	<0.00870	<0.00818	<0.0113	<0.00810	<0.00690
	MW-39	Oct-16		<0.214	<1.00 J3	**3.62**	<0.0380	**<0.0866**	<0.0275	**<0.0379**	<0.0348	<0.0327	<0.0453	<0.0324	**<0.0276**
	MW-39	Apr-17		<0.0214	<0.100	**1.33**	<0.00380	**<0.00866** J4	<0.00275	<0.00379	<0.00348	<0.00327	<0.00453	<0.00324	<0.00276
	MW-39	Oct-17		<0.00214	<0.0100	**0.476**	<0.000380	<0.000866	0.000647 J	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-40	Apr-14		<0.00214	0.0055 J	**0.0110**	<0.00060	<0.000500	<0.000900	<0.000600	<0.000400	<0.00050	<0.000500	<0.000600	<0.000500
	MW-40	Apr-15		<0.00214	<0.0100	**0.0198**	<0.000380	<0.000870 J	0.000595 J	<0.000380	<0.000350	<0.000330	<0.000450	<0.000320	<0.000280
	MW-40	Apr-16		<0.00214	<0.0100	**0.0112**	<0.000380	<0.000866	0.00126	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-40	Apr-17		<0.00214	<0.0100	**0.00857**	<0.000380	<0.000866	0.00128	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-41	Apr-14		<0.00100	0.0049 J	**0.0180**	<0.00060	<0.000500	<0.000900	<0.000600	<0.000400	<0.00050	<0.000500	<0.000600	<0.000500
	MW-41	Apr-15		<0.00210	<0.0100	0.00190	<0.000380	<0.000870	0.000349 J	<0.000380	<0.000350	<0.000330	<0.000450	<0.000320	<0.000280
	MW-41	Apr-16		<0.00214	<0.0100	0.00360	<0.000380	<0.000866	0.00136	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-41	Apr-17		<0.00214	<0.0100	0.00339	<0.000380	<0.000866 J4	0.000318 J	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-42	Apr-14		<0.00100	<0.00200	**0.540**	<0.00060	<0.000500	0.0013 J	<0.000600	<0.000400	<0.00050	<0.000500	<0.000600	<0.000500
	MW-42	Apr-15		<0.0210	<0.100	**0.216**	<0.00380	**<0.00870**	<0.00280	<0.00380	<0.00350	<0.00330	<0.00450	<0.00320	<0.00280
	MW-42	Apr-16		<0.0107	<0.0500	**0.103**	<0.00190	<0.00433	0.00212 J	<0.00190	<0.00174	<0.00164	<0.00226	<0.00162	<0.00138
	MW-42	Apr-17		<0.00214	<0.0100	**0.0240**	<0.000380	<0.000866 J4	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-43	Apr-15		<0.0210	0.17 J	**0.992**	<0.00380	**<0.00870**	0.0262	<0.00380	<0.00350	<0.00330 J	<0.00450	<0.00320	<0.00280
	MW-43	Oct-15		<0.0214	<0.100	**13.0**	<0.00380	**<0.00866**	0.00398 J	<0.00379	<0.00348	<0.00327	<0.00453	<0.00324	<0.00276
	MW-43	Apr-16		<0.535	<2.50	**12.4**	**<0.0950**	**<0.216**	<0.0688	**<0.0948**	<0.0870	**<0.0818**	<0.113	**<0.0810**	**<0.0690**
	MW-43	Oct-16		<0.535	<2.50 J3	**12.4**	**<0.0950**	**<0.216**	<0.0688	**<0.0948**	<0.0870	**<0.0818**	<0.113	**<0.0810**	**<0.0690**
	MW-43	Apr-17		<0.107	<0.500 J4	**9.62**	<0.0190	**<0.0433**	<0.0138	**<0.0190**	<0.0174	<0.0164	<0.0226	<0.0162	<0.0138
	MW-43	Oct-17		<0.107	<0.500	**10.7**	<0.0190	**<0.0433**	0.0208 J	**<0.0190**	<0.0174	<0.0164	<0.0226	<0.0162	<0.0138
	MW-59	Apr-14		<0.00100	<0.00200	**0.0130**	<0.00060	<0.000500	<0.000900	<0.000600	<0.000400	<0.00050	<0.000500	<0.000600	<0.000500
	MW-59	Apr-15		<0.00210	<0.0100	**0.0119**	<0.000380	<0.000870	0.00087 J	<0.000380	<0.000350	<0.000330	<0.000450	<0.000320	<0.000280
	MW-59	Apr-16		<0.00214	<0.0100	0.00329	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-59	Apr-17		<0.00214	<0.0100	0.00218	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-60	Apr-15		<0.00210	0.0397 J	**0.0127 J**	<0.000380	<0.000870	0.00178	<0.000380	<0.000350	<0.000330	<0.000450	<0.000320	<0.000280
	MW-60	Apr-15	FD	<0.00210	<0.0100	**0.00829 J**	<0.000380	<0.000870	0.00374	<0.000380	<0.000350	<0.000330	<0.000450	<0.000320	<0.000280
	MW-60	Oct-15		<0.00214	<0.0100	0.00326	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-60	Oct-15	FD	<0.00214	<0.0100	0.00307	<0.000380	<0.000866	0.000361 J	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-60	Apr-16		<0.00214	0.0368 J	0.00473	<0.000380	<0.000866	0.00442	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-60	Apr-16	FD	<0.00214	<0.0100	**0.00565**	<0.000380	<0.000866	0.000403 J	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276

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

2017 Annual Groundwater Monitoring Report

HollyFrontier Navajo Refining LLC, Artesia Refinery, Artesia, New Mexico

				Analyte Group:	Volatile Organic Compounds												
				Analyte:	4-Methyl-2-Pentanone	Acetone	Benzene	Bromo-dichloro-methane	Bromo-methane	Carbon Disulfide	Carbon Tetrachloride	Chloro-benzene	Chloro-dibromo-methane	Chloroethane	Chloroform	Chloro-methane
				Units:	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
				CGWSL:	1.24	14.1	0.005	0.08	0.00754	0.81	0.005	0.1	0.08	20.86	0.08	0.0203
				CGWSL Source:	NMED TW	TMED TW	USEPA MCL	USEPA MCL	NMED TW	NMED TW	USEPA MCL	USEPA MCL	USEPA MCL	NMED TW	USEPA MCL	NMED TW
Area	**Well ID**	**Date**	**Dup**													
North Refinery	MW-60	Oct-16		<0.00214	<0.0100	**0.00898**	<0.000380	<0.000866	0.000392 J	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-60	Oct-16	FD	<0.00214	<0.0100	**0.00574**	<0.000380	<0.000866	0.00037 J	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-60	Apr-17		<0.00214	<0.0100	0.00262	<0.000380	<0.000866	0.000535 J	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-60	Apr-17	FD	<0.00214	<0.0100	**0.00526**	<0.000380	<0.000866	0.000502 J	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-60	Oct-17		<0.00214	<0.0100	**0.0110**	<0.000380	<0.000866	0.000326 J	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-60	Oct-17	FD	<0.00214	<0.0100	**0.0122**	<0.000380	<0.000866	0.000369 J	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-61	Apr-15		<0.0210	0.254 J	**1.74** J	<0.00380	**<0.00870**	0.0258	<0.00380	<0.00350	<0.00330 J	<0.00450	<0.00320	<0.00280
	MW-61	Oct-15		<0.0214	<0.100	**0.681**	<0.00380	**<0.00866**	0.00867 J	<0.00379	<0.00348	<0.00327	<0.00453	<0.00324	<0.00276
	MW-61	Apr-16		<0.0107	<0.0500	**0.493**	<0.00190	<0.00433	0.00218 J	<0.00190	<0.00174	<0.00164	<0.00226	<0.00162	<0.00138
	MW-61	Oct-16		<0.0535	<0.250	**0.501**	<0.00950	**<0.0216**	<0.00688	**<0.00948**	<0.00870	<0.00818	<0.0113	<0.00810	<0.00690
	MW-61	Apr-17		<0.0535	0.267 J	**0.769**	<0.00950	**<0.0216** J4	<0.00688	**<0.00948**	<0.00870	<0.00818	<0.0113	<0.00810	<0.00690
	MW-61	Oct-17		0.003 J	<0.0100	**0.976**	<0.000380	<0.000866	0.00179	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-62	Apr-15		<0.0210	0.106 J	**12.8**	<0.00380	**<0.00870**	0.0336	<0.00380	<0.00350	<0.00330 J	<0.00450	<0.00320	<0.00280
	MW-62	Oct-15		<0.0428	<0.200	**1.50**	<0.00760	**<0.0173**	0.0161 J	**<0.00758**	<0.00696	<0.00654	<0.00906	<0.00648	<0.00552
	MW-62	Apr-16		<0.0535	<0.250	**1.12**	<0.00950	**<0.0117**	0.00903 J	**<0.00948**	<0.00870	<0.00818	<0.0113	<0.00810	<0.00690
	MW-62	Oct-16		<0.214 J6	<1.00 J6	**3.28** J6	<0.0380 J6	**<0.0866**	<0.0275 J6	**<0.0379** J6	<0.0348 J6	<0.0327 J6	<0.0453	<0.0324 J6	**<0.0276** J6
	MW-62	Apr-17		<0.107	<0.500	**1.59**	<0.0190	**<0.0433** J4	<0.0138	**<0.0190**	<0.0174	<0.0164	<0.0226	<0.0162	<0.0138
	MW-62	Oct-17		<0.214	<1.00	**0.984**	<0.0380	**<0.0866**	<0.0275	**<0.0379**	<0.0348	<0.0327	<0.0453	<0.0324	**<0.0276**
	MW-67	Apr-15		<0.0110	<0.0100	**0.143**	<0.000380	<0.000870	0.00159	<0.000380	<0.000350	<0.000330	<0.000450	<0.000320	<0.000280
	MW-67	Oct-15		<0.00210	<0.200	**0.172**	<0.00760	**<0.0173**	<0.00550	**<0.00758**	<0.00696	<0.00654	<0.00906	<0.00648	<0.00552
	MW-67	Apr-16		<0.0428	<0.100	**0.223**	<0.00380	**<0.00866**	0.003 J	<0.00379	<0.00348	<0.00327	<0.00453	<0.00324	<0.00276
	MW-67	Oct-16		<0.0214	<0.100 J3	**0.214**	<0.00380	**<0.00866**	0.00328 J	<0.00379	<0.00348	<0.00327	<0.00453	<0.00324	<0.00276
	MW-67	Apr-17		<0.0107	<0.0500	**0.191**	<0.00190	<0.00433	0.00144 J	<0.00190	<0.00174	<0.00164	<0.00226	<0.00162	<0.00138
	MW-67	Oct-17		<0.00214	<0.0100	**0.130**	<0.000380	<0.000866	0.000547 J	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-90	Apr-15		<0.00210	<0.0100	**0.0125**	<0.000380	<0.000870	0.00171	<0.000380	<0.000350	<0.000330	<0.000450	<0.000320	<0.000280
	MW-90	Oct-15		<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275 J	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276 J
	MW-90	Apr-16		<0.00214	<0.0100	**0.00662**	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-90	Oct-16		<0.00214	<0.0100 J3	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-90	Apr-17		<0.00214	<0.0100	0.00225	<0.000380	<0.000866	0.000444 J	<0.000379 J4	<0.000348	<0.000327 J4	<0.000453	<0.000324	<0.000276
	MW-90	Oct-17		<0.00214	<0.0100	0.00311	<0.000380	<0.000866	0.000573 J	<0.000379	<0.000348	<0.000327	<0.000453	0.00116 J	<0.000276
	MW-91	Apr-15		<0.00210	<0.100	**2.91**	<0.00380	**<0.00870**	0.0151	<0.00380	<0.00350	<0.00330	<0.00450	<0.00320	<0.00280
	MW-91	Oct-15		<0.0535	<0.250	**3.47**	<0.00950	**<0.0216**	0.00849 J	**<0.00948**	<0.00870	<0.00818	<0.0113	<0.00810	<0.00690
	MW-91	Apr-16		<0.107	<0.500	**3.85**	<0.0190	**<0.0433**	<0.0138	**<0.0190**	<0.0174	<0.0164	<0.0226	<0.0162	<0.0138
	MW-91	Oct-16		<0.535	<2.50 J3	**3.15**	**<0.0950**	**<0.216**	<0.0688	**<0.0948**	<0.0870	**<0.0818**	<0.113	**<0.0810**	**<0.0690**
	MW-91	Apr-17		<0.214	<1.00	**2.67**	<0.0380	**<0.0866**	0.0284 J	**<0.0379** J4	<0.0348	<0.0327 J4	<0.0453	<0.0324	**<0.0276**
	MW-91	Oct-17		<0.214	<1.00	**3.36**	<0.0380	**<0.0866**	0.0295 J	**<0.0379**	<0.0348	<0.0327	<0.0453	<0.0324	**<0.0276**
	MW-92	Apr-16		<0.00214	<0.0100	**2.87**	<0.000380	<0.000866	0.000589 J	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-92	Oct-16		<0.0428	<0.200 J3	**2.05**	<0.00760	**<0.0173**	<0.00550	**<0.00758**	<0.00696	<0.00654	<0.00906	<0.00648	<0.00552
	MW-93	Apr-15		<0.0210	<0.100	**0.734** J	<0.00380	**<0.00870**	0.0188	<0.00380	<0.00350	<0.00330 J	<0.00450	<0.00320	<0.00280
	MW-93	Oct-15		<0.0214	<0.100	**1.21**	<0.00380	**<0.00866**	0.00341 J	<0.00379	<0.00348	<0.00327	<0.00453	<0.00324	<0.00276
	MW-93	Apr-16		<0.0107	<0.0500	**0.258**	<0.00190	<0.00433	0.00216 J	<0.00190	<0.00174	<0.00164	<0.00226	<0.00162	<0.00138
	MW-93	Oct-16		<0.0214	<0.100 J3	**0.567**	<0.00380	**<0.00866**	<0.00275	<0.00379	<0.00348	<0.00327	<0.00453	<0.00324	<0.00276
	MW-93	Apr-17		<0.0535	<0.250	**0.633**	<0.00950	**<0.0216** J4	<0.00688	**<0.00948**	<0.00870	<0.00818	<0.0113	<0.00810	<0.00690
	MW-94	Oct-15		<0.0214	<0.100	**0.339**	<0.00380	**<0.00866**	0.00445 J	<0.00379	<0.00348	<0.00327	<0.00453	<0.00324	<0.00276
	MW-94	Apr-16		<0.107	<0.500	**0.417**	<0.0190	**<0.0433**	0.0155 J	**<0.0190**	<0.0174	<0.0164	<0.0226	<0.0162	<0.0138
	MW-94	Oct-16		<0.0107	<0.0500 J3	**0.297**	<0.00190	<0.00433	0.00479 J	<0.00190	<0.00174	<0.00164	<0.00226	<0.00162	<0.00138
	MW-94	Apr-17		<0.0535	<0.250	**0.284**	<0.00950	**<0.0216** J4	0.0101 J	**<0.00948**	<0.00870	<0.00818	<0.0113	<0.00810	<0.00690
	MW-95	Apr-14		<0.00100	<0.00200	<0.000600	<0.00060	<0.000500	<0.000900	<0.000600	<0.000400	<0.00050	<0.000500	<0.000600	<0.000500
	MW-95	Apr-15		<0.00210	<0.0100	0.00148	<0.000380	<0.000870	0.00181	<0.000380	<0.000350	<0.000330	<0.000450	<0.000320	<0.000280
	MW-95	Apr-16		<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	0.000427 J	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-95	Apr-17		<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-96	Apr-15		<0.00210	<0.0100	0.00288	<0.000380	<0.000870	0.00168	<0.000380	<0.000350	<0.000330	<0.000450	<0.000320	<0.000280
	MW-96	Oct-15		<1.07	<5.00	**<0.166**	**<0.190**	**<0.433**	<0.138	**<0.190**	**<0.174**	**<0.164**	<0.226	**<0.162**	**<0.138**
	MW-96	Apr-16		<0.0428	<0.200	<0.000331	<0.00760	**<0.0173**	<0.00550	**<0.00758**	<0.00696	<0.00654	<0.00906	<0.0648	<0.00552
	MW-96	Oct-16		<0.107	<0.500 J3	**<0.0166**	<0.0190	**<0.0433**	<0.0138	**<0.0190**	<0.0174	<0.0164	<0.0226	<0.0162	<0.0138
	MW-96	Apr-17		<0.107	<0.500	**<0.0166**	<0.0190	**<0.0433**	<0.0138	**<0.0190** J4	<0.0174	<0.0164 J4	<0.0226	<0.0162	<0.0138
	MW-96	Oct-17		<0.107	<0.500	**<0.0166**	<0.0190	**<0.0433**	0.0154 J	**<0.0190**	<0.0174	<0.0164	<0.0226	<0.0162	<0.0138
	MW-98	Apr-15		<0.0540	<0.250	**4.17**	<0.00950	**<0.0220**	0.102	**<0.00950**	<0.00870	<0.00820 J	<0.0110	<0.00810	<0.00690
	MW-98	Oct-15		<0.0535	<0.250	**4.79**	<0.00950	**<0.0216**	0.0344	**<0.00948**	<0.00870	<0.00818	<0.0113	<0.00810	<0.00690
	MW-98	Apr-16		<0.214	<1.00	**4.07**	<0.0380	**<0.0866**	0.0306 J	**<0.0379**	<0.0348	<0.0327	<0.0453	<0.0324	**<0.0276**
	MW-98	Oct-16		<0.214	<1.00 J3	**3.59**	<0.0380	**<0.0866**	<0.0275	**<0.0379**	<0.0348	<0.0327	<0.0453	<0.0324	**<0.0276**
	MW-98	Apr-17		<0.214	<1.00	**4.39**	<0.0380	**<0.0866**	0.0335 J	**<0.0379**	<0.0348	<0.0327	<0.0453	<0.0324	**<0.0276**
	MW-98	Oct-17		<0.107	<0.500	**4.09**	<0.0190	**<0.0433**	0.0215 J	**<0.0190**	<0.0174	<0.0164	<0.0226	<0.0162	<0.0138
	MW-137	Oct-15		<0.214	<1.00	**9.44**	<0.0380	**<0.0866**	<0.0275	**<0.0379**	<0.0348	<0.0327	<0.0453	<0.0324	**<0.0276**
	MW-137	Apr-16		<0.535	<2.50	**9.65**	**<0.0950**	**<0.216**	0.0722 J	**<0.0948**	<0.0870	**<0.0818**	<0.113	**<0.0810**	**<0.0690**
	MW-137	Oct-16		<0.535	<2.50 J3	**10.5**	**<0.0950**	**<0.216**	<0.0688	**<0.0948**	<0.0870	**<0.0818**	<0.113	**<0.0810**	**<0.0690**
	MW-137	Apr-17		<0.428	<2.00 J4	**9.69**	<0.0760	**<0.173**	<0.0550	**<0.0758**	<0.0696	<0.0654	<0.0906	<0.0648	**<0.0552**
	MW-137	Oct-17		<0.428	<2.00	**12.5**	<0.0760	**<0.173**	0.0615 J	**<0.0758**	<0.0696	<0.0654	<0.0906	<0.0648	**<0.0552**
	MW-138	Oct-15		<0.0428	<0.200	**1.54**	<0.00760	**<0.0173**	<0.00550	**<0.00758**	<0.00696	<0.00654	<0.00906	<0.00648	<0.00552
	MW-138	Apr-16		<0.0214	<0.100	**1.46**	<0.00380	**<0.00866**	0.00332 J	<0.00379	<0.00348	<0.00327	<0.00453	<0.00324	<0.00276
	MW-138	Oct-16		<0.0214	<0.100 J3	**0.494**	<0.00380	**<0.00866**	<0.00275	<0.00379	<0.00348	<0.00327	<0.00453	<0.00324	<0.00276
	MW-138	Apr-17		<0.0214	<0.100 J4	**0.484**	<0.00380	**<0.00866**	<0.00275	<0.00379	<0.00348	<0.00327	<0.00453	<0.00324	<0.00276
	MW-138	Oct-17		<0.0107	<0.0500	**0.701**	<0.00190	<0.00433	<0.00138	<0.00190	<0.00174	<0.00164	<0.00226	<0.00162	<0.00138
	RW-1	Apr-15		<0.110	<0.500	**0.962**	<0.0190	**<0.0430**	<0.0140	**<0.0190**	<0.0170	<0.0160	<0.0230	<0.0160	<0.0140
	RW-1R	Apr-16		<0.00214	<0.0100	**0.426**	<0.000380	<0.000866	0.000422 J	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	RW-1R	Apr-17		<0.0214	<0.100	**0.696**	<0.00380	**<0.00866**	0.00277 J	<0.00379	<0.00348	<0.00327	<0.00453	<0.00324	<0.00276
	RW-2	Apr-15		<0.0210	0.334 J	**5.34**	<0.00380	**<0.00870**	0.00899 J	<0.00380	<0.00350	<0.00330 J	<0.00450	<0.00320	<0.00280
	RW-2R	Apr-16		<0.107	<0.500	**5.86**	<0.0190	**<0.0433**	0.0186 J	**<0.0190**	<0.0174	<0.0164	<0.0226	<0.0162	<0.0138
	RW-2R	Apr-17		<0.107	<0.500	**7.78**	<0.0190	**<0.0433** J4	<0.0138	**<0.0190**	<0.0174	<0.0164	<0.0226	<0.0162	<0.0138
	RW-7	Apr-15		<0.00210	<0.0100	**0.0535**	<0.000380	<0.000870	0.00171	<0.000380	<0.000350	<0.000330	<0.000450	<0.000320	<0.000280
	RW-7R	Apr-16		<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	0.000326 J	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	RW-7R	Apr-17		<0.00214	0.01 J	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	RW-8	Apr-15		<0.0210	<0.100	**0.0412**	<0.00380	**<0.00870**	<0.00280	<0.00380	<0.00350	<0.00330	<0.00450	<0.00320	<0.00280
	RW-8	Apr-17		<0.00214	<0.0100	**0.0718**	<0.000380	<0.000866	0.00138	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	RW-9	Apr-14		<0.00100	<0.00200	**0.680**	<0.00060	<0.000500	0.0015 J	<0.000600	<0.000400	<0.00050	<0.000500	<0.000600	<0.000500
	RW-9	Apr-15		<0.110	<0.500	**0.790**	<0.0190	**<0.0430**	<0.0140	**<0.0190**	<0.0170	<0.0160	<0.0230	<0.0160	<0.0140
	RW-9	Apr-16		<0.0107	<0.0500	**0.466**	<0.00190	<0.00433	0.00169 J	<0.00190	<0.00174	<0.00164	<0.00226	<0.00162	<0.00138
	RW-9	Apr-17		<0.00214	<0.0100	**0.290**	<0.000380	<0.000866	0.00177	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000246
	RW-10	Apr-14		<0.00100	<0.00200	<0.000600	<0.00060	<0.000500	<0.000900	<0.000600	<0.000400	<0.00050	<0.000500	<0.000600	<0.000500
	RW-10	Apr-15		<0.00210	0.01 J	<0.000330	<0.000380	<0.000870	<0.000280	<0.000380	<0.000350	<0.000330	<0.000450	<0.000320	<0.000280
	RW-10	Apr-16		<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	RW-10	Apr-17		<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	0.000571 J	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	RW-16	Apr-14		<0.00100	<0.00200	<0.000600	<0.00060	<0.000500	<0.000900	<0.000600	<0.000400	<0.00050	<0.000500	<0.000600	<0.000500
	RW-16	Apr-14	FD	<0.00210	<0.00200	<0.000600	<0.00060	<0.000500	<0.000900	<0.000600	<0.000400	<0.00050	<0.000500	<0.000600	<0.000500
	RW-16	Apr-15		<0.00214	<0.0100	<0.000330	<0.000380	<0.000870	<0.000280	<0.000380	<0.000350	<0.000330	<0.000450	<0.000320	<0.000280
	RW-16	Apr-16		<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	RW-16	Apr-17		<0.00214	<0.0100	<0.000331	<0.000380	<0.000866 J4	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	RW-17	Apr-14		<0.00100	<0.00200	<0.000600	<0.00060	<0.000500	<0.000900	<0.000600	<0.000400	<0.00050	<0.000500	<0.000600	<0.000500
	RW-17	Apr-15		<0.00210	<0.0100	<0.000330	<0.000380	<0.000870	<0.000280	<0.000380	<0.000350	<0.000330	<0.000450	<0.000320	<0.000280
	RW-17	Apr-16		<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	RW-17	Apr-17		<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276

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

2017 Annual Groundwater Monitoring Report

HollyFrontier Navajo Refining LLC, Artesia Refinery, Artesia, New Mexico

				Analyte Group:	Volatile Organic Compounds												
				Analyte:	4-Methyl-2-Pentanone	Acetone	Benzene	Bromo-dichloro-methane	Bromo-methane	Carbon Disulfide	Carbon Tetrachloride	Chloro-benzene	Chloro-dibromo-methane	Chloroethane	Chloroform	Chloro-methane
				Units:	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
				CGWSL:	1.24	14.1	0.005	0.08	0.00754	0.81	0.005	0.1	0.08	20.86	0.08	0.0203
				CGWSL Source:	NMED TW	TMED TW	USEPA MCL	USEPA MCL	NMED TW	NMED TW	USEPA MCL	USEPA MCL	USEPA MCL	NMED TW	USEPA MCL	NMED TW
Area	**Well ID**	**Date**	**Dup**													
North RO Reject Field	MW-117	Apr-15		<0.00210	<0.0100	<0.000330	<0.000380	<0.000870	<0.000280	<0.000380	<0.000350	<0.000330	<0.000450	<0.000320	<0.000280
	MW-117	Oct-15		<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-117	Apr-16		<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-117	Oct-16		<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-117	Apr-17		<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-117	Oct-17		<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-118	Apr-15		<0.00210	<0.0100	<0.000330	<0.000380	<0.000870	<0.000280	<0.000380	<0.000350	<0.000330	<0.000450	<0.000320	<0.000280
	MW-118	Oct-15		<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-118	Apr-16		<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-118	Oct-16		<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-118	Apr-17		<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-118	Oct-17		<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-119	Apr-15		<0.00210	<0.0100	<0.000330	<0.000380	<0.000870	<0.000280	<0.000380	<0.000350	<0.000330	<0.000450	<0.000320	<0.000280
	MW-119	Oct-15		<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-119	Apr-16		<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-119	Oct-16		<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-119	Apr-17		<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-119	Oct-17		<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
NCL	MW-18	Apr-14		<0.00100	0.0045 J	<0.000600	<0.00060	<0.000500	<0.000900	<0.000600	<0.000400	<0.00050	<0.000500	<0.000600	<0.000500
	MW-18	Apr-15		<0.00210	<0.0100	<0.000330	<0.000380	<0.000870	0.000695 J	<0.000380	<0.000350	<0.000330	<0.000450	<0.000320	<0.000280
	MW-18	Apr-16		<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-18	Apr-17		<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-45	Apr-15		<0.00210	<0.0100	<0.000330	<0.000380	<0.000870	<0.000280	<0.000380	<0.000350	<0.000330	<0.000450	<0.000320	<0.000280
	MW-45	Oct-15		<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-45	Apr-16		<0.00214	<0.0100	<0.000331	<0.00380	**<0.00866**	<0.000275	<0.000379	<0.000348	<0.00327	<0.000453	<0.000324	<0.000276
	MW-45	Oct-16		<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-45	Apr-17		<0.00214	<0.0100 J4	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-45	Oct-17		<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-53	Apr-14		<0.00100	<0.00200	<0.000600	<0.00060	<0.000500	<0.000900	<0.000600	<0.000400	<0.00050	<0.000500	<0.000600	<0.000500
	MW-53	Apr-15		<0.00210	<0.0100	<0.000330	<0.000380	<0.000870	<0.000280	<0.000380	<0.000350	<0.000330	<0.000450	<0.000320	<0.000280
	MW-53	Apr-16		<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-53	Apr-17		<0.00214	<0.0100 J4	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-54A	Apr-15		<0.00210	<0.0100	<0.000330	<0.000380	<0.000870	<0.000280	<0.000380	<0.000350	<0.000330	<0.000450	<0.000320	<0.000280
	MW-54A	Oct-15		<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-54A	Apr-16		<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-54A	Oct-16		<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-54A	Apr-17		<0.00214	<0.0100 J4	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-54A	Oct-17		<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-54B	Apr-13		<0.0100	<0.0100	<0.00500	<0.00500	<0.00500	<0.0100	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
	MW-54B	Apr-15		<0.00210	0.0128 J	<0.000330	<0.000380	<0.000870	<0.000280	<0.000380	<0.000350	<0.000330	<0.000450	<0.000320	<0.000280
	MW-54B	Apr-17		<0.00214	<0.0100 J4	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-55	Apr-15		<0.00210	<0.0100	<0.000330	<0.000380	<0.000870	<0.000280	<0.000380	<0.000350	<0.000330	<0.000450	<0.000320	<0.000280
	MW-55	Oct-15		<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-55	Apr-16		<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-55	Oct-16		<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-55	Apr-17		<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-55	Oct-17		<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-56	Apr-15		<0.00210	<0.0100	<0.000330	<0.000380	<0.000870	<0.000280	<0.000380	<0.000350	<0.000330	<0.000450	<0.000320	<0.000280
	MW-56	Oct-15		<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-56	Apr-16		<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-56	Oct-16		<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-56	Apr-17		<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-108	Apr-15		<0.0210	<0.100	**0.423**	<0.00380	**<0.00870**	0.0317	<0.00380	<0.00350	<0.00330	<0.00450	<0.00320	<0.00280
	MW-108	Oct-15		<0.0214	<0.100	**0.394**	<0.00380	**<0.00866**	0.00291 J	<0.00379	<0.00348	<0.00327	<0.00453	<0.00324	<0.00276
	MW-108	Apr-16		<0.107	<0.500	**0.504**	<0.0190	**<0.0433**	<0.0138	**<0.0190**	<0.0174	<0.0164	<0.0226	<0.0162	<0.0138
	MW-108	Oct-16		<0.0535	<0.250	**0.362**	<0.00950	**<0.0216**	0.0137 J	**<0.00948**	<0.00870	<0.00818	<0.0113	<0.00810	<0.00690
	MW-108	Apr-17		<0.0535	<0.250	**0.382**	<0.00950	**<0.0216**	<0.00688	**<0.00948**	<0.00870	<0.00818	<0.0113	<0.00810	<0.00690
	MW-108	Oct-17		<0.0107	<0.0500	**0.282**	<0.00190	<0.00433	0.00147 J	<0.00190	<0.00174	<0.00164	<0.00226	<0.00162	<0.00138
	NCL-31	Apr-15		<0.00210	<0.0100	<0.000330	<0.000380	<0.000870	<0.000280	<0.000380	<0.000350	<0.000330	<0.000450	<0.000320	<0.000280
	NCL-31	Oct-15		<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	NCL-31	Apr-16		<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	NCL-31	Oct-16		<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	NCL-31	Apr-17		<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	NCL-31	Oct-17		<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	NCL-32	Apr-15		<0.00210	<0.0100	<0.000330	<0.000380	<0.000870	<0.000280	<0.000380	<0.000350	<0.000330	<0.000450	<0.000320	<0.000280
	NCL-32	Oct-15		<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	NCL-32	Apr-16		<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	NCL-32	Oct-16		<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	NCL-32	Apr-17		<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	NCL-32	Oct-17		<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	NCL-33	Apr-15		<0.00210	<0.0100	0.00105	<0.000380	<0.000870	<0.000280	<0.000380	<0.000350	<0.000330	<0.000450	<0.000320	<0.000280
	NCL-33	Oct-15		<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275 J	<0.000379 J	<0.000348 J	<0.000327 J	<0.000453	<0.000324	<0.000276 J
	NCL-33	Apr-16		<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	NCL-33	Oct-16		<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	NCL-33	Apr-17		<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	NCL-33	Oct-17		<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	NCL-34A	Apr-15		<0.00210	<0.0100	**1.21**	<0.000380	<0.000870	0.00152	<0.000380	<0.000350	<0.000330	<0.000450	<0.000320	<0.000280
	NCL-34A	Oct-15		<0.00214	<0.0100	**0.695** J	<0.000380	<0.000866	0.00167	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	NCL-34A	Apr-16		<0.107	<0.500	**3.25**	<0.0190	**<0.0433**	<0.0138	**<0.0190**	<0.0174	<0.0164	<0.0226	<0.0162	<0.0138
	NCL-34A	Oct-16		<0.214	<1.00	**1.13**	<0.0380	**<0.0866** J3	<0.0275	**<0.0379**	<0.0348	<0.0327	<0.0453	<0.0324	**<0.0276**
	NCL-34A	Apr-17		<0.107	<0.500	**1.78**	<0.0190	**<0.0433**	<0.0138	**<0.0190**	<0.0174	<0.0164	<0.0226	<0.0162	<0.0138
	NCL-34A	Oct-17		<0.00214	<0.0100	**0.805**	<0.000380	<0.000866	0.000296 J	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	NCL-44	Apr-15		<0.00210	<0.0100	<0.000330	<0.000380	<0.000870	<0.000280	<0.000380	<0.000350	<0.000330	<0.000450	<0.000320	<0.000280
	NCL-44	Oct-15		<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	NCL-44	Apr-16		<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	NCL-44	Oct-16		<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	0.00032 J	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	NCL-44	Apr-17		<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	0.0003 J	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	NCL-44	Oct-17		<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	NCL-49	Apr-15		<0.00210	<0.0100	<0.000330	<0.000380	<0.000870	<0.000280	<0.000380	<0.000350	<0.000330	<0.000450	<0.000320	<0.000280
	NCL-49	Apr-15	FD	<0.00210	<0.0100	<0.000330	<0.000380	<0.000870	<0.000280	<0.000380	<0.000350	<0.000330	<0.000450	<0.000320	<0.000280
	NCL-49	Oct-15		<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	NCL-49	Oct-15	FD	<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	NCL-49	Apr-16		<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	NCL-49	Apr-16	FD	<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	NCL-49	Oct-16		<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	NCL-49	Oct-16	FD	<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	NCL-49	Apr-17		<0.00214	<0.0100 J4	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	NCL-49	Apr-17	FD	<0.00214	<0.0100 J4	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	NCL-49	Oct-17		<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	NCL-49	Oct-17	FD	<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276

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

2017 Annual Groundwater Monitoring Report

HollyFrontier Navajo Refining LLC, Artesia Refinery, Artesia, New Mexico

				Analyte Group:	Volatile Organic Compounds												
				Analyte:	4-Methyl-2-Pentanone	Acetone	Benzene	Bromo-dichloro-methane	Bromo-methane	Carbon Disulfide	Carbon Tetrachloride	Chloro-benzene	Chloro-dibromo-methane	Chloroethane	Chloroform	Chloro-methane
				Units:	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
				CGWSL:	1.24	14.1	0.005	0.08	0.00754	0.81	0.005	0.1	0.08	20.86	0.08	0.0203
				CGWSL Source:	NMED TW	TMED TW	USEPA MCL	USEPA MCL	NMED TW	NMED TW	USEPA MCL	USEPA MCL	USEPA MCL	NMED TW	USEPA MCL	NMED TW
Area	**Well ID**	**Date**	**Dup**														
South Refinery	KWB-2R	Apr-15			<0.0210	<0.100	**1.98**	<0.00380	**<0.00870**	<0.00280	<0.00380	<0.00350	<0.00330	<0.00450	<0.00320	<0.00280
	KWB-2R	Oct-15			<0.214	<1.00	**4.00**	<0.0380	**<0.0866**	<0.0275	**<0.0379**	<0.0348	<0.0327	<0.0453	<0.0324	**<0.0276**
	KWB-2R	Apr-16			<0.00214	<0.0100	**0.0558**	<0.000380	<0.000866	0.000363 J	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	KWB-2R	Oct-16			<0.00214	<0.0100	**0.398**	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	KWB-2R	Apr-17			<0.00214	<0.0100	**0.0260**	<0.000380	<0.000866	0.000332 J	<0.000379	<0.000348	<0.000327	<0.000453	0.0036 J	<0.000276
	KWB-2R	Oct-17			<0.00214	<0.0100	**1.12**	<0.000380	<0.000866	0.000367 J	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	KWB-5	Apr-15			<0.00210	<0.0100	<0.000330	<0.000380	<0.000870	<0.000280	<0.000380	<0.000350	<0.000330	<0.000450	<0.000320	<0.000280
	KWB-5	Oct-15			<0.00214	<0.0100	**1.20** J	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	KWB-5	Apr-16			<0.00214	<0.0100	**0.688**	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	KWB-5	Oct-16			<0.0107	<0.0500	**0.367**	<0.00190	<0.00433	<0.00138	<0.00190	<0.00174	<0.00164	<0.00226	<0.00162	<0.00138
	KWB-5	Apr-17			<0.00214	<0.0100	**0.525**	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	KWB-5	Oct-17			<0.00214	<0.0100	**0.336**	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	KWB-6	Apr-15			<0.0540	<0.250	**15.9**	<0.00950	**<0.0220**	<0.00690	**<0.00950**	<0.00870	<0.00820	<0.0110	<0.00810	<0.00690
	KWB-6	Oct-15			<1.07	<5.00	**8.61**	**<0.190**	**<0.433**	<0.138	**<0.190**	**<0.174**	**<0.164**	<0.226	**<0.162**	**<0.138**
	KWB-6	Apr-16			<0.0107	<0.0500	**12.4**	<0.00190	<0.00433	0.00197 J	<0.00190	<0.00174	<0.00164	<0.00226	<0.00162	<0.00138
	KWB-6	Oct-16			<0.0428	<0.200	**3.41**	<0.00760	**<0.0173**	<0.00550	**<0.00758**	<0.00696	<0.00654	<0.00906	<0.00648	<0.00552
	KWB-6	Apr-17			<0.0107	<0.0500	**4.67**	<0.00190	<0.00433	<0.00138	<0.00190	<0.00174	<0.00164	<0.00226	<0.00162	<0.00138
	KWB-6	Oct-17			<0.00214	<0.0100	**3.22**	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-28	Apr-15			<0.210	<1.00	**3.02**	<0.0380	**<0.0870**	0.0471 J	**<0.0380**	<0.0350	<0.0330	<0.0450	<0.0320	**<0.0280**
	MW-28	Oct-15			<0.214	<1.00	**3.05**	<0.0380	**<0.0866**	<0.0275	**<0.0379**	<0.0348	<0.0327	<0.0453	<0.0324	**<0.0276**
	MW-28	Apr-16			<0.0214	<0.100	**1.37**	<0.00380	**<0.00866**	0.00301 J	<0.00379	<0.00348	<0.00327	<0.00453	<0.00324	<0.00276
	MW-28	Oct-16			<0.107	<0.500	**2.55**	<0.0190	**<0.0433**	0.0152 J	**<0.0190**	<0.0174	<0.0164	<0.0226	<0.0162	<0.0138
	MW-28	Apr-17			<0.107	<0.500	**2.58**	<0.0190	**<0.0433** J4	<0.0138	**<0.0190**	<0.0174	<0.0164	<0.0226	<0.0162	<0.0138
	MW-28	Oct-17			<0.107	<0.500	**1.58**	<0.0190	**<0.0433**	<0.0138	**<0.0190**	<0.0174	<0.0164	<0.0226	<0.0162	<0.0138
	MW-48	Apr-15			<0.0210	<0.100	**0.890**	<0.00380	**<0.00870**	0.00704 J	<0.00380	<0.00350	<0.00330	<0.00450	<0.00320	<0.00280
	MW-48	Oct-15			<0.0107	<0.0500	**0.204** J	<0.00190	<0.00433	<0.00138	<0.00190	<0.00174	<0.00164	<0.00226	<0.00162	<0.00138
	MW-48	Apr-16			<0.0428	<0.200	**7.17**	<0.00760	**<0.0173**	<0.00550	**<0.00758**	<0.00696	<0.00654	<0.00906	<0.0648	<0.00552
	MW-48	Oct-16			<0.0107	<0.0500	**5.12**	<0.00190	<0.00433	<0.00138	<0.00190	<0.00174	<0.00164	<0.00226	<0.00162	<0.00138
	MW-48	Apr-17			<0.107	<0.500	**11.7**	<0.0190	**<0.0433**	<0.0138	**<0.0190**	<0.0174	<0.0164	<0.0226	<0.0162	<0.0138
	MW-48	Oct-17			<0.00214	<0.0100	**11.0**	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-50	Apr-15			<0.00210	<0.0100	<0.000330	<0.000380	<0.000870	0.0011	<0.000380	<0.000350	<0.000330	<0.000450	<0.000320	<0.000280
	MW-50	Oct-15			<0.00214	<0.0100	<0.000331 J	<0.000380 J	0.000881 J	0.000553 J	<0.000379 J	<0.000348 J	<0.000327 J	<0.000453	<0.000324 J	<0.000276
	MW-50	Apr-16			<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-50	Oct-16			<0.00214	<0.0100 J3	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-50	Apr-17			<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-50	Oct-17			<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	0.000308 J	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-52	Apr-15			<0.00210	<0.0100	<0.000330	<0.000380	<0.000870	<0.000280	<0.000380	<0.000350	<0.000330	<0.000450	<0.000320	<0.000280
	MW-52	Oct-15			<0.00214	<0.0100	<0.000331	<0.000380	<0.000866 J	<0.000275 J	<0.000379 J	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276 J
	MW-52	Apr-16			<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-52	Oct-16			<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-52	Apr-17			<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-52	Oct-17			<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-64	Apr-16			<0.107	<0.500	**25.3**	<0.0190	**<0.0433**	<0.0138	**<0.0190**	<0.0174	<0.0164	<0.0226	<0.0162	<0.0138
	MW-64	Oct-16			<0.214	<1.00	**30.9**	<0.0380	**<0.0866**	<0.0275	**<0.0379**	<0.0348	<0.0327	<0.0453	<0.0324	**<0.0276**
	MW-64	Apr-17			<0.535	<2.50	**3.22**	**<0.0950**	**<0.216**	<0.0688	**<0.0948**	<0.0870	**<0.0818**	<0.113	**<0.0810**	**<0.0690**
	MW-64	Oct-17			<0.535	<2.50	**30.7**	**<0.0950**	**<0.216**	<0.0688	**<0.0948**	<0.0870	**<0.0818**	<0.113	**<0.0810**	**<0.0690**
	MW-65	Apr-15			<0.00210	<0.100	**9.99**	<0.00380	**<0.00870**	<0.00280	<0.00380	<0.00350	<0.00330	<0.00450	<0.00320	<0.00280
	MW-65	Apr-16			<0.0214	<0.100	**9.73**	<0.00380	**<0.00866**	<0.00275	<0.00379	<0.00348	<0.00327	<0.00453	<0.00324	<0.00276
	MW-65	Oct-16			<0.0428	<0.200	**8.04**	<0.00760	**<0.0173**	<0.00550	**<0.00758**	<0.00696	<0.00654	<0.00906	<0.00648	<0.00552
	MW-65	Apr-17			<0.214	<1.00	**6.70**	<0.0380	**<0.0866**	<0.0275	**<0.0379**	<0.0348	<0.0327	<0.0453	<0.0324	**<0.0276**
	MW-65	Oct-17			<0.214	<1.00	**6.25**	<0.0380	**<0.0866**	<0.0275	**<0.0379**	<0.0348	<0.0327	<0.0453	<0.0324	**<0.0276**
	MW-66	Apr-15			<0.110	<0.500	**3.16**	<0.0190	**<0.0430**	<0.0140	**<0.0190**	<0.0170	<0.0160	<0.0230	<0.0160 J	<0.0140
	MW-66	Oct-15			<0.00214	<0.0100	**4.10** J	<0.000380	<0.000866	0.000371 J	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-66	Apr-16			<0.0214	<0.100	**3.09**	<0.00380	**<0.00866**	<0.00275	<0.00379	<0.00348	<0.00327	<0.00453	<0.00324	<0.00276
	MW-66	Oct-16			<0.00214	<0.0100	**3.80**	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-66	Apr-17			<0.107	<0.500	**1.89**	<0.0190	**<0.0433** J4	<0.0138	**<0.0190**	<0.0174	<0.0164	<0.0226	<0.0162	<0.0138
	MW-66	Oct-17			<0.0214	<0.100	**0.276**	<0.00380	**<0.00866**	<0.00275	<0.00379	<0.00348	<0.00327	<0.00453	<0.00324	<0.00276
	MW-99	Apr-15			<0.0540	<0.250	**0.973**	<0.00950	**<0.0220**	0.0072 J	**<0.00950**	<0.00870	<0.00820	<0.0110	<0.00810 J	<0.00690
	MW-99	Oct-15			<0.0535	<0.250	**7.28**	<0.00950	**<0.0216**	<0.00688	**<0.00948**	<0.00870	<0.00818	<0.0113	<0.00810	<0.00690
	MW-99	Apr-16			<0.0214	<0.100	**5.59**	<0.00380	**<0.00866**	<0.00275	<0.00379	<0.00348	<0.00327	<0.00453	<0.00324	<0.00276
	MW-99	Oct-16			<0.0428	<0.200	**5.08**	<0.00760	**<0.0173**	<0.00550	**<0.00758**	<0.00696	<0.00654	<0.00906	<0.00648	<0.00552
	MW-99	Apr-17			<0.107	<0.500	**2.79**	<0.0190	**<0.0433**	<0.0138	**<0.0190**	<0.0174	<0.0164	<0.0226	<0.0162	<0.0138
	MW-99	Oct-17			<0.214	<1.00	**2.58**	<0.0380	**<0.0866**	<0.0275	**<0.0379**	<0.0348	<0.0327	<0.0453	<0.0324	**<0.0276**
	MW-101	Apr-15			<0.0110	<0.0500	**0.0187**	<0.00190	<0.00430	<0.00140	<0.00190	<0.00170	<0.00160 J	<0.00230	<0.00160	<0.00140
	MW-101	Oct-15			<0.0107	<0.0500	<0.00166	<0.00190	<0.00433	<0.00138	<0.00190	<0.00174	<0.00164	<0.00226	<0.00162	<0.00138
	MW-101	Apr-16			<0.00214	<0.0100	**0.0664** J6	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-101	Oct-16			<0.00214	<0.0100	0.000845 J	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-101	Apr-17			<0.00214	<0.0100	**0.00650**	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-101	Oct-17			<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-102	Apr-15			<0.0210	<0.100	**9.83**	<0.00380	**<0.00870**	0.00959 J	<0.00380	<0.00350	<0.00330	<0.00450	<0.00320	<0.00280
	MW-102	Oct-15			<0.214	<1.00	**12.3**	<0.0380	**<0.0866**	<0.0275	**<0.0379**	<0.0348	<0.0327	<0.0453	<0.0324	**<0.0276**
	MW-102	Apr-16			<0.214	<1.00	**10.8**	<0.0380	**<0.0866**	<0.0275	**<0.0379**	<0.0348	<0.0327	<0.0453	<0.0324	**<0.0276**
	MW-102	Oct-16			<0.214	<1.00	**13.2**	<0.0380	**<0.0866**	<0.0275	**<0.0379**	<0.0348	<0.0327	<0.0453	<0.0324	**<0.0276**
	MW-102	Apr-17			<0.0428	<0.200	**8.38**	<0.00760	**<0.0173**	<0.00530	**<0.00758**	<0.00696	<0.00654	<0.00906	<0.00648	<0.00552
	MW-102	Oct-17			<0.107	<0.500	**9.24**	<0.0190	**<0.0433**	<0.0138	**<0.0190**	<0.0174	<0.0164	<0.0226	<0.0162	<0.0138
	MW-103	Apr-14			<0.00100	<0.00200	**0.760**	<0.00060	<0.000500	<0.000900	<0.000600	<0.000400	<0.00050	<0.000500	<0.000600	<0.000500
	MW-103	Apr-15			<0.00210	<0.0100	<0.000330	<0.000380	<0.000870	0.000597 J	<0.000380	<0.000350	<0.000330	<0.000450	<0.000320	<0.000280
	MW-103	Apr-16			<0.0107	<0.0500	**1.35**	<0.00190	<0.00433	0.00139 J	<0.00190	<0.00174	<0.00164	<0.00226	<0.00162	<0.00138
	MW-103	Apr-17			<0.107	<0.500	**1.30**	<0.0190	**<0.0433**	<0.0138	**<0.0190**	<0.0174	<0.0164	<0.0226	<0.0162	<0.0138
	MW-104	Apr-15			<0.00210	<0.0100	**0.0243**	<0.000380	<0.000870	0.000469 J	<0.000380	<0.000350	<0.000330	<0.000450	0.00516 J	<0.000280
	MW-104	Apr-15	FD		<0.00210	<0.0100	**0.0242**	<0.000380	<0.000870	0.000723 J	<0.000380	<0.000350	<0.000330	<0.000450	0.00513 J	<0.000280
	MW-104	Oct-15			<0.0107	<0.0500	**0.257**	<0.00190	<0.00433	0.00268 J	<0.00190	<0.00174	<0.00164	<0.00226	<0.00162	<0.00138
	MW-104	Oct-15	FD		<0.00214	<0.0100	**0.309**	<0.000380	<0.000866	0.000979 J	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-104	Apr-16			<0.00214	<0.0100 J3	**0.0707**	<0.000380	<0.000866	0.0011	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-104	Apr-16	FD		<0.00214	<0.0100	**0.0685**	<0.000380	<0.000866	0.00109	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-104	Oct-16			<0.0107	<0.0500	**0.341**	<0.00190	<0.00433	0.00182 J	<0.00190	<0.00174	<0.00164	<0.00226	<0.00162	<0.00138
	MW-104	Oct-16	FD		<0.0107	<0.0500	**0.284**	<0.00190	<0.00433	0.00181 J	<0.00190	<0.00174	<0.00164	<0.00226	<0.00162	<0.00138
	MW-104	Apr-17			<0.0214	<0.100	**0.741**	<0.00380	**<0.00866**	<0.00275	<0.00379	<0.00348	<0.00327	<0.00453	<0.00324	<0.00276
	MW-104	Apr-17	FD		<0.0107	<0.0500	**0.529**	<0.00190	<0.00433	<0.00138	<0.00190 J4	<0.00174	<0.00164 J4	<0.00226	<0.00162	<0.00138
	MW-104	Oct-17			<0.00214	<0.0100	**0.144**	<0.000380	<0.000866	0.000538 J	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-104	Oct-17	FD		<0.0107	<0.0500	**0.150**	<0.00190	<0.00433	<0.00138	<0.00190	<0.00174	<0.00164	<0.00226	<0.00162	<0.00138
	MW-105	Apr-15			<0.0110	0.126 J	**1.71**	<0.00190	<0.00430	<0.00140	<0.00190	<0.00170	<0.00160 J	<0.00230	<0.00160	<0.00140
	MW-105	Oct-15			<0.0214	<0.100	**0.580**	<0.00380	**<0.00866**	0.00557 J	<0.00379	<0.00348	<0.00327	<0.00453	<0.00324	<0.00276
	MW-105	Apr-16			<0.535	<2.50	**13.5**	**<0.0950**	**<0.216**	<0.0688	**<0.0948**	<0.0870	**<0.0818**	<0.113	**<0.0810**	**<0.0690**
	MW-105	Oct-16			<0.214	<1.00	**18.2**	<0.0380	**<0.0866**	<0.0275	**<0.0379**	<0.0348	<0.0327	<0.0453	<0.0324	**<0.0276**
	MW-105	Apr-17			<0.214	<1.00	**13.3**	<0.0380	**<0.0866** J4	<0.0275	**<0.0379**	<0.0348	<0.0327	<0.0453	<0.0324	**<0.0276**
	MW-105	Oct-17			0.0145	<0.0100	**9.19**	<0.000380	<0.000866	0.00136	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-106	Apr-15			<0.00210	0.027 J	**0.395**	<0.000380	<0.000870	<0.000280	<0.000380	<0.000350	<0.000330	<0.000450	<0.000320	<0.000280
	MW-106	Oct-15			<0.214	<1.00	**10.4**	<0.0380	**<0.0866**	0.0914 J	**<0.0379**	<0.0348	<0.0327	<0.0453	<0.0324	**<0.0276**
	MW-106	Apr-16			<0.0535	<0.250	**12.7**	<0.00950	**<0.0117**	0.0107 J	**<0.00948**	<0.00870	<0.00818	<0.0113	<0.00810	<0.00690
	MW-106	Oct-16			<0.107	<0.500	**11.3**	<0.0190	**<0.0433**	<0.0138	**<0.0190**	<0.0174	<0.0164	<0.0226	<0.0162	<0.0138
	MW-106	Apr-17			<0.107	<0.500	**9.71**	<0.0190	**<0.0433**	0.0186 J	**<0.0190**	<0.0174	<0.0164	<0.0226	<0.0162	<0.0138
	MW-106	Oct-17			<0.107	<0.500	**10.6**	<0.0190	**<0.0433**	0.0144 J	**<0.0190**	<0.0174	<0.0164	<0.0226	<0.0162	<0.0138

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

2017 Annual Groundwater Monitoring Report

HollyFrontier Navajo Refining LLC, Artesia Refinery, Artesia, New Mexico

				Analyte Group:	Volatile Organic Compounds												
				Analyte:	4-Methyl-2-Pentanone	Acetone	Benzene	Bromo-dichloro-methane	Bromo-methane	Carbon Disulfide	Carbon Tetrachloride	Chloro-benzene	Chloro-dibromo-methane	Chloroethane	Chloroform	Chloro-methane
				Units:	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
				CGWSL:	1.24	14.1	0.005	0.08	0.00754	0.81	0.005	0.1	0.08	20.86	0.08	0.0203
				CGWSL Source:	NMED TW	TMED TW	USEPA MCL	USEPA MCL	NMED TW	NMED TW	USEPA MCL	USEPA MCL	USEPA MCL	NMED TW	USEPA MCL	NMED TW
Area	**Well ID**	**Date**	**Dup**														
South Refinery	MW-107	Apr-15		<0.0210	<0.100	**5.32**	<0.00380	**<0.00870**	0.00287 J	<0.00380	<0.00350	<0.00330	<0.00450	<0.00320	<0.00280
	MW-107	Oct-15		<0.214	<1.00	**6.29**	<0.0380	**<0.0866**	<0.0275	**<0.0379**	<0.0348	<0.0327	<0.0453	<0.0324	**<0.0276**
	MW-107	Apr-16		<0.00214	<0.0100	**1.28**	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-107	Oct-16		<0.0107	<0.0500	**6.35**	<0.00190	<0.00433	<0.00138	<0.00190	<0.00174	<0.00164	<0.00226	<0.00162	<0.00138
	MW-107	Apr-17		<0.107	<0.500	**3.37**	<0.0190	**<0.0433** J4	<0.0138	**<0.0190**	<0.0174	<0.0164	<0.0226	<0.0162	<0.0138
	MW-109	Apr-15		<0.0210	<0.100	**0.621**	<0.00380	**<0.00870**	<0.00280	<0.00380	<0.00350	<0.00330	<0.00450	<0.00320	<0.00280
	MW-109	Oct-15		<0.0214	<0.100 J	**0.845** J	<0.00380	**<0.00866**	<0.00275	<0.00379	<0.00348	<0.00327	<0.00453	<0.00324	<0.00276
	MW-109	Apr-16		<0.0107	<0.0500	**0.532**	<0.00190	<0.00433	<0.00138	<0.00190	<0.00174	<0.00164	<0.00226	<0.00162	<0.00138
	MW-109	Oct-16		<0.0428	<0.200	**0.995**	<0.00760	**<0.0173**	<0.00550	**<0.00758**	<0.00696	<0.00654	<0.00906	<0.00648	<0.00552
	MW-109	Apr-17		<0.0214	<0.100	**1.25**	<0.00380	**<0.00866**	<0.00275	<0.00379	<0.00348	<0.00327	<0.00453	<0.00324	<0.00276
	MW-109	Oct-17		<0.00214	<0.0100	**1.30**	<0.000380	<0.000866	0.000638 J	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-110	Apr-15		<0.00210	<0.0100	**0.132**	<0.000380	<0.000870	0.00129	<0.000380	<0.000350	<0.000330	<0.000450	<0.000320	<0.000280
	MW-110	Oct-15		<0.0107	<0.0500 J	**0.348** J	<0.00190	<0.00433	<0.00138	<0.00190	<0.00174	<0.00164	<0.00226	<0.00162	<0.00138
	MW-110	Apr-16		<0.00214	<0.0100	**0.0132**	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-110	Oct-16		<0.00214	<0.0100	0.000511 J	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-110	Apr-17		<0.0107	<0.0500	**0.299**	<0.00190	<0.00433	<0.00138	<0.00190	<0.00174	<0.00164	<0.00226	0.00406 J	<0.00138
	MW-110	Oct-17		<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	RA-313	Apr-14		<0.00100	<0.00200	<0.000600	<0.00060	<0.000500	<0.000900	<0.000600	<0.000400	<0.00050	<0.000500	<0.000600	<0.000500
	RA-313	Apr-15		<0.00210	<0.0100	0.000366 J	<0.000380	<0.000870	<0.000280	<0.000380	<0.000350	<0.000330	<0.000450	<0.000320	<0.000280
	RA-313	Apr-16		<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	RA-313	Apr-17		<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	RW-4	Apr-15		<0.00210	0.0289 J	**0.0167**	<0.000380	<0.000870	0.000854 J	<0.000380	<0.000350	<0.000330	<0.000450	<0.000320 J	<0.000280
	RW-4R	Apr-16		<0.00214	<0.0100	**0.0140**	<0.000380	<0.000866	0.000466 J	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	RW-4R	Apr-17		<0.0107	0.0509 J	**0.0294**	<0.00190	<0.00433 J4	0.00239 J	<0.00190	<0.00174	<0.00164	<0.00226	<0.00162	<0.00138
	RW-5R	Apr-15		<0.00210	<0.100	**2.92**	<0.00380	**<0.00870**	<0.00280	<0.00380	<0.00350	<0.00330	<0.00450	<0.00320	<0.00280
	RW-5R	Apr-16		<0.0428	<0.200	**3.48**	<0.00760	**<0.0173**	<0.00550	**<0.00758**	<0.00696	<0.00654	<0.00906	<0.0648	<0.00552
	RW-6	Apr-15		<0.00210	<0.100	**0.636**	<0.00380	**<0.00870**	0.00771 J	<0.00380	<0.00350	<0.00330	<0.00450	<0.00320	<0.00280
	RW-6R	Apr-16		<0.00214	<0.0100	**0.218**	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	RW-15C	Apr-17		0.0535	<0.250	**19.1**	<0.00950	**<0.0216**	<0.00688	**<0.00948**	<0.00870	<0.00818	<0.0113	<0.00810	<0.00690
South RO Reject Field	MW-114	Apr-15		<0.00210	<0.0100	<0.000330	<0.000380	<0.000870	<0.000280	<0.000380	<0.000350	<0.000330	<0.000450	<0.000320	<0.000280
	MW-114	Oct-15		<0.00214	<0.0100 J	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-114	Apr-16		<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-114	Oct-16		<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-114	Apr-17		<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-114	Oct-17		<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-115	Apr-15		<0.00210	<0.0100	<0.000330	<0.000380	<0.000870	<0.000280	<0.000380	<0.000350	<0.000330	<0.000450	<0.000320	<0.000280
	MW-115	Oct-15		<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275 J	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-115	Apr-16		<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-115	Oct-16		<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-115	Apr-17		<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-115	Oct-17		<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-116	Apr-15		<0.00210	<0.0100	<0.000330	<0.000380	<0.000870	<0.000280	<0.000380	<0.000350	<0.000330	<0.000450	<0.000320	<0.000280
	MW-116	Oct-15		<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-116	Apr-16		<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-116	Oct-16		<0.00214	<0.0100	0.000536 J	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-116	Apr-17		<0.00214	<0.0100	0.000430 J	<0.000380	<0.000866 J4	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-116	Oct-17		<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
TEL	MW-49	Apr-15		<0.00210	<0.0100	**0.0770**	<0.000380	<0.000870	0.00106 J	<0.000380	<0.000350	<0.000330	<0.000450	<0.000320	<0.000280
	MW-49	Oct-15		<0.00214	<0.0100	**0.179**	<0.000380	<0.000866	<0.000275 B	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-49	Apr-16		<0.0428	<0.200	**0.196**	<0.00760	**<0.0173**	<0.00550	**<0.00758**	<0.00696	<0.00654	<0.00906	<0.0648	<0.00552
	MW-49	Oct-16		<0.214	<1.00 J3	**0.241**	<0.0380	**<0.0866** J3	<0.0275	**<0.0379**	<0.0348	<0.0327	<0.0453 J3	**0.113** JB	<0.00276
	MW-49	Apr-17		<0.0214	0.137 J	**0.227**	<0.00380	**<0.00866**	<0.00275	<0.00379	<0.00348	<0.00327	<0.00453	0.0119 J	<0.00276
	MW-49	Oct-17		<0.0428	<0.200	**0.573**	<0.00760	**<0.0173**	0.00552 J	**<0.00758**	<0.00696	<0.00654	<0.00906	<0.00648	<0.00552
	TEL-1	Apr-15		<0.00210	0.0104 J	<0.000330	<0.000380	<0.000870	<0.000280	<0.000380	<0.000350	<0.000330	<0.000450	<0.000320	<0.000280
	TEL-1	Oct-15		<0.00214	<0.0100	0.000378 J	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	TEL-1	Apr-16		<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	TEL-1	Oct-16		<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	0.00046 J	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	TEL-1	Apr-17		<0.00214	0.0125 J3	0.000647 J	<0.000380	<0.000866	0.00042 J	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	TEL-1	Oct-17		<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	TEL-2	Apr-15		<0.0430	<0.200	**0.905**	<0.00760	**<0.0170**	0.00723 J	**<0.00760**	<0.00700	<0.00650	<0.00910	<0.00650	<0.00550
	TEL-2	Oct-15		<0.0107	<0.0500	**0.535**	<0.00190	<0.00433	0.00194 J	<0.00190	<0.00174	<0.00164	<0.00226	<0.00162	<0.00138
	TEL-2	Apr-16		<0.00214	<0.0100	**0.709**	<0.000380	<0.000866	0.00124	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	TEL-2	Oct-16		<0.0214	<0.100	**0.962**	<0.00380	**<0.00866**	0.00325 J	<0.00379	<0.00348	<0.00327	<0.00453	<0.00324	<0.00276
	TEL-2	Apr-17		<0.0214	<0.100	**0.556**	<0.00380	**<0.00866**	0.00376 J	<0.00379	<0.00348	<0.00327	<0.00453	<0.00324	<0.00276
	TEL-2	Oct-17		<0.0214	<0.100	**0.590**	<0.00380	**<0.00866**	<0.00275	<0.00379	<0.00348	<0.00327	<0.00453	<0.00324	<0.00276
	TEL-3	Apr-15		<0.0210	<0.100	**0.0206**	<0.00380	**<0.00870**	0.00471 J	<0.00380	<0.00350	<0.00330	<0.00450	<0.00320	<0.00280
	TEL-3	Oct-15		<0.00214	<0.0100	**0.0385**	<0.000380	<0.000866	0.00367	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	TEL-3	Apr-16		<0.0535	<0.250	**0.317**	<0.00950	**<0.0117**	<0.00688	**<0.00948**	<0.00870	<0.00818	<0.0113	<0.00810	<0.00690
	TEL-3	Oct-16		<0.00214	0.0156 J	**0.0123**	<0.000380	<0.000866	0.000488 J	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	TEL-3	Apr-17		<0.00214	<0.0100	**0.0799**	<0.000380	<0.000866	0.000918 J	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	TEL-4	Apr-15		<0.0210	0.243 J	**0.171**	<0.00380	**<0.00870**	0.00333 J	<0.00380	<0.00350	<0.00330	<0.00450	<0.00320	<0.00280
	TEL-4	Apr-15	FD	<0.0210	0.216 J	**0.155**	<0.00380	**<0.00870**	0.00471 J	<0.00380	<0.00350	<0.00330	<0.00450	<0.00320	<0.00280
	TEL-4	Oct-15		<0.00214	<0.0100	**0.637**	<0.000380	<0.000866	<0.000275 B	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	TEL-4	Oct-15	FD	<0.0214	<0.100	**0.657**	<0.00380	**<0.00866**	0.00858 J	<0.00379	<0.00348	<0.00327	<0.00453	<0.00324	<0.00276
	TEL-4	Apr-16		<0.0214	<0.100	**0.530**	<0.00380	**<0.00866**	<0.00275	<0.00379	<0.00348	<0.00327	<0.00453	<0.00324	<0.00276
	TEL-4	Apr-16	FD	<0.0214	<0.100	**0.557**	<0.00380	**<0.00866**	<0.00275	<0.00379	<0.00348	<0.00327	<0.00453	<0.00324	<0.00276
	TEL-4	Oct-16		<0.0214	<0.100	**0.514**	<0.00380	**<0.00866**	<0.00275	<0.00379	<0.00348	<0.00327	<0.00453	<0.00324	<0.00276
	TEL-4	Oct-16	FD	<0.0214	<0.100	**0.479**	<0.00380	**<0.00866**	0.00628 J	<0.00379	<0.00348	<0.00327	<0.00453	<0.00324	<0.00276
	TEL-4	Apr-17		<0.0214	<0.100 J3	**0.0595**	<0.00380	**<0.00866**	<0.00275	<0.00379	<0.00348	<0.00327	<0.00453	<0.00324	<0.00276
	TEL-4	Apr-17	FD	<0.00214	<0.0100	**0.0583**	<0.000380	<0.000866	0.000882 J	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	TEL-4	Oct-17		<0.00214	<0.0100	**0.0161**	<0.000380	<0.000866	0.00042 J	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	TEL-4	Oct-17	FD	<0.00214	<0.0100	**0.0149**	<0.000380	<0.000866	0.000526 J	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
TMD	MW-8	Apr-14		<0.00100	<0.00200	<0.000600	<0.00060	<0.000500	<0.000900	<0.000600	<0.000400	<0.00050	<0.000500	<0.000600	<0.000500
	MW-8	Apr-15		<0.00210	<0.0100	<0.000330	<0.000380	<0.000870	<0.000280	<0.000380	<0.000350	<0.000330	<0.000450	<0.000320	<0.000280
	MW-8	Apr-16		<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-8	Apr-17		<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276 J4
	MW-16	Apr-14		<0.00100	<0.00200	<0.000600	<0.00060	<0.000500	<0.000900	<0.000600	<0.000400	<0.00050	<0.000500	<0.000600	<0.000500
	MW-16	Apr-15		<0.00210	<0.0100	<0.000330	<0.000380	<0.000870	0.000446 J	<0.000380	<0.000350	<0.000330 J	<0.000450	<0.000320	<0.000280
	MW-16	Apr-17		<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-20	Apr-14		<0.00100	<0.00200	<0.000600	<0.00060	<0.000500	<0.000900	<0.000600	<0.000400	<0.00050	<0.000500	<0.000600	<0.000500
	MW-20	Apr-14	FD	<0.00100	<0.00200	<0.000600	<0.00060	<0.000500	<0.000900	<0.000600	<0.000400	<0.00050	<0.000500	<0.000600	<0.000500
	MW-20	Apr-15		<0.00210	<0.0100	<0.000330	<0.000380	<0.000870	<0.000280	<0.000380	<0.000350	<0.000330	<0.000450	<0.000320	<0.000280
	MW-20	Apr-16		<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-20	Apr-17		<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276 J4
	MW-21	Apr-15		<0.00210	<0.0100	<0.000330	<0.000380	<0.000870	0.0011	<0.000380	<0.000350	<0.000330 J	<0.000450	<0.000320	<0.000280
	MW-21	Oct-15		<0.00214	<0.0100	0.000613 J	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-21	Apr-16		<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-21	Oct-16		<0.00214	<0.0100 J3	<0.000331	<0.000380	<0.000866 J3	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453 J3	<0.000324	0.00106 JB
	MW-21	Apr-17		<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-21	Oct-17		<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-25	Apr-14		<0.00100	<0.00200	<0.000600	<0.00060	<0.000500	<0.000900	<0.000600	<0.000400	<0.00050	<0.000500	<0.000600	<0.000500
	MW-25	Apr-15		<0.00210	<0.0100	<0.000330	<0.000380	<0.000870	0.000423 J	<0.000380	<0.000350	<0.000330 J	<0.000450	<0.000320	<0.000280
	MW-25	Apr-16		<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-25	Apr-17		<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276 J4

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

2017 Annual Groundwater Monitoring Report

HollyFrontier Navajo Refining LLC, Artesia Refinery, Artesia, New Mexico

				Analyte Group:	Volatile Organic Compounds												
				Analyte:	4-Methyl-2-Pentanone	Acetone	Benzene	Bromo-dichloro-methane	Bromo-methane	Carbon Disulfide	Carbon Tetrachloride	Chloro-benzene	Chloro-dibromo-methane	Chloroethane	Chloroform	Chloro-methane
				Units:	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
				CGWSL:	1.24	14.1	0.005	0.08	0.00754	0.81	0.005	0.1	0.08	20.86	0.08	0.0203
				CGWSL Source:	NMED TW	TMED TW	USEPA MCL	USEPA MCL	NMED TW	NMED TW	USEPA MCL	USEPA MCL	USEPA MCL	NMED TW	USEPA MCL	NMED TW
Area	**Well ID**	**Date**	**Dup**														
TMD	MW-26	Apr-14			<0.00100	<0.00200	<0.000600	<0.00060	<0.000500	<0.000900	<0.000600	<0.000400	<0.00050	<0.000500	<0.000600	<0.000500
	MW-26	Apr-15			<0.00210	<0.0100	<0.000330	<0.000380	<0.000870	<0.000280	<0.000380	<0.000350	<0.000330	<0.000450	<0.000320	<0.000280
	MW-26	Apr-16			<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-26	Apr-17			<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-27	Apr-14			<0.00100	<0.00200	<0.000600	<0.00060	<0.000500	<0.000900	<0.000600	<0.000400	<0.00050	<0.000500	<0.000600	<0.000500
	MW-27	Apr-15			<0.00210	<0.0100	<0.000330	<0.000380	<0.000870	<0.000280	<0.000380	<0.000350	<0.000330	<0.000450	<0.000320	<0.000280
	MW-27	Apr-16			<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-27	Apr-17			<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-46R	Nov-14			<0.00210	<0.0100	<0.000330	<0.000380	<0.000870	<0.000280 J	<0.000380	<0.000350	<0.000330	<0.000450	<0.000320	<0.000280
	MW-46R	Apr-15			<0.00210	<0.0100	<0.000330	<0.000380	<0.000870	<0.000280	<0.000380	<0.000350	<0.000330	<0.000450 J	<0.000320	<0.000280
	MW-46R	Apr-16			<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-46R	Oct-16			<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-46R	Apr-17			<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-46R	Oct-17			<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-68	Apr-14			<0.00100	<0.00200	<0.000600	<0.00060	<0.000500	<0.000900	<0.000600	<0.000400	<0.00050	<0.000500	<0.000600	<0.000500
	MW-68	Apr-15			<0.00210	<0.0100	<0.000330	<0.000380	<0.000870	<0.000280	<0.000380	<0.000350	<0.000330	<0.000450	<0.000320	<0.000280
	MW-68	Apr-16			<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-68	Apr-17			<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-71	Apr-14			<0.00100	<0.00200	<0.000600	<0.00060	<0.000500	<0.000900	<0.000600	<0.000400	<0.00050	<0.000500	<0.000600	<0.000500
	MW-71	Apr-15			<0.00210	<0.0100	<0.000330	<0.000380	<0.000870	<0.000280	<0.000380	<0.000350	<0.000330	<0.000450	<0.000320	<0.000280
	MW-71	Apr-16			<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-71	Apr-17			<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-89	Apr-14			<0.00100	<0.00200	<0.000600	<0.00060	<0.000500	<0.000900	<0.000600	<0.000400	<0.00050	<0.000500	<0.000600	<0.000500
	MW-89	Apr-15			<0.00210	<0.0100	<0.000330	<0.000380	<0.000870	0.000752 J	<0.000380	<0.000350	<0.000330 J	<0.000450	<0.000320	<0.000280
	MW-89	Apr-16			<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	MW-89	Apr-17			<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	NP-1	Apr-15			<0.00210	<0.0100	<0.000330	<0.000380	<0.000870	<0.000280	<0.000380	<0.000350	<0.000330	<0.000450	<0.000320	<0.000280
	NP-1	Oct-15			<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.00275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	NP-1	Apr-16			<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	NP-1	Oct-16			<0.00214	<0.0100 J3	<0.000331	<0.000380	<0.000866 J3	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453 J3	<0.000324	0.00103 JB
	NP-1	Apr-17			<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	NP-1	Oct-17			<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	NP-2	Apr-13			<0.0100	<0.0100	<0.00500	<0.00500	<0.00500	<0.0100	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
	NP-6	Apr-13			<0.0100	<0.0100	<0.00500	<0.00500	<0.00500	<0.0100	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
	NP-6	Apr-15			<0.00210	<0.0100	<0.000330	<0.000380	<0.000870	0.00376	<0.000380	<0.000350	<0.000330 J	<0.000450	<0.000320	<0.000280
	NP-6	Apr-17			<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
Up-Gradient	UG-1	Apr-14			<0.00100	<0.00200	<0.000600	<0.00060	<0.000500	<0.000900	<0.000600	<0.000400	<0.00050	<0.000500	<0.000600	<0.000500
	UG-1	Apr-15			<0.00210	<0.0100	<0.000330	<0.000380	<0.000870	<0.000280	<0.000380	<0.000350	<0.000330	<0.000450	<0.000320	<0.000280
	UG-1	Apr-16			<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	UG-1	Apr-17			<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	UG-2	Apr-14			<0.0100	<0.00200	<0.000600	<0.00060	<0.000500	<0.000900	<0.000600	<0.000400	<0.00050	<0.000500	<0.000600	<0.000500
	UG-2	Apr-15			<0.00100	<0.0100	<0.000330	<0.000380	<0.000870	0.000348 J	<0.000380	<0.000350	<0.000330	<0.000450	<0.000320	<0.000280
	UG-2	Apr-16			<0.00210	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	UG-2	Apr-17			<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	UG-3R	Apr-14			<0.00100	<0.00200	<0.000600	<0.00060	<0.000500	<0.000900	<0.000600	<0.000400	<0.00050	<0.000500	<0.000600	<0.000500
	UG-3R	Apr-14	FD		<0.00100	<0.00200	<0.000600	<0.00060	<0.000500	<0.000900	<0.000600	<0.000400	<0.00050	<0.000500	<0.000600	<0.000500
	UG-3R	Apr-15			<0.00210	<0.0100	<0.000330	<0.000380	<0.000870	<0.000280	<0.000380	<0.000350	<0.000330	<0.000450	<0.000320	<0.000280
	UG-3R	Apr-16			<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	UG-3R	Apr-17			<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	UG-4	Apr-16			<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276
	UG-4	Apr-17			<0.00214	<0.0100	<0.000331	<0.000380	<0.000866	<0.000275	<0.000379	<0.000348	<0.000327	<0.000453	<0.000324	<0.000276

Definitions

X	F
X	A
<x	A
<x	A
	E
---	N

Abbreviations

CGWSL	C
CGWSL Source	S
Dup	D
FD	F
mg/L	M
NMED TPH	N
NMED TW	N
TPH	T
USEPA TW	U
USEPA MCL	U
WQCC HH	N

Lab Footnote

B	A
J	I
J3	T
J4	T
J6	T

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

2017 Annual Groundwater Monitoring Report

HollyFrontier Navajo Refining LLC, Artesia Refinery, Artesia, New Mexico

				Analyte Group:	Volatile Organic Compounds											
				Analyte:	cis-1,2-Dichloroethene	cis-1,3-Dichloropropene	Cymene	Dichloromethane	Ethylbenzene	Isopropylbenzene	m,p-Xylene	Methyl N-Butyl Ketone	MTBE	Naphthalene	N-Butylbenzene	N-Propylbenzene
				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:	0.07	0.0047	---	0.005	0.7	0.447	---	---	0.143	0.03	---	---
				CGWSL Source:	USEPA MCL	USEPA TW		USEPA MCL	USEPA MCL	WQCC TW			WQCC TW	WQCC HH		
Area	**Well ID**	**Date**	**Dup**													
Cross-Gradient	KWB-13	Apr-14		<0.00060	<0.000600	<0.000500	<0.00100	<0.000500	<0.000500	<0.000600	<0.00100	<0.000600	<0.000700	<0.00100	<0.000500
	KWB-13	Apr-15		<0.000260	<0.000420	<0.000350	<0.00100	<0.000380	<0.000330	0.00254	<0.00380	<0.000370	0.00317 J	<0.000360	0.000373 J
	KWB-13	Apr-16		<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	<0.000367	<0.00100	<0.000361	<0.000349
	KWB-13	Apr-17		<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	<0.000367	<0.00100	<0.000361	<0.000349
	MW-17	Apr-14													
	NP-5	Apr-13		<0.00500	**<0.00500**	<0.00500	**<0.0100**	<0.00500	<0.00500	<0.0100	<0.0100	<0.00500	<0.00500	<0.00500	<0.00500
	NP-5	Apr-15		<0.000260	<0.000420	<0.000350	<0.00100	<0.000380	<0.000330	<0.000720	<0.00380	<0.000370	<0.00100	<0.000360	<0.000350
	NP-5	Apr-17		<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	<0.000367	<0.00100	<0.000361	<0.000349
	RA-3156	Nov-13		<0.00500	**<0.00500**	<0.00500	**<0.0100**	<0.00500	<0.00500	<0.0100	<0.0100	<0.00500	<0.00500	<0.00500	<0.00500
	RA-3156	Apr-14		<0.00060	<0.000600	<0.000500	<0.00100	<0.000500	<0.000500	<0.000600	<0.00100	<0.000600	<0.000700	<0.00100	<0.000500
	RA-3156	Apr-16		<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	<0.000367	<0.00100	<0.000361	<0.000349
	RA-3156	Apr-17		<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	<0.000367	<0.00100	<0.000361	<0.000349
	MW-136	Oct-15		<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	<0.000367	<0.00100	<0.000361	<0.000349
	MW-136	Apr-16		<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	<0.000367	<0.00100	<0.000361	<0.000349
	MW-136	Oct-16		<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	<0.000367	<0.00100	<0.000361	<0.000349
	MW-136	Apr-17		<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	<0.000367	<0.00100	<0.000361	<0.000349
	MW-136	Oct-17		<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	<0.000367	<0.00100	<0.000361	<0.000349
Evaporation Ponds	MW-1R	Apr-14		<0.00060	<0.000600	<0.000500	<0.00100	<0.000500	<0.000500	<0.000600	<0.00100	<0.000600	<0.000700	<0.00100	<0.000500
	MW-1R	Apr-15		<0.000260	<0.000420	<0.000350	<0.00100	<0.000380	<0.000330	<0.000720	<0.00380	<0.000370	<0.00100	<0.000360	<0.000350
	MW-1R	Apr-16		<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	<0.000367	<0.00100	<0.000361	<0.000349
	MW-1R	Apr-17		<0.000260	<0.000418 J4	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382 J3 J4	<0.000367	<0.00100 J4	<0.000361	<0.000349
	MW-2A	Apr-15		<0.000260	<0.000420	<0.000350	<0.00100	<0.000380	<0.000330	<0.000720	<0.00380	<0.000370	<0.00100	<0.000360	<0.000350
	MW-2A	Oct-15		<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	<0.000367	<0.00100	<0.000361	<0.000349
	MW-2A	Apr-16		<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	<0.000367	<0.00100	<0.000361	<0.000349
	MW-2A	Oct-16		<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	<0.000367	<0.00100	<0.000361	<0.000349
	MW-2A	Apr-17		<0.00260	<0.00418	<0.00350	**<0.0100**	<0.00384	<0.00326	<0.00719	<0.0382	<0.00367	<0.0100	<0.00361	<0.00349
	MW-2A	Oct-17		<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	<0.000367	<0.00100	<0.000361	<0.000349
	MW-3	Apr-15		<0.000260	<0.000420	<0.000350	<0.00100	<0.000380	<0.000330	<0.000720	<0.00380	<0.000370	<0.00100	<0.000360	<0.000350
	MW-3	Apr-15	FD	<0.000260	<0.000420	<0.000350	<0.00100	<0.000380	<0.000330	<0.000720	<0.00380	<0.000370	<0.00100	<0.000360	<0.000350
	MW-3	Oct-15		<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	0.00247	<0.000719	<0.00382	<0.000367	<0.00100	<0.000361	<0.000349
	MW-3	Oct-15	FD	<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	0.00199	<0.000719	<0.00382	<0.000367	<0.00100	<0.000361	<0.000349
	MW-3	Apr-16		<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	<0.000367	<0.00100	<0.000361	<0.000349
	MW-3	Apr-16	FD	<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	<0.000367	<0.00100	<0.000361	<0.000349
	MW-3	Oct-16		<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	0.00327	<0.000719	<0.00382	<0.000367	<0.00100	<0.000361	<0.000349
	MW-3	Oct-16	FD	<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	0.00305	<0.000719	<0.00382	<0.000367	<0.00100	<0.000361	<0.000349
	MW-3	Apr-17		<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	<0.000367	<0.00100	<0.000361	<0.000349
	MW-3	Apr-17	FD	<0.000260	<0.000418 J4	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382 J3 J4	<0.000367	<0.00100 J4	<0.000361	<0.000349
	MW-3	Oct-17		<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	0.00149	<0.000719	<0.00382	<0.000367	<0.00100	<0.000361	<0.000349
	MW-3	Oct-17	FD	<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	0.002	<0.000719	<0.00382	<0.000367	<0.00100	<0.000361	<0.000349
	MW-4A	Apr-15		<0.000260	<0.000420	<0.000350	<0.00100	<0.000380	0.00159	0.00227	<0.00380	0.000461 J	<0.00100	<0.000360	<0.000350
	MW-4A	Oct-15		<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	0.00613	0.00237	<0.00382	0.000641 J	<0.00100	<0.000361	0.000436 J
	MW-4A	Apr-16		<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	0.00698	0.00166	<0.00382	0.000605 J	<0.00100	<0.000361	0.000357 J
	MW-4A	Oct-16		<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	0.0069	0.00278	<0.00382	0.000516 J	<0.00100	<0.000361	0.000434 J
	MW-4A	Apr-17		<0.000260	<0.000418 J4	<0.000350	<0.00100	<0.000384	0.00449	0.00105 J	<0.00382 J3 J4	0.000444 J	<0.00100 J4	<0.000361	<0.000349
	MW-4A	Oct-17		<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	0.00336	<0.000719	<0.00382	<0.000367	<0.00100	<0.000361	<0.000349
	MW-4B	Apr-13		<0.00500	**<0.00500**	<0.00500	**<0.0100**	<0.00500	<0.00500	<0.0100	<0.0100	<0.00500	<0.00500	<0.00500	<0.00500
	MW-4B	Apr-15		<0.000260	<0.000420	<0.000350	<0.00100	0.000462 J	0.000845 J	<0.000720	<0.00380	<0.000370	<0.00100	<0.000360	<0.000350
	MW-4B	Apr-17		<0.000260	<0.000418 J4	<0.000350	<0.00100	<0.000384	0.000727 J	<0.000719	<0.00382 J3 J4	<0.000367	<0.00100 J4	<0.000361	<0.000349
	MW-5A	Apr-15		<0.000260	<0.000420	<0.000350	<0.00100	<0.000380	<0.000330	<0.000720	<0.00380	0.00138	<0.00100	<0.000360	<0.000350
	MW-5A	Oct-15		<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	0.00174	<0.00100	<0.000361	<0.000349
	MW-5A	Apr-16		<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	0.00212	<0.00100	<0.000361	<0.000349
	MW-5A	Oct-16		<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	0.00130	<0.00100	<0.000361	<0.000349
	MW-5A	Apr-17		<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	0.000991 J	<0.000719	<0.00382	0.00160	<0.00100	<0.000361	<0.000349
	MW-5A	Oct-17		<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	0.0013	<0.000719	<0.00382	0.00150	<0.00100	<0.000361	<0.000349
	MW-5B	Apr-13		<0.00500	**<0.00500**	<0.00500	**<0.0100**	<0.00500	<0.00500	<0.0100	<0.0100	<0.00500	<0.00500	<0.00500	<0.00500
	MW-5B	Apr-15		<0.000260	<0.000420	<0.000350	<0.00100	<0.000380	<0.000330	<0.000720	<0.00380	0.00148	<0.00100	<0.000360	<0.000350
	MW-5B	Apr-17		<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	0.00140	<0.00100	<0.000361	<0.000349
	MW-5C	Apr-13		<0.00500	**<0.00500**	<0.00500	**<0.0100**	<0.00500	<0.00500	<0.0100	<0.0100	<0.00500	<0.00500	<0.00500	<0.00500
	MW-5C	Apr-15		<0.000260	<0.000420	<0.000350	<0.00100	<0.000380	<0.000330	<0.000720	<0.00380	0.000507 J	<0.00100	<0.000360	<0.000350
	MW-5C	Apr-17		<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	0.000369 J	<0.00100	<0.000361	<0.000349
	MW-6A	Apr-14		<0.00060	<0.000600	<0.000500	<0.00100	<0.000500	<0.000500	<0.000600	<0.00100	<0.000600	<0.000700	<0.00100	<0.000500
	MW-6A	Apr-15		<0.000260	<0.000420	<0.000350	<0.00100	<0.000380	0.00044 J	<0.000720	<0.00380	<0.000370	<0.00100	<0.000360	<0.000350
	MW-6A	Apr-16		<0.000260	<0.000418	<0.000350	<0.00100	0.00116	0.000386 J	<0.000719	<0.00382	<0.000367	<0.00100	<0.000361	<0.000349
	MW-6A	Apr-17		<0.00260	<0.00418	<0.00350	**<0.0100**	<0.00384	<0.00326	<0.00719	<0.0382	<0.00367	<0.0100	<0.00361	<0.00349
	MW-6B	Mar-13		<0.00500	**<0.00500**	<0.00500	**<0.0100**	<0.00500	<0.00500	<0.0100	<0.0100	<0.00500	<0.00500	<0.00500	<0.00500
	MW-6B	Mar-13	FD	<0.00500	**<0.00500**	<0.00500	**<0.0100**	<0.00500	<0.00500	<0.0100	<0.0100	<0.00500	<0.00500	<0.00500	<0.00500
	MW-6B	Apr-15		<0.000260	<0.000420	<0.000350	<0.00100	<0.000380	<0.000330	<0.000720	<0.00380	<0.000370	<0.00100	<0.000360	<0.000350
	MW-6B	Apr-17		<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	<0.000367	<0.00100	<0.000361	<0.000349
	MW-7A	Apr-15		<0.000260	<0.000420	<0.000350	<0.00100	<0.000380	<0.000330	<0.000720	<0.00380	0.00194	<0.00100	<0.000360	<0.000350
	MW-7A	Apr-15	FD	<0.000260	<0.000420	<0.000350	<0.00100	<0.000380	<0.000330	<0.000720	<0.00380	0.00185	<0.00100	<0.000360	<0.000350
	MW-7A	Oct-15		<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	0.00175	<0.00100	<0.000361	<0.000349
	MW-7A	Oct-15	FD	<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	0.00174	<0.00100	<0.000361	<0.000349
	MW-7A	Apr-16		<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	0.00168	<0.00100	<0.000361	<0.000349
	MW-7A	Apr-16	FD	<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	0.00168	<0.00100	<0.000361	<0.000349
	MW-7A	Oct-16		<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	0.00188	<0.00100	<0.000361	<0.000349
	MW-7A	Oct-16	FD	<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	0.00166	<0.00100	<0.000361	<0.000349
	MW-7A	Apr-17		<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	0.00150	<0.00100	<0.000361	<0.000349
	MW-7A	Apr-17	FD	<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	0.00148	<0.00100	<0.000361	<0.000349
	MW-7A	Oct-17		<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	0.00140	<0.00100	<0.000361	<0.000349
	MW-7A	Oct-17	FD	<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	0.00178	<0.00100	<0.000361	<0.000349
	MW-7B	Apr-13		<0.00500	**<0.00500**	<0.00500	**<0.0100**	<0.00500	<0.00500	<0.0100	<0.0100	<0.00500	<0.00500	<0.00500	<0.00500
	MW-7B	Apr-15		<0.000260	<0.000420	<0.000350	<0.00100	<0.000380	<0.000330	<0.000720	<0.00380	<0.000370	<0.00100	<0.000360	<0.000350
	MW-7B	Apr-17		<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	<0.000367	<0.00100	<0.000361	<0.000349
	MW-10	Apr-15		<0.000260	<0.000420	<0.000350	<0.00100	<0.000380	<0.000330	<0.000720	<0.00380	0.00195	<0.00100	<0.000360	<0.000350
	MW-10	Oct-15		<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	0.00201	<0.00100	<0.000361	<0.000349
	MW-10	Apr-16		<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	0.00216	<0.00100	<0.000361	<0.000349
	MW-10	Oct-16		<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	0.00190	<0.00100	<0.000361	<0.000349
	MW-10	Apr-17		<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	0.00195	<0.00100	<0.000361	<0.000349
	MW-10	Oct-17		<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	0.00141	<0.00100	<0.000361	<0.000349
	MW-11A	Apr-15		<0.000260	<0.000420	<0.000350	<0.00100	<0.000380	<0.000330	<0.000720	<0.00380	<0.000370	<0.00100	<0.000360	<0.000350
	MW-11A	Oct-15													
	MW-11A	Apr-16		<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	<0.000367	<0.00100	<0.000361	<0.000349
	MW-11A	Oct-16													
	MW-11A	Apr-17		<0.000260	<0.000418 J4	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382 J3 J4	<0.000367	<0.00100 J4	<0.000361	<0.000349
	MW-11A	Oct-17													
	MW-11B	Mar-13		<0.00500	**<0.00500**	<0.00500	**<0.0100**	<0.00500	<0.00500	<0.0100	<0.0100	<0.00500	<0.00500	<0.00500	<0.00500
	MW-11B	Apr-15		<0.000260	<0.000420	<0.000350	<0.00100	<0.000380	<0.000330	<0.000720	<0.00380	<0.000370	<0.00100	<0.000360	<0.000350
	MW-11B	Apr-17		<0.000260	<0.000418 J4	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382 J3 J4	<0.000367	<0.00100 J4	<0.000361	<0.000349
	MW-12	Apr-14													
	MW-13	Apr-14													
	MW-15	Apr-14		<0.00060	<0.000600	<0.000500	<0.00100	<0.000500	<0.000500	<0.000600	<0.00100	<0.000600	<0.000700	<0.00100	<0.000500
	MW-15	Apr-15		<0.000260	<0.000420	<0.000350	<0.00100	<0.000380	0.000387 J	<0.000720	<0.00380	0.000809 J	<0.00100	<0.000360	<0.000350
	MW-15	Apr-16		<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	0.000602 J	<0.00100	<0.000361	<0.000349
	MW-15	Apr-17		<0.000260	<0.000418 J4	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382 J3 J4	0.000373 J	<0.00100 J4	<0.000361	<0.000349

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

2017 Annual Groundwater Monitoring Report

HollyFrontier Navajo Refining LLC, Artesia Refinery, Artesia, New Mexico

				Analyte Group:	Volatile Organic Compounds											
				Analyte:	cis-1,2-Dichloroethene	cis-1,3-Dichloropropene	Cymene	Dichloromethane	Ethylbenzene	Isopropylbenzene	m,p-Xylene	Methyl N-Butyl Ketone	MTBE	Naphthalene	N-Butylbenzene	N-Propylbenzene
				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:	0.07	0.0047	---	0.005	0.7	0.447	---	---	0.143	0.03	---	---
				CGWSL Source:	USEPA MCL	USEPA TW		USEPA MCL	USEPA MCL	WQCC TW			WQCC TW	WQCC HH		
Area	**Well ID**	**Date**	**Dup**													
Evaporation Ponds	MW-18A	Apr-15			<0.000260	<0.000420	<0.000350	<0.00100	<0.000380	<0.000330	<0.000720	<0.00380	<0.000370	<0.00100	<0.000360	<0.000350
	MW-18A	Oct-15			<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	<0.000367	<0.00100	<0.000361	<0.000349
	MW-18A	Apr-16			<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	0.000490 J	<0.00100	<0.000361	<0.000349
	MW-18A	Oct-16			<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	0.000586 J	<0.00100	<0.000361	<0.000349
	MW-18A	Apr-17			<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	0.000650 J	<0.00100	<0.000361	<0.000349
	MW-18A	Oct-17			<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	0.000529 J	<0.00100	<0.000361	<0.000349
	MW-18B	Apr-13			<0.00500	**<0.00500**	<0.00500	**<0.0100**	<0.00500	<0.00500	<0.0100	<0.0100	<0.00500	<0.00500	<0.00500	<0.00500
	MW-18B	Apr-15			<0.000260	<0.000420	<0.000350	<0.00100	<0.000380	<0.000330	<0.000720	<0.00380	<0.000370	<0.00100	<0.000360	<0.000350
	MW-18B	Apr-17			<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	<0.000367	<0.00100	<0.000361	<0.000349
	MW-22A	Apr-15			<0.000260	<0.000420	<0.000350	<0.00100	<0.000380	<0.000330	<0.000720	<0.00380	0.00557	<0.00100	<0.000360	<0.000350
	MW-22A	Apr-15	FD		<0.000260	<0.000420	<0.000350	<0.00100	<0.000380	<0.000330	<0.000720	<0.00380	0.00733	<0.00100	<0.000360	<0.000350
	MW-22A	Oct-15			<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	0.00928	<0.00100	<0.000361	<0.000349
	MW-22A	Oct-15	FD		<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	0.00967	<0.00100	<0.000361	<0.000349
	MW-22A	Apr-16			<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	0.00907	<0.00100	<0.000361	<0.000349
	MW-22A	Apr-16	FD		<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	0.00887	<0.00100	<0.000361	<0.000349
	MW-22A	Oct-16			<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	0.00805	<0.00100	0.000576 J	<0.000349
	MW-22A	Oct-16	FD		<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	0.00620	<0.00100	<0.000361	<0.000349
	MW-22A	Apr-17			<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	0.00774	<0.00100	<0.000361	<0.000349
	MW-22A	Apr-17	FD		<0.000260	<0.000418 J4	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382 J3 J4	0.00654	<0.00100 J4	<0.000361	<0.000349
	MW-22A	Oct-17			<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	0.00552	<0.00100	<0.000361	<0.000349
	MW-22A	Oct-17	FD		<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	0.00631	<0.00100	<0.000361	<0.000349
	MW-22B	Apr-13			<0.00500	**<0.00500**	<0.00500	**<0.0100**	<0.00500	<0.00500	<0.0100	<0.0100	0.00650	<0.00500	<0.00500	<0.00500
	MW-22B	Apr-15			<0.000260	<0.000420	<0.000350	<0.00100	<0.000380	<0.000330	<0.000720	<0.00380	0.00634	<0.00100	<0.000360	<0.000350
	MW-22B	Apr-17			<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	0.00564	<0.00100	<0.000361	<0.000349
	MW-70	Apr-15			<0.000260	<0.000420	<0.000350	<0.00100	<0.000380	<0.000330	<0.000720	<0.00380	<0.000370	<0.00100	<0.000360	<0.000350
	MW-70	Oct-15			<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	<0.000367	<0.00100	<0.000361	<0.000349
	MW-70	Apr-16			<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	<0.000367	<0.00100	<0.000361	<0.000349
	MW-70	Oct-16			<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	<0.000367	<0.00100	<0.000361	<0.000349
	MW-70	Apr-17			<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	<0.000367	<0.00100	<0.000361	<0.000349
	MW-70	Oct-17			<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	<0.000367	<0.00100	<0.000361	<0.000349
	MW-72	Apr-14			<0.00060	<0.000600	<0.000500	<0.00100	<0.000500	<0.000500	<0.000600	<0.00100	<0.000600	<0.000700	<0.00100	<0.000500
	MW-72	Apr-15			<0.000260	<0.000420	<0.000350	<0.00100	<0.000380	<0.000330	<0.000720	<0.00380	<0.000370	<0.00100	<0.000360	<0.000350
	MW-72	Apr-16			<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	<0.000367	<0.00100	<0.000361	<0.000349
	MW-72	Apr-17			<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	<0.000367	<0.00100 J4	<0.000361	<0.000349
	MW-73	Apr-14			<0.00060	<0.000600	<0.000500	<0.00100	<0.000500	<0.000500	<0.000600	<0.00100	0.00160 J	<0.000700	<0.00100	<0.000500
	MW-73	Apr-15			<0.000260	<0.000420	<0.000350	<0.00100	<0.000380	<0.000330	<0.000720	<0.00380	0.00290	<0.00100	<0.000360	<0.000350
	MW-73	Apr-16			<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	0.00270	<0.00100	<0.000361	<0.000349
	MW-73	Apr-17			<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	0.00120	<0.00100 J4	<0.000361	<0.000349
	MW-74	Apr-15			<0.000260	<0.000420	<0.000350	<0.00100	<0.000380	<0.000330	<0.000720	<0.00380	<0.000370	<0.00100	<0.000360	<0.000350
	MW-74	Oct-15			<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	0.000826 J	<0.00100	<0.000361	<0.000349
	MW-74	Apr-16			<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	0.000972 J	<0.00100	<0.000361	<0.000349
	MW-74	Oct-16			<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	<0.000367	<0.00100	<0.000361	<0.000349
	MW-74	Apr-17			<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	0.000473 J	<0.00100 J4	<0.000361	<0.000349
	MW-74	Oct-17			<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	0.000527 J	<0.00100	<0.000361	<0.000349
	MW-75	Apr-15			<0.00260	<0.00420	<0.00350	**<0.0100**	<0.00380	0.00731 J	<0.00720	<0.0380	0.00935 J	<0.0100	<0.00360	<0.00350
	MW-75	Oct-15			<0.000260	<0.000418	0.000623 J	<0.00100	<0.000384	0.0101	<0.000719	<0.00382	0.00463	<0.00100	<0.000361	0.00116
	MW-75	Apr-16			<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	0.00144	<0.000719	<0.00382	0.00577	<0.00100	<0.000361	<0.000349
	MW-75	Oct-16			<0.000260	<0.000418	0.000603 J	<0.00100	<0.000384	0.0167	<0.000719	<0.00382	0.00407	<0.00100	0.000385 J	0.00123
	MW-75	Apr-17			<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	0.00303	<0.000719	<0.00382	0.00645	<0.00100	<0.000361	<0.000349
	MW-75	Oct-17			<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	0.0101	<0.000719	<0.00382	0.00224	<0.00100	<0.000361	0.00087 J
	MW-76	Apr-15			<0.000260	<0.000420	<0.000350	<0.00100	<0.000380	0.0161	<0.000720	<0.00380	0.0122	<0.00100	<0.000360	0.000534 J
	MW-76	Oct-15			<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	0.023	<0.000719	<0.00382	0.00839	<0.00100	<0.000361	0.000663 J
	MW-76	Apr-16			<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	0.0108	<0.000719	<0.00382	0.00756	<0.00100	<0.000361	0.000356 J
	MW-76	Oct-16			<0.000260	<0.000418	<0.000350	<0.00100	0.000437 J	0.0276	0.00214	<0.00382	0.0245	<0.00100	<0.000361	0.00125
	MW-76	Apr-17			<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	0.0127	<0.000719	<0.00382	0.0130	<0.00100	<0.000361	0.000438 J
	MW-76	Oct-17			<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	0.0316	<0.000719	<0.00382	0.0143	<0.00100	<0.000361	0.000893 J
	MW-77	Apr-15			<0.000260	<0.000420	0.00285	<0.00100	0.00363	0.0274	0.0043	<0.00380	0.0131	<0.00100	<0.000360	0.0108
	MW-77	Oct-15			<0.000260	<0.000418	0.0031	<0.00100	0.00533	0.0291	0.00476	<0.00382	0.00722	<0.00100	0.000743 J	0.00989
	MW-77	Apr-16			<0.000260	<0.000418	0.00264	<0.00100	0.00300	0.023	0.00332	<0.00382	0.00647	<0.00100	0.000463 J	0.00578
	MW-77	Oct-16			<0.00260	<0.00418	<0.00350	**<0.0100**	0.00766 J	0.0259	<0.00719	<0.00382	0.00552 J	<0.0100	<0.00361	0.0122
	MW-77	Apr-17			<0.00260	<0.00418	<0.00350	**<0.0100**	<0.00384	0.0207	<0.00719	<0.0382	0.00452 J	<0.0100	<0.00361	0.00565 J
	MW-78	Apr-14			<0.00060	<0.000600	<0.000500	<0.00100	0.00130 J	<0.000500	<0.000600	<0.00100	<0.000600	<0.000700	<0.00100	0.0018 J
	MW-78	Apr-15			<0.000260	<0.000420	0.000443 J	<0.00100	0.00262	0.00348	0.00146	<0.00380	0.000629 J	<0.00100	<0.000360	0.0039
	MW-78	Apr-16			<0.000260	<0.000418	<0.000350	<0.00100	0.000942 J	0.00168	<0.000719	<0.00382	<0.000367	<0.00100	<0.000361	0.00152
	MW-78	Apr-17			<0.00260	<0.00418	<0.00350	**<0.0100**	<0.00384	<0.00326	<0.00719	<0.0382	<0.00367	<0.0100	<0.00361	<0.00349
	MW-79	Apr-15			<0.000260	<0.000420	<0.000350	<0.00100	<0.000380	<0.000330	<0.000720	<0.00380	<0.000370	<0.00100	<0.000360	<0.000350
	MW-79	Oct-15			<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	<0.000367	<0.00100	<0.000361	<0.000349
	MW-79	Apr-16			<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	<0.000367	<0.00100	<0.000361	<0.000349
	MW-79	Oct-16			<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	<0.000367	<0.00100	<0.000361	<0.000349
	MW-79	Apr-17			<0.00260	<0.00418	<0.00350	**<0.0100**	<0.00384	<0.00326	<0.00719	<0.0382	<0.00367	<0.0100	<0.00361	<0.00349
	MW-79	Oct-17			<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	<0.000367	<0.00100	<0.000361	<0.000349
	MW-80	Apr-14			<0.00060	<0.000600	<0.000500	<0.00100	<0.000500	<0.000500	<0.000600	<0.00100	<0.000600	<0.000700	<0.00100	<0.000500
	MW-80	Apr-15			<0.000260	<0.000420	<0.000350	<0.00100	<0.000380	<0.000330	<0.000720	<0.00380	<0.000370	<0.00100	<0.000360	<0.000350
	MW-80	Apr-16			<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	<0.000367	<0.00100	<0.000361	<0.000349
	MW-80	Apr-17			<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	<0.000367	<0.00100	<0.000361	<0.000349
	MW-81	Apr-14			<0.00060	<0.000600	<0.000500	<0.00100	<0.000500	<0.000500	<0.000600	<0.00100	<0.000600	<0.000700	<0.00100	<0.000500
	MW-81	Apr-15			<0.000260	<0.000420	<0.000350	<0.00100	<0.000380	<0.000330	<0.000720	<0.00380	<0.000370	<0.00100	<0.000360	<0.000350
	MW-81	Apr-16			<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	<0.000367	<0.00100	<0.000361	<0.000349
	MW-81	Apr-17			<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	<0.000367	<0.00100	<0.000361	<0.000349
	MW-82	Apr-14			<0.00060	<0.000600	<0.000500	<0.00100	<0.000500	<0.000500	<0.000600	<0.00100	<0.000600	<0.000700	<0.00100	<0.000500
	MW-82	Apr-14	FD		<0.00060	<0.000600	<0.000500	<0.00100	<0.000500	<0.000500	<0.000600	<0.00100	<0.000600	<0.000700	<0.00100	<0.000500
	MW-82	Apr-15			<0.000260	<0.000420	<0.000350	<0.00100	<0.000380	<0.000330	<0.000720	<0.00380	<0.000370	<0.00100	<0.000360	<0.000350
	MW-82	Apr-16			<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	<0.000367	<0.00100	<0.000361	<0.000349
	MW-82	Apr-17			<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	<0.000367	<0.00100 J4	<0.000361	<0.000349
	MW-83	Apr-15			<0.000260	<0.000420	<0.000350	<0.00100	<0.000380	0.00159	<0.000720	<0.00380	<0.000370	<0.00100	<0.000360	0.000534 J
	MW-83	Oct-15			<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	0.00192	<0.000719	<0.00382	<0.000367	<0.00100	<0.000361	0.000461 J
	MW-83	Apr-16			<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	0.00143	<0.000719	<0.00382	<0.000367	<0.00100	<0.000361	0.000365 J
	MW-83	Oct-16			<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	0.00145	<0.000719	<0.00382	<0.000367	<0.00100	<0.000361	0.000696 J
	MW-83	Apr-17			<0.00260	<0.00418	<0.00350	**<0.0100**	<0.00384	<0.00326	<0.00719	<0.0382	<0.00367	<0.0100	<0.00361	<0.00349
	MW-83	Oct-17			<0.000260	<0.000418	<0.000350	<0.00100	0.000439 J	0.00189	0.0012 J	<0.00382	<0.000367	<0.00100	<0.000361	0.000645 J
	MW-84	Apr-15			<0.000260	<0.000420	<0.000350	<0.00100	0.000574 J	0.000575 J	<0.000720	<0.00380	0.00279	<0.00100	<0.000360	<0.000350
	MW-84	Oct-15			<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	0.00125	<0.00100	<0.000361	<0.000349
	MW-84	Apr-16			<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	0.00129	<0.00100	<0.000361	<0.000349
	MW-84	Oct-16			<0.00260	<0.00418	<0.00350	**<0.0100**	<0.00384	<0.00326	<0.00719	<0.00382	<0.00367	<0.0100	<0.00361	<0.00349
	MW-84	Apr-17			<0.00260	<0.00418	<0.00350	**<0.0100**	<0.00384	<0.00326	<0.00719	<0.0382	<0.00367	<0.0100	<0.00361	<0.00349
	MW-84	Oct-17			<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	0.000451 J	<0.000719	<0.00382	0.00174	<0.00100	<0.000361	<0.000349
	MW-87	Apr-15			<0.000260	<0.000420	<0.000350	<0.00100	<0.000380	<0.000330	<0.000720	<0.00380	0.000569 J	<0.00100	<0.000360	<0.000350
	MW-87	Oct-15			<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	0.000696 J	<0.00100	<0.000361	<0.000349
	MW-87	Apr-16			<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	0.000646 J	<0.00100	<0.000361	<0.000349
	MW-87	Oct-16			<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	0.00107	<0.00100	<0.000361	<0.000349
	MW-87	Apr-17			<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	0.000665 J	<0.00100	<0.000361	<0.000349
	MW-87	Oct-17			<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	0.000728 J	<0.00100	<0.000361	<0.000349

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

2017 Annual Groundwater Monitoring Report

HollyFrontier Navajo Refining LLC, Artesia Refinery, Artesia, New Mexico

				Analyte Group:	Volatile Organic Compounds											
				Analyte:	cis-1,2-Dichloroethene	cis-1,3-Dichloropropene	Cymene	Dichloromethane	Ethylbenzene	Isopropylbenzene	m,p-Xylene	Methyl N-Butyl Ketone	MTBE	Naphthalene	N-Butylbenzene	N-Propylbenzene
				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:	0.07	0.0047	---	0.005	0.7	0.447	---	---	0.143	0.03	---	---
				CGWSL Source:	USEPA MCL	USEPA TW		USEPA MCL	USEPA MCL	WQCC TW			WQCC TW	WQCC HH		
Area	**Well ID**	**Date**	**Dup**													
Evaporation Ponds	MW-88	Apr-15		<0.000260	<0.000420	<0.000350	<0.00100	<0.000380	<0.000330	<0.000720	<0.00380	<0.000370	<0.00100	<0.000360	<0.000350
	MW-88	Oct-15		<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	<0.000367	<0.00100	<0.000361	<0.000349
	MW-88	Apr-16		<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	<0.000367	<0.00100	<0.000361	<0.000349
	MW-88	Oct-16		<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	<0.000367	<0.00100	<0.000361	<0.000349
	MW-88	Apr-17		<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	<0.000367	<0.00100	<0.000361	<0.000349
	MW-88	Oct-17		<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	<0.000367	<0.00100	<0.000361	<0.000349
	MW-120	Apr-15		<0.000260	<0.000420	<0.000350	<0.00100	<0.000380	<0.000330	<0.000720	<0.00380	<0.000370	<0.00100	<0.000360	<0.000350
	MW-120	Oct-15		<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	<0.000367	<0.00100	<0.000361	<0.000349
	MW-120	Apr-16		<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	<0.000367	<0.00100	<0.000361	<0.000349
	MW-120	Oct-16		<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	<0.000367	<0.00100	<0.000361	<0.000349
	MW-120	Apr-17		<0.00260	<0.00418	<0.00350	**<0.0100**	<0.00384	<0.00326	<0.00719	<0.0382	<0.00367	<0.0100	<0.00361	<0.00349
	MW-120	Oct-17		<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	<0.000367	<0.00100	<0.000361	<0.000349
	MW-121	Apr-15		<0.000260	<0.000420	<0.000350	<0.00100	<0.000380	<0.000330	<0.000720	<0.00380	<0.000370	<0.00100	<0.000360	<0.000350
	MW-121	Oct-15		<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	<0.000367	<0.00100	<0.000361	<0.000349
	MW-121	Apr-16		<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	<0.000367	<0.00100	<0.000361	<0.000349
	MW-121	Oct-16		<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	<0.000367	<0.00100	<0.000361	<0.000349
	MW-121	Apr-17		<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	<0.000367	<0.00100	<0.000361	<0.000349
	MW-121	Oct-17		<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	<0.000367	<0.00100	<0.000361	<0.000349
	MW-122	Apr-15		<0.000260	<0.000420	<0.000350	<0.00100	<0.000380	<0.000330	<0.000720	<0.00380	<0.000370	<0.00100	<0.000360	<0.000350
	MW-122	Oct-15		<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	<0.000367	<0.00100	<0.000361	<0.000349
	MW-122	Apr-16		<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	<0.000367	<0.00100	<0.000361	<0.000349
	MW-122	Oct-16		<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	<0.000367	<0.00100	<0.000361	<0.000349
	MW-122	Apr-17		<0.00260	<0.00418	<0.00350	**<0.0100**	<0.00384	<0.00326	<0.00719	<0.0382	<0.00367	<0.0100	<0.00361	<0.00349
	MW-122	Oct-17		<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	<0.000367	<0.00100	<0.000361	<0.000349
	MW-123	Apr-15		<0.000260	<0.000420	<0.000350	<0.00100	<0.000380	<0.000330	<0.000720	<0.00380	0.00124	<0.00100	<0.000360	<0.000350
	MW-123	Oct-15		<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	0.00126	<0.00100	<0.000361	<0.000349
	MW-123	Apr-16		<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	0.00143	<0.00100	<0.000361	<0.000349
	MW-123	Oct-16		<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	0.00163	<0.00100	<0.000361	<0.000349
	MW-123	Apr-17		<0.000260	<0.000418 J4	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382 J4	0.00114	<0.00100 J4	<0.000361	<0.000349
	MW-123	Oct-17		<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	0.00139	<0.00100	<0.000361	<0.000349
	MW-124	Apr-15		<0.000260	<0.000420	<0.000350	<0.00100	<0.000380	<0.000330	<0.000720	<0.00380	<0.000370	<0.00100	<0.000360	<0.000350
	MW-124	Oct-15		<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	<0.000367	<0.00100	<0.000361	<0.000349
	MW-124	Apr-16		<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	<0.000367	<0.00100	<0.000361	<0.000349
	MW-124	Oct-16		<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	<0.000367	<0.00100	<0.000361	<0.000349
	MW-124	Apr-17		<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	<0.000367	<0.00100	<0.000361	<0.000349
	MW-124	Oct-17		<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	<0.000367	<0.00100	<0.000361	<0.000349
	OCD-1R	Apr-15		<0.000260	<0.000420	<0.000350	<0.00100	<0.000380	<0.000330	<0.000720	<0.00380	<0.000370	<0.00100	<0.000360	<0.000350
	OCD-1R	Oct-15		<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	<0.000367	<0.00100	<0.000361	<0.000349
	OCD-1R	Apr-16		<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	<0.000367	<0.00100	<0.000361	<0.000349
	OCD-1R	Oct-16		<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	<0.000367	<0.00100	<0.000361	<0.000349
	OCD-1R	Apr-17		<0.000260	<0.000418 J4	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382 J4	<0.000367	<0.00100 J4	<0.000361	<0.000349
	OCD-1R	Oct-17		<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	<0.000367	<0.00100	<0.000361	<0.000349
	OCD-2A	Apr-15		<0.000260	<0.000420	<0.000350	<0.00100	<0.000380	<0.000330	<0.000720	<0.00380	<0.000370	<0.00100	<0.000360	<0.000350
	OCD-2A	Oct-15		<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	<0.000367	<0.00100	<0.000361	<0.000349
	OCD-2A	Apr-16		<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	<0.000367	<0.00100	<0.000361	<0.000349
	OCD-2A	Oct-16		<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	<0.000367	<0.00100	<0.000361	<0.000349
	OCD-2A	Apr-17		<0.000260	<0.000418 J4	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382 J4	<0.000367	<0.00100 J4	<0.000361	<0.000349
	OCD-2A	Oct-17		<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	<0.000367	<0.00100	<0.000361	<0.000349
	OCD-3	Apr-15		<0.000260	<0.000420	<0.000350	<0.00100	<0.000380	<0.000330	<0.000720	<0.00380	<0.000370	<0.00100	<0.000360	<0.000350
	OCD-3	Oct-15		<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	<0.000367	<0.00100	<0.000361	<0.000349
	OCD-3	Apr-16		<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	<0.000367	<0.00100	<0.000361	<0.000349
	OCD-3	Oct-16		<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	<0.000367	<0.00100	<0.000361	<0.000349
	OCD-3	Apr-17		<0.000260	<0.000418 J4	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382 J4	<0.000367	<0.00100 J4	<0.000361	<0.000349
	OCD-3	Oct-17		<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	<0.000367	<0.00100	<0.000361	<0.000349
	OCD-4	Apr-15		<0.000260	<0.000420	<0.000350	<0.00100	<0.000380	<0.000330	<0.000720	<0.00380	<0.000370	<0.00100	<0.000360	<0.000350
	OCD-4	Oct-15		<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	<0.000367	<0.00100	<0.000361	<0.000349
	OCD-4	Apr-16		<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	<0.000367	<0.00100	<0.000361	<0.000349
	OCD-4	Oct-16		<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	<0.000367	<0.00100	<0.000361	<0.000349
	OCD-4	Apr-17		<0.000260	<0.000418 J4	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382 J4	<0.000367	<0.00100 J4	<0.000361	<0.000349
	OCD-4	Oct-17		<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	<0.000367	<0.00100	<0.000361	<0.000349
	OCD-5	Apr-15		<0.000260	<0.000420	<0.000350	<0.00100	<0.000380	<0.000330	<0.000720	<0.00380	<0.000370	<0.00100	<0.000360	<0.000350
	OCD-5	Oct-15		<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	<0.000367	<0.00100	<0.000361	<0.000349
	OCD-5	Apr-16		<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	<0.000367	<0.00100	<0.000361	<0.000349
	OCD-5	Oct-16		<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	<0.000367	<0.00100	<0.000361	<0.000349
	OCD-5	Apr-17		<0.000260	<0.000418 J4	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382 J4	<0.000367	<0.00100 J4	<0.000361	<0.000349
	OCD-5	Oct-17		<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	<0.000367	<0.00100	<0.000361	<0.000349
	OCD-6	Apr-15		<0.000260	<0.000420	<0.000350	<0.00100	<0.000380	<0.000330	<0.000720	<0.00380	<0.000370	<0.00100	<0.000360	<0.000350
	OCD-6	Oct-15		<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	<0.000367	<0.00100	<0.000361	<0.000349
	OCD-6	Apr-16		<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	<0.000367	<0.00100	<0.000361	<0.000349
	OCD-6	Oct-16		<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	<0.000367	<0.00100	<0.000361	<0.000349
	OCD-6	Apr-17		<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	<0.000367	<0.00100 J4	<0.000361	<0.000349
	OCD-6	Oct-17		<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	<0.000367	<0.00100	<0.000361	<0.000349
	OCD-7AR	Apr-15		<0.000260	<0.000420	<0.000350	<0.00100	<0.000380	<0.000330	<0.000720	<0.00380	0.00196	<0.00100	<0.000360	<0.000350
	OCD-7AR	Oct-15		<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	0.00202	<0.00100	<0.000361	<0.000349
	OCD-7AR	Apr-16		<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	0.00141	<0.00100	<0.000361	<0.000349
	OCD-7AR	Oct-16		<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	0.00179	<0.00100	<0.000361	<0.000349
	OCD-7AR	Apr-17		<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	0.00110	<0.00100 J4	<0.000361	<0.000349
	OCD-7AR	Oct-17		<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	0.00107	<0.00100	<0.000361	<0.000349
	OCD-7B	Mar-13		<0.00500	**<0.00500**	<0.00500	**<0.0100**	<0.00500	<0.00500	<0.0100	<0.0100	<0.00500	<0.00500	<0.00500	<0.00500
	OCD-7B	Apr-15		<0.000260	<0.000420	<0.000350	<0.00100	<0.000380	<0.000330	<0.000720	<0.00380	<0.000370	<0.00100	<0.000360	<0.000350
	OCD-7B	Apr-17		<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	<0.000367	<0.00100	<0.000361	<0.000349
	OCD-8A	Apr-15		<0.000260	<0.000420	<0.000350	<0.00100	<0.000380	<0.000330	<0.000720	<0.00380	0.00498	<0.00100	<0.000360	<0.000350
	OCD-8A	Oct-15		<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	0.00510	<0.00100	<0.000361	<0.000349
	OCD-8A	Apr-16		<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	0.00475	<0.00100	<0.000361	<0.000349
	OCD-8A	Oct-16		<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	0.00507	<0.00100	<0.000361	<0.000349
	OCD-8A	Apr-17		<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	0.00420	<0.00100	<0.000361	<0.000349
	OCD-8A	Oct-17		<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	0.00392	<0.00100	<0.000361	<0.000349
	OCD-8B	Apr-13		<0.00500	**<0.00500**	<0.00500	**<0.0100**	<0.00500	<0.00500	<0.0100	<0.0100	<0.00500	<0.00500	<0.00500	<0.00500
	OCD-8B	Apr-15		<0.000260	<0.000420	<0.000350	<0.00100	<0.000380	<0.000330	<0.000720	<0.00380	0.00155	<0.00100	<0.000360	<0.000350
	OCD-8B	Apr-17		<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	0.000919 J	<0.00100	<0.000361	<0.000349
Field East of Refinery	KWB-1A	Apr-15		<0.000260	<0.000420	<0.000350	<0.00100	<0.000380	<0.000330	<0.000720	<0.00380	<0.000370	<0.00100	<0.000360	<0.000350
	KWB-1A	Oct-15		<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	<0.000367	<0.00100	<0.000361	<0.000349
	KWB-1A	Apr-16		<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	<0.000367	<0.00100	<0.000361	<0.000349
	KWB-1A	Oct-16		<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	<0.000367	<0.00100	<0.000361	<0.000349
	KWB-1A	Apr-17		<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	<0.000367	<0.00100	<0.000361	<0.000349
	KWB-1A	Oct-17		<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	<0.000367	<0.00100	<0.000361	<0.000349
	KWB-1C	Apr-13		<0.00500	**<0.00500**	<0.00500	**<0.0100**	<0.00500	<0.00500	<0.0100	<0.0100	<0.00500	<0.00500	<0.00500	<0.00500
	KWB-1C	Apr-15		<0.000260	<0.000420	<0.000350	<0.00100	<0.000380	<0.000330	<0.000720	<0.00380	<0.000370	<0.00100	<0.000360	<0.000350
	KWB-1C	Apr-17		<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	<0.000367	<0.00100	<0.000361	<0.000349
	KWB-7	Apr-15		<0.000260	<0.000420	<0.000350	<0.00100	0.0285	0.0338	0.00342	<0.00380	0.0225	0.0120	0.00299	0.0317
	KWB-7	Oct-15		<0.000260	<0.000418	<0.000350	<0.00100	0.0240	0.0223	0.000839 J	<0.00382	0.00677	0.00225 J	0.00143	0.0221
	KWB-7	Apr-16		<0.000260	<0.000418	0.000952 J	<0.00100	0.0248	0.014	0.0218	<0.00382	0.0104	0.0141	0.00365	0.0193
	KWB-7	Oct-16		<0.000260	<0.000418	<0.000350	<0.00100	0.0167	0.0228	0.0196	<0.00382	0.00582	0.00120 JJ4	0.000757 J	0.0158
	KWB-7	Apr-17		<0.000260	<0.000418	<0.000350	<0.00100	0.00858	0.0136	0.007	<0.00382	0.00678	0.00409 J	<0.000361	0.00992
	KWB-7	Oct-17		<0.000260	<0.000418	0.000418 J	<0.00100	0.0156	0.0103	0.0132	<0.00382	0.00510	0.00350 J	0.000456 J	0.0105

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

2017 Annual Groundwater Monitoring Report

HollyFrontier Navajo Refining LLC, Artesia Refinery, Artesia, New Mexico

				Analyte Group:	Volatile Organic Compounds											
				Analyte:	cis-1,2-Dichloroethene	cis-1,3-Dichloropropene	Cymene	Dichloromethane	Ethylbenzene	Isopropylbenzene	m,p-Xylene	Methyl N-Butyl Ketone	MTBE	Naphthalene	N-Butylbenzene	N-Propylbenzene
				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:	0.07	0.0047	---	0.005	0.7	0.447	---	---	0.143	0.03	---	---
				CGWSL Source:	USEPA MCL	USEPA TW		USEPA MCL	USEPA MCL	WQCC TW			WQCC TW	WQCC HH		
Area	**Well ID**	**Date**	**Dup**													
Field East of Refinery	KWB-8	Oct-16			<0.0520	**<0.0836**	<0.0700	**<0.200**	**0.828**	<0.0652	1.01	<0.00382	<0.0734	**<0.200** J4	<0.0722	<0.0698
	KWB-8	Apr-17			<0.0260	**<0.0418**	<0.0350	**<0.100**	**1.24**	0.0467 J	1.92	<0.382	0.129	**0.141** J	<0.0361	0.0852 J
	KWB-8	Oct-17			<0.000260	<0.000418	0.00112	<0.00100	0.617	0.0182	0.782	0.00515 J	0.134	**0.0519**	0.00209	0.0217
	KWB-10R	Apr-15			<0.00260	<0.00420	0.00673 J	**<0.0100**	0.528	0.0484	1.04	<0.0380	**3.87**	**0.138**	0.0113	0.069
	KWB-10R	Oct-15			<0.000260	<0.000418	0.00543	<0.00100	0.523	0.0478	0.828	<0.00382	**4.66**	**0.186**	0.01	0.0699
	KWB-10R	Apr-16			<0.0130	**<0.0209**	<0.0175	**<0.0500**	0.437	0.0442 J	0.645	<0.00382	**3.71**	**0.150** J	<0.0180	0.0616
	KWB-10R	Oct-16			<0.00520	**<0.00836**	<0.00700	**<0.0200**	0.513	0.04	0.664	<0.00382	**3.62**	**0.133**	0.0099 J	0.0607
	KWB-10R	Apr-17			<0.0130	**<0.0209**	<0.0175	**<0.0500**	0.505	0.0486 J	0.716	<0.191	**3.65**	**0.156** J	<0.0180	0.0714
	KWB-10R	Oct-17			<0.000260	<0.000418	0.0184	<0.00100	0.530	0.0494	0.655	<0.00382	**5.41**	**0.152**	<0.000361	0.0748
	KWB-11A	Apr-15			<0.000260	<0.000420	0.000951 J	0.00102 J	<0.000380	<0.000330	0.00188	<0.00380	0.00648	0.0233	<0.000360	<0.000350
	KWB-11A	Oct-15			<0.000260	<0.000418	0.000552 J	<0.00100	<0.000384	0.00301	0.0013	<0.00382	0.00434	0.0165	0.00126	<0.000349
	KWB-11A	Apr-16			<0.000260	<0.000418	0.000374 J	<0.00100	<0.000384	0.000412 J	<0.000719	<0.00382	0.00477	0.0134	0.00134	<0.000349
	KWB-11A	Oct-16			<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	0.00244	0.0011	<0.00382	0.00416	0.00936 J4	0.000858 J	<0.000349
	KWB-11A	Apr-17			<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	<0.000367	0.00841	<0.000361	<0.000349
	KWB-11A	Oct-17			<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	0.00518	0.000852 J	<0.00382	0.00273	0.00563	0.00151	0.000796 J
	KWB-11B	Apr-15			<0.000260	<0.000420	<0.000350	0.00106 J	<0.000380	<0.000330	<0.000720	<0.00380	0.00121	<0.00100	<0.000360	<0.000350
	KWB-11B	Oct-15			<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	<0.000367	<0.00100	<0.000361	<0.000349
	KWB-11B	Apr-16			<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	<0.000367	<0.00100	<0.000361	<0.000349
	KWB-11B	Oct-16			<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	<0.000367	0.00153 JJ4	<0.000361	<0.000349
	KWB-11B	Apr-17			<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	<0.000367	<0.00100	<0.000361	<0.000349
	KWB-11B	Oct-17			<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	0.000565 J	<0.00100	<0.000361	<0.000349
	KWB-12A	Apr-15			<0.000260	<0.000420	<0.000350	<0.00100	<0.000380	<0.000330	<0.000720	<0.00380	<0.000370	<0.00100	<0.000360	<0.000350
	KWB-12A	Apr-15	FD		<0.000260	<0.000420	<0.000350	<0.00100	<0.000380	<0.000330	<0.000720	<0.00380	<0.000370	<0.00100	<0.000360	<0.000350
	KWB-12A	Oct-15			<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	<0.000367	<0.00100	<0.000361	<0.000349
	KWB-12A	Apr-16			<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	<0.000367	<0.00100	<0.000361	<0.000349
	KWB-12A	Oct-16			<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	<0.000367	<0.00100	<0.000361	<0.000349
	KWB-12A	Apr-17			<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	<0.000367	<0.00100	<0.000361	<0.000349
	KWB-12A	Oct-17			<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	<0.000367	<0.00100	<0.000361	<0.000349
	KWB-12B	Apr-15			<0.000260	<0.000420	<0.000350	<0.00100	<0.000380	<0.000330	<0.000720	<0.00380	<0.000370	<0.00100	<0.000360	<0.000350
	KWB-12B	Oct-15			<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	<0.000367	<0.00100	<0.000361	<0.000349
	KWB-12B	Oct-15	FD		<0.000260	<0.000418	<0.000350	<0.00100 J	<0.000384	<0.000326	0.00157	<0.00382	<0.000367	<0.00100	<0.000361	<0.000349
	KWB-12B	Apr-16			<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	<0.000367	<0.00100	<0.000361	<0.000349
	KWB-12B	Apr-16	FD		<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	<0.000367	<0.00100	<0.000361	<0.000349
	KWB-12B	Oct-16			<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	<0.000367	<0.00100	<0.000361	<0.000349
	KWB-12B	Oct-16	FD		<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	0.000337 J	<0.000719	<0.00382	<0.000367	0.0139	<0.000361	0.000638 J
	KWB-12B	Apr-17			<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	<0.000367	<0.00100	<0.000361	<0.000349
	KWB-12B	Apr-17	FD		<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	<0.000367	<0.00100	<0.000361	<0.000349
	KWB-12B	Oct-17			<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	<0.000367	<0.00100	<0.000361	<0.000349
	KWB-12B	Oct-17	FD		<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	<0.000367	<0.00100	<0.000361	<0.000349
	KWB-P4	Apr-13			<0.00500	**<0.00500**	<0.00500	**<0.0100**	<0.00500	<0.00500	<0.0100	<0.0100	<0.00500	<0.00500	<0.00500	<0.00500
	KWB-P4	Apr-15			<0.000260	<0.000420	<0.000350	<0.00100	<0.000380	<0.000330	<0.000720	<0.00380	<0.000370	<0.00100	<0.000360	<0.000350
	KWB-P4	Apr-17			<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	<0.000367	<0.00100	<0.000361	<0.000349
	MW-57	Apr-15			<0.000260	<0.000420	<0.000350	<0.00100	0.000667 J	<0.000330	0.00141	<0.00380	<0.000370	0.00156 J	<0.000360	<0.000350
	MW-57	Oct-15			<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	<0.000367	<0.00100	<0.000361	<0.000349
	MW-57	Apr-16			<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	<0.000367	<0.00100	<0.000361	<0.000349
	MW-57	Oct-16			<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	<0.000367	<0.00100 J4	<0.000361	<0.000349
	MW-57	Apr-17			<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	<0.000367	<0.00100	<0.000361	<0.000349
	MW-57	Oct-17			<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	<0.000367	0.00273 J	<0.000361	<0.000349
	MW-58	Apr-15			<0.00260	<0.00420	0.0077 J	**<0.0100**	**1.98**	0.0732	2.08	<0.0380	0.0187	**0.318**	0.00921 J	0.112
	MW-58	Oct-15			<0.0260	**<0.0418**	<0.0350	**<0.100**	**2.00**	0.072 J	2.12	<0.382	<0.0367	**0.354** J	<0.0361	0.125
	MW-58	Apr-16			<0.00260	<0.00418	0.00813 J	**<0.0100**	**1.11**	0.0594	0.83	<0.00382	**0.200**	**0.257**	0.00944 J	0.105
	MW-58	Oct-16			<0.000260	<0.000418	0.00572	<0.00100	**1.10**	0.053	0.873	<0.00382	0.0468	**0.0867**	0.00517	0.093
	MW-58	Apr-17			<0.0260	**<0.0418**	<0.0350	**<0.100**	**0.720**	0.0511 J	0.533	<0.382	<0.0367	**0.191** J	<0.0361	0.091 J
	MW-58	Oct-17			<0.000260	<0.000418	0.00399	<0.00100	0.0965	0.0456	0.22	<0.00382	0.0987	**0.0469**	0.00529	0.0842
	MW-111	Apr-15			<0.000260	<0.000420	<0.000350	<0.00100	0.00824	0.000607 J	0.00723	<0.00380	<0.000370	0.00294 J	<0.000360	0.000827 J
	MW-111	Oct-15			<0.000260	<0.000418	<0.000350	<0.00100	0.00615	0.000862 J	0.00113	<0.00382	**1.32**	0.00645	<0.000361	0.000839 J
	MW-111	Apr-16			<0.000260	<0.000418	<0.000350	<0.00100	0.00122	0.000887 J	<0.000719	<0.00382	**1.54**	<0.00100	<0.000361	0.00069 J
	MW-111	Oct-16			<0.000260	<0.000418	<0.000350	<0.00100	0.00226	0.00062 J	0.00177 J	<0.00382	**1.29**	0.00103 J	<0.000361	0.000601 J
	MW-111	Apr-17			<0.000260	<0.000418	<0.000350	<0.00100	0.000432 J	0.00163	0.00237	<0.00382	**0.955**	0.00310 J	<0.000361	0.000769 J
	MW-111	Oct-17			<0.000260	<0.000418	<0.000350	<0.00100	<0.0384	0.00112	<0.0719	<0.00382	**1.40**	0.00175 J	<0.000361	0.000622 J
	MW-113	Apr-15			<0.000260	<0.000420	<0.000350	0.00114 J	<0.000380	<0.000330	<0.000720	<0.00380	0.0178	<0.00100	<0.000360	<0.000350
	MW-113	Apr-15	FD		<0.000260	<0.000420	<0.000350	<0.00100	<0.000380	<0.000330	<0.000720	<0.00380	0.0158	<0.00100	<0.000360	<0.000350
	MW-113	Oct-15			<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	0.0158	<0.00100	<0.000361	<0.000349
	MW-113	Oct-15	FD		<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	0.000723 J	<0.00382	0.0176	<0.00100	<0.000361	<0.000349
	MW-113	Apr-16			<0.000260	<0.000418	<0.000350	<0.00100	0.00354	<0.000326	0.00518	<0.00382	0.0143	<0.00100	<0.000361	<0.000349
	MW-113	Apr-16	FD		<0.000260	<0.000418	<0.000350	<0.00100	0.00364	<0.000326	0.00531	<0.00382	0.0143	<0.00100	<0.000361	<0.000349
	MW-113	Oct-16			<0.000260	<0.000418	<0.000350	<0.00100	0.0199	0.0014	0.0143	<0.00382	0.0137	0.00208 JJ4	<0.000361	0.00181
	MW-113	Oct-16	FD		<0.000260	<0.000418	<0.000350	<0.00100	0.0175	0.00137	0.0127	<0.00382	0.0143	0.00200 JJ4	<0.000361	0.00163
	MW-113	Apr-17			<0.000260	<0.000418	<0.000350	<0.00100	0.00840	0.000441 J	0.0133	<0.00382	0.0147	0.00157 J	<0.000361	0.000359 J
	MW-113	Apr-17	FD		<0.000260	<0.000418	<0.000350	<0.00100	0.00937	0.000513 J	0.0148	<0.00382	0.0140	0.00176 J	<0.000361	0.000359 J
	MW-113	Oct-17			<0.000260	<0.000418	<0.000350	<0.00100	0.0269	0.00565	0.0279	<0.00382	0.0123	0.00420 J	<0.000361	0.00456
	MW-113	Oct-17	FD		<0.000260	<0.000418	<0.000350	<0.00100	0.0215	0.00546	0.0234	<0.00382	0.0117	0.00399 J	<0.000361	0.00444
	MW-125	Apr-15			<0.000260	<0.000420	<0.000350	<0.00100	<0.000380	<0.000330	<0.000720	<0.00380	<0.000370	<0.00100	<0.000360	<0.000350
	MW-125	Oct-15			<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	<0.000367	<0.00100	<0.000361	<0.000349
	MW-125	Apr-16			<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	<0.000367	<0.00100	<0.000361	<0.000349
	MW-125	Oct-16			<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	<0.000367	<0.00100	<0.000361	<0.000349
	MW-125	Apr-17			<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	<0.000367	<0.00100	<0.000361	<0.000349
	MW-125	Oct-17			<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	<0.000367	<0.00100	<0.000361	<0.000349
	MW-126A	Apr-15			<0.000260	<0.000420	<0.000350	<0.00100	<0.000380	<0.000330	<0.000720	<0.00380	<0.000370	<0.00100	<0.000360	<0.000350
	MW-126A	Oct-15			<0.000260	<0.000418	<0.000350	<0.00100	0.00475	0.0208	0.0103	<0.00382	<0.000367	<0.00100	<0.000361	0.0104
	MW-126A	Apr-16			<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	0.000495 J	<0.000719	<0.00382	<0.000367	<0.00100	<0.000361	<0.000349
	MW-126A	Oct-16			<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	0.0591	<0.000719	<0.00382	<0.000367	<0.00100 J4	<0.000361	0.00794
	MW-126A	Apr-17			<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	0.00333	0.00141 J	<0.00382	<0.000367	<0.00100	<0.000361	0.00226
	MW-126A	Oct-17			<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	0.000649 J	<0.000719	<0.00382	<0.000367	<0.00100	<0.000361	<0.000349
	MW-126B	Apr-15			<0.000260	<0.000420	<0.000350	<0.00100	<0.000380	<0.000330	<0.000720	<0.00380	<0.000370	<0.00100	<0.000360	<0.000350
	MW-126B	Oct-15			<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	<0.000367	<0.00100	<0.000361	<0.000349
	MW-126B	Apr-16			<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	<0.000367	<0.00100	<0.000361	<0.000349
	MW-126B	Oct-16			<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	0.000426 J	<0.000719	<0.00382	<0.000367	<0.00100 J4	<0.000361	<0.000349
	MW-126B	Apr-17			<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	<0.000367	<0.00100	<0.000361	<0.000349
	MW-126B	Oct-17			<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	<0.000367	<0.00100	<0.000361	<0.000349
	MW-127	Apr-15			<0.000260	<0.000420	0.00159	<0.00100	0.424	0.0213	0.153	<0.00380	**0.868**	**0.0658**	0.00251	0.0335
	MW-127	Oct-15			<0.00520	**<0.00836**	<0.00700	**<0.0200**	0.299	0.0183 J	0.0856	<0.0764	**0.730**	**0.0415** J	<0.00722	0.0305
	MW-127	Apr-16			<0.000260	<0.000418	<0.000350	<0.00100	0.348	0.0198	0.112	<0.00382	**0.629**	**0.0425**	0.00229	0.0325
	MW-127	Oct-16			<0.00260	<0.00418	<0.00350	**<0.0100**	0.120	0.012	0.0387	<0.00382	**0.575**	<0.0100 J4	<0.00361	0.0189
	MW-127	Apr-17			<0.000260	<0.000418	0.00108	<0.00100	0.186	0.0193	0.0711	<0.00382	**0.525**	0.0175	0.00216	0.0337
	MW-127	Oct-17			<0.000260	<0.000418	<0.000350	<0.00100	0.0937	0.013	0.0445	<0.00382	**0.885**	0.00901	<0.000361	0.0185
	MW-128	Apr-15			<0.000260	<0.000420	<0.000350	<0.00100	0.0114	0.0031	0.00326	<0.00380	**1.60**	0.00346 J	0.000372 J	0.00369
	MW-128	Oct-15			<0.00520	**<0.00836**	<0.00700	**<0.0200**	<0.00768	<0.00652	<0.0144	<0.0764	**0.860**	<0.0200	<0.00722	<0.00698
	MW-128	Apr-16			<0.000260	<0.000418	<0.000350	<0.00100	0.00494	0.00111	0.00153	<0.00382	**0.846**	0.00104 J	<0.000361	0.00135
	MW-128	Oct-16			<0.000260	<0.000418	<0.000350	<0.00100	0.00408	0.000965 J	0.0037	<0.00382	**0.832**	0.00225 J	<0.000361	0.00136
	MW-128	Apr-17			<0.000260	<0.000418	<0.000350	<0.00100	0.00166	0.00124	0.00159 J	<0.00382	**0.821**	0.00140 J	<0.000361	0.00181
	MW-128	Oct-17			<0.000260	<0.000418	<0.000350	<0.00100	0.00128	0.00133	0.00336	<0.00382	**0.785**	0.00142 J	<0.000361	0.0017

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

2017 Annual Groundwater Monitoring Report

HollyFrontier Navajo Refining LLC, Artesia Refinery, Artesia, New Mexico

				Analyte Group:	Volatile Organic Compounds												
				Analyte:	cis-1,2-Dichloroethene	cis-1,3-Dichloropropene	Cymene	Dichloromethane	Ethylbenzene	Isopropylbenzene	m,p-Xylene	Methyl N-Butyl Ketone	MTBE	Naphthalene	N-Butylbenzene	N-Propylbenzene
				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:	0.07	0.0047	---	0.005	0.7	0.447	---	---	0.143	0.03	---	---
				CGWSL Source:	USEPA MCL	USEPA TW		USEPA MCL	USEPA MCL	WQCC TW			WQCC TW	WQCC HH		
Area	**Well ID**	**Date**	**Dup**														
Field East of Refinery	MW-129	Apr-15		<0.000260	<0.000420	<0.000350	<0.00100	0.00131	0.00198	0.00245	<0.00380	**7.04**	0.00407 J	0.000458 J	0.000956 J
	MW-129	Oct-15		<0.0260	**<0.0418**	<0.0350	**<0.100**	<0.0384	<0.0326	<0.0719	<0.382	**5.79**	**<0.100**	<0.0361	<0.0349
	MW-129	Apr-16		<0.000260	<0.000418	<0.000350	<0.00100	<0.0192	0.00172	0.00199	<0.00382	**4.59**	0.00534	0.000444 J	0.000863 J
	MW-129	Oct-16		<0.000260	<0.000418	<0.000350	<0.00100	0.000985 J	0.00144	0.00124	<0.00382	**4.73**	0.00186 JJ4	<0.000361	0.000383 J
	MW-129	Apr-17		<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	0.000976 J	0.000737 J	<0.00382	**4.34**	0.00247 J	<0.000361	<0.000349
	MW-130	Apr-15		<0.000260	<0.000420	<0.000350	<0.00100	<0.000380	<0.000330	<0.000720	<0.00380	0.000510 J	<0.00100	<0.000360	<0.000350
	MW-130	Oct-15		<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	0.000449 J	<0.00100	<0.000361	<0.000349
	MW-130	Apr-16		<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	0.000538 J	<0.00100	<0.000361	<0.000349
	MW-130	Oct-16		<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	0.00130	0.00112 J	<0.000361	<0.000349
	MW-130	Apr-17		<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	0.00130	<0.00100	<0.000361	<0.000349
	MW-130	Oct-17		<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	0.00136	<0.00100	<0.000361	<0.000349
	MW-131	Apr-15		<0.000260	<0.000420	0.00103	<0.00100	0.0692	0.0162	0.084	<0.00380	**5.23**	**0.0468**	0.00368	0.028
	MW-131	Oct-15		<0.000260	<0.000418	0.00105	<0.00100	0.0480	0.022	0.0615	<0.00382	**4.54**	**0.0589**	0.00375	0.037
	MW-131	Apr-16		<0.000260	<0.000418	0.000697 J	<0.00100	0.0535	0.0183	0.0513	<0.00382	**3.69**	**0.0353**	0.00308	0.0315
	MW-131	Oct-16		<0.00130	<0.00209	<0.00175	<0.00500	0.0324	0.015	0.0431	<0.0191	**4.09**	0.0135 JJ4	0.00183 J	0.0241
	MW-131	Apr-17		<0.000260	<0.000418	0.000554 J	<0.00100	0.0532	0.0206	0.0735	<0.00382	**3.99**	0.0295	0.00255	0.0338
	MW-131	Oct-17		<0.000260	<0.000418	0.000701 J	<0.00100	<0.0960	0.0162	<0.180	<0.00382	**5.25**	**0.0303**	0.00185	0.0262
	MW-133	Nov-14		<0.0260	**<0.0420**	<0.0350	**<0.100**	0.300	0.057 J	0.18 J	<0.380	**5.60**	**<0.100**	<0.0360	0.084 J
	MW-133	Apr-15		<0.0260	**<0.0420**	<0.0350	**<0.100**	0.199	<0.0330	0.108	<0.380	**6.67**	**<0.100**	<0.0360	0.0451 J
	MW-134	Apr-15		<0.000260	<0.000420	<0.000350	0.00122 J	<0.000380	<0.000330	<0.000720	<0.00380	<0.000370	<0.00100	<0.000360	<0.000350
	MW-134	Apr-15	FD	<0.000260	<0.000420	<0.000350	<0.00100	<0.000380	<0.000330	<0.000720	<0.00380	<0.000370	<0.00100	<0.000360	<0.000350
	MW-134	Oct-15		<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	<0.000367	<0.00100	<0.000361	<0.000349
	MW-134	Oct-15	FD	<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	<0.000367	<0.00100	<0.000361	<0.000349
	MW-134	Apr-16		<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	<0.000367	<0.00100	<0.000361	<0.000349
	MW-134	Apr-16	FD	<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	<0.000367	<0.00100	<0.000361	<0.000349
	MW-134	Oct-16		<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	<0.000367	<0.00100	<0.000361	<0.000349
	MW-134	Oct-16	FD	<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	<0.000367	<0.00100	<0.000361	<0.000349
	MW-134	Apr-17		<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	<0.000367	<0.00100	<0.000361	<0.000349
	MW-134	Apr-17	FD	<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	<0.000367	<0.00100	<0.000361	<0.000349
	MW-134	Oct-17		<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	<0.000367	<0.00100	<0.000361	<0.000349
	MW-134	Oct-17	FD	<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	<0.000367	<0.00100	<0.000361	<0.000349
	MW-135	Apr-15		<0.000260	<0.000420	<0.000350	<0.00100	<0.000380	<0.000330	<0.000720	<0.00380	0.000829 J	<0.00100	<0.000360	<0.000350
	MW-135	Oct-15		<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	0.000608 J	<0.00100	<0.000361	<0.000349
	MW-135	Apr-16		<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	0.00197	<0.00100	<0.000361	<0.000349
	MW-135	Oct-16		<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	0.000685 J	<0.00100 J4	<0.000361	<0.000349
	MW-135	Apr-17		<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	<0.000367	<0.00100	<0.000361	<0.000349
	MW-135	Oct-17		<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	<0.000367	<0.00100	<0.000361	<0.000349
	RA-4196	Apr-15		<0.000260	<0.000420	<0.000350	0.00114 J	<0.000380	<0.000330	<0.000720	<0.00380	0.00173	<0.00100	<0.000360	<0.000350
	RA-4196	Oct-15		<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	0.00394	<0.00100	<0.000361	<0.000349
	RA-4196	Apr-16		<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	0.00507	<0.00100	<0.000361	<0.000349
	RA-4196	Oct-16		<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	0.00657	<0.00100 J4	<0.000361	<0.000349
	RA-4196	Apr-17		<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	0.00618	<0.00100	<0.000361	<0.000349
	RA-4196	Oct-17		<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	0.00763	<0.00100	<0.000361	<0.000349
	RA-4798	Apr-15		<0.000260	<0.000420	<0.000350	0.00127 J	<0.000380	<0.000330	<0.000720	<0.00380	0.0163	<0.00100	<0.000360	<0.000350
	RA-4798	Oct-15		<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	0.00858	<0.00100	<0.000361	<0.000349
	RA-4798	Apr-16		<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	0.0121	<0.00100	<0.000361	<0.000349
	RA-4798	Oct-16		<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	0.0124	<0.00100 J4	<0.000361	<0.000349
	RA-4798	Apr-17		<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	0.00360	<0.00100	<0.000361	<0.000349
	RA-4798	Oct-17		<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	0.00889	<0.00100	<0.000361	<0.000349
	RW-12R	Apr-16		<0.00130	<0.00209	<0.00175	<0.00500	0.00606	0.0359	0.014	<0.0191	0.00568	<0.00500	<0.00180	0.0482
	RW-12R	Apr-17		<0.00130	<0.00209	0.00214 J	<0.00500	0.00823	0.0591	0.0239	<0.0191	0.00210 J	0.00877 J	<0.00180	0.0809
	RW-13R	Apr-16		<0.000260	<0.000418	0.000561 J	<0.00100	0.0691	0.0117	0.0939	<0.00382	0.0779	0.0148	0.00124	0.0183
	RW-18	Apr-14		<0.00060	<0.000600	<0.000500	<0.00100	<0.000500	<0.000500	<0.000600	<0.00100	<0.000600	<0.000700	<0.00100	<0.000500
	RW-18	Apr-15		<0.000260	<0.000420	<0.000350	<0.00100	<0.000380	<0.000330	<0.000720	<0.00380	<0.000370	<0.00100	<0.000360	<0.000350
	RW-18	Apr-16		<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	<0.000367	<0.00100	<0.000361	<0.000349
	RW-18	Apr-17		<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	<0.000367	<0.00100	<0.000361	<0.000349
	RW-20	Apr-15		<0.00260	<0.00420	0.00401 J	**<0.0100**	**0.973**	0.0456	1.3	<0.0380	**0.209**	**0.183**	0.00846 J	0.098
	RW-22	Apr-15		<0.00260	<0.00420	0.00521 J	**<0.0100**	**1.09**	0.0525	0.85	<0.0380	**0.178**	**0.164**	0.00856 J	0.103
North Refinery	MW-23	Apr-15		<0.00650	**<0.0100**	<0.00880	**<0.0250**	0.146	0.0652	1.19	<0.0960 J	0.0253	**0.150** J	<0.00900	0.0952
	MW-23	Oct-15		<0.000260	<0.000418	0.000898 J	<0.00100	0.519	0.121	0.00568	<0.00382	0.0200	**0.213** J	0.0134	0.181
	MW-23	Apr-16		<0.00130	<0.00209	<0.00175	<0.00500	0.179	0.161	0.0147	<0.0191	0.0297	**0.193**	0.0254	0.268
	MW-23	Oct-16		<0.00650	**<0.0104**	<0.00875	**<0.0250**	0.168	0.124	<0.0180	<0.0955	0.0433	**0.220**	0.0257	0.216
	MW-23	Apr-17		<0.000260	<0.000418	0.000602 J	<0.00100	0.0958	0.144	0.00361	<0.00382	0.0270	**0.190**	0.0169	0.137
	MW-23	Oct-17		<0.000260	<0.000418	0.000379 J	<0.00100	0.0421	0.125	0.00327	<0.00382	0.0203	**0.137**	0.0136	0.169
	MW-29	Apr-15		<0.000260	<0.000420	<0.000350	<0.00100	<0.000380	0.00109	<0.000720	<0.00380	<0.000370	<0.00100	<0.000360	<0.000350
	MW-29	Oct-15		<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	0.000961 J	<0.000719	<0.00382	<0.000367	<0.00100	<0.000361	<0.000349
	MW-29	Apr-16		<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	<0.000367	<0.00100	<0.000361	<0.000349
	MW-29	Oct-16		<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	0.000398 J	<0.000719	<0.00382	0.000424 J	<0.00100	<0.000361	<0.000349
	MW-29	Apr-17		<0.000260	<0.000418	0.00281	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	<0.000367	<0.00100	<0.000361	<0.000349
	MW-29	Oct-17		<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	0.000739 J	<0.000719	<0.00382	0.000990 J	<0.00100	<0.000361	<0.000349
	MW-39	Apr-15		<0.000260	<0.000420	<0.000350	<0.00100	0.000713 J	0.00675	0.00121	<0.00380	<0.000370	<0.00100	<0.000360	<0.000350
	MW-39	Oct-15		<0.000260	<0.000418	<0.000350	<0.00100	0.000727 J	0.006	0.00115	<0.00382	<0.000367	0.00583	<0.000361	<0.000349
	MW-39	Apr-16		<0.00650	**<0.0104**	<0.00875	**<0.0250**	0.0211 J	0.0339	0.145	<0.0955	<0.00918	<0.0250	<0.00902	0.0386
	MW-39	Oct-16		<0.0260	**<0.0418**	<0.0350	**<0.100**	<0.0384	0.0418 J	0.161	<0.382	<0.0367	**<0.100**	<0.0361	0.0499 J
	MW-39	Apr-17		<0.00260	<0.00418	<0.00350	**<0.0100**	0.0284	0.0449	0.141	<0.0382	0.00429 J	0.0158 J	0.00439 J	0.0579
	MW-39	Oct-17		<0.000260	<0.000418	0.00232	<0.00100	0.0206	0.0369	0.113	<0.00382	0.00243	0.00239 J	0.00371	0.0449
	MW-40	Apr-14		<0.00060	<0.000600	<0.000500	<0.00100	<0.000500	0.047	0.0056 J	<0.00100	<0.000600	0.00280 J	<0.00100	0.0062
	MW-40	Apr-15		<0.000260	<0.000420	<0.000350	<0.00100	0.000399 J	0.0308	0.00606	<0.00380	<0.000370	<0.00100	<0.000360	0.00319
	MW-40	Apr-16		<0.000260	<0.000418	<0.000350	<0.00100	0.000609 J	0.0775	0.0144	<0.00382	<0.000367	<0.00100	0.00077 J	0.00468
	MW-40	Apr-17		<0.000260	<0.000418	0.000356 J	<0.00100	0.000721 J	0.0804	0.0117	<0.00382	<0.000367	<0.00100	<0.000361	0.00806
	MW-41	Apr-14		<0.00060	<0.000600	<0.000500	<0.00100	<0.000500	0.014	<0.000600	<0.00100	0.00360 J	0.00260 J	<0.00100	<0.000500
	MW-41	Apr-15		<0.000260	<0.000420	<0.000350	<0.00100	<0.000380	0.00844	<0.000720	<0.00380	0.00440	<0.00100	<0.000360	<0.000350
	MW-41	Apr-16		<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	0.017	<0.000719	<0.00382	0.00384	<0.00100	<0.000361	0.00125
	MW-41	Apr-17		<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	0.0148	<0.000719	<0.00382	0.00380	<0.00100	<0.000361	0.000572 J
	MW-42	Apr-14		<0.00060	<0.000600	0.0011 J	<0.00100	0.00300 J	0.039	0.11	<0.00100	0.0220	0.00430 J	<0.00100	0.033
	MW-42	Apr-15		<0.00260	<0.00420	<0.00350	**0.0106** J	<0.00380	0.0326	0.0484	<0.0380	0.0145	<0.0100	<0.00360	0.0205
	MW-42	Apr-16		<0.00130	<0.00209	<0.00175	<0.00500	<0.00192	0.0325	0.038	<0.00382	0.0114	<0.00500	<0.00180	0.0138
	MW-42	Apr-17		<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	0.0278	0.00365	<0.0191	0.0104	<0.00100	<0.000361	0.00355
	MW-43	Apr-15		<0.00260	<0.00420	<0.00350	**<0.0100** J	0.0483	0.0617	0.278	<0.0380 J	0.0162	<0.0100 J	0.00396 J	0.0702
	MW-43	Oct-15		<0.00260	<0.00418	<0.00350	**<0.0100**	0.179	0.0642	1.15	<0.0382	0.0274	**0.212**	0.00458 J	0.0949
	MW-43	Apr-16		<0.0650	**<0.104**	<0.0875	**<0.250**	**0.968**	<0.0815	1.23	<0.955	<0.0918	**<0.250**	<0.0902	0.11 J
	MW-43	Oct-16		<0.0650	**<0.104**	<0.0875	**<0.250**	**0.810**	<0.0815	1.26	<0.955	<0.0918	**<0.250**	<0.0902	0.0908 J
	MW-43	Apr-17		<0.0130	**<0.0209**	<0.0175	**<0.0500**	0.445	0.0668	1.26	<0.191	0.0484 J	**0.163** J	<0.0180	0.112
	MW-43	Oct-17		<0.0130	**<0.0209**	<0.0175	**<0.0500**	0.197	0.0878	1.34	<0.191	0.0578	**0.305**	0.0299 J	0.164
	MW-59	Apr-14		<0.00060	<0.000600	<0.000500	<0.00100	<0.000500	0.0061	<0.000600	<0.00100	<0.000600	<0.000700	<0.00100	0.00066 J
	MW-59	Apr-15		<0.000260	<0.000420	<0.000350	<0.00100	<0.000380	0.00736	<0.000720	<0.00380	<0.000370	<0.00100	<0.000360	0.000389 J
	MW-59	Apr-16		<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	0.0111	<0.000719	<0.00382	<0.000367	<0.00100	<0.000361	0.000518 J
	MW-59	Apr-17		<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	0.0175	<0.000719	<0.00382	<0.000367	<0.00100	<0.000361	0.000538 J
	MW-60	Apr-15		<0.000260	<0.000420	<0.000350	<0.00100	0.000627 J	0.0148 J	0.0028	<0.00380	<0.000370	<0.00100	<0.000360	0.00228
	MW-60	Apr-15	FD	<0.000260	<0.000420	<0.000350	<0.00100	0.000450 J	0.00798 J	0.00163	<0.00380	<0.000370	<0.00100	<0.000360	0.00113
	MW-60	Oct-15		<0.000260	<0.000418	<0.000350	<0.00100	0.000394 J	0.0182	0.00176	<0.00382	<0.000367	<0.00100	<0.000361	0.0012
	MW-60	Oct-15	FD	<0.000260	<0.000418	<0.000350	<0.00100	0.000395 J	0.0179	0.00181	<0.00382	<0.000367	<0.00100	<0.000361	0.00128
	MW-60	Apr-16		<0.000260	<0.000418	<0.000350	<0.00100	0.000604 J	0.0194	0.00283	<0.00382	<0.000367	<0.00100	<0.000361	0.00162
	MW-60	Apr-16	FD	<0.000260	<0.000418	<0.000350	<0.00100	0.000533 J	0.0162	0.00272	<0.00382	<0.000367	<0.00100	<0.000361	0.00159

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

2017 Annual Groundwater Monitoring Report

HollyFrontier Navajo Refining LLC, Artesia Refinery, Artesia, New Mexico

				Analyte Group:	Volatile Organic Compounds												
				Analyte:	cis-1,2-Dichloroethene	cis-1,3-Dichloropropene	Cymene	Dichloromethane	Ethylbenzene	Isopropylbenzene	m,p-Xylene	Methyl N-Butyl Ketone	MTBE	Naphthalene	N-Butylbenzene	N-Propylbenzene
				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:	0.07	0.0047	---	0.005	0.7	0.447	---	---	0.143	0.03	---	---
				CGWSL Source:	USEPA MCL	USEPA TW		USEPA MCL	USEPA MCL	WQCC TW			WQCC TW	WQCC HH		
Area	**Well ID**	**Date**	**Dup**													
North Refinery	MW-60	Oct-16		<0.000260	<0.000418	<0.000350	<0.00100	0.000935 J	0.0182	0.00736	<0.00382	<0.000367	<0.00100	0.000962 J	0.00398
	MW-60	Oct-16	FD	<0.000260	<0.000418	<0.000350	<0.00100	0.000825 J	0.0169	0.00552	<0.00382	<0.000367	<0.00100	0.000804 J	0.00274
	MW-60	Apr-17		<0.000260	<0.000418	<0.000350	<0.00100	0.000481 J	0.0178	0.00195 J	<0.00382	<0.000367	<0.00100	<0.000361	0.00101
	MW-60	Apr-17	FD	<0.000260	<0.000418	<0.000350	<0.00100	0.000556 J	0.0174	0.0024	<0.00382	<0.000367	<0.00100	<0.000361	0.00135
	MW-60	Oct-17		<0.000260	<0.000418	<0.000350	<0.00100	0.00137	0.0204	0.00622	<0.00382	<0.000367	<0.00100	<0.000361	0.0022
	MW-60	Oct-17	FD	<0.000260	<0.000418	<0.000350	<0.00100	0.00121	0.0182	0.00514	<0.00382	<0.000367	<0.00100	<0.000361	0.00193
	MW-61	Apr-15		<0.00260	<0.00420	0.00425 J	**<0.0100** J	0.209	0.122	1.68	<0.0380 J	<0.00370	**0.176** J	0.00782 J	0.201
	MW-61	Oct-15		<0.00260	<0.00418	0.00467 J	**<0.0100**	0.0659	0.107	0.369	<0.0382	<0.00367	**0.0668**	0.00529 J	0.137
	MW-61	Apr-16		<0.00130	<0.00209	0.00375 J	<0.00500	0.0292	0.0787	0.223	<0.0191	<0.00184	**0.0340**	0.00378 J	0.11
	MW-61	Oct-16		<0.00650	**<0.0104**	<0.00875	**<0.0250**	0.0353	0.104	0.225	<0.0955	<0.00918	**0.0335** J	<0.00902	0.145
	MW-61	Apr-17		<0.00650	**<0.0104**	<0.00875	**<0.0250**	0.0225 J	0.086	0.228	<0.0955	<0.00918	**0.0307** J	<0.00902	0.131
	MW-61	Oct-17		<0.000260	<0.000418	0.0057	<0.00100	0.0420	0.114	0.375	<0.00382	<0.000367	**0.0522**	0.00713	0.157
	MW-62	Apr-15		<0.00260	<0.00420	<0.00350	**<0.0100** J	0.457	0.112	0.0405	<0.0380 J	0.0151	**0.158** J	0.00986 J	0.167
	MW-62	Oct-15		<0.00520	**<0.00836**	<0.00700	**<0.0200**	0.163	0.138	1.72	<0.0764	<0.00734	**0.186**	0.00854 J	0.244
	MW-62	Apr-16		<0.00650	**<0.0104**	<0.00875	**<0.0250**	0.356	0.0729	1.8	<0.0955	<0.00918	**0.236**	<0.00902	0.132
	MW-62	Oct-16		<0.0260 J6	**<0.0418** J6	<0.0350 J6	**<0.100**	0.0535 JJ6	0.123 J6	1.14 J6	<0.382 J6	<0.0367 J6	**0.189** JJ6	<0.0361 J6	0.234 J6
	MW-62	Apr-17		<0.0130	**<0.0209**	<0.0175	**<0.0500**	0.248	0.107	1.13	<0.191	<0.0184	**0.204** J	<0.0180	0.22
	MW-62	Oct-17		<0.0260	**<0.0418**	<0.0350	**<0.100**	0.268	0.113	1.35	<0.382	<0.0367	**0.206** J	<0.0361	0.201
	MW-67	Apr-15		0.00198	<0.000420	0.00131	<0.00100	0.00447	0.0376	0.00291	<0.00380	**0.869**	<0.00100	0.00452	0.0234
	MW-67	Oct-15		<0.00520	**<0.00836**	<0.00700	**<0.0200**	<0.00768	0.0301	<0.0144	<0.0764	**0.924**	<0.0200	<0.00722	<0.00698
	MW-67	Apr-16		0.00527 J	<0.00418	<0.00341	**<0.0100**	0.00869 J	0.0321	<0.00719	<0.0382	**0.359**	<0.0100	<0.00361	0.012
	MW-67	Oct-16		0.00322 J	<0.00418	<0.00350	**<0.0100**	0.0124	0.0346	0.00797 J	<0.0382	**0.253**	0.0298 J	<0.00361	0.0167
	MW-67	Apr-17		0.00265	<0.00209	0.00186 J	<0.00500	0.0128	0.0361	0.0121	<0.0191	**0.195**	0.00571 J	0.00516	0.0225
	MW-67	Oct-17		0.00275	<0.000418	0.000487 J	<0.00100	0.00330	0.03	0.00245	<0.00382	**0.201**	<0.00100	0.00196	0.00976
	MW-90	Apr-15		<0.000260	<0.000420	<0.000350	<0.00100	0.000433 J	0.0185	<0.000720	<0.00380	0.00575	0.00178 J	<0.000360	0.00291
	MW-90	Oct-15		<0.000260	<0.000418	0.000725 J	<0.00100	<0.000384	0.0095	<0.000719	<0.00382	<0.000367	<0.00100	<0.000361	0.000834 J
	MW-90	Apr-16		0.000294 J	<0.000418	<0.000350	<0.00100	<0.000384	0.00803	<0.000719	<0.00382	<0.000367	0.00105 J	<0.000361	0.00142
	MW-90	Oct-16		<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	0.000752 J	<0.000719	<0.00382	<0.000367	<0.00100	<0.000361	<0.000349
	MW-90	Apr-17		<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	0.018	<0.000719	<0.00382	<0.000367	<0.00100	<0.000361	0.00336
	MW-90	Oct-17		<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	0.0337	<0.000719	<0.00382	<0.000367	<0.00100	0.000443 J	0.00447
	MW-91	Apr-15		<0.00260	<0.00420	0.00398 J	**<0.0100**	0.491	0.0876	0.702	<0.0380	<0.00370	**0.0490** J	<0.00360	0.0882
	MW-91	Oct-15		<0.00650	**<0.0104**	<0.00875	**<0.0250**	0.449	0.108	0.753	<0.0955	<0.00918	**0.0884** J	<0.00902	0.119
	MW-91	Apr-16		<0.0130	**<0.0209**	<0.0175	**<0.0500**	**0.899**	0.118	1.33	<0.191	<0.0184	**0.124** J	<0.0180	0.14
	MW-91	Oct-16		<0.0650	**<0.104**	<0.0875	**<0.250**	**0.816**	0.109 J	1.27	<0.955	<0.0918	**<0.250**	<0.0902	0.113 J
	MW-91	Apr-17		<0.0260	**<0.0418**	<0.0350	**<0.100**	0.473	0.108	0.832	<0.382	<0.0367	**<0.100**	<0.0361	0.114
	MW-91	Oct-17		<0.0260	**<0.0418**	<0.0350	**<0.100**	0.384	0.116	0.756	<0.382	<0.0367	**<0.100**	<0.0361	0.115
	MW-92	Apr-16		0.0640	<0.000418	0.00344	<0.00100	0.462	0.0373	0.161	<0.00382	0.113	**0.224** J	0.00634	0.051
	MW-92	Oct-16		**0.0968**	**<0.00836**	<0.00700	**<0.0200**	0.400	0.0242	0.0947	<0.0764	0.134	**0.174**	<0.00722	0.0329
	MW-93	Apr-15		<0.00260	<0.00420	0.00479 J	**<0.0100** J	0.0675	0.0425	0.31	<0.0380 J	<0.00370	**0.0554** J	0.00461 J	0.0625
	MW-93	Oct-15		<0.00260	<0.00418	<0.00350	**<0.0100**	0.0717	0.0518	0.483	<0.0382	<0.00367	**0.100**	0.00496 J	0.0743
	MW-93	Apr-16		<0.00130	<0.00209	<0.00175	<0.00500	0.0106	0.0119	0.0567	<0.0191	<0.00184	0.0113 J	<0.00180	0.00919
	MW-93	Oct-16		<0.00260	<0.00418	<0.00350	**<0.0100**	0.0114	0.0258	0.25	<0.0382	<0.00367	**0.0326** J	<0.00361	0.0309
	MW-93	Apr-17		<0.00650	**<0.0104**	<0.00875	**<0.0250**	<0.00960	0.0355	0.326	<0.0955	<0.00918	**0.0422** J	<0.00902	0.0491
	MW-94	Oct-15		<0.00260	<0.00418	0.0301	**<0.0100**	0.509	0.0646	0.214	<0.0382	**0.798**	**0.202**	0.0219	0.0923
	MW-94	Apr-16		0.0149 J	**<0.0209**	<0.0175	**<0.0500**	0.553	0.0776	0.228	<0.191	**0.621**	**0.228** J	0.0379 J	0.12
	MW-94	Oct-16		<0.00130	<0.00209	0.0163	<0.00500	0.564	0.0705	0.202	<0.0191	**2.01**	**0.128**	0.0207	0.104
	MW-94	Apr-17		<0.00650	**<0.0104**	0.0477	**<0.0250**	0.432	0.0621	0.168	<0.0955	**0.958**	**0.174**	0.0553	0.0909
	MW-95	Apr-14		<0.00060	<0.000600	<0.000500	<0.00100	<0.000500	0.0058	<0.000600	<0.00100	<0.000600	<0.000700	<0.00100	<0.000500
	MW-95	Apr-15		<0.000260	<0.000420	<0.000350	<0.00100	<0.000380	0.007	<0.000720	<0.00380	<0.000370	<0.00100	<0.000360	<0.000350
	MW-95	Apr-16		<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	0.0101	<0.000719	<0.00382	0.000379 J	<0.00100	<0.000361	<0.000349
	MW-95	Apr-17		<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	0.0114	<0.000719	<0.00382	<0.000367	<0.00100	<0.000361	<0.000349
	MW-96	Apr-15		<0.000260	<0.000420	0.000719 J	<0.00100	0.00172	0.055	0.00438	<0.00380	**35.0**	0.00126 J	0.00185	0.0395
	MW-96	Oct-15		**<0.130**	**<0.209**	<0.175	**<0.500**	<0.192	<0.163	<0.360	<1.91	**39.2**	**<0.500**	<0.180	<0.174
	MW-96	Apr-16		<0.00520	**<0.00836**	<0.00700	**<0.0200**	<0.00768	0.0853	<0.0144	<0.0764	**32.9**	<0.0200	<0.00722	0.0861
	MW-96	Oct-16		<0.0130	**<0.0209**	<0.0175	**<0.0500**	<0.0192	0.0675	<0.0360	<0.191	**39.6**	**<0.0500**	<0.0180	0.0551
	MW-96	Apr-17		<0.0130	**<0.0209**	<0.0175	**<0.0500**	<0.0192	0.0837	<0.0360	<0.191	**30.6**	**<0.0500**	<0.0180	0.0765
	MW-96	Oct-17		<0.0130	**<0.0209**	<0.0175	**<0.0500**	<0.0192	0.0852	<0.0360	<0.191	**40.0**	**<0.0500**	<0.0180	0.0664
	MW-98	Apr-15		<0.00650	**<0.0100**	<0.00880	**<0.0250** J	**0.927**	0.0716	1.7	<0.0960 J	<0.00920	**0.174** J	<0.00900	0.0968
	MW-98	Oct-15		<0.00650	**<0.0104**	<0.00875	**<0.0250**	0.659	0.0781	1.68	<0.0955	<0.00918	**0.237**	<0.00902	0.0981
	MW-98	Apr-16		<0.0260	**<0.0418**	<0.0350	**<0.100**	0.430	0.0409 J	0.865	<0.382	<0.0367	**0.139** J	<0.0361	0.0527 J
	MW-98	Oct-16		<0.0260	**<0.0418**	<0.0350	**<0.100**	0.698	0.071 J	1.37	<0.382	<0.0367	**<0.100**	<0.0361	0.08 J
	MW-98	Apr-17		<0.0260	**<0.0418**	<0.0350	**<0.100**	**1.05**	0.0745 J	1.84	<0.382	<0.0367	**0.239** J	<0.0361	0.111
	MW-98	Oct-17		<0.0130	**<0.0209**	<0.0175	**<0.0500**	**1.26**	0.0983	2.16	<0.191	<0.0184	**0.245** J	0.0211 J	0.134
	MW-137	Oct-15		<0.0260	**<0.0418**	<0.0350	**<0.100**	**1.59**	0.0997 J	0.681	<0.382	0.0606 J	**0.215** J	<0.0361	0.143
	MW-137	Apr-16		<0.0650	**<0.104**	<0.0875	**<0.250**	**1.65**	0.104 J	0.694	<0.955	<0.0918	**0.262** J	<0.0902	0.159 J
	MW-137	Oct-16		<0.0650	**<0.104**	<0.0875	**<0.250**	**1.54**	0.0962 J	0.757	<0.955	<0.0918	**<0.250**	<0.0902	0.136 J
	MW-137	Apr-17		<0.0520	**<0.0836**	<0.0700	**<0.200**	**1.58**	0.0899 J	0.727	<0.764	<0.0734	**0.272** J	<0.0722	0.142 J
	MW-137	Oct-17		<0.0520	**<0.0836**	<0.0700	**<0.200**	**1.53**	0.113 J	0.891	<0.764	0.0754 J	**0.317** J	<0.0722	0.18 J
	MW-138	Oct-15		<0.00520	**<0.00836**	<0.00700	**<0.0200**	0.569	0.0684	0.0339	<0.0764	0.0926	**0.0894** J	0.00966 J	0.0973
	MW-138	Apr-16		<0.00260	<0.00418	<0.00341	**<0.0100**	0.309	0.0759	0.00736 J	<0.0382	0.0955	**0.0959**	0.00732 J	0.0867
	MW-138	Oct-16		<0.00260	<0.00418	<0.00350	**<0.0100**	0.0149	0.064	<0.00719	<0.0382	0.0935	**0.0364** J	<0.00361	0.0664
	MW-138	Apr-17		<0.00260	<0.00418	<0.00350	**<0.0100**	0.0167	0.0602	<0.00719	<0.0382	0.125	**0.0639**	0.00404 J	0.0674
	MW-138	Oct-17		<0.00130	<0.00209	<0.00175	<0.00500	0.0244	0.0579	0.00565 J	<0.0191	**0.163**	**0.0635**	0.00606	0.0697
	RW-1	Apr-15		**1.02**	**<0.0210**	<0.0180	**<0.0500**	0.0470 J	<0.0160	0.0365 J	<0.190	<0.0180	**<0.0500**	<0.0180	0.0175 J
	RW-1R	Apr-16		**2.14**	<0.000418	<0.000350	<0.00100	0.0214	<0.000326	0.0111	<0.00382	0.0133	0.00762	0.000511 J	0.00513
	RW-1R	Apr-17		**0.624**	<0.00418	<0.00350	**<0.0100**	0.0169	0.00424 J	0.00743 J	<0.0382	0.0441	<0.0100	0.00401 J	0.00361 J
	RW-2	Apr-15		**0.619**	<0.00420	0.00554 J	**<0.0100** J	**1.02**	0.0551	0.445	<0.0380 J	<0.00370	**0.157** J	0.0106	0.0813
	RW-2R	Apr-16		**0.555**	**<0.0209**	<0.0175	**<0.0500**	0.591	0.0332 J	0.253	<0.191	0.0226 J	**0.145** J	<0.0180	0.0412 J
	RW-2R	Apr-17		**0.828**	**<0.0209**	<0.0175	**<0.0500**	**0.837**	0.0533	0.413	<0.191	<0.0184	**0.145** J	<0.0180	0.0816
	RW-7	Apr-15		<0.000260	<0.000420	0.00705	<0.00100	0.0185	0.0362	0.035	<0.00380	0.0122	0.0112	0.0066	0.0441
	RW-7R	Apr-16		<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	0.0687	<0.00100	<0.000361	<0.000349
	RW-7R	Apr-17		<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	0.0325	<0.00100	<0.000361	<0.000349
	RW-8	Apr-15		<0.00260	<0.00420	<0.00350	**0.0113** J	0.00801 J	0.0204	<0.00720	<0.0380	**2.41**	<0.0100	<0.00360	0.00788 J
	RW-8	Apr-17		0.000478 J	<0.000418	0.00735	<0.00100	0.0198	0.0193	0.0386	<0.00382	**1.94**	**0.0320**	0.00837	0.0191
	RW-9	Apr-14		<0.00060	<0.000600	0.0013 J	<0.00100	0.00150 J	0.1	0.024	<0.00100	0.00340 J	0.00750	0.0099	0.035
	RW-9	Apr-15		<0.0130	**<0.0210**	<0.0180	**0.0564** J	<0.0190	0.0643	<0.0360	<0.190	<0.0180	**<0.0500**	<0.0180	0.0179 J
	RW-9	Apr-16		<0.00130	<0.00209	<0.00175	<0.00500	0.00775	0.0698	0.0708	<0.0191	0.00656	0.00554 J	0.00303 J	0.0367
	RW-9	Apr-17		<0.000260	<0.000418	0.000668 J	<0.00100	0.00105	0.0868	0.0193	<0.00382	0.00435	<0.00100	<0.000361	0.00499
	RW-10	Apr-14		<0.00060	<0.000600	<0.000500	<0.00100	<0.000500	<0.000500	<0.000600	<0.00100	<0.000600	<0.000700	<0.00100	<0.000500
	RW-10	Apr-15		<0.000260	<0.000420	<0.000350	0.0012 J	<0.000380	<0.000330	<0.000720	<0.00380	<0.000370	<0.00100	<0.000360	<0.000350
	RW-10	Apr-16		<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	<0.000367	<0.00100	<0.000361	<0.000349
	RW-10	Apr-17		<0.000260	<0.000418	<0.000350	<0.00100	0.000403 J	0.00399	0.000792 J	<0.00382	<0.000367	<0.00100	<0.000361	<0.000349
	RW-16	Apr-14		<0.00060	<0.000600	<0.000500	<0.00100	<0.000500	0.00087 J	<0.000600	<0.00100	0.0130	<0.000700	<0.00100	<0.000500
	RW-16	Apr-14	FD	<0.00060	<0.000600	<0.000500	<0.00100	<0.000500	0.00084 J	<0.000600	<0.00100	0.0120	<0.000700	<0.00100	<0.000500
	RW-16	Apr-15		<0.000260	<0.000420	<0.000350	0.00114 J	<0.000380	<0.000330	<0.000720	<0.00380	0.0190	<0.00100	<0.000360	<0.000350
	RW-16	Apr-16		<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	0.0186	<0.00100	<0.000361	<0.000349
	RW-16	Apr-17		<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	0.0152	<0.00100	<0.000361	<0.000349
	RW-17	Apr-14		<0.00060	<0.000600	<0.000500	<0.00100	<0.000500	<0.000500	<0.000600	<0.00100	0.00310 J	<0.000700	<0.00100	<0.000500
	RW-17	Apr-15		<0.000260	<0.000420	<0.000350	0.00112 J	<0.000380	<0.000330	<0.000720	<0.00380	0.00772	<0.00100	<0.000360	<0.000350
	RW-17	Apr-16		<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	**0.195**	<0.00100	<0.000361	<0.000349
	RW-17	Apr-17		<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	**0.189**	<0.00100	<0.000361	<0.000349

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

2017 Annual Groundwater Monitoring Report

HollyFrontier Navajo Refining LLC, Artesia Refinery, Artesia, New Mexico

				Analyte Group:	Volatile Organic Compounds												
				Analyte:	cis-1,2-Dichloroethene	cis-1,3-Dichloropropene	Cymene	Dichloromethane	Ethylbenzene	Isopropylbenzene	m,p-Xylene	Methyl N-Butyl Ketone	MTBE	Naphthalene	N-Butylbenzene	N-Propylbenzene
				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:	0.07	0.0047	---	0.005	0.7	0.447	---	---	0.143	0.03	---	---
				CGWSL Source:	USEPA MCL	USEPA TW		USEPA MCL	USEPA MCL	WQCC TW			WQCC TW	WQCC HH		
Area	**Well ID**	**Date**	**Dup**													
North RO Reject Field	MW-117	Apr-15		<0.000260	<0.000420	0.00179	<0.00100	<0.000380	<0.000330	0.00135	<0.00380	<0.000370	0.00150 J	<0.000360	<0.000350
	MW-117	Oct-15		<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	<0.000367	<0.00100	<0.000361	<0.000349
	MW-117	Apr-16		<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	<0.000367	<0.00100	<0.000361	<0.000349
	MW-117	Oct-16		<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	<0.000367	<0.00100 J4	<0.000361	<0.000349
	MW-117	Apr-17		<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	<0.000367	<0.00100	<0.000361	<0.000349
	MW-117	Oct-17		<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	<0.000367	<0.00100	<0.000361	<0.000349
	MW-118	Apr-15		<0.000260	<0.000420	0.000657 J	<0.00100	<0.000380	<0.000330	<0.000720	<0.00380	<0.000370	<0.00100	<0.000360	<0.000350
	MW-118	Oct-15		<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	<0.000367	<0.00100	<0.000361	<0.000349
	MW-118	Apr-16		<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	<0.000367	<0.00100	<0.000361	<0.000349
	MW-118	Oct-16		<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	<0.000367	<0.00100 J4	<0.000361	<0.000349
	MW-118	Apr-17		<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	<0.000367	<0.00100	<0.000361	<0.000349
	MW-118	Oct-17		<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	<0.000367	<0.00100	<0.000361	<0.000349
	MW-119	Apr-15		<0.000260	<0.000420	<0.000350	<0.00100	<0.000380	<0.000330	<0.000720	<0.00380	<0.000370	<0.00100	<0.000360	<0.000350
	MW-119	Oct-15		<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	<0.000367	<0.00100	<0.000361	<0.000349
	MW-119	Apr-16		<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	<0.000367	<0.00100	<0.000361	<0.000349
	MW-119	Oct-16		<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	<0.000367	<0.00100 J4	<0.000361	<0.000349
	MW-119	Apr-17		<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	<0.000367	<0.00100	<0.000361	<0.000349
	MW-119	Oct-17		<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	<0.000367	<0.00100	<0.000361	<0.000349
NCL	MW-18	Apr-14		<0.00060	<0.000600	<0.000500	<0.00100	<0.000500	<0.000500	<0.000600	<0.00100	<0.000600	<0.000700	<0.00100	<0.000500
	MW-18	Apr-15		<0.000260	<0.000420	<0.000350	<0.00100	<0.000380	<0.000330	<0.000720	<0.00380	<0.000370	<0.00100	<0.000360	<0.000350
	MW-18	Apr-16		<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	<0.000367	<0.00100	<0.000361	<0.000349
	MW-18	Apr-17		<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	<0.000367	<0.00100	<0.000361	<0.000349
	MW-45	Apr-15		<0.000260	<0.000420	<0.000350	<0.00100	<0.000380	<0.000330	<0.000720	<0.00380	0.00356	<0.00100	<0.000360	<0.000350
	MW-45	Oct-15		<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	0.00268	<0.00100	<0.000361	<0.000349
	MW-45	Apr-16		<0.000418	<0.000418	<0.000326	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	0.00152	<0.00100	<0.000361	<0.000349
	MW-45	Oct-16		<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	0.00206	<0.00100	<0.000361	<0.000349
	MW-45	Apr-17		0.00152	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	0.00316	<0.00100	<0.000361	<0.000349
	MW-45	Oct-17		<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	0.00305	<0.00100	<0.000361	<0.000349
	MW-53	Apr-14		<0.00060	<0.000600	<0.000500	<0.00100	<0.000500	<0.000500	<0.000600	<0.00100	<0.000600	<0.000700	<0.00100	<0.000500
	MW-53	Apr-15		<0.000260	<0.000420	<0.000350	<0.00100	<0.000380	<0.000330	<0.000720	<0.00380	<0.000370	<0.00100	<0.000360	<0.000350
	MW-53	Apr-16		<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	<0.000367	<0.00100	<0.000361	<0.000349
	MW-53	Apr-17		0.000391 J	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	<0.000367	<0.00100	<0.000361	<0.000349
	MW-54A	Apr-15		<0.000260	<0.000420	<0.000350	<0.00100	<0.000380	<0.000330	<0.000720	<0.00380	<0.000370	<0.00100	<0.000360	<0.000350
	MW-54A	Oct-15		<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	<0.000367	<0.00100	<0.000361	<0.000349
	MW-54A	Apr-16		<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	<0.000367	<0.00100	<0.000361	<0.000349
	MW-54A	Oct-16		<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	<0.000367	<0.00100	<0.000361	<0.000349
	MW-54A	Apr-17		0.000888 J	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	<0.000367	<0.00100	<0.000361	<0.000349
	MW-54A	Oct-17		<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	<0.000367	<0.00100	<0.000361	<0.000349
	MW-54B	Apr-13		<0.00500	**<0.00500**	<0.00500	**<0.0100**	<0.00500	<0.00500	<0.0100	<0.0100	<0.00500	<0.00500	<0.00500	<0.00500
	MW-54B	Apr-15		<0.000260	<0.000420	<0.000350	<0.00100	<0.000380	<0.000330	<0.000720	<0.00380	<0.000370	<0.00100	<0.000360	<0.000350
	MW-54B	Apr-17		0.000616 J	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	<0.000367	<0.00100	<0.000361	<0.000349
	MW-55	Apr-15		<0.000260	<0.000420	<0.000350	<0.00100	<0.000380	<0.000330	<0.000720	<0.00380	<0.000370	<0.00100	<0.000360	<0.000350
	MW-55	Oct-15		<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	0.00433	<0.00100	<0.000361	<0.000349
	MW-55	Apr-16		<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	0.0163	<0.00100	<0.000361	<0.000349
	MW-55	Oct-16		<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	0.00521	<0.00100	<0.000361	<0.000349
	MW-55	Apr-17		<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	0.0535	<0.00100	<0.000361	<0.000349
	MW-55	Oct-17		<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	0.0390	<0.00100	<0.000361	<0.000349
	MW-56	Apr-15		<0.000260	<0.000420	<0.000350	<0.00100	<0.000380	<0.000330	<0.000720	<0.00380	0.0129	<0.00100	<0.000360	<0.000350
	MW-56	Oct-15		<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	0.00975	<0.00100	<0.000361	<0.000349
	MW-56	Apr-16		<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	0.0160	<0.00100	<0.000361	<0.000349
	MW-56	Oct-16		<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	0.00819	<0.00100	<0.000361	<0.000349
	MW-56	Apr-17		<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	0.0222	<0.00100	<0.000361	<0.000349
	MW-108	Apr-15		<0.00260	<0.00420	<0.00350	**<0.0100**	0.0101	0.033	0.0665	<0.0380	<0.00370	0.0113 J	<0.00360	0.0311
	MW-108	Oct-15		<0.00260	<0.00418	<0.00350	**<0.0100**	0.00812 J	0.0345	0.081	<0.0382	<0.00367	0.0166 J	<0.00361	0.0346
	MW-108	Apr-16		<0.0130	**<0.0209**	<0.0175	**<0.0500**	<0.0192	0.036 J	0.0795	<0.00382	<0.0184	**<0.0500**	<0.0180	0.038 J
	MW-108	Oct-16		<0.00650	**<0.0104**	<0.00875	**<0.0250**	<0.00960	0.0293	0.0721	<0.0955	<0.00918	<0.0250	<0.00902	0.0319
	MW-108	Apr-17		<0.00650	**<0.0104**	<0.00875	**<0.0250**	<0.00960	0.0384	0.0815	<0.0955	<0.00918	<0.0250	<0.00902	0.0396
	MW-108	Oct-17		<0.00130	<0.00209	0.0021 J	<0.00500	0.00404 J	0.0249	0.0602	<0.0191	<0.00184	0.00744 J	0.00296 J	0.0263
	NCL-31	Apr-15		<0.000260	<0.000420	<0.000350	<0.00100	<0.000380	0.000622 J	<0.000720	<0.00380	0.000497 J	<0.00100	<0.000360	<0.000350
	NCL-31	Oct-15		<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	0.00689	<0.000719	<0.00382	<0.000367	<0.00100	<0.000361	<0.000349
	NCL-31	Apr-16		<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	0.000678 J	<0.000719	<0.00382	<0.000367	<0.00100	<0.000361	<0.000349
	NCL-31	Oct-16		<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	0.00483	<0.000719	<0.00382	<0.000367	<0.00100	<0.000361	<0.000349
	NCL-31	Apr-17		<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	0.0018	<0.000719	<0.00382	<0.000367	<0.00100	<0.000361	<0.000349
	NCL-31	Oct-17		<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	<0.000367	<0.00100	<0.000361	<0.000349
	NCL-32	Apr-15		<0.000260	<0.000420	<0.000350	<0.00100	<0.000380	<0.000330	<0.000720	<0.00380	<0.000370	<0.00100	<0.000360	<0.000350
	NCL-32	Oct-15		<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	0.000476 J	<0.00100	<0.000361	<0.000349
	NCL-32	Apr-16		<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	0.000751 J	<0.00100	<0.000361	<0.000349
	NCL-32	Oct-16		<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	0.000385 J	<0.00100	<0.000361	<0.000349
	NCL-32	Apr-17		<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	<0.000367	<0.00100	<0.000361	<0.000349
	NCL-32	Oct-17		<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	<0.000367	<0.00100	<0.000361	<0.000349
	NCL-33	Apr-15		<0.000260	<0.000420	<0.000350	<0.00100	<0.000380	<0.000330	<0.000720	<0.00380	0.000806 J	<0.00100	<0.000360	<0.000350
	NCL-33	Oct-15		<0.000260	<0.000418	<0.000350	<0.00100 J	<0.000384	<0.000326	<0.000719	<0.00382	<0.000367	<0.00100	<0.000361	<0.000349
	NCL-33	Apr-16		<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	<0.000367	<0.00100	<0.000361	<0.000349
	NCL-33	Oct-16		<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	<0.000367	<0.00100	<0.000361	<0.000349
	NCL-33	Apr-17		<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	<0.000367	<0.00100	<0.000361	<0.000349
	NCL-33	Oct-17		<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	<0.000367	<0.00100	<0.000361	<0.000349
	NCL-34A	Apr-15		<0.000260	<0.000420	0.00696	<0.00100	0.00565	0.0929	0.094	<0.00380	<0.00730	0.00636	0.00713	0.101
	NCL-34A	Oct-15		<0.000260	<0.000418	0.00732	<0.00100	0.00215	0.0851	0.0653	<0.00382	0.00168	<0.00100	0.00646	0.0857
	NCL-34A	Apr-16		<0.0130	**<0.0209**	<0.0175	**<0.0500**	0.0758	0.1	0.188	<0.0382	<0.0184	**<0.0500**	<0.0180	0.112
	NCL-34A	Oct-16		<0.0260	**<0.0418**	<0.0350	**<0.100**	<0.0384	0.0901 J	0.111	<0.382	<0.0367	**<0.100**	<0.0361	0.0971 J
	NCL-34A	Apr-17		<0.0130	**<0.0209**	<0.0175	**<0.0500**	<0.0192	0.0914	0.1	<0.191	<0.0184	**<0.0500**	<0.0180	0.101
	NCL-34A	Oct-17		<0.000260	<0.000418	0.00832	<0.00100	0.00230	0.109	0.0762	<0.00382	0.000379 J	0.00132 J	0.00733	0.112
	NCL-44	Apr-15		<0.000260	<0.000420	<0.000350	<0.00100	<0.000380	0.000652 J	<0.000720	<0.00380	0.000410 J	<0.00100	<0.000360	<0.000350
	NCL-44	Oct-15		<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	0.000446 J	<0.000719	<0.00382	<0.000367	<0.00100	<0.000361	<0.000349
	NCL-44	Apr-16		<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	0.00618	<0.000719	<0.00382	<0.000367	<0.00100	<0.000361	<0.000349
	NCL-44	Oct-16		<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	0.00177	<0.000719	<0.00382	<0.000367	<0.00100	<0.000361	<0.000349
	NCL-44	Apr-17		<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	0.0013	<0.000719	<0.00382	<0.000367	<0.00100	<0.000361	<0.000349
	NCL-44	Oct-17		<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	0.00115	<0.000719	<0.00382	<0.000367	<0.00100	<0.000361	<0.000349
	NCL-49	Apr-15		<0.000260	<0.000420	<0.000350	<0.00100	<0.000380	<0.000330	<0.000720	<0.00380	<0.000370	<0.00100	<0.000360	<0.000350
	NCL-49	Apr-15	FD	<0.000260	<0.000420	<0.000350	<0.00100	<0.000380	<0.000330	<0.000720	<0.00380	<0.000370	<0.00100	<0.000360	<0.000350
	NCL-49	Oct-15		<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	<0.000367	<0.00100	<0.000361	<0.000349
	NCL-49	Oct-15	FD	<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	<0.000367	<0.00100	<0.000361	<0.000349
	NCL-49	Apr-16		<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	<0.000367	<0.00100	<0.000361	<0.000349
	NCL-49	Apr-16	FD	<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	<0.000367	<0.00100	<0.000361	<0.000349
	NCL-49	Oct-16		<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	<0.000367	<0.00100	<0.000361	<0.000349
	NCL-49	Oct-16	FD	<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	<0.000367	<0.00100	<0.000361	<0.000349
	NCL-49	Apr-17		0.000449 J	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	<0.000367	<0.00100	<0.000361	<0.000349
	NCL-49	Apr-17	FD	0.000303 J	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	<0.000367	<0.00100	<0.000361	<0.000349
	NCL-49	Oct-17		<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	<0.000367	<0.00100	<0.000361	<0.000349
	NCL-49	Oct-17	FD	<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	<0.000367	<0.00100	<0.000361	<0.000349

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

2017 Annual Groundwater Monitoring Report

HollyFrontier Navajo Refining LLC, Artesia Refinery, Artesia, New Mexico

				Analyte Group:	Volatile Organic Compounds											
				Analyte:	cis-1,2-Dichloroethene	cis-1,3-Dichloropropene	Cymene	Dichloromethane	Ethylbenzene	Isopropylbenzene	m,p-Xylene	Methyl N-Butyl Ketone	MTBE	Naphthalene	N-Butylbenzene	N-Propylbenzene
				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:	0.07	0.0047	---	0.005	0.7	0.447	---	---	0.143	0.03	---	---
				CGWSL Source:	USEPA MCL	USEPA TW		USEPA MCL	USEPA MCL	WQCC TW			WQCC TW	WQCC HH		
Area	Well ID	Date	Dup													
South Refinery	KWB-2R	Apr-15		<0.00260	<0.00420	0.00468 J	**<0.0100**	**0.992**	0.0698	0.224	<0.0380	0.0186	0.0260 J	0.0073 J	0.119
	KWB-2R	Oct-15		<0.0260	**<0.0418**	<0.0350	**<0.100**	**1.72**	0.0921 J	0.448	<0.382	<0.0367	**<0.100**	<0.0361	0.169
	KWB-2R	Apr-16		<0.000260	<0.000418	0.000603 J	<0.00100	0.0483	0.0187	0.0496	<0.00382	0.0231	0.00806	0.00205	0.0314
	KWB-2R	Oct-16		<0.000260	<0.000418	0.000596 J		0.0130	0.033	0.027	<0.00382	0.0184	0.00440 J	0.00303	0.0544
	KWB-2R	Apr-17		<0.000260	<0.000418	<0.000350	<0.00100	0.00543	0.00816	0.0273	<0.00382	0.0192	0.00609	<0.000361	0.0121
	KWB-2R	Oct-17		<0.000260	<0.000418	0.00198	<0.00100	0.325	0.0635	0.183	<0.00382	0.0202	**0.0675**	0.00453	0.111
	KWB-5	Apr-15		<0.000260	<0.000420	0.000613 J	<0.00100	0.0395	0.0146	0.0323	<0.00380	<0.000370	**0.0392**	0.0022	0.0226
	KWB-5	Oct-15		<0.000260	<0.000418	0.000434 J	<0.00100	0.0151	0.0161	0.0135	<0.00382	**10.7**	0.0156	0.00173	0.0276
	KWB-5	Apr-16		<0.000260	<0.000418	<0.000350	<0.00100	0.00678	0.0105	0.0123	<0.0191	**12.6**	0.0114	0.00148	0.0181
	KWB-5	Oct-16		<0.00130	<0.00209	<0.00175	<0.00500	<0.00192	0.0086	<0.00360	<0.0764	**9.88**	0.00511 JJ4	<0.00180	0.0132
	KWB-5	Apr-17		<0.000260	<0.000418	<0.000350	<0.00100	0.0103	0.0138	0.0387	<0.00382	**8.84**	**0.0302**	0.00176	0.0247
	KWB-5	Oct-17		<0.000260	<0.000418	<0.000350	<0.00100	<0.0960	0.00852	<0.180	<0.00382	**12.4**	0.0131	0.00118	0.0134
	KWB-6	Apr-15		<0.00650	**<0.0100**	<0.00880	**<0.0250**	**2.04**	0.0738	2.71	<0.0960	0.119	**0.239**	<0.00900	0.121
	KWB-6	Oct-15		**<0.130**	**<0.209**	<0.175	**<0.500**	**0.831**	<0.163	1.03	<1.91	**9.07**	**<0.500**	<0.180	<0.174
	KWB-6	Apr-16		<0.00130	<0.00209	0.00591	<0.00500	**0.799**	0.0477	1.64	<0.0191	0.138	**0.137**	0.00837	0.0883
	KWB-6	Oct-16		<0.00520	**<0.00836**	<0.00700	**<0.0200**	0.241	0.0173 J	0.394	<0.0764	0.135	**0.0549** J	<0.00722	0.032
	KWB-6	Apr-17		<0.00130	<0.00209	0.0045 J	<0.00500	0.346	0.0344	0.373	<0.0191	**0.154**	**0.0563**	0.00434 J	0.0737
	KWB-6	Oct-17		<0.000260	<0.000418	0.00825	<0.00100	0.183	0.0199	0.275	<0.00382	0.102	**0.0436**	<0.000361	0.0386
	MW-28	Apr-15		<0.0260	**<0.0420**	<0.0350	**<0.100**	0.0625 J	0.0689 J	0.194	<0.380	**1.33**	**<0.100**	<0.0360	0.0744 J
	MW-28	Oct-15		<0.0260	**<0.0418**	<0.0350	**<0.100**	0.0441 J	0.0671 J	0.243	<0.382	**1.11**	**<0.100**	<0.0361	0.089 J
	MW-28	Apr-16		<0.00260	<0.00418	<0.00341	**<0.0100**	0.0276	0.0433	0.156	<0.0382	**0.261**	0.0247 J	<0.00361	0.0577
	MW-28	Oct-16		<0.0130	**<0.0209**	<0.0175	**<0.0500**	0.0796	0.0876	0.338	<0.191	**0.630**	**0.0504** J	0.0552	0.117
	MW-28	Apr-17		<0.0130	**<0.0209**	<0.0175	**<0.0500**	0.0489 J	0.0613	0.238	<0.191	**0.423**	**0.0668** J	<0.0180	0.0909
	MW-28	Oct-17		<0.0130	**<0.0209**	<0.0175	**<0.0500**	0.0578	0.052	0.216	<0.191	**0.158**	**<0.0500**	<0.0180	0.0638
	MW-48	Apr-15		<0.00260	<0.00420	<0.00350	**<0.0100**	0.158	0.0361	0.143	<0.0380	**0.223**	0.0245 J	<0.00360	0.0478
	MW-48	Oct-15		<0.00130	<0.00209	0.00472 J	<0.00500	0.0655	0.0549	0.119	<0.0191	**0.832**	0.0128 J	0.0065	0.0857
	MW-48	Apr-16		<0.00520	**<0.00836**	<0.00700	**<0.0200**	**0.790**	0.067	0.671	<0.0764	**0.326**	**0.101**	<0.00722	0.0983
	MW-48	Oct-16		<0.00130	<0.00209	0.0052	<0.00500	0.448	0.0689	0.502	<0.0191	**0.851**	**0.0832**	0.00827	0.111
	MW-48	Apr-17		<0.0130	**<0.0209**	<0.0175	**<0.0500**	**1.27**	0.0828	1.04	<0.191	**0.214**	**0.224** J	<0.0180	0.144
	MW-48	Oct-17		<0.000260	<0.000418	0.00678	<0.00100	**0.917**	0.0884	0.705	<0.00382	**0.263**	**0.138**	0.0102	0.137
	MW-50	Apr-15		<0.000260	<0.000420	<0.000350	<0.00100	<0.000380	<0.000330	<0.000720	<0.00380	0.00219	<0.00100	<0.000360	<0.000350
	MW-50	Oct-15		<0.000260 J	<0.000418 J	<0.000350 J	<0.00100	<0.000384 J	<0.000326 J	<0.000719 J	<0.00382	<0.000367	<0.00100 J	<0.000361 J	<0.000349
	MW-50	Apr-16		<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	<0.000367	<0.00100	<0.000361	<0.000349
	MW-50	Oct-16		<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	<0.000367	<0.00100	<0.000361	<0.000349
	MW-50	Apr-17		<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	<0.000367	<0.00100	<0.000361	<0.000349
	MW-50	Oct-17		<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	<0.000367	<0.00100	<0.000361	<0.000349
	MW-52	Apr-15		<0.000260	<0.000420	<0.000350	<0.00100	<0.000380	<0.000330	<0.000720	<0.00380	<0.000370	<0.00100	<0.000360	<0.000350
	MW-52	Oct-15		<0.000260	<0.000418	<0.000350	<0.00100 J	<0.000384	<0.000326	<0.000719	<0.00382	<0.000367	<0.00100	<0.000361	<0.000349
	MW-52	Apr-16		<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	<0.000367	<0.00100	<0.000361	<0.000349
	MW-52	Oct-16		<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	<0.000367	<0.00100	<0.000361	<0.000349
	MW-52	Apr-17		<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	<0.000367	<0.00100	<0.000361	<0.000349
	MW-52	Oct-17		<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	<0.000367	<0.00100	<0.000361	<0.000349
	MW-64	Apr-16		<0.0130	**<0.0209**	<0.0175	**<0.0500**	**3.11**	0.0817	5.26	<0.00382	**0.666**	**0.195** J	<0.0180	0.122
	MW-64	Oct-16		<0.0260	**<0.0418**	<0.0350	**<0.100**	**2.61**	0.0602 J	3.79	<0.00382	**0.531**	**0.140** J	<0.0361	0.0878 J
	MW-64	Apr-17		<0.0650	**<0.104**	<0.0875	**<0.250**	**3.35**	0.0986 J	5.49	<0.955	**0.408**	**<0.250**	<0.0902	0.146 J
	MW-64	Oct-17		<0.0650	**<0.104**	<0.0875	**<0.250**	**3.20**	0.0919 J	4.57	<0.955	**0.484**	**<0.250**	<0.0902	0.12 J
	MW-65	Apr-15		<0.00260	<0.00420	<0.00350	**<0.0100**	**1.03**	0.0578	0.135	<0.0380	**3.22**	**0.239**	0.0101	0.085
	MW-65	Apr-16		<0.00260	<0.00418	<0.00341	**<0.0100**	0.288	0.0444	0.0822	<0.00382	**3.71**	**0.155**	0.00732 J	0.0577
	MW-65	Oct-16		<0.00520	**<0.00836**	<0.00700	**<0.0200**	0.0574	0.045	0.0205 J	<0.00382	**2.70**	**0.194**	0.00791 J	0.0628
	MW-65	Apr-17		<0.0260	**<0.0418**	<0.0350	**<0.100**	0.0768 J	0.0479 J	0.0736 J	<0.382	**2.27**	**0.205** J	<0.0361	0.0493 J
	MW-65	Oct-17		<0.0260	**<0.0418**	<0.0350	**<0.100**	0.0507 J	0.057 J	<0.0719	<0.382	**2.13**	**0.223** J	<0.0361	0.073 J
	MW-66	Apr-15		<0.0130	**<0.0210**	<0.0180	**<0.0500**	0.0615	0.0266 J	0.0668	<0.190	**1.66**	**0.0617** J	<0.0180	0.0342 J
	MW-66	Oct-15		<0.000260	<0.000418	<0.000350	<0.00100	0.0234	0.0565	0.0281	<0.00382	**2.42**	**0.133**	0.007	0.0807
	MW-66	Apr-16		<0.00260	<0.00418	<0.00341	**<0.0100**	0.0181	0.0337	0.0285	<0.00382	**1.48**	**0.0638**	0.00609 J	0.0523
	MW-66	Oct-16		<0.000260	<0.000418	<0.000350	<0.00100	0.0214	0.0617	0.0228	<0.00382	**1.48**	**0.0979**	0.00948	0.104
	MW-66	Apr-17		<0.0130	**<0.0209**	<0.0175	**<0.0500**	<0.0192	0.0311 J	<0.0360	<0.191	**1.21**	**0.104** J	0.0236 J	0.0525
	MW-66	Oct-17		<0.00260	<0.00418	<0.00350	**<0.0100**	<0.00384	0.00696 J	<0.00719	<0.0382	0.134	0.0147 J	<0.00361	0.0118
	MW-99	Apr-15		<0.00650	**<0.0100**	<0.00880	**<0.0250**	0.252	0.0295	0.622	<0.0960	0.0799	**0.0376** J	<0.00900	0.0338
	MW-99	Oct-15		<0.00650	**<0.0104**	0.0122 J	**<0.0250**	0.551	0.0559	0.509	<0.0955	**3.96**	**0.0453** J	0.0104 J	0.0768
	MW-99	Apr-16		<0.00260	<0.00418	0.00375 J	**<0.0100**	0.629	0.0459	0.531	<0.00382	**1.99**	**0.0656**	0.00756 J	0.0706
	MW-99	Oct-16		<0.00520	**<0.00836**	<0.00700	**<0.0200**	0.635	0.0462	0.591	<0.00382	**2.45**	**0.0343** J	<0.00722	0.071
	MW-99	Apr-17		<0.0130	**<0.0209**	<0.0175	**<0.0500**	0.402	0.0477 J	0.416	<0.191	**4.65**	**<0.0500**	<0.0180	0.0667
	MW-99	Oct-17		<0.0260	**<0.0418**	<0.0350	**<0.100**	0.146	0.0522 J	0.228	<0.382	**2.71**	**<0.100**	<0.0361	0.0637 J
	MW-101	Apr-15		<0.00130	<0.00210	<0.00180	<0.00500 J	0.00202 J	0.00279 J	<0.00360	<0.0190 J	0.113	<0.00500 J	<0.00180	<0.00170
	MW-101	Oct-15		<0.00130	<0.00209	<0.00175	<0.00500	<0.00192	<0.00163	<0.00360	<0.0191	0.0981	<0.00500	<0.00180	<0.00174
	MW-101	Apr-16		<0.000260	<0.000418	<0.000350	<0.00100	0.00176	0.00564	<0.000719	<0.00382	0.119	<0.00100	0.000427 J	0.00597
	MW-101	Oct-16		<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	0.000381 J	<0.000719	<0.00382	0.104	<0.00100	<0.000361	<0.000349
	MW-101	Apr-17		<0.000260	<0.000418	<0.000350	<0.00100	0.000830 J	0.00413	<0.000719	<0.00382	0.107	<0.00100	<0.000361	0.000928 J
	MW-101	Oct-17		<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	0.132	<0.00100	<0.000361	<0.000349
	MW-102	Apr-15		<0.00260	<0.00420	<0.00350	**<0.0100**	0.602	0.0207	0.598	<0.0380	**1.88**	**0.129**	<0.00360	0.0257
	MW-102	Oct-15		<0.0260	**<0.0418**	<0.0350	**<0.100**	**1.04**	0.0583 J	1.06	<0.382	**2.12**	**0.256** J	<0.0361	0.0897 J
	MW-102	Apr-16		<0.0260	**<0.0418**	<0.0350	**<0.100**	**0.858**	0.0503 J	0.544	<0.00382	**2.07**	**0.278** J	<0.0361	0.0846 J
	MW-102	Oct-16		<0.0260	**<0.0418**	<0.0350	**<0.100**	**1.03**	0.0524 J	0.624	<0.00382	**1.61**	**0.278** J	<0.0361	0.0814 J
	MW-102	Apr-17		<0.00520	**<0.00836**	<0.00700	**<0.0200**	**0.726**	0.0401	0.372	<0.0764	**1.87**	**0.200**	0.0125 J	0.0725
	MW-102	Oct-17		<0.0130	**<0.0209**	<0.0175	**<0.0500**	**0.897**	0.0503	0.466	<0.191	**1.89**	**0.483**	<0.0180	0.0717
	MW-103	Apr-14		<0.00060	<0.000600	0.0036 J	<0.00100	0.150	0.031	0.012	<0.00100	<0.000600	**0.0510**	0.0061	0.046
	MW-103	Apr-15		<0.000260	<0.000420	0.00207	<0.00100	0.0879	0.0247	0.00819	<0.00380	0.000441 J	0.0220	0.00291	0.0357
	MW-103	Apr-16		<0.00130	<0.00209	<0.00175	<0.00500	0.0508	0.022	<0.00360	<0.00382	<0.00184	0.0108 J	0.00286 J	0.0311
	MW-103	Apr-17		<0.0130	**<0.0209**	<0.0175	**<0.0500**	<0.0192	0.0192 J	<0.0360	<0.00382	<0.0184	**<0.0500**	<0.0180	0.0295 J
	MW-104	Apr-15		<0.000260	<0.000420	<0.000350	<0.00100	<0.000380	0.0432	<0.000720	<0.00380	0.00138	<0.00100	<0.000360	0.00324
	MW-104	Apr-15	FD	<0.000260	<0.000420	<0.000350	<0.00100	0.000481 J	0.0441	<0.000720	<0.00380	0.00135	<0.00100	<0.000360	0.00335
	MW-104	Oct-15		<0.00130	<0.00209	<0.00175	<0.00500	0.0126	0.0449	<0.00360	<0.0191	0.00189 J	<0.00500	<0.00180	0.00458 J
	MW-104	Oct-15	FD	<0.000260	<0.000418	<0.000350	<0.00100	0.0117	0.0406	0.000722 J	<0.00382	0.00199	0.00132 J	0.000449 J	0.00402
	MW-104	Apr-16		<0.000260	<0.000418	<0.000350	<0.00100	0.00108	0.0535 J6	<0.000719	<0.00382	0.00130	<0.00100	0.000558 J	0.00447
	MW-104	Apr-16	FD	<0.000260	<0.000418	<0.000350	<0.00100	0.00107	0.0602	<0.000719	<0.00382	0.00120	<0.00100	0.000602 J	0.00513
	MW-104	Oct-16		<0.00130	<0.00209	<0.00175	<0.00500	0.00837	0.0442	<0.00360	<0.00382	<0.00184	<0.00500	0.00434 J	0.00503
	MW-104	Oct-16	FD	<0.00130	<0.00209	<0.00175	<0.00500	0.00721	0.0475	<0.00360	<0.00382	0.00509	<0.00500	0.00422 J	0.005 J
	MW-104	Apr-17		<0.00260	<0.00418	<0.00350	**<0.0100**	0.0244	0.0565	<0.00719	<0.0382	<0.00367	<0.0100	<0.00361	0.00933 J
	MW-104	Apr-17	FD	<0.00130	<0.00209	<0.00175	<0.00500	0.0168	0.038	0.00402 J	<0.0191	0.0132	<0.00500	<0.00180	0.00632
	MW-104	Oct-17		<0.000260	<0.000418	<0.000350	<0.00100	0.00651	0.0457	<0.000719	<0.00382	0.00837	0.00196 J	0.000421 J	0.00489
	MW-104	Oct-17	FD	<0.00130	<0.00209	<0.00175	<0.00500	0.00774	0.0371	<0.00360	<0.0191	0.00820	<0.00500	<0.00180	0.00405 J
	MW-105	Apr-15		<0.00130	<0.00210	0.00604	<0.00500 J	0.545	0.0573	0.205	<0.0190 J	<0.00180	**0.0623** J	0.00866	0.0639
	MW-105	Oct-15		<0.00260	<0.00418	0.00614 J	**<0.0100**	0.188	0.0321	0.109	<0.0382	<0.00367	0.0299 J	0.00651 J	0.0349
	MW-105	Apr-16		<0.0650	**<0.104**	<0.0875	**<0.250**	**2.02**	0.104 J	0.379	<0.00382	<0.0918	**<0.250**	<0.0902	0.104 J
	MW-105	Oct-16		<0.0260	**<0.0418**	<0.0350	**<0.100**	**2.77**	0.136	0.683	<0.00382	<0.0367	**0.129** J	<0.0361	0.147
	MW-105	Apr-17		<0.0260	**<0.0418**	<0.0350	**<0.100**	**1.71**	0.0921 J	0.446	<0.382	<0.0367	**0.104** J	<0.0361	0.109
	MW-105	Oct-17		<0.000260	<0.000418	0.00692	<0.00100	**0.927**	0.0814	0.39	<0.00382	0.0209	**0.0737**	0.00608	0.0846
	MW-106	Apr-15		<0.000260	<0.000420	0.000357 J	0.001 J	0.0206	0.00691	0.0475	<0.00380	<0.000370	0.0126	0.000406 J	0.00815
	MW-106	Oct-15		<0.0260	**<0.0418**	<0.0350	**<0.100**	0.0823 J	<0.0326	0.217	<0.382	0.0397 J	**0.113** J	<0.0361	<0.0349
	MW-106	Apr-16		<0.00650	**<0.0104**	<0.00875	**<0.0250**	0.0446	0.0329	0.203	<0.00382	0.0580	**0.0442** J	<0.00902	0.043
	MW-106	Oct-16		<0.0130	**<0.0209**	<0.0175		0.0440 J	0.0469 J	0.297	<0.00382	0.109	**0.0690** J	<0.0180	0.0617
	MW-106	Apr-17		<0.0130	**<0.0209**	<0.0175	**<0.0500**	0.0301 J	0.0344 J	0.236	<0.191	0.0832	**<0.0500**	<0.0180	0.0482 J
	MW-106	Oct-17		<0.0130	**<0.0209**	<0.0175	**<0.0500**	0.0438 J	0.0321 J	0.195	<0.191	0.0949	**<0.0500**	<0.0180	0.0382 J

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

2017 Annual Groundwater Monitoring Report

HollyFrontier Navajo Refining LLC, Artesia Refinery, Artesia, New Mexico

				Analyte Group:	Volatile Organic Compounds												
				Analyte:	cis-1,2-Dichloroethene	cis-1,3-Dichloropropene	Cymene	Dichloromethane	Ethylbenzene	Isopropylbenzene	m,p-Xylene	Methyl N-Butyl Ketone	MTBE	Naphthalene	N-Butylbenzene	N-Propylbenzene
				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:	0.07	0.0047	---	0.005	0.7	0.447	---	---	0.143	0.03	---	---
				CGWSL Source:	USEPA MCL	USEPA TW		USEPA MCL	USEPA MCL	WQCC TW			WQCC TW	WQCC HH		
Area	**Well ID**	**Date**	**Dup**													
South Refinery	MW-107	Apr-15		<0.00260	<0.00420	<0.00350	**<0.0100**	0.00658 J	0.0107	0.0146	<0.0380	**1.77**	0.0157 J	<0.00360	<0.00350
	MW-107	Oct-15		<0.0260	**<0.0418**	<0.0350	**<0.100**	0.0403 J	0.0454 J	0.0867 J	<0.382	**2.77**	**<0.100**	<0.0361	0.0689 J
	MW-107	Apr-16		<0.000260	<0.000418	0.00123	<0.00100	0.00466	0.0417	0.00427	<0.00382	**2.44**	0.00773	0.000878 J	0.0602
	MW-107	Oct-16		<0.00130	<0.00209	<0.00175	<0.00500	0.0192	0.0457	0.00857 J	<0.00382	**3.05**	**0.0614**	0.00182 J	0.0693
	MW-107	Apr-17		<0.0130	**<0.0209**	<0.0175	**<0.0500**	<0.0192	0.0334 J	<0.0360	<0.191	**2.78**	**0.0788** J	<0.0180	0.0528
	MW-109	Apr-15		<0.00260	<0.00420	<0.00350	**<0.0100**	0.0190	0.0351	0.0176	<0.0380	<0.00370	<0.0100	<0.00360	0.0297
	MW-109	Oct-15		<0.00260	<0.00418	<0.00350	**<0.0100**	0.0126	0.0344	0.0176	<0.0382	<0.00367	<0.0100	<0.00361	0.0305
	MW-109	Apr-16		<0.00130	<0.00209	<0.00175	<0.00500	0.00864	0.0375	0.0142	<0.00382	<0.00184	<0.00500	0.0021 J	0.0359
	MW-109	Oct-16		<0.00520	**<0.00836**	<0.00700	**<0.0200**	0.0115 J	0.0438	<0.0144	<0.00382	<0.00734	<0.0200	<0.00722	0.0452
	MW-109	Apr-17		<0.00260	<0.00418	<0.00350	**<0.0100**	0.00980 J	0.0536	0.0272	<0.0382	<0.00367	<0.0100	0.00378 J	0.0569
	MW-109	Oct-17		<0.000260	<0.000418	0.00108	<0.00100	0.0124	0.0658	0.023	<0.00382	<0.000367	0.00191 J	0.00382	0.0633
	MW-110	Apr-15		<0.000260	<0.000420	0.000563 J	<0.00100	0.00609	0.0331	0.00624	<0.00380	<0.000370	0.00482 J	0.00231	0.0279
	MW-110	Oct-15		<0.00130	<0.00209	0.00315 J	<0.00500	0.182	0.0305	0.0298	<0.0191	<0.00184	0.00731 J	0.00291 J	0.0347
	MW-110	Apr-16		<0.000260	<0.000418	<0.000350	<0.00100	0.000927 J	0.026	0.000733 J	<0.00382	<0.000367	<0.00100	0.00224	0.0212
	MW-110	Oct-16		<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	0.00078 J	<0.000719	<0.00382	<0.000367	<0.00100	<0.000361	<0.000349
	MW-110	Apr-17		<0.00130	<0.00209	0.00412 J	<0.00500	0.0262	0.0536	0.0161	<0.0191	<0.00184	<0.00500	0.00474 J	0.0589
	MW-110	Oct-17		<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	<0.000367	<0.00100	<0.000361	<0.000349
	RA-313	Apr-14		<0.00060	<0.000600	<0.000500	<0.00100	<0.000500	<0.000500	<0.000600	<0.00100	<0.000600	<0.000700	<0.00100	<0.000500
	RA-313	Apr-15		<0.000260	<0.000420	<0.000350	0.00129 J	<0.000380	<0.000330	<0.000720	<0.00380	<0.000370	<0.00100	<0.000360	<0.000350
	RA-313	Apr-16		<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	<0.000367	<0.00100	<0.000361	<0.000349
	RA-313	Apr-17		<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	<0.000367	<0.00100	<0.000361	<0.000349
	RW-4	Apr-15		<0.000260	<0.000420	<0.000350	<0.00100	0.00245	0.00966	<0.000720	<0.00380	0.0902	<0.00100	0.000393 J	0.00458
	RW-4R	Apr-16		<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	0.00999	<0.000719		**0.191**	<0.00100	<0.000361	0.00118
	RW-4R	Apr-17		<0.00130	<0.00209	<0.00175	<0.00500	<0.00192	0.00716	<0.00360	<0.0191	0.132	<0.00500	<0.00180	0.00532
	RW-5R	Apr-15		<0.00260	<0.00420	<0.00350	**<0.0100**	**1.03**	0.0398	1.39	<0.0380	**2.15**	**0.174**	0.00606 J	0.0598
	RW-5R	Apr-16		<0.00520	**<0.00836**	<0.00700	**<0.0200**	**1.20**	0.0643	1.68		**1.64**	**0.205**	0.0117 J	0.11
	RW-6	Apr-15		<0.00260	<0.00420	<0.00350	**<0.0100**	0.0476	0.0173	0.102	<0.0380	**2.27**	**0.0602**	0.00738 J	0.0237
	RW-6R	Apr-16		<0.000260	<0.000418	0.000401 J	<0.00100	0.00474	0.00797	0.00472	<0.00382	**2.68**	0.00574	0.00138	0.00731
	RW-15C	Apr-17		<0.00650	**<0.0104**	<0.00875	**<0.0250**	**4.19**	0.143	4.92	<0.00382	**4.25**	**0.383**	0.0168 J	0.296
South RO Reject Field	MW-114	Apr-15		<0.000260	<0.000420	<0.000350	<0.00100	<0.000380	<0.000330	<0.000720	<0.00380	<0.000370	<0.00100	<0.000360	<0.000350
	MW-114	Oct-15		<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	<0.000367	<0.00100	<0.000361	<0.000349
	MW-114	Apr-16		<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	<0.000367	<0.00100	<0.000361	<0.000349
	MW-114	Oct-16		<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	<0.000367	<0.00100	<0.000361	<0.000349
	MW-114	Apr-17		<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	<0.000367	<0.00100	<0.000361	<0.000349
	MW-114	Oct-17		<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	<0.000367	<0.00100	<0.000361	<0.000349
	MW-115	Apr-15		<0.000260	<0.000420	<0.000350	<0.00100	<0.000380	<0.000330	<0.000720	<0.00380	<0.000370	<0.00100	<0.000360	<0.000350
	MW-115	Oct-15		<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	<0.000367	<0.00100	<0.000361	<0.000349
	MW-115	Apr-16		<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	<0.000367	<0.00100	<0.000361	<0.000349
	MW-115	Oct-16		<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	<0.000367	<0.00100	<0.000361	<0.000349
	MW-115	Apr-17		<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	<0.000367	<0.00100	<0.000361	<0.000349
	MW-115	Oct-17		<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	<0.000367	<0.00100	<0.000361	<0.000349
	MW-116	Apr-15		<0.000260	<0.000420	<0.000350	<0.00100	<0.000380	<0.000330	<0.000720	<0.00380	<0.000370	<0.00100	<0.000360	<0.000350
	MW-116	Oct-15		<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	<0.000367	<0.00100	<0.000361	<0.000349
	MW-116	Apr-16		<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	<0.000367	<0.00100	<0.000361	<0.000349
	MW-116	Oct-16		<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	<0.000367	<0.00100	<0.000361	<0.000349
	MW-116	Apr-17		<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	<0.000367	<0.00100	<0.000361	<0.000349
	MW-116	Oct-17		<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	<0.000367	<0.00100	<0.000361	<0.000349
TEL	MW-49	Apr-15		<0.000260	<0.000420	0.000537 J	<0.00100 J	0.00274	0.014	0.0175	<0.00380	0.0553 J	0.00117 J	0.00116	0.00957
	MW-49	Oct-15		<0.000260	<0.000418	0.00077 J	<0.00100	0.00457	0.0247	0.038	<0.00382	0.0447	0.00255 J	0.00158	0.0157
	MW-49	Apr-16		<0.00520	**<0.00836**	<0.00700	**<0.0200**	<0.00768	0.0219	0.054	<0.00382	0.0535	<0.0200	<0.00722	0.0206
	MW-49	Oct-16		<0.0260	**<0.0418**	<0.0350	**<0.100**	<0.0384	<0.0326	0.0831 J	<0.00382	0.0628 J	**<0.100**	<0.0361	<0.0349
	MW-49	Apr-17		<0.00260	<0.00418	<0.00350	**<0.0100**	0.00427 J	0.0218	0.0564	<0.0382	0.0811	<0.0100	<0.00361	0.0266
	MW-49	Oct-17		<0.00520	**<0.00836**	<0.00700	**<0.0200**	0.0184 J	0.0706	0.195	<0.0764	0.0712	<0.0200	<0.00722	0.0659
	TEL-1	Apr-15		<0.000260	<0.000420	<0.000350	<0.00100	<0.000380	<0.000330	<0.000720	<0.00380	0.00478	<0.00100	<0.000360	<0.000350
	TEL-1	Oct-15		<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	0.000924 J	<0.000719	<0.00382	0.00245	0.00102 J	<0.000361	<0.000349
	TEL-1	Apr-16		<0.000260	<0.000418	<0.000350	<0.00100	0.000718 J	0.00136	<0.000719	<0.00382	0.00229	<0.00100	<0.000361	<0.000349
	TEL-1	Oct-16		<0.000260	<0.000418	<0.000350	<0.00100	0.000666 J	0.001	<0.000719	<0.00382	0.000724 J	<0.00100	<0.000361	<0.000349
	TEL-1	Apr-17		<0.000260	<0.000418	<0.000350	<0.00100	0.000506 J	0.000391 J	<0.000719	<0.00382	0.00231	<0.00100	<0.000361	<0.000349
	TEL-1	Oct-17		<0.000260	<0.000418	<0.000350	<0.00100	0.00119	0.00311	0.00169 J	<0.00382	0.00285	<0.00100	<0.000361	0.000492 J
	TEL-2	Apr-15		<0.00520	**<0.00840**	<0.00700	**<0.0200** J	0.0119 J	0.0407	0.171	<0.0760	0.0113 JJ3	<0.0200	<0.00720	0.0462
	TEL-2	Oct-15		<0.00130	<0.00209	0.00397 J	<0.00500	0.00577	0.0405	0.146	<0.0191	0.0110	0.00630 J	0.00382 J	0.0487
	TEL-2	Apr-16		<0.000260	<0.000418	0.00438	<0.00100	0.00692	0.038	0.136	<0.00382	0.0156	0.00966	0.00424	0.0484
	TEL-2	Oct-16		<0.00260	<0.00418	<0.00350	**<0.0100**	0.00418 J	0.0325	0.116	<0.00382	0.0110	<0.0100	0.00404 J	0.0376
	TEL-2	Apr-17		<0.00260	<0.00418	<0.00350	**<0.0100**	<0.00384	0.023	0.0837	<0.0382	0.0104	<0.0100	<0.00361	0.027
	TEL-2	Oct-17		<0.00260	<0.00418	<0.00350	**<0.0100**	<0.00384	0.0442	0.101	<0.0382	0.00964 J	<0.0100	<0.00361	0.0408
	TEL-3	Apr-15		<0.00260	<0.00420	<0.00350	**<0.0100**	<0.00380	0.0471	0.00929 J	<0.0380	0.00560 J	<0.0100	<0.00360	0.00541 J
	TEL-3	Oct-15		<0.000260	<0.000418	0.00128	<0.00100	0.000880 J	0.0605	0.0171	<0.00382	0.000964 J	0.00123 J	0.00133	0.0092
	TEL-3	Apr-16		<0.00650	**<0.0104**	<0.00875	**<0.0250**	<0.00960	0.0593	<0.0180	<0.00382	0.0445	<0.0250	<0.00902	<0.00872
	TEL-3	Oct-16		<0.000260	<0.000418	0.000629 J	<0.00100	0.000539 J	0.0336	0.00823	<0.00382	0.00109	0.00107 J	0.00134	0.00792
	TEL-3	Apr-17		<0.000260	<0.000418	0.000657 J	<0.00100	0.000764 J	0.0465	0.00827	<0.00382	0.00327	<0.00100	0.00121	0.00869
	TEL-4	Apr-15		<0.00260	<0.00420	<0.00350	**<0.0100**	<0.00380	0.0332	0.0394	<0.0380	0.140	<0.0100	0.00396 J	0.0523
	TEL-4	Apr-15	FD	<0.00260	<0.00420	<0.00350	**<0.0100**	<0.00380	0.0334	0.0407	<0.0380	0.142	<0.0100	0.00405 J	0.0535
	TEL-4	Oct-15		<0.000260	<0.000418	0.00179	<0.00100	0.00655	0.053	0.0703	<0.00382	0.00902	0.00422 J	0.00309	0.0633
	TEL-4	Oct-15	FD	<0.00260	<0.00418	<0.00350	**<0.0100**	0.00756 J	0.0625	0.0837	<0.0382	0.0127	<0.0100	0.00385 J	0.0751
	TEL-4	Apr-16		<0.00260	<0.00418	<0.00341	**<0.0100**	0.0160	0.0745	0.142	<0.00382	0.105	<0.0100	0.00421 J	0.0955
	TEL-4	Apr-16	FD	<0.00260	<0.00418	<0.00341	**<0.0100**	0.0161	0.0771	0.147	<0.00382	0.0945	<0.0100	0.0045 J	0.0984
	TEL-4	Oct-16		<0.00260	<0.00418	<0.00350	**<0.0100**	<0.00384	0.0503	0.0668	<0.00382	0.0415	<0.0100	0.00422 J	0.0666
	TEL-4	Oct-16	FD	<0.00260	<0.00418	<0.00350	**<0.0100**	<0.00384	0.07	0.0863	<0.00382	0.0476	<0.0100	<0.00361	0.086
	TEL-4	Apr-17		<0.00260	<0.00418	<0.00350	**<0.0100**	<0.00384	0.0344	0.0243	<0.0382	0.0522	<0.0100	<0.00361	0.0423
	TEL-4	Apr-17	FD	<0.000260	<0.000418	0.000555 J	<0.00100	0.000616 J	0.0442	0.0281	<0.00382	0.0492	<0.00100	0.0043	0.0522
	TEL-4	Oct-17		<0.000260	<0.000418	<0.000350	<0.00100	0.000587 J	0.0621	0.0261	<0.00382	0.0975	<0.00100	0.00372	0.0691
	TEL-4	Oct-17	FD	<0.000260	<0.000418	0.000981 J	<0.00100	0.000497 J	0.0596	0.0235	<0.00382	0.0874	<0.00100	0.00336	0.0648
TMD	MW-8	Apr-14		<0.00060	<0.000600	<0.000500	<0.00100	<0.000500	<0.000500	<0.000600	<0.00100	0.00140 J	<0.000700	<0.00100	<0.000500
	MW-8	Apr-15		<0.000260	<0.000420	<0.000350	<0.00100	<0.000380	<0.000330	<0.000720	<0.00380	<0.000370	<0.00100	<0.000360	<0.000350
	MW-8	Apr-16		<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	<0.000367	<0.00100	<0.000361	<0.000349
	MW-8	Apr-17		<0.000260	<0.000418 J4	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382 J3 J4	0.00228	<0.00100 J4	<0.000361	<0.000349
	MW-16	Apr-14		<0.00060	<0.000600	<0.000500	<0.00100	<0.000500	<0.000500	<0.000600	<0.00100	<0.000600	<0.000700	<0.00100	<0.000500
	MW-16	Apr-15		<0.000260	<0.000420	<0.000350	<0.00100 J	<0.000380	<0.000330	<0.000720	<0.00380 J	<0.000370	<0.00100 J	<0.000360	<0.000350
	MW-16	Apr-17		<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	<0.000367	<0.00100	<0.000361	<0.000349
	MW-20	Apr-14		<0.00060	<0.000600	<0.000500	<0.00100	<0.000500	<0.000500	<0.000600	<0.00100	<0.000600	<0.000700	<0.00100	<0.000500
	MW-20	Apr-14	FD	<0.00060	<0.000600	<0.000500	<0.00100	<0.000500	<0.000500	<0.000600	<0.00100	<0.000600	<0.000700	<0.00100	<0.000500
	MW-20	Apr-15		<0.000260	<0.000420	<0.000350 J	<0.00100	<0.000380	<0.000330 J	<0.000720	<0.00380	<0.000370	<0.00100	<0.000360	<0.000350
	MW-20	Apr-16		<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	<0.000367	<0.00100	<0.000361	<0.000349
	MW-20	Apr-17		<0.000260	<0.000418 J4	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382 J3 J4	<0.000367	<0.00100 J4	<0.000361	<0.000349
	MW-21	Apr-15		<0.000260	<0.000420	<0.000350	<0.00100 J	<0.000380	<0.000330	<0.000720	<0.00380 J	0.00729	<0.00100 J	<0.000360	<0.000350
	MW-21	Oct-15		<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	0.00636	<0.00100	<0.000361	<0.000349
	MW-21	Apr-16		<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	0.0101	<0.00100	<0.000361	<0.000349
	MW-21	Oct-16		<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	0.0112	<0.00100	<0.000361	<0.000349
	MW-21	Apr-17		<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	0.0149	<0.00100	<0.000361	<0.000349
	MW-21	Oct-17		<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	0.0180	<0.00100	<0.000361	<0.000349
	MW-25	Apr-14		<0.00060	<0.000600	<0.000500	<0.00100	<0.000500	<0.000500	<0.000600	<0.00100	<0.000600	<0.000700	<0.00100	<0.000500
	MW-25	Apr-15		<0.000260	<0.000420	<0.000350	<0.00100 J	<0.000380	<0.000330	<0.000720	<0.00380 J	<0.000370	<0.00100 J	<0.000360	<0.000350
	MW-25	Apr-16		<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	<0.000367	<0.00100	<0.000361	<0.000349
	MW-25	Apr-17		<0.000260	<0.000418 J4	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382 J3 J4	<0.000367	<0.00100 J4	<0.000361	<0.000349

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

2017 Annual Groundwater Monitoring Report

HollyFrontier Navajo Refining LLC, Artesia Refinery, Artesia, New Mexico

				Analyte Group:	Volatile Organic Compounds											
				Analyte:	cis-1,2-Dichloroethene	cis-1,3-Dichloropropene	Cymene	Dichloromethane	Ethylbenzene	Isopropylbenzene	m,p-Xylene	Methyl N-Butyl Ketone	MTBE	Naphthalene	N-Butylbenzene	N-Propylbenzene
				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:	0.07	0.0047	---	0.005	0.7	0.447	---	---	0.143	0.03	---	---
				CGWSL Source:	USEPA MCL	USEPA TW		USEPA MCL	USEPA MCL	WQCC TW			WQCC TW	WQCC HH		
Area	**Well ID**	**Date**	**Dup**													
TMD	MW-26	Apr-14		<0.00060	<0.000600	<0.000500	<0.00100	<0.000500	<0.000500	<0.000600	<0.00100	<0.000600	<0.000700	<0.00100	<0.000500
	MW-26	Apr-15		<0.000260	<0.000420	<0.000350	<0.00100	<0.000380	<0.000330	<0.000720	<0.00380	<0.000370	<0.00100	<0.000360	<0.000350
	MW-26	Apr-16		<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	<0.000367	<0.00100	<0.000361	<0.000349
	MW-26	Apr-17		<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	<0.000367	<0.00100	<0.000361	<0.000349
	MW-27	Apr-14		<0.00060	<0.000600	<0.000500	<0.00100	<0.000500	<0.000500	<0.000600	<0.00100	<0.000600	<0.000700	<0.00100	<0.000500
	MW-27	Apr-15		<0.000260	<0.000420	<0.000350	<0.00100	<0.000380	<0.000330	<0.000720	<0.00380	<0.000370	<0.00100	<0.000360	<0.000350
	MW-27	Apr-16		<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	<0.000367	<0.00100	<0.000361	<0.000349
	MW-27	Apr-17		<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	<0.000367	<0.00100	<0.000361	<0.000349
	MW-46R	Nov-14		<0.000260	<0.000420	<0.000350	<0.00100	<0.000380	<0.000330	<0.000720	<0.00380	<0.000370	<0.00100	<0.000360	<0.000350
	MW-46R	Apr-15		<0.000260	<0.000420	<0.000350	<0.00100	<0.000380	<0.000330	<0.000720	<0.00380	<0.000370	<0.00100	<0.000360	<0.000350
	MW-46R	Apr-16		<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	<0.000367	<0.00100	<0.000361	<0.000349
	MW-46R	Oct-16		<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	<0.000367	<0.00100	<0.000361	<0.000349
	MW-46R	Apr-17		<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	<0.000367	<0.00100	<0.000361	<0.000349
	MW-46R	Oct-17		<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	<0.000367	<0.00100	<0.000361	<0.000349
	MW-68	Apr-14		<0.00060	<0.000600	<0.000500	<0.00100	<0.000500	<0.000500	<0.000600	<0.00100	<0.000600	<0.000700	<0.00100	<0.000500
	MW-68	Apr-15		<0.000260	<0.000420	<0.000350	<0.00100	<0.000380	<0.000330	<0.000720	<0.00380	<0.000370	<0.00100	<0.000360	<0.000350
	MW-68	Apr-16		<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	<0.000367	<0.00100	<0.000361	<0.000349
	MW-68	Apr-17		<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	<0.000367	<0.00100	<0.000361	<0.000349
	MW-71	Apr-14		<0.00060	<0.000600	<0.000500	<0.00100	<0.000500	<0.000500	<0.000600	<0.00100	<0.000600	<0.000700	<0.00100	<0.000500
	MW-71	Apr-15		<0.000260	<0.000420	<0.000350	<0.00100	<0.000380	<0.000330	<0.000720	<0.00380	<0.000370	<0.00100	<0.000360	<0.000350
	MW-71	Apr-16		<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	<0.000367	<0.00100	<0.000361	<0.000349
	MW-71	Apr-17		<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	<0.000367	<0.00100	<0.000361	<0.000349
	MW-89	Apr-14		<0.00060	<0.000600	<0.000500	<0.00100	<0.000500	<0.000500	<0.000600	<0.00100	<0.000600	<0.000700	<0.00100	<0.000500
	MW-89	Apr-15		<0.000260	<0.000420	<0.000350	<0.00100 J	<0.000380	<0.000330	<0.000720	<0.00380 J	<0.000370	<0.00100 J	<0.000360	<0.000350
	MW-89	Apr-16		<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	<0.000367	<0.00100	<0.000361	<0.000349
	MW-89	Apr-17		<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	<0.000367	<0.00100	<0.000361	<0.000349
	NP-1	Apr-15		<0.000260	<0.000420	<0.000350	<0.00100 J	<0.000380	<0.000330	<0.000720	<0.00380	**0.204**	<0.00100	<0.000360	<0.000350
	NP-1	Oct-15		<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	**0.291**	<0.00100	<0.000361	<0.000349
	NP-1	Apr-16		<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	**0.213**	<0.00100	<0.000361	<0.000349
	NP-1	Oct-16		<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	**0.283**	<0.00100	<0.000361	<0.000349
	NP-1	Apr-17		<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	**0.391**	<0.00100	<0.000361	<0.000349
	NP-1	Oct-17		<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	**0.407**	<0.00100	<0.000361	<0.000349
	NP-2	Apr-13		<0.00500	**<0.00500**	<0.00500	**<0.0100**	<0.00500	<0.00500	<0.0100	<0.0100	<0.00500	<0.00500	<0.00500	<0.00500
	NP-6	Apr-13		<0.00500	**<0.00500**	<0.00500	**<0.0100**	<0.00500	<0.00500	<0.0100	<0.0100	<0.00500	<0.00500	<0.00500	<0.00500
	NP-6	Apr-15		<0.000260	<0.000420	<0.000350	<0.00100 J	<0.000380	<0.000330	<0.000720	<0.00380 J	0.00878	<0.00100 J	<0.000360	<0.000350
	NP-6	Apr-17		<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	0.0353	<0.00100	<0.000361	<0.000349
Up-Gradient	UG-1	Apr-14		<0.00060	<0.000600	<0.000500	<0.00100	<0.000500	<0.000500	<0.000600	<0.00100	<0.000600	<0.000700	<0.00100	<0.000500
	UG-1	Apr-15		<0.000260	<0.000420	<0.000350	<0.00100	<0.000380	<0.000330	<0.000720	<0.00380	<0.000370	<0.00100	<0.000360	<0.000350
	UG-1	Apr-16		<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	<0.000367	<0.00100	<0.000361	<0.000349
	UG-1	Apr-17		<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	<0.000367	<0.00100	<0.000361	<0.000349
	UG-2	Apr-14		<0.00060	<0.000600	<0.000500	<0.00100	<0.000500	<0.000500	<0.000600	<0.00100	<0.000600	<0.000700	<0.00100	<0.000500
	UG-2	Apr-15		<0.000260	<0.000420	<0.000350	<0.00100	<0.000380	<0.000330	<0.000720	<0.00380	<0.000370	<0.00100	<0.000360	<0.000350
	UG-2	Apr-16		<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	<0.000367	<0.00100	<0.000361	<0.000349
	UG-2	Apr-17		<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	<0.000367	<0.00100	<0.000361	<0.000349
	UG-3R	Apr-14		<0.00060	<0.000600	<0.000500	<0.00100	<0.000500	<0.000500	<0.000600	<0.00100	<0.000600	<0.000700	<0.00100	<0.000500
	UG-3R	Apr-14	FD	<0.00060	<0.000600	<0.000500	<0.00100	<0.000500	<0.000500	<0.000600	<0.00100	<0.000600	<0.000700	<0.00100	<0.000500
	UG-3R	Apr-15		<0.000260	<0.000420	<0.000350	<0.00100	<0.000380	<0.000330	<0.000720	<0.00380	<0.000370	<0.00100	<0.000360	<0.000350
	UG-3R	Apr-16		<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	<0.000367	<0.00100	<0.000361	<0.000349
	UG-3R	Apr-17		<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	<0.000367	<0.00100	<0.000361	<0.000349
	UG-4	Apr-16		<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	<0.000367	<0.00100	<0.000361	<0.000349
	UG-4	Apr-17		<0.000260	<0.000418	<0.000350	<0.00100	<0.000384	<0.000326	<0.000719	<0.00382	<0.000367	<0.00100	<0.000361	<0.000349

Definitions

X	F
X	A
<x	A
<x	A
	E
---	N

Abbreviations

CGWSL	C
CGWSL Source	S
Dup	D
FD	F
mg/L	M
NMED TPH	N
NMED TW	N
TPH	T
USEPA TW	U
USEPA MCL	U
WQCC HH	N

Lab Footnote

B	A
J	I
J3	T
J4	T
J6	T

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

2017 Annual Groundwater Monitoring Report

HollyFrontier Navajo Refining LLC, Artesia Refinery, Artesia, New Mexico

				Analyte Group:										
				Analyte:	o-Xylene	Styrene (Monomer)	Tetra-chloro-ethene	Toluene	Total Xylenes	trans-1,2-Dichloro-ethene	trans-1,3-Dichloro-propene	Tribromo-methane	Trichloro-ethene	Vinyl Chloride
				Units:	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
				CGWSL:	0.193	0.1	0.005	0.75	0.62	0.1	0.0047	---	0.005	1.00E-03
				CGWSL Source:	WQCC TW	USEPA MCL	USEPA MCL	WQCC HH	WQCC HH	USEPA MCL	USEPA TW	USEPA TW	USEPA MCL	WQCC HH
Area	**Well ID**	**Date**	**Dup**											
Cross-Gradient	KWB-13	Apr-14		<0.000500	<0.000500	<0.000600	<0.000500	<0.00150	<0.000400	<0.000600		<0.000500	<0.000400
	KWB-13	Apr-15		<0.000340	<0.000310	<0.000370	<0.000780	0.00254 J	<0.000400	<0.000420	<0.000470	<0.000400	<0.000260
	KWB-13	Apr-16		<0.000341	<0.00100	<0.000372	<0.000780	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	KWB-13	Apr-17		<0.000341	<0.000307	<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	MW-17	Apr-14											
	NP-5	Apr-13		<0.00500	<0.00500	<0.00500	<0.00500	<0.0150	<0.00500	**<0.00500**	<0.00500	<0.00500	<0.00200
	NP-5	Apr-15		<0.000340	<0.000310	<0.000370	<0.000780	<0.00110	<0.000400	<0.000420	<0.000470	<0.000400	<0.000260
	NP-5	Apr-17		<0.000341	<0.000307	<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	RA-3156	Nov-13		<0.00500	<0.00500	<0.00500	<0.00500	<0.0150	<0.00500	**<0.00500**	<0.00500	<0.00500	<0.00200
	RA-3156	Apr-14		<0.000500	<0.000500	<0.000600	<0.000500	<0.00150	<0.000400	<0.000600	<0.000469	<0.000500	<0.000400
	RA-3156	Apr-16		<0.000341	<0.00100	<0.000372	<0.000780	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	RA-3156	Apr-17		<0.000341	<0.000307	<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.0000469	<0.000398	<0.000259
	MW-136	Oct-15		<0.000341	<0.000307	<0.000372	<0.000780	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	MW-136	Apr-16		<0.000341	<0.00100	<0.000372	<0.000780	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	MW-136	Oct-16		<0.000341	<0.000307	<0.000372	<0.000780	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	MW-136	Apr-17		<0.000341	<0.000307	<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	MW-136	Oct-17		<0.000341	<0.000307	<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
Evaporation Ponds	MW-1R	Apr-14		<0.000500	<0.000500	<0.000600	<0.000500	<0.00150	<0.000400	<0.000600		<0.000500	<0.000400
	MW-1R	Apr-15		<0.000340	<0.000310	<0.000370	<0.000780	<0.00110	<0.000400	<0.000420	<0.000470	<0.000400	<0.000260
	MW-1R	Apr-16		<0.000341	<0.00100	<0.000372	<0.000780	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	MW-1R	Apr-17		<0.000341	<0.000307	<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	MW-2A	Apr-15		<0.000340	<0.000310	<0.000370	<0.000780	<0.00110	<0.000400	<0.000420	<0.000470	<0.000400	<0.000260
	MW-2A	Oct-15		<0.000341	<0.000307	<0.000372	<0.000780	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	MW-2A	Apr-16		<0.000341	<0.00100	<0.000372	<0.000780	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	MW-2A	Oct-16		<0.000341	<0.000307	<0.000372	<0.000780	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	MW-2A	Apr-17		<0.00341	<0.00307	<0.00372	<0.00412	<0.0106	<0.00396	<0.00419	<0.00469	<0.00398	<0.00259
	MW-2A	Oct-17		<0.000341	<0.000307	<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	MW-3	Apr-15		<0.000340	<0.000310	<0.000370	<0.000780	<0.00110	<0.000400	<0.000420	<0.000470	<0.000400	<0.000260
	MW-3	Apr-15	FD	<0.000340	<0.000310	<0.000370	<0.000780	<0.00110	<0.000400	<0.000420	<0.000470	<0.000400	<0.000260
	MW-3	Oct-15		<0.000341	<0.000307	<0.000372	<0.000780	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	MW-3	Oct-15	FD	<0.000341	<0.000307	<0.000372	<0.000780	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	MW-3	Apr-16		<0.000341	<0.00100	<0.000372	<0.000780	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	MW-3	Apr-16	FD	<0.000341	<0.00100	<0.000372	<0.000780	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	MW-3	Oct-16		<0.000341	<0.000307	<0.000372	<0.000780	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	MW-3	Oct-16	FD	<0.000341	<0.000307	<0.000372	<0.000780	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	MW-3	Apr-17		<0.000341	<0.000307	<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	MW-3	Apr-17	FD	<0.000341	<0.000307	<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	MW-3	Oct-17		<0.000341	<0.000307	<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	MW-3	Oct-17	FD	<0.000341	<0.000307	<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	MW-4A	Apr-15		0.000658 J	<0.000310	<0.000370	<0.000780	0.00293 J	<0.000400	<0.000420	<0.000470	<0.000400	<0.000260
	MW-4A	Oct-15		<0.000341	<0.000307	<0.000372	<0.000780	0.00237 J	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	MW-4A	Apr-16		0.000352 J	<0.00100	<0.000372	<0.000780	0.00201 J	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	MW-4A	Oct-16		0.000870 J	<0.000307	<0.000372	<0.000780	0.00365	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	MW-4A	Apr-17		<0.000341	<0.000307	<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	MW-4A	Oct-17		0.000597 J	<0.000307	<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	MW-4B	Apr-13		<0.00500	<0.00500	<0.00500	<0.00500	<0.0150	<0.00500	**<0.00500**	<0.00500	<0.00500	<0.00200
	MW-4B	Apr-15		<0.000340	<0.000310	<0.000370	<0.000780	<0.00110	<0.000400	<0.000420	<0.000470	<0.000400	<0.000260
	MW-4B	Apr-17		<0.000341	<0.000307	<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	MW-5A	Apr-15		<0.000340	<0.000310	<0.000370	<0.000780	<0.00110	<0.000400	<0.000420	<0.000470	<0.000400	<0.000260
	MW-5A	Oct-15		<0.000341	<0.000307	<0.000372	<0.000780	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	MW-5A	Apr-16		<0.000341	<0.00100	<0.000372	<0.000780	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	MW-5A	Oct-16		<0.000341	<0.000307	<0.000372	<0.000780	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	MW-5A	Apr-17		<0.000341	<0.000307	<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	MW-5A	Oct-17		<0.000341	<0.000307	<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	MW-5B	Apr-13		<0.00500	<0.00500	<0.00500	<0.00500	<0.0150	<0.00500	**<0.00500**	<0.00500	<0.00500	<0.00200
	MW-5B	Apr-15		<0.000340	<0.000310	<0.000370	<0.000780	<0.00110	<0.000400	<0.000420	<0.000470	<0.000400	<0.000260
	MW-5B	Apr-17		<0.000341	<0.000307	<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	MW-5C	Apr-13		<0.00500	<0.00500	<0.00500	<0.00500	<0.0150	<0.00500	**<0.00500**	<0.00500	<0.00500	<0.00200
	MW-5C	Apr-15		<0.000340	<0.000310	<0.000370	<0.000780	<0.00110	<0.000400	<0.000420	<0.000470	<0.000400	<0.000260
	MW-5C	Apr-17		<0.000341	<0.000307	<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	MW-6A	Apr-14		0.00160 J	<0.000500	<0.000600	<0.000500	0.00160 J	<0.000400	<0.000600		<0.000500	<0.000400
	MW-6A	Apr-15		0.000920 J	<0.000310	<0.000370	<0.000780	<0.00110	<0.000400	<0.000420	<0.000470	<0.000400	<0.000260
	MW-6A	Apr-16		0.00119	<0.00100	<0.000372	<0.000780	0.00119 J	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	MW-6A	Apr-17		<0.00341	<0.00307	<0.00372	<0.00412	<0.0106	<0.00396	<0.00419	<0.00469	<0.00398	<0.00259
	MW-6B	Mar-13		<0.00500	<0.00500	<0.00500	<0.00500	<0.0150	<0.00500	**<0.00500**	<0.00500	<0.00500	<0.00200
	MW-6B	Mar-13	FD	<0.00500	<0.00500	<0.00500	<0.00500	<0.0150	<0.00500	**<0.00500**	<0.00500	<0.00500	<0.00200
	MW-6B	Apr-15		<0.000340	<0.000310	<0.000370	<0.000780	<0.00110	<0.000400	<0.000420	<0.000470	<0.000400	<0.000260
	MW-6B	Apr-17		<0.000341	<0.000307	<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	MW-7A	Apr-15		<0.000340	<0.000310	<0.000370	<0.000780	<0.00110	<0.000400	<0.000420	<0.000470	<0.000400	<0.000260
	MW-7A	Apr-15	FD	<0.000340	<0.000310	<0.000370	<0.000780	<0.00110	<0.000400	<0.000420	<0.000470	<0.000400	<0.000260
	MW-7A	Oct-15		<0.000341	<0.000307	<0.000372	<0.000780	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	MW-7A	Oct-15	FD	<0.000341	<0.000307	<0.000372	<0.000780	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	MW-7A	Apr-16		<0.000341	<0.00100	<0.000372	<0.000780	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	MW-7A	Apr-16	FD	<0.000341	<0.00100	<0.000372	<0.000780	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	MW-7A	Oct-16		<0.000341	<0.000307	<0.000372	<0.000780	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	MW-7A	Oct-16	FD	<0.000341	<0.000307	<0.000372	<0.000780	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	MW-7A	Apr-17		<0.000341	<0.000307	<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	MW-7A	Apr-17	FD	<0.000341	<0.000307	<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	MW-7A	Oct-17		<0.000341	<0.000307	<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	MW-7A	Oct-17	FD	<0.000341	<0.000307	<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	MW-7B	Apr-13		<0.00500	<0.00500	<0.00500	<0.00500	<0.0150	<0.00500	**<0.00500**	<0.00500	<0.00500	<0.00200
	MW-7B	Apr-15		<0.000340	<0.000310	<0.000370	<0.000780	<0.00110	<0.000400	<0.000420	<0.000470	<0.000400	<0.000260
	MW-7B	Apr-17		<0.000341	<0.000307	<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	MW-10	Apr-15		<0.000340	<0.000310 J	<0.000370	<0.000780 J	<0.00110	<0.000400	<0.000420	<0.000470	<0.000400	<0.000260
	MW-10	Oct-15		<0.000341	<0.000307	<0.000372	<0.000780	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	MW-10	Apr-16		<0.000341	<0.00100	<0.000372	<0.000780	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	MW-10	Oct-16		<0.000341	<0.000307	<0.000372	<0.000780	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	MW-10	Apr-17		<0.000341	<0.000307	<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	MW-10	Oct-17		<0.000341	<0.000307	<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	MW-11A	Apr-15		<0.000340	<0.000310	<0.000370	<0.000780	<0.00110	<0.000400	<0.000420	<0.000470	<0.000400	<0.000260
	MW-11A	Oct-15											
	MW-11A	Apr-16		<0.000341	<0.00100	<0.000372	<0.000780	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	MW-11A	Oct-16											
	MW-11A	Apr-17		<0.000341	<0.000307	<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	MW-11A	Oct-17											
	MW-11B	Mar-13		<0.00500	<0.00500	<0.00500	<0.00500	<0.0150	<0.00500	**<0.00500**	<0.00500	<0.00500	<0.00200
	MW-11B	Apr-15		<0.000340	<0.000310	<0.000370	<0.000780	<0.00110	<0.000400	<0.000420	<0.000470	<0.000400	<0.000260
	MW-11B	Apr-17		<0.000341	<0.000307	<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	MW-12	Apr-14											
	MW-13	Apr-14											
	MW-15	Apr-14		<0.000500	<0.000500	<0.000600	<0.000500	<0.00150	<0.000400	<0.000600		<0.000500	<0.000400
	MW-15	Apr-15		<0.000340	<0.000310	<0.000370	<0.000780	<0.00110	<0.000400	<0.000420	<0.000470	<0.000400	<0.000260
	MW-15	Apr-16		<0.000341	<0.00100	<0.000372	<0.000780	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	MW-15	Apr-17		<0.000341	<0.000307	<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259

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

2017 Annual Groundwater Monitoring Report

HollyFrontier Navajo Refining LLC, Artesia Refinery, Artesia, New Mexico

Area	Well ID	Date	Dup	o-Xylene	Styrene (Monomer)	Tetra-chloro-ethene	Toluene	Total Xylenes	trans-1,2-Dichloro-ethene	trans-1,3-Dichloro-propene	Tribromo-methane	Trichloro-ethene	Vinyl Chloride
Analyte Group:													
Analyte:				o-Xylene	Styrene (Monomer)	Tetra-chloro-ethene	Toluene	Total Xylenes	trans-1,2-Dichloro-ethene	trans-1,3-Dichloro-propene	Tribromo-methane	Trichloro-ethene	Vinyl Chloride
Units:				mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
CGWSL:				0.193	0.1	0.005	0.75	0.62	0.1	0.0047	---	0.005	1.00E-03
CGWSL Source:				WQCC TW	USEPA MCL	USEPA MCL	WQCC HH	WQCC HH	USEPA MCL	USEPA TW	USEPA TW	USEPA MCL	WQCC HH
Evaporation Ponds	MW-18A	Apr-15		<0.000340	<0.000310	<0.000370	<0.000780	<0.00110	<0.000400	<0.000420	<0.000470	<0.000400	<0.000260
	MW-18A	Oct-15		<0.000341	<0.000307	<0.000372	<0.000780	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	MW-18A	Apr-16		<0.000341	<0.00100	<0.000372	<0.000780	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	MW-18A	Oct-16		<0.000341	<0.000307	<0.000372	<0.000780	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	MW-18A	Apr-17		<0.000341	<0.000307	<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	MW-18A	Oct-17		<0.000341	<0.000307	<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	MW-18B	Apr-13		<0.00500	<0.00500	<0.00500	<0.00500	<0.0150	<0.00500	**<0.00500**	<0.00500	<0.00500	<0.00200
	MW-18B	Apr-15		<0.000340	<0.000310	<0.000370	<0.000780	<0.00110	<0.000400	<0.000420	<0.000470	<0.000400	<0.000260
	MW-18B	Apr-17		<0.000341	<0.000307	<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	MW-22A	Apr-15		<0.000340	<0.000310 J	<0.000370	<0.000780 J	<0.00110	<0.000400	<0.000420	<0.000470	<0.000400	<0.000260
	MW-22A	Apr-15	FD	<0.000340	<0.000310	<0.000370	<0.000780	<0.00110	<0.000400	<0.000420	<0.000470	<0.000400	<0.000260
	MW-22A	Oct-15		<0.000341	<0.000307	<0.000372	<0.000780	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	MW-22A	Oct-15	FD	<0.000341	<0.000307	<0.000372	<0.000780	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	MW-22A	Apr-16		<0.000341	<0.00100	<0.000372	<0.000780	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	MW-22A	Apr-16	FD	<0.000341	<0.00100	<0.000372	<0.000780	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	MW-22A	Oct-16		<0.000341	<0.000307	<0.000372	<0.000780	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	MW-22A	Oct-16	FD	<0.000341	<0.000307	<0.000372	<0.000780	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	MW-22A	Apr-17		<0.000341	<0.000307	<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	MW-22A	Apr-17	FD	<0.000341	<0.000307	<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	MW-22A	Oct-17		<0.000341	<0.000307	<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	MW-22A	Oct-17	FD	<0.000341	<0.000307	<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	MW-22B	Apr-13		<0.00500	<0.00500	<0.00500	<0.00500	<0.0150	<0.00500	**<0.00500**	<0.00500	<0.00500	<0.00200
	MW-22B	Apr-15		<0.000340	<0.000310 J	<0.000370	<0.000780 J	<0.00110	<0.000400	<0.000420	<0.000470	<0.000400	<0.000260
	MW-22B	Apr-17		<0.000341	<0.000307	<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	MW-70	Apr-15		<0.000340	<0.000310	<0.000370	<0.000780	<0.00110	<0.000400	<0.000420	<0.000470	<0.000400	<0.000260
	MW-70	Oct-15		<0.000341	<0.000307	<0.000372	<0.000780	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	MW-70	Apr-16		<0.000341	<0.00100	<0.000372	<0.000780	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	MW-70	Oct-16		<0.000341	<0.000307	<0.000372	<0.000780	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	MW-70	Apr-17		<0.000341	<0.000307	<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	MW-70	Oct-17		<0.000341	<0.000307	<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	MW-72	Apr-14		<0.000500	<0.000500	<0.000600	<0.000500	<0.00150	<0.000400	<0.000600		<0.000500	<0.000400
	MW-72	Apr-15		<0.000340	<0.000310	<0.000370	<0.000780	<0.00110	<0.000400	<0.000420	<0.000470	<0.000400	<0.000260
	MW-72	Apr-16		<0.000341	<0.00100	<0.000372	<0.000780	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	MW-72	Apr-17		<0.000341	<0.000307	<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	MW-73	Apr-14		<0.000500	<0.000500	<0.000600	<0.000500	<0.00150	<0.000400	<0.000600		<0.000500	<0.000400
	MW-73	Apr-15		<0.000340	<0.000310	<0.000370	<0.000780	<0.00110	<0.000400	<0.000420	<0.000470	<0.000400	<0.000260
	MW-73	Apr-16		<0.000341	<0.00100	<0.000372	<0.000780	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	MW-73	Apr-17		<0.000341	<0.000307	<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	MW-74	Apr-15		<0.000340	<0.000310	<0.000370	<0.000780	<0.00110	<0.000400	<0.000420	<0.000470	<0.000400	<0.000260
	MW-74	Oct-15		<0.000341	<0.000307	<0.000372	<0.000780	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	MW-74	Apr-16		<0.000341	<0.00100	<0.000372	<0.000780	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	MW-74	Oct-16		<0.000341	<0.000307	<0.000372	<0.000780	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	MW-74	Apr-17		<0.000341	<0.000307	<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	MW-74	Oct-17		<0.000341	<0.000307	<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	MW-75	Apr-15		<0.00340	<0.00310	<0.00370	<0.00780	<0.0110	<0.00400	<0.00420	<0.00470	<0.00400	<0.00260
	MW-75	Oct-15		<0.000341	<0.000307	<0.000372	<0.000780	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	MW-75	Apr-16		<0.000341	<0.00100	<0.000372	<0.000780	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	MW-75	Oct-16		<0.000341	<0.000307	<0.000372	<0.000780	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	MW-75	Apr-17		<0.000341	<0.000307	<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	MW-75	Oct-17		<0.000341	<0.000307	<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	MW-76	Apr-15		<0.000340	<0.000310	<0.000370	<0.000780	<0.00110	<0.000400	<0.000420	<0.000470	<0.000400	<0.000260
	MW-76	Oct-15		<0.000341	<0.000307	<0.000372	<0.000780	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	MW-76	Apr-16		<0.000341	<0.00100	<0.000372	<0.000780	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	MW-76	Oct-16		<0.000341	<0.000307	<0.000372	<0.000780	0.00214 J	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	MW-76	Apr-17		<0.000341	<0.000307	<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	MW-76	Oct-17		<0.000341	<0.000307	<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	MW-77	Apr-15		0.00101	<0.000310	<0.000370	0.00216 J	0.00531	<0.000400	<0.000420	<0.000470	<0.000400	<0.000260
	MW-77	Oct-15		0.00112	<0.000307	<0.000372	0.00386 J	0.00589	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	MW-77	Apr-16		0.000583 J	<0.00100	<0.000372	0.00138 J	0.00390	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	MW-77	Oct-16		<0.00341	<0.00307	<0.00372	<0.00780	<0.0106	<0.00396	<0.00419	<0.000469	<0.00398	<0.00259
	MW-77	Apr-17		<0.00341	<0.00307	<0.00372	<0.00412	<0.0106	<0.00396	<0.00419	<0.00469	<0.00398	<0.00259
	MW-78	Apr-14		0.00210 J	<0.000500	<0.000600	0.00140 J	0.00210 J	<0.000400	<0.000600		<0.000500	<0.000400
	MW-78	Apr-15		0.00356	<0.000310	<0.000370	0.00385 J	0.00502	<0.000400	<0.000420	<0.000470	<0.000400	<0.000260
	MW-78	Apr-16		0.00135	<0.00100	<0.000372	0.00125 J	0.00135 J	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	MW-78	Apr-17		<0.00341	<0.00307	<0.00372	<0.00412	<0.0106	<0.00396	<0.00419	<0.00469	<0.00398	<0.00259
	MW-79	Apr-15		<0.000340	<0.000310	<0.000370	<0.000780	<0.00110	<0.000400	<0.000420	<0.000470	<0.000400	<0.000260
	MW-79	Oct-15		<0.000341	<0.000307	<0.000372	<0.000780	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	MW-79	Apr-16		<0.000341	<0.00100	<0.000372	<0.000780	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	MW-79	Oct-16		<0.000341	<0.000307	<0.000372	<0.000780	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	MW-79	Apr-17		<0.00341	<0.00307	<0.00372	<0.00412	<0.0106	<0.00396	<0.00419	<0.00469	<0.00398	<0.00259
	MW-79	Oct-17		<0.000341	<0.000307	<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	MW-80	Apr-14		<0.000500	<0.000500	<0.000600	<0.000500	<0.00150	<0.000400	<0.000600		<0.000500	<0.000400
	MW-80	Apr-15		<0.000340	<0.000310	<0.000370	<0.000780	<0.00110	<0.000400	<0.000420	<0.000470	<0.000400	<0.000260
	MW-80	Apr-16		<0.000341	<0.00100	<0.000372	<0.000780	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	MW-80	Apr-17		<0.000341	<0.000307	<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	MW-81	Apr-14		<0.000500	<0.000500	<0.000600	<0.000500	<0.00150	<0.000400	<0.000600		<0.000500	<0.000400
	MW-81	Apr-15		<0.000340	<0.000310	<0.000370	<0.000780	<0.00110	<0.000400	<0.000420	<0.000470	<0.000400	<0.000260
	MW-81	Apr-16		<0.000341	<0.00100	<0.000372	<0.000780	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	MW-81	Apr-17		<0.000341	<0.000307	<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	MW-82	Apr-14		<0.000500	<0.000500	<0.000600	<0.000500	<0.00150	<0.000400	<0.000600		<0.000500	<0.000400
	MW-82	Apr-14	FD	<0.000500	<0.000500	<0.000600	<0.000500	<0.00150	<0.000400	<0.000600		<0.000500	<0.000400
	MW-82	Apr-15		<0.000340	<0.000310	<0.000370	<0.000780	<0.00110	<0.000400	<0.000420	<0.000470	<0.000400	<0.000260
	MW-82	Apr-16		<0.000341	<0.00100	<0.000372	<0.000780	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	MW-82	Apr-17		<0.000341	<0.000307	<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	MW-83	Apr-15		0.000607 J	<0.000310	<0.000370	<0.000780	<0.00110	<0.000400	<0.000420	<0.000470	<0.000400	<0.000260
	MW-83	Oct-15		<0.000341	<0.000307	<0.000372	<0.000780	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	MW-83	Apr-16		<0.000341	<0.00100	<0.000372	<0.000780	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	MW-83	Oct-16		0.000569 J	<0.000307	<0.000372	<0.000780	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	MW-83	Apr-17		<0.00341	<0.00307	<0.00372	<0.00412	<0.0106	<0.00396	<0.00419	<0.00469	<0.00398	<0.00259
	MW-83	Oct-17		0.00120	<0.000307	<0.000372	<0.000412	0.00240 J	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	MW-84	Apr-15		<0.000340	<0.000310	<0.000370	<0.000780	<0.00110	<0.000400	<0.000420	<0.000470	<0.000400	<0.000260
	MW-84	Oct-15		<0.000341	<0.000307	<0.000372	<0.000780	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	MW-84	Apr-16		<0.000341	<0.00100	<0.000372	<0.000780	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	MW-84	Oct-16		<0.00341	<0.00307	<0.00372	<0.00780	<0.0106	<0.00396	<0.00419	<0.000469	<0.00398	<0.00259
	MW-84	Apr-17		<0.00341	<0.00307	<0.00372	<0.00412	<0.0106	<0.00396	<0.00419	<0.00469	<0.00398	<0.00259
	MW-84	Oct-17		<0.000341	<0.000307	<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	MW-87	Apr-15		<0.000340	<0.000310	<0.000370	<0.000780	<0.00110	<0.000400	<0.000420	<0.000470	<0.000400	<0.000260
	MW-87	Oct-15		<0.000341	<0.000307	<0.000372	<0.000780	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	MW-87	Apr-16		<0.000341	<0.00100	<0.000372	<0.000780	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	MW-87	Oct-16		<0.000341	<0.000307	<0.000372	<0.000780	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	MW-87	Apr-17		<0.000341	<0.000307	<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	MW-87	Oct-17		<0.000341	<0.000307	<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259

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

2017 Annual Groundwater Monitoring Report

HollyFrontier Navajo Refining LLC, Artesia Refinery, Artesia, New Mexico

			Analyte Group:										
			Analyte:	o-Xylene	Styrene (Monomer)	Tetra-chloro-ethene	Toluene	Total Xylenes	trans-1,2-Dichloro-ethene	trans-1,3-Dichloro-propene	Tribromo-methane	Trichloro-ethene	Vinyl Chloride
			Units:	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
			CGWSL:	0.193	0.1	0.005	0.75	0.62	0.1	0.0047	---	0.005	1.00E-03
			CGWSL Source:	WQCC TW	USEPA MCL	USEPA MCL	WQCC HH	WQCC HH	USEPA MCL	USEPA TW	USEPA TW	USEPA MCL	WQCC HH
Area	**Well ID**	**Date**	**Dup**										
Evaporation Ponds	MW-88	Apr-15		<0.000340	<0.000310	<0.000370	<0.000780	<0.00110	<0.000400	<0.000420	<0.000470	<0.000400	<0.000260
	MW-88	Oct-15		<0.000341	<0.000307	<0.000372	<0.000780	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	MW-88	Apr-16		<0.000341	<0.00100	<0.000372	<0.000780	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	MW-88	Oct-16		<0.000341	<0.000307	<0.000372	<0.000780	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	MW-88	Apr-17		<0.000341	<0.000307	<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	MW-88	Oct-17		<0.000341	<0.000307	<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	MW-120	Apr-15		<0.000340	<0.000310	<0.000370	<0.000780	<0.00110	<0.000400	<0.000420	<0.000470	<0.000400	<0.000260
	MW-120	Oct-15		<0.000341	<0.000307	<0.000372	<0.000780	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	MW-120	Apr-16		<0.000341	<0.00100	<0.000372	<0.000780	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	MW-120	Oct-16		<0.000341	<0.000307	<0.000372	<0.000780	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	MW-120	Apr-17		<0.00341	<0.00307	<0.00372	<0.00412	<0.0106	<0.00396	<0.00419	<0.00469	<0.00398	<0.00259
	MW-120	Oct-17		<0.000341	<0.000307	<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	MW-121	Apr-15		<0.000340	<0.000310	<0.000370	<0.000780	<0.00110	<0.000400	<0.000420	<0.000470	<0.000400	<0.000260
	MW-121	Oct-15		<0.000341	<0.000307	<0.000372	<0.000780	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	MW-121	Apr-16		<0.000341	<0.00100	<0.000372	<0.000780	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	MW-121	Oct-16		<0.000341	<0.000307	<0.000372	<0.000780	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	MW-121	Apr-17		<0.000341	<0.000307	<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	MW-121	Oct-17		<0.000341	<0.000307	<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	MW-122	Apr-15		<0.000340	<0.000310	<0.000370	<0.000780	<0.00110	<0.000400	<0.000420	<0.000470	<0.000400	<0.000260
	MW-122	Oct-15		<0.000341	<0.000307	<0.000372	<0.000780	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	MW-122	Apr-16		<0.000341	<0.00100	<0.000372	<0.000780	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	MW-122	Oct-16		<0.000341	<0.000307	<0.000372	<0.000780	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	MW-122	Apr-17		<0.00341	<0.00307	<0.00372	<0.00412	<0.0106	<0.00396	<0.00419	<0.00469	<0.00398	<0.00259
	MW-122	Oct-17		<0.000341	<0.000307	<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	MW-123	Apr-15		<0.000340	<0.000310	<0.000370	<0.000780	<0.00110	<0.000400	<0.000420	<0.000470	<0.000400	<0.000260
	MW-123	Oct-15		<0.000341	<0.000307	<0.000372	<0.000780	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	MW-123	Apr-16		<0.000341	<0.00100	<0.000372	<0.000780	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	MW-123	Oct-16		<0.000341	<0.000307	<0.000372	<0.000780	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	MW-123	Apr-17		<0.000341	<0.000307	<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	MW-123	Oct-17		<0.000341	<0.000307	<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	MW-124	Apr-15		<0.000340	<0.000310	<0.000370	<0.000780	<0.00110	<0.000400	<0.000420	<0.000470	<0.000400	<0.000260
	MW-124	Oct-15		<0.000341	<0.000307	<0.000372	<0.000780	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	MW-124	Apr-16		<0.000341	<0.00100	<0.000372	<0.000780	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	MW-124	Oct-16		<0.000341	<0.000307	<0.000372	<0.000780	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	MW-124	Apr-17		<0.000341	<0.000307	<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	MW-124	Oct-17		<0.000341	<0.000307	<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	OCD-1R	Apr-15		<0.000340	<0.000310	<0.000370	<0.000780	<0.00110	<0.000400	<0.000420	<0.000470	<0.000400	<0.000260
	OCD-1R	Oct-15		<0.000341	<0.000307	<0.000372	<0.000780	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	OCD-1R	Apr-16		<0.000341	<0.00100	<0.000372	<0.000780	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	OCD-1R	Oct-16		<0.000341	<0.000307	<0.000372	<0.000780	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	OCD-1R	Apr-17		<0.000341	<0.000307	<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	OCD-1R	Oct-17		<0.000341	<0.000307	<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	OCD-2A	Apr-15		<0.000340	<0.000310 J	<0.000370	<0.000780 J	<0.00110	<0.000400	<0.000420	<0.000469	<0.000400	<0.000260
	OCD-2A	Oct-15		<0.000341	<0.000307	<0.000372	<0.000780	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	OCD-2A	Apr-16		<0.000341	<0.000307	<0.000372	<0.000780	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	OCD-2A	Oct-16		<0.000341	<0.000307	<0.000372	<0.000780	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	OCD-2A	Apr-17		<0.000341	<0.000307	<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	OCD-2A	Oct-17		<0.000341	<0.000307	<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	OCD-3	Apr-15		<0.000340	<0.000310	<0.000370	<0.000780	<0.00110	<0.000400	<0.000420	<0.000470	<0.000400	<0.000260
	OCD-3	Oct-15		<0.000341	<0.000307	<0.000372	<0.000780	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	OCD-3	Apr-16		<0.000341	<0.000307	<0.000372	<0.000780	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	OCD-3	Oct-16		<0.000341	<0.000307	<0.000372	<0.000780	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	OCD-3	Apr-17		<0.000341	<0.000307	<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	OCD-3	Oct-17		<0.000341	<0.000307	<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	OCD-4	Apr-15		<0.000340	<0.000310	<0.000370	<0.000780	<0.00110	<0.000400	<0.000420	<0.000470	<0.000400	<0.000260
	OCD-4	Oct-15		<0.000341	<0.000307	<0.000372	<0.000780	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	OCD-4	Apr-16		<0.000341	<0.000307	<0.000372	<0.000780	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	OCD-4	Oct-16		<0.000341	<0.000307	<0.000372	<0.000780	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	OCD-4	Apr-17		<0.000341	<0.000307	<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	OCD-4	Oct-17		<0.000341	<0.000307	<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	OCD-5	Apr-15		<0.000340	<0.000310	<0.000370	<0.000780	<0.00110	<0.000400	<0.000420	<0.000470	<0.000400	<0.000260
	OCD-5	Oct-15		<0.000341	<0.000307	<0.000372	<0.000780	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	OCD-5	Apr-16		<0.000341	<0.000307	<0.000372	<0.000780	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	OCD-5	Oct-16		<0.000341	<0.000307	<0.000372	<0.000780	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	OCD-5	Apr-17		<0.000341	<0.000307	<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	OCD-5	Oct-17		<0.000341	<0.000307	<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	OCD-6	Apr-15		<0.000340	<0.000310	<0.000370	<0.000780	<0.00110	<0.000400	<0.000420	<0.000470	<0.000400	<0.000260
	OCD-6	Oct-15		<0.000341	<0.000307	<0.000372	<0.000780	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	OCD-6	Apr-16		<0.000341	<0.000307	<0.000372	<0.000780	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	OCD-6	Oct-16		<0.000341	<0.000307	<0.000372	<0.000780	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	OCD-6	Apr-17		<0.000341	<0.000307	<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	OCD-6	Oct-17		<0.000341	<0.000307	<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	OCD-7AR	Apr-15		<0.000340	<0.000310	<0.000370	<0.000780	<0.00110	<0.000400	<0.000420	<0.000470	<0.000400	<0.000260
	OCD-7AR	Oct-15		<0.000341	<0.000307	<0.000372	<0.000780	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	OCD-7AR	Apr-16		<0.000341	<0.000307	<0.000372	<0.000780	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	OCD-7AR	Oct-16		<0.000341	<0.000307	<0.000372	<0.000780	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	OCD-7AR	Apr-17		<0.000341	<0.000307	<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	OCD-7AR	Oct-17		<0.000341	<0.000307	<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	OCD-7B	Mar-13		<0.00500	<0.00500	<0.00500	<0.00500	<0.0150	<0.00500	**<0.00500**	<0.00500	<0.00500	<0.00200
	OCD-7B	Apr-15		<0.000340	<0.000310	<0.000370	<0.000780	<0.00110	<0.000400	<0.000420	<0.000470	<0.000400	<0.000260
	OCD-7B	Apr-17		<0.000341	<0.000307	<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	OCD-8A	Apr-15		<0.000340	<0.000310	<0.000370	<0.000780	<0.00110	<0.000400	<0.000420	<0.000470	<0.000400	<0.000260
	OCD-8A	Oct-15		<0.000341	<0.000307	<0.000372	<0.000780	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	OCD-8A	Apr-16		<0.000341	<0.000307	<0.000372	<0.000780	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	OCD-8A	Oct-16		<0.000341	<0.000307	<0.000372	<0.000780	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	OCD-8A	Apr-17		<0.000341	<0.000307	<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	OCD-8A	Oct-17		<0.000341	<0.000307	<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	OCD-8B	Apr-13		<0.00500	<0.00500	<0.00500	<0.00500	<0.0150	<0.00500	**<0.00500**	<0.00500	<0.00500	<0.00200
	OCD-8B	Apr-15		<0.000340	<0.000310	<0.000370	<0.000780	<0.00110	<0.000400	<0.000420	<0.000470	<0.000400	<0.000260
	OCD-8B	Apr-17		<0.000341	<0.000307	<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
Field East of Refinery	KWB-1A	Apr-15		<0.000340	<0.000310	<0.000370	<0.000780	<0.00110	<0.000400	<0.000420	<0.000470	<0.000400	<0.000260
	KWB-1A	Oct-15		<0.000341	<0.000307	<0.000372	<0.000780	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	KWB-1A	Apr-16		<0.000341	<0.000307	<0.000372	<0.000780	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	KWB-1A	Oct-16		<0.000341	<0.000307	<0.000372	<0.000780	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	KWB-1A	Apr-17		<0.000341	<0.000307	<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	KWB-1A	Oct-17		<0.000341	<0.000307	<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	KWB-1C	Apr-13		<0.00500	<0.00500	<0.00500	<0.00500	<0.0150	<0.00500	**<0.00500**	<0.00500	<0.00500	<0.00200
	KWB-1C	Apr-15		<0.000340	<0.000310	<0.000370	<0.000780	<0.00110	<0.000400	<0.000420	<0.000470	<0.000400	<0.000260
	KWB-1C	Apr-17		<0.000341	<0.000307	<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	KWB-7	Apr-15		0.00377	<0.000310	<0.000370	0.00213 J	0.00718	<0.000400	<0.000420	<0.000470	<0.000400	<0.000260
	KWB-7	Oct-15		0.000608 J	<0.000307	<0.000372	<0.000780	0.00145 J	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	KWB-7	Apr-16		0.00167	<0.000307	<0.000372	<0.000780	0.0235	<0.000396	<0.000419 J4	<0.000469	<0.000398	<0.000259
	KWB-7	Oct-16		<0.000341	<0.000307	<0.000372	0.00155 J	0.0196	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	KWB-7	Apr-17		0.000576 J	<0.000307	<0.000372	<0.000412	0.00757	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	KWB-7	Oct-17		0.00112	<0.000307	<0.000372	<0.000412	0.0143	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259

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

2017 Annual Groundwater Monitoring Report

HollyFrontier Navajo Refining LLC, Artesia Refinery, Artesia, New Mexico

			Analyte Group:												
			Analyte:	o-Xylene	Styrene (Monomer)	Tetra-chloro-ethene	Toluene	Total Xylenes	trans-1,2-Dichloro-ethene	trans-1,3-Dichloro-propene	Tribromo-methane	Trichloro-ethene	Vinyl Chloride
			Units:	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
			CGWSL:	0.193	0.1	0.005	0.75	0.62	0.1	0.0047	---	0.005	1.00E-03
			CGWSL Source:	WQCC TW	USEPA MCL	USEPA MCL	WQCC HH	WQCC HH	USEPA MCL	USEPA TW	USEPA TW	USEPA MCL	WQCC HH
Area	**Well ID**	**Date**	**Dup**										
Field East of Refinery	KWB-8	Oct-16		0.150 J	<0.0614	**<0.0744**	**1.48**	**1.16**	<0.0792	**<0.0838**		**<0.0796**	<0.0518
	KWB-8	Apr-17		0.145	<0.0307	**<0.0372**	0.747	**2.07**	<0.0396	**<0.0419**	<0.0469	**<0.0398**	<0.0259
	KWB-8	Oct-17		0.0133	<0.000307	<0.000372	0.336	**0.795**	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	KWB-10R	Apr-15		**0.343**	<0.00310	<0.00370	0.141	**1.38**	<0.00400	<0.00420	<0.00470	<0.00400	<0.00260
	KWB-10R	Oct-15		**0.254**	<0.000307	<0.000372	0.124	**1.08**	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	KWB-10R	Apr-16		0.184	<0.0154	**<0.0186**	0.0937 J	**0.829**	<0.0198	**<0.0210**	<0.0234	**<0.0199**	<0.0130
	KWB-10R	Oct-16		**0.196**	<0.00614	**<0.00744**	0.110	**0.860**	<0.00792	**<0.00838**	<0.00938	**<0.00796**	<0.00518
	KWB-10R	Apr-17		**0.198**	<0.0154	**<0.0186**	0.0605	**0.914**	<0.0198	**<0.0210**	<0.0234	**<0.0199**	<0.0130
	KWB-10R	Oct-17		0.112 J	<0.000307	<0.000372	0.0588	**0.767**	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	KWB-11A	Apr-15		0.000869 J	<0.000310 J	<0.000370	<0.000780	0.00275 J	<0.000400	<0.000420	<0.000470	<0.000400	<0.000260
	KWB-11A	Oct-15		0.000511 J	<0.000307	<0.000372	<0.000780	0.00181 J	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	KWB-11A	Apr-16		0.000423 J	<0.000307	<0.000372	<0.000780	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	KWB-11A	Oct-16		0.000483 J	<0.000307	<0.000372	<0.000780	0.00158 J	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	KWB-11A	Apr-17		<0.000341	<0.000307	<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	KWB-11A	Oct-17		<0.000341	<0.000307	<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	KWB-11B	Apr-15		<0.000340	<0.000310	<0.000370	<0.000780	<0.00110	<0.000400	<0.000420	<0.000470	<0.000400	<0.000260
	KWB-11B	Oct-15		<0.000341	<0.000307	<0.000372	<0.000780	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	KWB-11B	Apr-16		<0.000341	<0.000307	<0.000372	<0.000780	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	KWB-11B	Oct-16		<0.000341	<0.000307	<0.000372	<0.000780	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	KWB-11B	Apr-17		<0.000341	<0.000307	<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	KWB-11B	Oct-17		<0.000341	<0.000307	<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	KWB-12A	Apr-15		<0.000340	<0.000310	<0.000370	<0.000780	<0.00110	<0.000400	<0.000420	<0.000470	<0.000400	<0.000260
	KWB-12A	Apr-15	FD	<0.000340	<0.000310	<0.000370	<0.000780	<0.00110	<0.000400	<0.000420	<0.000470	<0.000400	<0.000260
	KWB-12A	Oct-15		<0.000341	<0.000307	<0.000372	<0.000780	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	KWB-12A	Apr-16		<0.000341	<0.000307	<0.000372	<0.000780	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	KWB-12A	Oct-16		<0.000341	<0.000307	<0.000372	<0.000780	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	KWB-12A	Apr-17		<0.000341	<0.000307	<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	KWB-12A	Oct-17		<0.000341	<0.000307	<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	KWB-12B	Apr-15		<0.000340	<0.000310	<0.000370	<0.000780	<0.00110	<0.000400	<0.000420	<0.000470	<0.000400	<0.000260
	KWB-12B	Oct-15		<0.000341	<0.000307	<0.000372	<0.000780	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	KWB-12B	Oct-15	FD	0.000692 J	<0.000307	<0.000372	<0.000780	0.00226 J	<0.000396 J	<0.000419	<0.000469	<0.000398	<0.000259 J
	KWB-12B	Apr-16		<0.000341	<0.000307	<0.000372	<0.000780	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	KWB-12B	Apr-16	FD	<0.000341	<0.000307	<0.000372	<0.000780	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	KWB-12B	Oct-16		<0.000341	<0.000307	<0.000372	<0.000780	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	KWB-12B	Oct-16	FD	<0.000341	<0.000307	<0.000372	<0.000780	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	KWB-12B	Apr-17		<0.000341	<0.000307	<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	KWB-12B	Apr-17	FD	<0.000341	<0.000307	<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	KWB-12B	Oct-17		<0.000341	<0.000307	<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	KWB-12B	Oct-17	FD	<0.000341	<0.000307	<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	KWB-P4	Apr-13		<0.00500	<0.00500	<0.00500	<0.00500	<0.0150	<0.00500	**<0.00500**	<0.00500	<0.00500	<0.00200
	KWB-P4	Apr-15		<0.000340	<0.000310	<0.000370	<0.000780	<0.00110	<0.000400	<0.000420	<0.000470	<0.000400	<0.000260
	KWB-P4	Apr-17		<0.000341	<0.000307	<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	MW-57	Apr-15		0.000561 J	<0.000310	<0.000370	<0.000780	0.00197 J	<0.000400	<0.000420	<0.000470	<0.000400	<0.000260
	MW-57	Oct-15		<0.000341	<0.000307	<0.000372	<0.000780	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	MW-57	Apr-16		<0.000341	<0.000307	<0.000372	<0.000780	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	MW-57	Oct-16		<0.000341	<0.000307	<0.000372	<0.000780	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	MW-57	Apr-17		<0.000341	<0.000307	<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	MW-57	Oct-17		<0.000341	<0.000307	<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	MW-58	Apr-15		0.0830	<0.00310	<0.00370	0.0174 J	**2.16**	<0.00400	<0.00420	<0.00470	<0.00400	<0.00260
	MW-58	Oct-15		0.0603 J	<0.0307	**<0.0372**	<0.0780	**2.18**	<0.0396	**<0.0419**	<0.0469	**<0.0398**	<0.0259
	MW-58	Apr-16		0.0183	<0.000307	<0.000372	0.00806 J	**0.848**	<0.00396	<0.00419	<0.00469	<0.00398	<0.00259
	MW-58	Oct-16		0.0201	<0.000307	<0.000372	0.0159	**0.893**	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	MW-58	Apr-17		<0.0341	<0.0307	**<0.0372**	<0.0412	0.533	<0.0396	**<0.0419**	<0.0469	**<0.0398**	<0.0259
	MW-58	Oct-17		0.00179	<0.000307	<0.000372	0.0101	0.222	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	MW-111	Apr-15		0.00158	<0.000310	<0.000370	<0.000780	0.00881	<0.000400	<0.000420	<0.000470	<0.000400	<0.000260
	MW-111	Oct-15		<0.000341	<0.000307	<0.000372	<0.000780	0.00113 J	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	MW-111	Apr-16		<0.000341	<0.000307	<0.000372	<0.000780	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	MW-111	Oct-16		<0.000341	<0.000307	<0.000372	<0.000780	0.00177 J	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	MW-111	Apr-17		<0.000341	<0.000307	<0.000372	<0.000412	0.00237 J	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	MW-111	Oct-17		<0.0341	<0.000307	<0.000372	<0.000412	<0.106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	MW-113	Apr-15		<0.000340	<0.000310	<0.000370	<0.000780	<0.00110	<0.000400	<0.000420	<0.000470	<0.000400	<0.000260
	MW-113	Apr-15	FD	<0.000340	<0.000310	<0.000370	<0.000780	<0.00110	<0.000400	<0.000420	<0.000470	<0.000400	<0.000260
	MW-113	Oct-15		<0.000341	<0.000307	<0.000372 J	<0.000780	<0.00106	<0.000396 J	<0.000419	<0.000469	<0.000398	<0.000259
	MW-113	Oct-15	FD	<0.000341	<0.000307	<0.000372	<0.000780	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	MW-113	Apr-16		<0.000341	<0.000307	<0.000372	<0.000780	0.00518	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	MW-113	Apr-16	FD	<0.000341	<0.000307	<0.000372	<0.000780	0.00531	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	MW-113	Oct-16		<0.000341	<0.000307	<0.000372	<0.000780	0.0143	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	MW-113	Oct-16	FD	<0.000341	<0.000307	<0.000372	<0.000780	0.0127	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	MW-113	Apr-17		<0.000341	<0.000307	<0.000372	<0.000412	0.0133	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	MW-113	Apr-17	FD	<0.000341	<0.000307	<0.000372	<0.000412	0.0148	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	MW-113	Oct-17		<0.000341	<0.000307	<0.000372	0.000501 J	0.0279	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	MW-113	Oct-17	FD	<0.000341	<0.000307	<0.000372	0.000660 J	0.0234	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	MW-125	Apr-15		<0.000340	<0.000310	<0.000370	<0.000780	<0.00110	<0.000400	<0.000420	<0.000470	<0.000400	<0.000260
	MW-125	Oct-15		<0.000341	<0.000307	<0.000372	<0.000780	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	MW-125	Apr-16		<0.000341	<0.000307	<0.000372	<0.000780	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	MW-125	Oct-16		<0.000341	<0.000307	<0.000372	<0.000780	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	MW-125	Apr-17		<0.000341	<0.000307	<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	MW-125	Oct-17		<0.000341	<0.000307	<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	MW-126A	Apr-15		<0.000340	<0.000310	<0.000370	<0.000780	<0.00110	<0.000400	<0.000420	<0.000470	<0.000400	<0.000260
	MW-126A	Oct-15		<0.000341	<0.000307	<0.000372	0.000858 J	0.0103	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	MW-126A	Apr-16		<0.000341	<0.000307	<0.000372	<0.000780	<0.00106	<0.000396	<0.000419 J4	<0.000469	<0.000398	<0.000259
	MW-126A	Oct-16		<0.000341	<0.000307	<0.000372	<0.000780	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	MW-126A	Apr-17		<0.000341	<0.000307	<0.000372	<0.000412	0.00141 J	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	MW-126A	Oct-17		<0.000341	<0.000307	<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	MW-126B	Apr-15		<0.000340	<0.000310	<0.000370	<0.000780	<0.00110	<0.000400	<0.000420	<0.000470	<0.000400	<0.000260
	MW-126B	Oct-15		<0.000341	<0.000307	<0.000372	<0.000780	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	MW-126B	Apr-16		<0.000341	<0.000307	<0.000372	<0.000780	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	MW-126B	Oct-16		<0.000341	<0.000307	<0.000372	<0.000780	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	MW-126B	Apr-17		<0.000341	<0.000307	<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	MW-126B	Oct-17		<0.000341	<0.000307	<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	MW-127	Apr-15		0.142	<0.000310	<0.000370	0.183	0.296	<0.000400	<0.000420	<0.000470	<0.000400	<0.000260
	MW-127	Oct-15		0.0552	<0.00614	**<0.00744**	0.216	0.141	<0.00792	**<0.00838**	<0.00938	**<0.00796**	<0.00518
	MW-127	Apr-16		0.0375	<0.000307	<0.000372	0.287	0.149	<0.000396	<0.000419 J4	<0.000469	<0.000398	<0.000259
	MW-127	Oct-16		0.0127	<0.00307	<0.00372	0.0877	0.0514	<0.00396	<0.00419	<0.00469	<0.00398	<0.00259
	MW-127	Apr-17		0.00990	<0.000307	<0.000372	0.0958	0.0810	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	MW-127	Oct-17		0.00373	<0.000307	<0.000372	0.0396	0.0482	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	MW-128	Apr-15		<0.000340	<0.000310	<0.000370	0.000928 J	0.00326	<0.000400	<0.000420	<0.000470	<0.000400	<0.000260
	MW-128	Oct-15		<0.00682	<0.00614	**<0.00744**	<0.0156	<0.0212	<0.00792	**<0.00838**	<0.00938	<0.000400	<0.00518
	MW-128	Apr-16		<0.000341	<0.000307	<0.000372	<0.000780	0.00153 J	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	MW-128	Oct-16		<0.000341	<0.000307	<0.000372	<0.000780	0.00370	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	MW-128	Apr-17		<0.000341	<0.000307	<0.000372	<0.000412	0.00159 J	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	MW-128	Oct-17		<0.000341	<0.000307	<0.000372	0.000781 J	0.00336	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259

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

2017 Annual Groundwater Monitoring Report

HollyFrontier Navajo Refining LLC, Artesia Refinery, Artesia, New Mexico

			Analyte Group:										
			Analyte:	o-Xylene	Styrene (Monomer)	Tetra-chloro-ethene	Toluene	Total Xylenes	trans-1,2-Dichloro-ethene	trans-1,3-Dichloro-propene	Tribromo-methane	Trichloro-ethene	Vinyl Chloride
			Units:	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
			CGWSL:	0.193	0.1	0.005	0.75	0.62	0.1	0.0047	---	0.005	1.00E-03
			CGWSL Source:	WQCC TW	USEPA MCL	USEPA MCL	WQCC HH	WQCC HH	USEPA MCL	USEPA TW	USEPA TW	USEPA MCL	WQCC HH
Area	**Well ID**	**Date**	**Dup**										
Field East of Refinery	MW-129	Apr-15		0.00112	<0.000310	<0.000370	<0.000780	0.00357	<0.000400	<0.000420	<0.000470	<0.000400	<0.000260
	MW-129	Oct-15		<0.0341	<0.0307	**<0.0372**	<0.0780	<0.106	<0.0396	**<0.0419**	<0.0469	**<0.0398**	<0.0259
	MW-129	Apr-16		0.000796 J	<0.000307	<0.000372	<0.0390	0.00278 J	<0.000396	<0.000419 J4	<0.000469	<0.000398	<0.000259
	MW-129	Oct-16		<0.000341	<0.000307	<0.000372	0.000920 J	0.00124 J	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	MW-129	Apr-17		<0.000341	<0.000307	<0.000372	0.000543 J	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	MW-130	Apr-15		<0.000340	<0.000310	<0.000370	<0.000780	<0.00110	<0.000400	<0.000420	<0.000470	<0.000400	<0.000260
	MW-130	Oct-15		<0.000341	<0.000307	<0.000372	<0.000780	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	MW-130	Apr-16		<0.000341	<0.000307	<0.000372	<0.000780	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	MW-130	Oct-16		<0.000341	<0.000307	<0.000372	<0.000780	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	MW-130	Apr-17		<0.000341	<0.000307	<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	MW-130	Oct-17		<0.000341	<0.000307	<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	MW-131	Apr-15		0.0606	<0.000310	<0.000370	0.215	0.145	<0.000400	<0.000420	<0.000470	<0.000400	<0.000260
	MW-131	Oct-15		0.0243	<0.000307	<0.000372	0.0522	0.0859	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	MW-131	Apr-16		0.0370	<0.000307	<0.000372	0.142	0.0883	<0.000396	<0.000419 J4	<0.000469	<0.000398	<0.000259
	MW-131	Oct-16		0.0182	<0.00154	<0.00186	0.0299	0.0613	<0.00198	<0.00210	<0.00234	<0.00199	<0.00130
	MW-131	Apr-17		0.0406	<0.000307	<0.000372	0.153	0.114	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	MW-131	Oct-17		<0.0852	<0.000307	<0.000372	0.0627	<0.265	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	MW-133	Nov-14		0.0380 J	<0.0310	**<0.0370**	0.100 J	0.220 J	<0.0400	**<0.0420**		**<0.0400**	<0.0260
	MW-133	Apr-15		<0.0340	<0.0310	**<0.0370**	<0.0780	<0.110	<0.0400	**<0.0420**	<0.0470	**<0.0400**	<0.0260
	MW-134	Apr-15		<0.000340	<0.000310	<0.000370	<0.000780	<0.00110	<0.000400	<0.000420	<0.000470	<0.000400	<0.000260
	MW-134	Apr-15	FD	<0.000340	<0.000310	<0.000370	<0.000780	<0.00110	<0.000400	<0.000420	<0.000470	<0.000400	<0.000260
	MW-134	Oct-15		<0.000341	<0.000307	<0.000372	<0.000780	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	MW-134	Oct-15	FD	<0.000341	<0.000307	<0.000372	<0.000780	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	MW-134	Apr-16		<0.00100	<0.000307	<0.000372	<0.000780	<0.00106	<0.000396	<0.000419 J4	<0.000469	<0.000398	<0.000259
	MW-134	Apr-16	FD	<0.000341	<0.000307	<0.000372	<0.000780	<0.00106	<0.000396	<0.000419 J4	<0.000469	<0.000398	<0.000259
	MW-134	Oct-16		<0.000341	<0.000307	<0.000372	<0.000780	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	MW-134	Oct-16	FD	<0.000341	<0.000307	<0.000372	<0.000780	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	MW-134	Apr-17		<0.000341	<0.000307	<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	MW-134	Apr-17	FD	<0.000341	<0.000307	<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	MW-134	Oct-17		<0.000341	<0.000307	<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	MW-134	Oct-17	FD	<0.000341	<0.000307	<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	MW-135	Apr-15		<0.000340	<0.000310	<0.000370	<0.000780	<0.00110	<0.000400	<0.000420	<0.000470	<0.000400	<0.000260
	MW-135	Oct-15		<0.000341	<0.000307	<0.000372	<0.000780	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	MW-135	Apr-16		<0.000341	<0.000307	<0.000372	<0.000780	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	MW-135	Oct-16		<0.000341	<0.000307	<0.000372	<0.000780	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	MW-135	Apr-17		<0.000341	<0.000307	<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	MW-135	Oct-17		<0.000341	<0.000307	<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	RA-4196	Apr-15		<0.000340	<0.000310	<0.000370	<0.000780	<0.00110	<0.000400	<0.000420	<0.000470	<0.000400	<0.000260
	RA-4196	Oct-15		<0.000341	<0.000307	<0.000372	<0.000780	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	RA-4196	Apr-16		<0.000341	<0.000307	<0.000372	<0.000780	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	RA-4196	Oct-16		<0.000341	<0.000307	<0.000372	<0.000780	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	RA-4196	Apr-17		<0.000341	<0.000307	<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	RA-4196	Oct-17		<0.000341	<0.000307	<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	RA-4798	Apr-15		<0.000340	<0.000310	<0.000370	<0.000780	<0.00110	<0.000400	<0.000420	<0.000470	<0.000400	<0.000260
	RA-4798	Oct-15		<0.000341	<0.000307	<0.000372	<0.000780	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	RA-4798	Apr-16		<0.000341	<0.000307	<0.000372	<0.000780	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	RA-4798	Oct-16		<0.000341	<0.000307	<0.000372	<0.000780	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	RA-4798	Apr-17		<0.000341	<0.000307	<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	RA-4798	Oct-17		<0.000341	<0.000307	<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	RW-12R	Apr-16		<0.00170	<0.00154	<0.00186	<0.00390	0.0140 J	<0.00198	<0.00210		<0.00199	<0.00130
	RW-12R	Apr-17		0.00177 J	<0.00154	<0.00186	0.00354 J	0.0257	<0.00198	<0.00210	<0.00234	<0.00199	<0.00130
	RW-13R	Apr-16		0.0139	<0.000307	<0.000372	0.0175	0.108	<0.000396	<0.000419		<0.000398	<0.000259
	RW-18	Apr-14		<0.000500	<0.000500	<0.000600	<0.000500	<0.00150	<0.000400	<0.000600		<0.000500	<0.000400
	RW-18	Apr-15		<0.000340	<0.000310	<0.000370	<0.000780	<0.00110	<0.000400	<0.000420	<0.000470	<0.000400	<0.000260
	RW-18	Apr-16		<0.000341	<0.000307	<0.000372	<0.000780	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	RW-18	Apr-17		<0.000341	<0.000307	<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	RW-20	Apr-15		0.0590	<0.00310	<0.00370	0.211	**1.35**	<0.00400	<0.00420	<0.00470	<0.00400	<0.00260
	RW-22	Apr-15		0.0952	<0.00310	<0.00370	0.216	**0.945**	<0.00400	<0.00420	<0.00470	<0.00400	<0.00260
North Refinery	MW-23	Apr-15		0.181	<0.00770	**<0.370**	0.431	**1.37**	<0.00990	**<0.0100**	<0.0120 J	**<0.0100**	<0.00650
	MW-23	Oct-15		0.00237	<0.000307	<0.000372	0.00501	0.00805	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	MW-23	Apr-16		0.00284 J	<0.00154	<0.00186	0.00412 J	0.0176	<0.00198	<0.00210	<0.00234	<0.00199	<0.00130
	MW-23	Oct-16		<0.00852	<0.00768	**<0.00930**	<0.0195	<0.0265	<0.00990	**<0.0105**	<0.0117	**<0.00995**	<0.00648
	MW-23	Apr-17		0.00188	<0.000307	<0.000372	0.00243	0.00549	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	MW-23	Oct-17		0.00198	<0.000307	<0.000372	0.00561	0.00525	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	MW-29	Apr-15		<0.000340	<0.000310	<0.000370	<0.000780	<0.00110	<0.000400	<0.000420	<0.000470	<0.000400	<0.000260
	MW-29	Oct-15		<0.000341	<0.000307	<0.000372	<0.000780	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	MW-29	Apr-16		<0.000341	<0.000307	<0.000372	<0.000780	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	MW-29	Oct-16		<0.000341	<0.000307	<0.000372	<0.000780	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	MW-29	Apr-17		<0.000341	<0.000307	<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	MW-29	Oct-17		<0.000341	<0.000307	<0.000372	0.000676 J	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	MW-39	Apr-15		0.00632	<0.000310	<0.000370	0.00137 J	0.00753	<0.000400	<0.000420	<0.000470	<0.000400	<0.000260
	MW-39	Oct-15		0.00530	<0.000307	<0.000372	0.00108 J	0.00645	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	MW-39	Apr-16		0.0365	<0.00768	**<0.00930**	0.0293 J	0.181	<0.00990	**<0.0105**	<0.0117	**<0.00995**	<0.00648
	MW-39	Oct-16		0.0428 J	<0.0307	**<0.0372**	<0.0780	0.204 J	<0.0396	**<0.0419**	<0.0469	**<0.0398**	<0.0259
	MW-39	Apr-17		0.0454	<0.00307	<0.00372	0.0251	0.186	<0.00396	<0.00419	<0.000469	<0.00398	<0.00259
	MW-39	Oct-17		0.0368	<0.000307	<0.000372	0.00816	0.150	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	MW-40	Apr-14		<0.000500	<0.000500	<0.000600	<0.000500	0.00560 J	<0.000400	<0.000600		<0.000500	<0.000400
	MW-40	Apr-15		<0.000340	<0.000310	<0.000370	<0.000780	0.00606	<0.000400	<0.000420	<0.000470	<0.000400	0.000999 J
	MW-40	Apr-16		<0.000341	<0.000307	<0.000372	<0.000780	0.0144	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	MW-40	Apr-17		<0.000341	<0.000307	<0.000372	0.000732 J	0.0117	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	MW-41	Apr-14		<0.000500	<0.000500	<0.000600	<0.000500	<0.00150	<0.000400	<0.000600		<0.000500	<0.000400
	MW-41	Apr-15		<0.000340	<0.000310	<0.000370	<0.000780	<0.00110	<0.000400	<0.000420	<0.000470	<0.000400	<0.000260
	MW-41	Apr-16		<0.000341	<0.000307	<0.000372	<0.000780	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	MW-41	Apr-17		<0.000341	<0.000307	<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	MW-42	Apr-14		0.00110 J	<0.000500	<0.000600	0.00230 J	0.110	<0.000400	<0.000600		<0.000500	<0.000400
	MW-42	Apr-15		<0.00340	<0.00310	<0.00370	<0.00780	0.0484	<0.00400	<0.00420	<0.00470	<0.00400	<0.00260
	MW-42	Apr-16		<0.00170	<0.00154	<0.00186	<0.00390	0.0380	<0.00198	<0.00210	<0.00234	<0.00199	<0.00130
	MW-42	Apr-17		<0.000341	<0.000307	<0.000372	0.000845 J	0.00365	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	MW-43	Apr-15		0.0227	<0.00310	<0.00370	0.0538	0.300	<0.00400	<0.00420	<0.00470 J	<0.00400	<0.00260
	MW-43	Oct-15		**0.333**	<0.00307	<0.00372	**0.808**	**1.48**	<0.00396	<0.00419	<0.00469	<0.00398	<0.00259
	MW-43	Apr-16		**0.626**	<0.0768	**<0.0930**	**1.66**	**1.86**	<0.0990	**<0.105**	<0.117	**<0.0995**	<0.0648
	MW-43	Oct-16		**0.555**	<0.0768	**<0.0930**	0.618 J	**1.81**	<0.0990	**<0.105**	<0.117	**<0.0995**	<0.0648
	MW-43	Apr-17		**0.539**	<0.0154	**<0.0186**	0.519	**1.80**	<0.0198	**<0.0210**	<0.0234	**<0.0199**	<0.0130
	MW-43	Oct-17		**0.421**	<0.0154	**<0.0186**	0.285	**1.76**	<0.0198	**<0.0210**	<0.0234	**<0.0199**	<0.0130
	MW-59	Apr-14		<0.000500	<0.000500	<0.000600	<0.000500	<0.00150	<0.000400	<0.000600		<0.000500	<0.000400
	MW-59	Apr-15		<0.000340	<0.000310	<0.000370	<0.000780	<0.00110	<0.000400	<0.000420	<0.000470	<0.000400	<0.000260
	MW-59	Apr-16		<0.000341	<0.000307	<0.000372	<0.000780	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	MW-59	Apr-17		<0.000341	<0.000307	<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	MW-60	Apr-15		<0.000340	<0.000310	<0.000370	<0.000780	0.00280 J	<0.000400	<0.000420	<0.000470	<0.000400	<0.000260
	MW-60	Apr-15	FD	<0.000340	<0.000310	<0.000370	<0.000780	0.00163 J	<0.000400	<0.000420	<0.000470	<0.000400	<0.000260
	MW-60	Oct-15		<0.000341	<0.000307	<0.000372	<0.000780	0.00176 J	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	MW-60	Oct-15	FD	<0.000341	<0.000307	<0.000372	<0.000780	0.00181 J	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	MW-60	Apr-16		<0.000341	<0.000307	<0.000372	<0.000780	0.00283 J	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	MW-60	Apr-16	FD	<0.000341	<0.000307	<0.000372	<0.000780	0.00272 J	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259

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

2017 Annual Groundwater Monitoring Report

HollyFrontier Navajo Refining LLC, Artesia Refinery, Artesia, New Mexico

			Analyte Group:										
			Analyte:	o-Xylene	Styrene (Monomer)	Tetra-chloro-ethene	Toluene	Total Xylenes	trans-1,2-Dichloro-ethene	trans-1,3-Dichloro-propene	Tribromo-methane	Trichloro-ethene	Vinyl Chloride
			Units:	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
			CGWSL:	0.193	0.1	0.005	0.75	0.62	0.1	0.0047	---	0.005	1.00E-03
			CGWSL Source:	WQCC TW	USEPA MCL	USEPA MCL	WQCC HH	WQCC HH	USEPA MCL	USEPA TW	USEPA TW	USEPA MCL	WQCC HH
Area	**Well ID**	**Date**	**Dup**										
North Refinery	MW-60	Oct-16		<0.000341	<0.000307	<0.000372	<0.000780	0.00736	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	MW-60	Oct-16	FD	<0.000341	<0.000307	<0.000372	<0.000780	0.00552	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	MW-60	Apr-17		<0.000341	<0.000307	<0.000372	<0.000412	0.00195 J	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	MW-60	Apr-17	FD	<0.000341	<0.000307	<0.000372	<0.000412	0.00240 J	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	MW-60	Oct-17		<0.000341	<0.000307	<0.000372	0.000476 J	0.00622	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	MW-60	Oct-17	FD	<0.000341	<0.000307	<0.000372	<0.000412	0.00514	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	MW-61	Apr-15		0.00784 J	<0.00310	<0.00370	0.0130 J	**1.69**	<0.00400	<0.00420	<0.00470 J	<0.00400	<0.00260
	MW-61	Oct-15		0.00496 J	<0.00307	<0.00372	0.0379 J	0.374	<0.00396	<0.00419	<0.00469	<0.00398 J	<0.00259
	MW-61	Apr-16		0.00263 J	<0.00154	<0.00186	0.0185 J	0.226	<0.00198	<0.00210	<0.00234	<0.00199	<0.00130
	MW-61	Oct-16		<0.00852	<0.00768	**<0.00930**	0.0260 J	0.225	<0.00990	**<0.0105**	<0.0117	**<0.00995**	<0.00648
	MW-61	Apr-17		<0.00852	<0.00768	**<0.00930**	0.0312	0.228	<0.00990	**<0.0105**	<0.0117	**<0.00995**	<0.00648
	MW-61	Oct-17		0.00327	<0.000307	<0.000372	0.0612	0.378	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	MW-62	Apr-15		<0.00340	<0.00310	**<0.190**	<0.00780	0.0405	<0.00400	<0.00420	<0.00470 J	<0.00400	<0.00260
	MW-62	Oct-15		0.00886 J	<0.00614	**<0.00744**	<0.0156	**1.73**	<0.00792	**<0.00838**	<0.00938	**<0.00796** J	<0.00518
	MW-62	Apr-16		<0.00852	<0.00768	**<0.00930**	<0.0195	**1.80**	<0.00990	**<0.0105**	<0.0117	**<0.00995**	<0.00648
	MW-62	Oct-16		<0.0341 J6	<0.0307 J6	**<0.0372** J6	<0.0780 J6	**1.14** J6	<0.0396 J6	**<0.0419** J6	<0.0469 J6	**<0.0398** J6	<0.0259 J6
	MW-62	Apr-17		<0.0170	<0.0154	**<0.0186**	<0.0206	**1.13**	<0.0198	**<0.0210**	<0.0234	**<0.0199**	<0.0130
	MW-62	Oct-17		<0.0341	<0.0307	**<0.0372**	<0.0412	**1.35**	<0.0396	**<0.0419**	<0.0469	**<0.0398**	<0.0259
	MW-67	Apr-15		<0.000340	<0.000310	<0.000370	0.00260 J	0.00291 J	<0.000400	<0.000420	<0.000470	<0.000400	<0.000260
	MW-67	Oct-15		<0.00682	<0.00614	**<0.00744**	<0.0156	<0.0212	<0.00792	**<0.00838**	<0.00938	**<0.00796**	<0.00518
	MW-67	Apr-16		<0.00341	<0.00307	<0.00372	<0.00780	<0.0106	<0.00396	<0.00419 J4	<0.00469	<0.00398	<0.00259
	MW-67	Oct-16		0.00407 J	<0.00307	<0.00372	<0.00780	0.0120 J	<0.00396	<0.00419	<0.00469	<0.00398	<0.00259
	MW-67	Apr-17		<0.00170	<0.00154	<0.00186	0.00361 J	0.0121 J	<0.00198	<0.00210	<0.00234	<0.00199	<0.00130
	MW-67	Oct-17		<0.000341	<0.000307	<0.000372	0.00140	0.00245 J	<0.000396	<0.000419	<0.000469	0.000515 J	<0.000259
	MW-90	Apr-15		<0.000340	<0.000310	<0.000370	0.00194 J	<0.00110	<0.000400	<0.000420	<0.000470	<0.000400	<0.000260
	MW-90	Oct-15		<0.000341	<0.000307	<0.000372	<0.000780	<0.00106	<0.000396 J	<0.000419	<0.000469	<0.000398	<0.000259 J
	MW-90	Apr-16		<0.000341	<0.000307	<0.000372	<0.000780	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	MW-90	Oct-16		<0.000341	<0.000307	<0.000372	<0.000780	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	MW-90	Apr-17		<0.000341	<0.000307	<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	MW-90	Oct-17		0.000368 J	<0.000307	<0.000372	0.000744 J	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	MW-91	Apr-15		0.150	<0.00310	<0.00370	**1.91**	**0.852**	<0.00400	<0.00420	<0.00470	<0.00400	<0.00260
	MW-91	Oct-15		0.180	<0.00768	**<0.00930**	0.652	**0.933**	<0.00990	**<0.0105**	<0.0117	**<0.00995**	<0.00648
	MW-91	Apr-16		**0.365**	<0.0154	**<0.0186**	**4.01**	**1.69**	<0.0198	**<0.0210**	<0.000469	**<0.0199**	<0.0130
	MW-91	Oct-16		**0.310**	<0.0768	**<0.0930**	**3.33**	**1.58**	<0.0990	**<0.105**	<0.117	**<0.0995**	<0.0648
	MW-91	Apr-17		**0.216**	<0.0307	**<0.0372**	**1.61**	**1.05**	<0.0396	**<0.0419**	<0.0469	**<0.0398**	<0.0259
	MW-91	Oct-17		**0.219**	<0.0307	**<0.0372**	**1.12**	**0.975**	<0.0396	**<0.0419**	<0.0469	**<0.0398**	<0.0259
	MW-92	Apr-16		0.0268	<0.000307	0.000488 J	0.0173	0.188	0.000917 J	<0.000419	<0.000469	<0.000398	0.000399 J
	MW-92	Oct-16		0.0151 J	<0.00614	**<0.00744**	<0.0156	0.110	<0.00792	**<0.00838**	<0.00938	**<0.00796**	<0.00518
	MW-93	Apr-15		0.00938 J	<0.00310	<0.00370	0.00961 J	0.319	<0.00400	<0.00420	<0.00470 J	<0.00400	<0.00260
	MW-93	Oct-15		0.0110	<0.00307	<0.00372	0.0170 J	0.494	<0.00396	<0.00419	<0.00469	<0.00398	<0.00259
	MW-93	Apr-16		<0.00170	<0.00154	<0.00186	<0.00390	0.0567	<0.00198	<0.00210	<0.00234	<0.00199	<0.00130
	MW-93	Oct-16		<0.00341	<0.00307	<0.00372	<0.00780	0.250	<0.00396	<0.00419	<0.00469	<0.00398	<0.00259
	MW-93	Apr-17		<0.00852	<0.00768	**<0.00930**	<0.0103	0.326	<0.00990	**<0.0105**	<0.0117	**<0.00995**	<0.00648
	MW-94	Oct-15		**0.360**	<0.00307	<0.00372	0.553	0.574	<0.00396	<0.00419	<0.00469	<0.00398	<0.00259
	MW-94	Apr-16		**0.387**	<0.0154	**<0.0186**	0.687	0.615	<0.0198	**<0.0210** J4	<0.0234	**<0.0199**	<0.0130
	MW-94	Oct-16		**0.390**	<0.00154	<0.00186	0.468	0.592	<0.00198	<0.00210	<0.00234	<0.00199	<0.00130
	MW-94	Apr-17		**0.292**	<0.00768	**<0.00930**	0.435	0.460	<0.00990	**<0.0105**	<0.0117	**<0.00995**	<0.00648
	MW-95	Apr-14		<0.000500	<0.000500	<0.000600	<0.000500	<0.00150	<0.000400	<0.000600		<0.000500	<0.000400
	MW-95	Apr-15		<0.000340	<0.000310	<0.000370	<0.000780	<0.00110	<0.000400	<0.000420	<0.000470	<0.000400	<0.000260
	MW-95	Apr-16		<0.000341	<0.000307	<0.000372	<0.000780	<0.00106	<0.000396	<0.000419 J4	<0.000469	<0.000398	<0.000259
	MW-95	Apr-17		<0.000341	<0.000307	<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	MW-96	Apr-15		0.00110	<0.000310	<0.000370	0.00156 J	0.00547	<0.000400	<0.000420	<0.000470	<0.000400	<0.000260
	MW-96	Oct-15		<0.170	**<0.154**	**<0.186**	<0.390	<0.530	**<0.198**	**<0.210**	<0.234	**<0.199**	<0.130
	MW-96	Apr-16		<0.00682	<0.00614	**<0.00744**	<0.0156	<0.0212	<0.00792	**<0.00838**	<0.00938	**<0.00796**	<0.00518
	MW-96	Oct-16		<0.0170	<0.0154	**<0.0186**	<0.0390	<0.0530	<0.0198	**<0.0210**	<0.0234	**<0.0199**	<0.0130
	MW-96	Apr-17		<0.0170	<0.0154	**<0.0186**	<0.0206	<0.0530	<0.0198	**<0.0210**	<0.0234	**<0.0199**	<0.0130
	MW-96	Oct-17		<0.0170	<0.0154	**<0.0186**	<0.0206	<0.0530	<0.0198	**<0.0210**	<0.0234	**<0.0199**	<0.0130
	MW-98	Apr-15		0.0358	<0.00770	**<0.0930**	0.283	**1.74**	<0.00990	**<0.0100**	<0.0120 J	**<0.0100**	<0.00650
	MW-98	Oct-15		0.0316	<0.00768	**<0.00930**	0.268	**1.71**	<0.00990	**<0.0105**	<0.0117	**<0.00995**	<0.00648
	MW-98	Apr-16		<0.0341	<0.0307	**<0.0372**	0.220 J	**0.865**	<0.0396	**<0.0419**	<0.0469	**<0.0398**	<0.0259
	MW-98	Oct-16		<0.0341	<0.0307	**<0.0372**	0.245 J	**1.37**	<0.0396	**<0.0419**	<0.0469	**<0.0398**	<0.0259
	MW-98	Apr-17		0.0443 J	<0.0307	**<0.0372**	0.356	**1.88**	<0.0396	**<0.0419**	<0.0469	**<0.0398**	<0.0259
	MW-98	Oct-17		0.0525	<0.0154	**<0.0186**	0.421	**2.21**	<0.0198	**<0.0210**	<0.0234	**<0.0199**	<0.0130
	MW-137	Oct-15		**0.480**	<0.0307	**<0.0372**	**2.16**	**1.16**	<0.0396	**<0.0419**	<0.0469	**<0.0398**	<0.0259
	MW-137	Apr-16		**0.539**	<0.0768	**<0.0930**	**2.53**	**1.23**	<0.0990	**<0.105**	<0.117	**<0.0995**	<0.0648
	MW-137	Oct-16		**0.343**	<0.0768	**<0.0930**	**1.51**	**1.10**	<0.0990	**<0.105**	<0.117	**<0.0995**	<0.0648
	MW-137	Apr-17		**0.427**	<0.0614	**<0.0744**	**2.08**	**1.15**	<0.0792	**<0.0838**	<0.0938	**<0.0796**	<0.0518
	MW-137	Oct-17		**0.265**	<0.0614	**<0.0744**	**1.54**	**1.16**	<0.0792	**<0.0838**	<0.0938	**<0.0796**	<0.0518
	MW-138	Oct-15		<0.00682	<0.00614	**<0.00744**	<0.0156	0.0339 J	<0.00792	**<0.00838**	<0.00938	**<0.00796**	<0.00518
	MW-138	Apr-16		<0.00341	<0.00307	<0.00372	0.0158 J	<0.0106	<0.00396	<0.00419	<0.00469	<0.00398	<0.00259
	MW-138	Oct-16		<0.00341	<0.00307	<0.00372	<0.00780	<0.0106	<0.00396	<0.00419	<0.00469	<0.00398	<0.00259
	MW-138	Apr-17		<0.00341	<0.00307	<0.00372	<0.00412	<0.0106	<0.00396	<0.00419	<0.00469	<0.00398	<0.00259
	MW-138	Oct-17		<0.00170	<0.00154	<0.00186	0.00577	0.00565 J	<0.00198	<0.00210	<0.00234	<0.00199	<0.00130
	RW-1	Apr-15		<0.0170	<0.0150	**<0.0190**	<0.0390	<0.0530	<0.0200	**<0.0210**	<0.0230	**<0.0200**	<0.0130
	RW-1R	Apr-16		0.00110	<0.000307	0.00258	0.00542	0.0122	0.025	<0.000419	<0.000469	**0.00959**	0.00116
	RW-1R	Apr-17		<0.00341	<0.00307	<0.00372	0.0102	<0.0106	0.0108	<0.00419	<0.00469	**0.00896** J	<0.00259
	RW-2	Apr-15		0.0853	<0.00310	**<0.0930**	0.115	0.530	<0.00400	<0.00420	<0.00470 J	**0.0326**	<0.00260
	RW-2R	Apr-16		0.0461 J	<0.0154	**<0.0186**	0.0569 J	0.299	<0.0198	**<0.0210**	<0.0234	**0.0285** J	<0.0130
	RW-2R	Apr-17		0.0183 J	<0.0154	**0.0218** J	0.0430 J	0.431	<0.0198	**<0.0210**	<0.0234	**0.0249** J	<0.0130
	RW-7	Apr-15		0.00176	<0.000310	<0.000370	0.00396 J	0.0367	<0.000400	<0.000420	<0.000470	<0.000400	<0.000260
	RW-7R	Apr-16		<0.000341	<0.000307	<0.000372	<0.000780	<0.00106	<0.000396	<0.000419 J4	<0.000469	<0.000398	<0.000259
	RW-7R	Apr-17		<0.000341	<0.000307	<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	RW-8	Apr-15		<0.00340	<0.00310	<0.00370	<0.00780	<0.0110	<0.00400	<0.00420	<0.00470	<0.00400	<0.00260
	RW-8	Apr-17		0.0112	<0.000307	<0.000372	0.00213	0.0498	<0.000396	<0.000419	<0.000469	0.00110	<0.000259
	RW-9	Apr-14		<0.000500	<0.000500	<0.000600	0.00190 J	0.0240	<0.000400	<0.000600		<0.000500	<0.000400
	RW-9	Apr-15		<0.0170	<0.0150	**<0.0190**	<0.0390	<0.0530	<0.0200	**<0.0210**	<0.0230	**<0.0200**	<0.0130
	RW-9	Apr-16		<0.00170	<0.00154	<0.00186	<0.00390	0.0708	<0.00198	<0.00210	<0.0469	<0.00199	<0.00130
	RW-9	Apr-17		<0.000341	<0.000307	<0.000372	0.00184	0.0193	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	RW-10	Apr-14		<0.000500	<0.000500	<0.000600	<0.000500	<0.00150	<0.000400	<0.000600		<0.000500	<0.000400
	RW-10	Apr-15		<0.000340	<0.000310	<0.000370	<0.000780	<0.00110	<0.000400	<0.000420	<0.000470	<0.000400	<0.000260
	RW-10	Apr-16		<0.000341	<0.000307	<0.000372	<0.000780	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	RW-10	Apr-17		0.00299	<0.000307	<0.000372	0.00119	0.00378	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	RW-16	Apr-14		<0.000500	<0.000500	<0.000600	<0.000500	<0.00150	<0.000400	<0.000600		<0.000500	<0.000400
	RW-16	Apr-14	FD	<0.000500	<0.000500	<0.000600	<0.000500	<0.00150	<0.000400	<0.000600		<0.000500	<0.000400
	RW-16	Apr-15		<0.000340	<0.000310	<0.000370	<0.000780	<0.00110	<0.000400	<0.000420	<0.000470	<0.000400	<0.000260
	RW-16	Apr-16		<0.000341	<0.000307	<0.000372	<0.000780	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	RW-16	Apr-17		<0.000341	<0.000307	<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	RW-17	Apr-14		<0.000500	<0.000500	<0.000600	<0.000500	<0.00150	<0.000400	<0.000600		<0.000500	<0.000400
	RW-17	Apr-15		<0.000340	<0.000310	<0.000370	<0.000780	<0.00110	<0.000400	<0.000420	<0.000470	<0.000400	<0.000260
	RW-17	Apr-16		<0.000341	<0.000307	<0.000372	<0.000780	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	RW-17	Apr-17		<0.000341	<0.000307	<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259

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

2017 Annual Groundwater Monitoring Report

HollyFrontier Navajo Refining LLC, Artesia Refinery, Artesia, New Mexico

				Analyte Group:										
				Analyte:	o-Xylene	Styrene (Monomer)	Tetra-chloro-ethene	Toluene	Total Xylenes	trans-1,2-Dichloro-ethene	trans-1,3-Dichloro-propene	Tribromo-methane	Trichloro-ethene	Vinyl Chloride
				Units:	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
				CGWSL:	0.193	0.1	0.005	0.75	0.62	0.1	0.0047	---	0.005	1.00E-03
				CGWSL Source:	WQCC TW	USEPA MCL	USEPA MCL	WQCC HH	WQCC HH	USEPA MCL	USEPA TW	USEPA TW	USEPA MCL	WQCC HH
Area	**Well ID**	**Date**	**Dup**											
North RO Reject Field	MW-117	Apr-15		0.000942 J	<0.000310	0.00071 J	<0.000780	0.00229 J	<0.000400	<0.000420	<0.000470	<0.000400	<0.000260	
	MW-117	Oct-15		<0.000341	<0.000307	<0.000372	<0.000780	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259	
	MW-117	Apr-16		<0.000341	<0.000307	<0.000372	<0.000780	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259	
	MW-117	Oct-16		<0.000341	<0.000307	<0.000372	<0.000780	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259	
	MW-117	Apr-17		<0.000341	<0.000307	<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259	
	MW-117	Oct-17		<0.000341	<0.000307	<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259	
	MW-118	Apr-15		<0.000340	<0.000310	<0.000370	<0.000780	<0.00110	<0.000400	<0.000420	<0.000470	<0.000400	<0.000260	
	MW-118	Oct-15		<0.000341	<0.000307	<0.000372	<0.000780	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259	
	MW-118	Apr-16		<0.000341	<0.000307	<0.000372	<0.000780	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259	
	MW-118	Oct-16		<0.000341	<0.000307	<0.000372	<0.000780	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259	
	MW-118	Apr-17		<0.000341	<0.000307	<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259	
	MW-118	Oct-17		<0.000341	<0.000307	<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259	
	MW-119	Apr-15		<0.000340	<0.000310	<0.000370	<0.000780	<0.00110	<0.000400	<0.000420	<0.000470	<0.000400	<0.000260	
	MW-119	Oct-15		<0.000341	<0.000307	<0.000372	<0.000780	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259	
	MW-119	Apr-16		<0.000341	<0.000307	<0.000372	<0.000780	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259	
	MW-119	Oct-16		<0.000341	<0.000307	<0.000372	<0.000780	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259	
	MW-119	Apr-17		<0.000341	<0.000307	<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259	
	MW-119	Oct-17		<0.000341	<0.000307	<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259	
NCL	MW-18	Apr-14		<0.000500	<0.000500	<0.000600	<0.000500	<0.00150	<0.000400	<0.000600		<0.000500	<0.000400	
	MW-18	Apr-15		<0.000340	<0.000310	<0.000370	<0.000780	<0.00110	<0.000400	<0.000420	<0.000470	<0.000400	<0.000260	
	MW-18	Apr-16		<0.000341	<0.000307	<0.000372	<0.000780	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259	
	MW-18	Apr-17		<0.000341	<0.000307	<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259	
	MW-45	Apr-15		<0.000340	<0.000310	<0.000370	<0.000780	<0.00110	<0.000400	<0.000420	<0.000470	<0.000400	<0.000260	
	MW-45	Oct-15		<0.000341	<0.000307	<0.000372	<0.000780	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259	
	MW-45	Apr-16		<0.000341	<0.000307	<0.000372	<0.000780	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259	
	MW-45	Oct-16		<0.000341	<0.000307	<0.000372	<0.000780	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259	
	MW-45	Apr-17		<0.000341	<0.000307	<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259	
	MW-45	Oct-17		<0.000341	<0.000307	<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259	
	MW-53	Apr-14		<0.000500	<0.000500	<0.000600	<0.000500	<0.00150	<0.000400	<0.000600		<0.000500	<0.000400	
	MW-53	Apr-15		<0.000340	<0.000310	<0.000370	<0.000780	<0.00110	<0.000400	<0.000420	<0.000470	<0.000400	<0.000260	
	MW-53	Apr-16		<0.000341	<0.000307	<0.000372	<0.000780	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259	
	MW-53	Apr-17		<0.000341	<0.000307	<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259	
	MW-54A	Apr-15		<0.000340	<0.000310	<0.000370	<0.000780	<0.00110	<0.000400	<0.000420	<0.000470	<0.000400	<0.000260	
	MW-54A	Oct-15		<0.000341	<0.000307	<0.000372	<0.000780	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259	
	MW-54A	Apr-16		<0.000341	<0.000307	<0.000372	<0.000780	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259	
	MW-54A	Oct-16		<0.000341	<0.000307	<0.000372	<0.000780	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259	
	MW-54A	Apr-17		<0.000341	<0.000307	<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259	
	MW-54A	Oct-17		<0.000341	<0.000307	<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259	
	MW-54B	Apr-13		<0.00500	<0.00500	<0.00500	<0.00500	<0.0150	<0.00500	**<0.00500**	<0.00500	<0.00500	<0.00200	
	MW-54B	Apr-15		<0.000340	<0.000310	<0.000370	<0.000780	<0.00110	<0.000400	<0.000420	<0.000470	<0.000400	<0.000260	
	MW-54B	Apr-17		<0.000341	<0.000307	<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259	
	MW-55	Apr-15		<0.000340	<0.000310	<0.000370	<0.000780	<0.00110	<0.000400	<0.000420	<0.000470	<0.000400	<0.000260	
	MW-55	Oct-15		<0.000341	<0.000307	<0.000372	<0.000780	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259	
	MW-55	Apr-16		<0.000341	<0.000307	<0.000372	<0.000780	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259	
	MW-55	Oct-16		<0.000341	<0.000307	<0.000372	<0.000780	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259	
	MW-55	Apr-17		<0.000341	<0.000307	<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259	
	MW-55	Oct-17		<0.000341	<0.000307	<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259	
	MW-56	Apr-15		<0.000340	<0.000310	<0.000370	<0.000780	<0.00110	<0.000400	<0.000420	<0.000470	<0.000400	<0.000260	
	MW-56	Oct-15		<0.000341	<0.000307	<0.000372	<0.000780	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259	
	MW-56	Apr-16		<0.000341	<0.000307	<0.000372	<0.000780	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259	
	MW-56	Oct-16		<0.000341	<0.000307	<0.000372	<0.000780	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259	
	MW-56	Apr-17		<0.000341	<0.000307	<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259	
	MW-108	Apr-15		0.00412 J	<0.00310	<0.00370	0.00956 J	0.0706	<0.00400	<0.00420	<0.00470	<0.00400	<0.00260	
	MW-108	Oct-15		0.00444 J	<0.00307	<0.00372	0.00978 J	0.0855	<0.00396	<0.00419	<0.00469	<0.00398	<0.00259	
	MW-108	Apr-16		<0.0170	<0.0154	**<0.0186**	<0.0390	0.0795 J	<0.0198	**<0.0210**	<0.0234	**<0.0199**	<0.0130	
	MW-108	Oct-16		<0.00852	<0.00768	**<0.00930**	<0.0195	0.0721 J	<0.00990	**<0.0105**	<0.0117	**<0.00995**	<0.00648	
	MW-108	Apr-17		<0.00852	<0.00768	**<0.00930**	<0.0103	0.0815	<0.00990	**<0.0105**	<0.0117	**<0.00995**	<0.00648	
	MW-108	Oct-17		0.00238 J	<0.00154	<0.00186	0.00383 J	0.0626	<0.00198	<0.00210	<0.00234	<0.00199	<0.00130	
	NCL-31	Apr-15		<0.000340	<0.000310	<0.000370	<0.000780	<0.00110	<0.000400	<0.000420	<0.000470	<0.000400	<0.000260	
	NCL-31	Oct-15		<0.000341	<0.000307	<0.000372	<0.000780	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259	
	NCL-31	Apr-16		<0.000341	<0.000307	<0.000372	<0.000780	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259	
	NCL-31	Oct-16		<0.000341	<0.000307	<0.000372	<0.000780	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259	
	NCL-31	Apr-17		<0.000341	<0.000307	<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259	
	NCL-31	Oct-17		<0.000341	<0.000307	<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259	
	NCL-32	Apr-15		<0.000340	<0.000310	<0.000370	<0.000780	<0.00110	<0.000400	<0.000420	<0.000470	<0.000400	<0.000260	
	NCL-32	Oct-15		<0.000341	<0.000307	<0.000372	<0.000780	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259	
	NCL-32	Apr-16		<0.000341	<0.000307	<0.000372	<0.000780	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259	
	NCL-32	Oct-16		<0.000341	<0.000307	<0.000372	<0.000780	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259	
	NCL-32	Apr-17		<0.000341	<0.000307	<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259	
	NCL-32	Oct-17		<0.000341	<0.000307	<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259	
	NCL-33	Apr-15		<0.000340	<0.000310	<0.000370	<0.000780	<0.00110	<0.000400	<0.000420	<0.000470	<0.000400	<0.000260	
	NCL-33	Oct-15		<0.000341	<0.000307	<0.000372 J	<0.000780 J	<0.00106	<0.000396 J	<0.000419	<0.000469 J	<0.000398	<0.000259 J	
	NCL-33	Apr-16		<0.000341	<0.000307	<0.000372	<0.000780	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259	
	NCL-33	Oct-16		<0.000341	<0.000307	<0.000372	<0.000780	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259	
	NCL-33	Apr-17		<0.000341	<0.000307	<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259	
	NCL-33	Oct-17		<0.000341	<0.000307	<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259	
	NCL-34A	Apr-15		0.00121	<0.000310	<0.000370	<0.000780	0.0952	<0.000400	<0.000420	<0.000470	<0.000400	<0.000260	
	NCL-34A	Oct-15		0.000477 J	<0.000307	<0.000372	<0.000780	0.0658	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259	
	NCL-34A	Apr-16		<0.0170	<0.0154	**<0.0186**	<0.0390	0.188	<0.0198	**<0.0210**	<0.0234	**<0.0199**	<0.0130	
	NCL-34A	Oct-16		<0.0341	<0.0307	**<0.0372**	<0.0780	0.111 J	<0.0396	**<0.0419**	<0.0469	**<0.0398**	<0.0259	
	NCL-34A	Apr-17		<0.0170	<0.0154	**<0.0186**	<0.0206	0.100 J	<0.0198	**<0.0210**	<0.0234	**<0.0199**	<0.0130	
	NCL-34A	Oct-17		0.000631 J	<0.000307	<0.000372	<0.000412	0.0768	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259	
	NCL-44	Apr-15		<0.000340	<0.000310	<0.000370	<0.000780	<0.00110	<0.000400	<0.000420	<0.000470	<0.000400	<0.000260	
	NCL-44	Oct-15		<0.000341	<0.000307	<0.000372	<0.000780	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259	
	NCL-44	Apr-16		<0.000341	<0.000307	<0.000372	<0.000780	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259	
	NCL-44	Oct-16		<0.000341	<0.000307	<0.000372	<0.000780	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259	
	NCL-44	Apr-17		<0.000341	<0.000307	<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259	
	NCL-44	Oct-17		<0.000341	<0.000307	<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259	
	NCL-49	Apr-15		<0.000340	<0.000310	<0.000370	<0.000780	<0.00110	<0.000400	<0.000420	<0.000470	<0.000400	<0.000260	
	NCL-49	Apr-15	FD	<0.000340	<0.000310	<0.000370	<0.000780	<0.00110	<0.000400	<0.000420	<0.000470	<0.000400	<0.000260	
	NCL-49	Oct-15		<0.000341	<0.000307	<0.000372	<0.000780	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259	
	NCL-49	Oct-15	FD	<0.000341	<0.000307	<0.000372	<0.000780	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259	
	NCL-49	Apr-16		<0.000341	<0.000307	<0.000372	<0.000780	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259	
	NCL-49	Apr-16	FD	<0.000341	<0.000307	<0.000372	<0.000780	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259	
	NCL-49	Oct-16		<0.000341	<0.000307	<0.000372	<0.000780	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259	
	NCL-49	Oct-16	FD	<0.000341	<0.000307	<0.000372	<0.000780	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259	
	NCL-49	Apr-17		<0.000341	<0.000307	<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259	
	NCL-49	Apr-17	FD	<0.000341	<0.000307	<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259	
	NCL-49	Oct-17		<0.000341	<0.000307	<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259	
	NCL-49	Oct-17	FD	<0.000341	<0.000307	<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259	

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

2017 Annual Groundwater Monitoring Report

HollyFrontier Navajo Refining LLC, Artesia Refinery, Artesia, New Mexico

				Analyte Group:										
				Analyte:	o-Xylene	Styrene (Monomer)	Tetra-chloro-ethene	Toluene	Total Xylenes	trans-1,2-Dichloro-ethene	trans-1,3-Dichloro-propene	Tribromo-methane	Trichloro-ethene	Vinyl Chloride
				Units:	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
				CGWSL:	0.193	0.1	0.005	0.75	0.62	0.1	0.0047	---	0.005	1.00E-03
				CGWSL Source:	WQCC TW	USEPA MCL	USEPA MCL	WQCC HH	WQCC HH	USEPA MCL	USEPA TW	USEPA TW	USEPA MCL	WQCC HH
Area	**Well ID**	**Date**	**Dup**											
South Refinery	KWB-2R	Apr-15		0.0115	<0.00310	<0.00370	0.0140 J	0.236	<0.00400	<0.00420	<0.00470	<0.00400	<0.00260
	KWB-2R	Oct-15		<0.0341	<0.0307	**<0.0372**	<0.0780	0.448	<0.0396	**<0.0419**	<0.0469	**<0.0398**	<0.0259
	KWB-2R	Apr-16		0.00189	<0.000307	<0.000372	0.00152 J	0.0515	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	KWB-2R	Oct-16		0.00185	<0.000307	<0.000372	0.00290 J	0.0289	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	KWB-2R	Apr-17		0.000772 J	<0.000307	<0.000372	<0.000412	0.0281	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	KWB-2R	Oct-17		0.00977	<0.000307	<0.000372	0.0161	0.193	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	KWB-5	Apr-15		0.00713	<0.000310	<0.000370	0.0130	0.0394	<0.000400	<0.000420	<0.000470	<0.000400	<0.000260
	KWB-5	Oct-15		0.00312	<0.000307	<0.000372	0.00578	0.0166	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	KWB-5	Apr-16		0.00349	<0.000307	<0.000372	0.00412 J	0.0158	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	KWB-5	Oct-16		<0.00170	<0.00154	<0.00186	<0.00390	<0.00530	<0.00198	<0.00210	<0.00234	<0.00199	<0.00130
	KWB-5	Apr-17		0.00472	<0.000307	<0.000372	0.00470	0.0434	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	KWB-5	Oct-17		<0.0852	<0.000307	<0.000372	0.00156	<0.265	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	KWB-6	Apr-15		**0.760**	<0.00770	**<0.00930**	**1.70**	**3.47**	<0.00990	**<0.0100**	<0.0120	**<0.0100**	<0.00650
	KWB-6	Oct-15		**0.297** J	**<0.154**	**<0.186**	<0.390	**1.33** J	**<0.198**	**<0.210**	<0.234	**<0.199**	<0.130
	KWB-6	Apr-16		**0.243**	<0.00154	<0.00186	0.120	**1.88**	<0.00198	<0.00210	<0.00234	<0.00199	<0.00130
	KWB-6	Oct-16		0.0232	<0.00614	**<0.00744**	0.0167 J	0.417	<0.00792	**<0.00838**	<0.00938	**<0.00796**	<0.00518
	KWB-6	Apr-17		0.0179	<0.00154	<0.00186	0.0205	0.391	<0.00198	<0.00210	<0.00234	<0.00199	<0.00130
	KWB-6	Oct-17		0.00804	<0.000307	<0.000372	0.0122	0.283	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	MW-28	Apr-15		<0.0340	<0.0310	**<0.0370**	<0.0780	0.194 J	<0.0400	**<0.0420**	<0.0470	**<0.0400**	<0.0260
	MW-28	Oct-15		<0.0341	<0.0307	**<0.0372**	<0.0780	0.243 J	<0.0396	**<0.0419**	<0.0469	**<0.0398**	<0.0259
	MW-28	Apr-16		0.00496 J	<0.00307	<0.00372	0.0350 J	0.161	<0.00396	<0.00419	<0.0469	<0.00398	<0.00259
	MW-28	Oct-16		<0.0170	<0.0154	**<0.0186**	0.0683 J	0.338	<0.0198	**<0.0210**	<0.0469	**<0.0199**	<0.0130
	MW-28	Apr-17		<0.0170	<0.0154	**<0.0186**	0.0587	0.238	<0.0198	**<0.0210**	<0.0234	**<0.0199**	<0.0130
	MW-28	Oct-17		<0.0170	<0.0154	**<0.0186**	0.0474 J	0.216	<0.0198	**<0.0210**	<0.0234	**<0.0199**	<0.0130
	MW-48	Apr-15		0.00973 J	<0.00310	<0.00370	0.0146 J	0.153	<0.00400	<0.00420	<0.00470	<0.00400	<0.00260
	MW-48	Oct-15		0.00658	<0.00154	<0.00186	0.0120 J	0.125	<0.00198	<0.00210	<0.00234	<0.00199	<0.00130
	MW-48	Apr-16		0.0788	<0.00614	**<0.00744**	0.214	**0.750**	<0.00792	**<0.00838**	<0.000469	**<0.00796**	<0.00518
	MW-48	Oct-16		0.0356	<0.00154	<0.00186	0.214	0.538	<0.00198	<0.00210	<0.000469	<0.00199	<0.00130
	MW-48	Apr-17		0.115	<0.0154	**<0.0186**	0.667	**1.16**	<0.0198	**<0.0210**	<0.0234	**<0.0199**	<0.0130
	MW-48	Oct-17		0.0924	<0.000307	<0.000372	0.722	**0.797**	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	MW-50	Apr-15		<0.000340	<0.000310	<0.000370	<0.000780	<0.00110	<0.000400	<0.000420	<0.000470	<0.000400	<0.000260
	MW-50	Oct-15		<0.000341	<0.000307 J	<0.000372 J	<0.000780 J	<0.00106 J	<0.000396 J	<0.000419 J	<0.000469 J	<0.000398 J	<0.000259
	MW-50	Apr-16		<0.000341	<0.000307	<0.000372	<0.000780	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	MW-50	Oct-16		<0.000341	<0.000307	<0.000372	<0.000780	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	MW-50	Apr-17		<0.000341	<0.000307	<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	MW-50	Oct-17		<0.000341	<0.000307	<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	MW-52	Apr-15		<0.000340	<0.000310	<0.000370	<0.000780	<0.00110	<0.000400	<0.000420	<0.000470	<0.000400	<0.000260
	MW-52	Oct-15		<0.000341	<0.000307	<0.000372	<0.000780 J	<0.00106	<0.000396 J	<0.000419	<0.000469	<0.000398	<0.000259 J
	MW-52	Apr-16		<0.000341	<0.000307	<0.000372	<0.000780	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	MW-52	Oct-16		<0.000341	<0.000307	<0.000372	<0.000780	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	MW-52	Apr-17		<0.000341	<0.000307	<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	MW-52	Oct-17		<0.000341	<0.000307	<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	MW-64	Apr-16		**2.44**	<0.0154	**<0.0186**	**18.8**	**7.70**	<0.0198	**<0.0210** J4		**<0.0199**	<0.0130
	MW-64	Oct-16		**1.51**	<0.0307	**<0.0372**	**11.6**	**5.30**	<0.0396	**<0.0419**		**<0.0398**	<0.0259
	MW-64	Apr-17		**2.09**	<0.0768	**<0.0930**	**13.2**	**7.58**	<0.0990	**<0.105**	<0.117	**<0.0995**	<0.0648
	MW-64	Oct-17		**1.44**	<0.0768	**<0.0930**	**9.81**	**6.01**	<0.0990	**<0.105**	<0.117	**<0.0995**	<0.0648
	MW-65	Apr-15		0.0228	<0.00310	<0.00370	0.0294 J	0.158	<0.00400	<0.00420	<0.0469	<0.00400	<0.00260
	MW-65	Apr-16		0.0149	<0.00307	<0.00372	0.0211 J	0.0971	<0.00396	<0.00419	<0.00469	<0.00398	<0.00259
	MW-65	Oct-16		0.00937 J	<0.00614	**<0.00744**	0.0271 J	0.0298 J	<0.00792	**<0.00838**	<0.00938	**<0.00796**	<0.00518
	MW-65	Apr-17		<0.0341	<0.0307	**<0.0372**	<0.0412	<0.106	<0.0396	**<0.0419**	<0.117	**<0.0398**	<0.0259
	MW-65	Oct-17		<0.0341	<0.0307	**<0.0372**	<0.0412	<0.106	<0.0396	**<0.0419**	<0.0469	**<0.0398**	<0.0259
	MW-66	Apr-15		<0.0170	<0.0150 J	**<0.0190**	<0.0390 J	0.0668 J	<0.0200	**<0.0210**	<0.0230	**<0.0200**	<0.0130
	MW-66	Oct-15		0.00390	<0.000307	<0.000372	0.00722	0.0320	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	MW-66	Apr-16		<0.00341	<0.00307	<0.00372	<0.00780	0.0285 J	<0.00396	<0.00419	<0.00469	<0.00398	<0.00259
	MW-66	Oct-16		0.00365	<0.000307	<0.000372	0.0109	0.0265	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	MW-66	Apr-17		<0.0170	<0.0154	**<0.0186**	<0.0206	<0.0530	<0.0198	**<0.0210**	<0.0234	**<0.0199**	<0.0130
	MW-66	Oct-17		<0.00341	<0.00307	<0.00372	<0.00412	<0.0106	<0.00396	<0.00419	<0.00469	<0.00398	<0.00259
	MW-99	Apr-15		**0.315**	<0.00770 J	**<0.00930**	0.149 J	**0.937**	<0.00990	**<0.0100**	<0.0120	**<0.0100**	<0.00650
	MW-99	Oct-15		0.0953	<0.00768	**<0.00930**	0.221	0.604	<0.00990	**<0.0105**	<0.0117	**<0.00995**	<0.00648
	MW-99	Apr-16		0.0843	<0.00307	<0.00372	0.0427 J	0.615	<0.00396	<0.00419	<0.00469	<0.00398	<0.00259
	MW-99	Oct-16		0.108	<0.00614	**<0.00744**	0.190	**0.699**	<0.00792	**<0.00838**	<0.00938	**<0.00796**	<0.00518
	MW-99	Apr-17		0.106	<0.0154	**<0.0186**	0.0860	0.522	<0.0198	**<0.0210**	<0.0234	**<0.0199**	<0.0130
	MW-99	Oct-17		<0.0341	<0.0307	**<0.0372**	<0.0412	0.228 J	<0.0396	**<0.0419**	<0.0469	**<0.0398**	<0.0259
	MW-101	Apr-15		<0.00170	<0.00150	<0.00190	<0.00390	<0.00530	<0.00200	<0.00210	<0.00230 J	<0.00200	<0.00130
	MW-101	Oct-15		<0.00170	<0.00154	<0.00186	<0.00390	<0.00530	<0.00198	<0.00210	<0.00234	<0.00199	<0.00130
	MW-101	Apr-16		<0.000341	<0.000307	<0.000372	<0.000780	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	MW-101	Oct-16		<0.000341	<0.000307	<0.000372	<0.000780	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	MW-101	Apr-17		<0.000341	<0.000307	<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	MW-101	Oct-17		<0.000341	<0.000307	<0.000372	0.000439 J	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	MW-102	Apr-15		**0.247**	<0.00310	<0.00370	**1.45**	**0.846**	<0.00400	<0.00420	<0.00470	<0.00400	<0.00260
	MW-102	Oct-15		**0.361**	<0.0307	**<0.0372**	**1.20**	**1.43**	<0.0396	**<0.0419**	<0.0469	**<0.0398**	<0.0259
	MW-102	Apr-16		0.0881 J	<0.0307	**<0.0372**	0.541	**0.632**	<0.0396	**<0.0419**	<0.0469	**<0.0398**	<0.0259
	MW-102	Oct-16		0.0952 J	<0.0307	**<0.0372**	0.626	**0.719**	<0.0396	**<0.0419**	<0.0469	**<0.0398**	<0.0259
	MW-102	Apr-17		0.0189 J	<0.00614	**<0.00744**	0.243	0.391	<0.00792	**<0.00838**	<0.00938	**<0.00796**	<0.00518
	MW-102	Oct-17		0.0353 J	<0.0154	**<0.0186**	0.275	0.501	<0.0198	**<0.0210**	<0.0234	**<0.0199**	<0.0130
	MW-103	Apr-14		0.00450 J	<0.000500	<0.000600	0.00940	0.0170	<0.000400	<0.000600		<0.000500	<0.000400
	MW-103	Apr-15		0.00549	<0.000310	<0.000370	0.0154	0.0137	<0.000400	<0.000420	<0.000470	<0.000400	<0.000260
	MW-103	Apr-16		0.00422 J	<0.00154	<0.00186	0.0153 J	<0.00530	<0.00198	<0.00210	<0.00234	<0.00199	<0.00130
	MW-103	Apr-17		<0.0170	<0.0154	**<0.0186**	<0.0206	<0.0530	<0.0198	**<0.0210**	<0.0234	**<0.0199**	<0.0130
	MW-104	Apr-15		<0.000340	<0.000310 J	<0.000370	<0.000780 J	<0.00110	<0.000400	<0.000420	<0.000470	<0.000400	<0.000260
	MW-104	Apr-15	FD	<0.000340	<0.000310 J	<0.000370	<0.000780 J	<0.00110	<0.000400	<0.000420	<0.000470	<0.000400	<0.000260
	MW-104	Oct-15		<0.00170	<0.00154	<0.00186	<0.00390	<0.00530	<0.00198	<0.00210	<0.00234	<0.00199	<0.00130
	MW-104	Oct-15	FD	<0.000341	0.000881 J	<0.000372	<0.000780	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	MW-104	Apr-16		<0.000341	<0.000307	<0.000372	<0.000780	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	MW-104	Apr-16	FD	<0.000341	<0.000307	<0.000372	<0.000780	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	MW-104	Oct-16		<0.00170	<0.00154	<0.00186	<0.00390	<0.00530	<0.00198	<0.00210	<0.00234	<0.00199	<0.00130
	MW-104	Oct-16	FD	<0.00170	<0.00154	<0.00186	<0.00390	<0.00530	<0.00198	<0.00210	<0.00234	<0.00199	<0.00130
	MW-104	Apr-17		<0.00341	<0.00307	<0.00372	<0.00412	<0.0106	<0.00396	<0.00419	<0.00469	<0.00398	<0.00259
	MW-104	Apr-17	FD	<0.00170	<0.00154	<0.00186	<0.00206	<0.00530	<0.00198	<0.00210	<0.00234	<0.00199	<0.00130
	MW-104	Oct-17		<0.000341	0.000402 J	<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	MW-104	Oct-17	FD	<0.00170	<0.00154	<0.00186	<0.00206	<0.00530	<0.00198	<0.00210	<0.00234	<0.00199	<0.00130
	MW-105	Apr-15		0.00965	<0.00150	**<0.0190**	0.0314	0.214	<0.00200	<0.00210	<0.00230 J	<0.00200	<0.00130
	MW-105	Oct-15		<0.00341	<0.00307	<0.00372	<0.00780	0.109	<0.00396	<0.00419	<0.00469	<0.00398	<0.00259
	MW-105	Apr-16		<0.0852	<0.0768	**<0.0930**	<0.195	0.379 J	<0.0990	**<0.105**	<0.117	**<0.0995**	<0.0648
	MW-105	Oct-16		<0.0341	<0.0307	**<0.0372**	<0.0780	**0.683**	<0.0396	**<0.0419**	<0.0469	**<0.0398**	<0.0259
	MW-105	Apr-17		<0.0341	<0.0307	**<0.0372**	<0.0412	0.446	<0.0396	**<0.0419**	<0.0469	**<0.0398**	<0.0259
	MW-105	Oct-17		<0.0341	<0.000307	<0.000372	0.0192	0.390	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	MW-106	Apr-15		0.00393	<0.000310	<0.000370	0.0420	0.0514	<0.000400	<0.000420	<0.000470	<0.000400	<0.000260
	MW-106	Oct-15		<0.0341	<0.0307	**<0.0372**	0.216 J	0.217 J	<0.0396	**<0.0419**	<0.0469	**<0.0398**	<0.0259
	MW-106	Apr-16		<0.00852	<0.00768	**<0.00930**	0.124 J	0.203	<0.00990	**<0.0105**	<0.0117	**<0.00995**	<0.00648
	MW-106	Oct-16		<0.0170	<0.0154	**<0.0186**	0.146 J	0.297	<0.0198	**<0.0210**	<0.0234	**<0.0199**	<0.0130
	MW-106	Apr-17		<0.0170	<0.0154	**<0.0186**	0.116	0.236	<0.0198	**<0.0210**	<0.0234	**<0.0199**	<0.0130
	MW-106	Oct-17		<0.0170	<0.0154	**<0.0186**	0.272	0.195	<0.0198	**<0.0210**	<0.0234	**<0.0199**	<0.0130

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

2017 Annual Groundwater Monitoring Report

HollyFrontier Navajo Refining LLC, Artesia Refinery, Artesia, New Mexico

				Analyte Group:										
				Analyte:	o-Xylene	Styrene (Monomer)	Tetra-chloro-ethene	Toluene	Total Xylenes	trans-1,2-Dichloro-ethene	trans-1,3-Dichloro-propene	Tribromo-methane	Trichloro-ethene	Vinyl Chloride
				Units:	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
				CGWSL:	0.193	0.1	0.005	0.75	0.62	0.1	0.0047	---	0.005	1.00E-03
				CGWSL Source:	WQCC TW	USEPA MCL	USEPA MCL	WQCC HH	WQCC HH	USEPA MCL	USEPA TW	USEPA TW	USEPA MCL	WQCC HH
Area	**Well ID**	**Date**	**Dup**											
South Refinery	MW-107	Apr-15		<0.00340	<0.00310	<0.00370	0.0106 J	0.0146 J	<0.00400	<0.00420	<0.00470	<0.00400	<0.00260
	MW-107	Oct-15		0.0431 J	<0.0307	**<0.0372**	<0.0780	0.130 J	<0.0396	**<0.0419**	<0.0469	**<0.0398**	<0.0259
	MW-107	Apr-16		0.00145	<0.000307	<0.000372	0.00399 J	0.00572	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	MW-107	Oct-16		0.00265 J	<0.00154	<0.00186	0.00800 J	0.0112 J	<0.00198	<0.00210	<0.00234	<0.00199	<0.00130
	MW-107	Apr-17		<0.0170	<0.0154	**<0.0186**	<0.0206	<0.0530	<0.0198	**<0.0210**	<0.0234	**<0.0199**	<0.0130
	MW-109	Apr-15		<0.00340	<0.00310	<0.00370	0.0117 J	0.0176 J	<0.00400	<0.00420	<0.00470	<0.00400	<0.00260
	MW-109	Oct-15		<0.00341	<0.00307	<0.00372	0.0141 J	0.0176 J	<0.00396	<0.00419	<0.00469	<0.00398	<0.00259
	MW-109	Apr-16		<0.00170	<0.00154	<0.00186	0.00837 J	0.0142 J	<0.00198	<0.00210	<0.00234	<0.00199	<0.00130
	MW-109	Oct-16		<0.00682	<0.00614	**<0.00744**	<0.0156	<0.0212	<0.00792	**<0.00838**	<0.00938	**<0.00796**	<0.00518
	MW-109	Apr-17		<0.00341	<0.00307	<0.00372	0.0172	0.0272 J	<0.00396	<0.00419	<0.00469	<0.00398	<0.00259
	MW-109	Oct-17		<0.000341	<0.000307	<0.000372	0.0182	0.0230	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	MW-110	Apr-15		<0.000340	<0.000310	<0.000370	0.00352 J	0.00624	<0.000400	<0.000420	<0.000470	<0.000400	<0.000260
	MW-110	Oct-15		<0.00170	<0.00154	<0.00186	0.00464 J	0.0298	<0.00198	<0.00210	<0.00234	<0.00199	<0.00130
	MW-110	Apr-16		<0.000341	<0.000307	<0.000372	<0.000780	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	MW-110	Oct-16		<0.000341	<0.000307	<0.000372	<0.000780	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	MW-110	Apr-17		<0.00170	<0.00154	<0.00186	0.00378 J	0.0161	<0.00198	<0.00210	<0.0234	<0.00199	<0.00130
	MW-110	Oct-17		<0.000341	<0.000307	<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	RA-313	Apr-14		<0.000500	<0.000500	<0.000600	<0.000500	<0.00150	<0.000400	<0.000600		<0.000500	<0.000400
	RA-313	Apr-15		<0.000340	<0.000310	<0.000370	<0.000780	<0.00110	<0.000400	<0.000420	<0.000470	<0.000400	<0.000260
	RA-313	Apr-16		<0.000341	<0.000307	<0.000372	<0.000780	<0.00106	<0.000396	<0.000419 J4	<0.000469	<0.000398	<0.000259
	RA-313	Apr-17		<0.000341	<0.000307	<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	RW-4	Apr-15		<0.000340	<0.000310 J	<0.000370	<0.000780 J	<0.00110	<0.000400	<0.000420	<0.000470	<0.000400	<0.000260
	RW-4R	Apr-16		<0.000341	<0.000307	<0.000372	<0.000780	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	RW-4R	Apr-17		<0.00170	<0.00154	<0.00186	<0.00206	<0.00530	<0.00198	<0.00210	<0.00234	<0.00199	<0.00130
	RW-5R	Apr-15		**0.522**	<0.00310	<0.00370	**2.26**	**1.91**	<0.00400	<0.00420	<0.00470	<0.00400	<0.00260
	RW-5R	Apr-16		**0.570**	<0.00614	**<0.00744**	**2.51**	**2.25**	<0.00792	**<0.00838**	<0.00938	**<0.00796**	<0.00518
	RW-6	Apr-15		0.0558	<0.00310	<0.00370	0.0126 J	0.158	<0.00400	<0.00420	<0.00470	<0.00400	<0.00260
	RW-6R	Apr-16		0.00275	<0.000307	<0.000372	0.00683	0.00747	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	RW-15C	Apr-17		**0.472**	<0.00768	**<0.00930**	0.172	**5.39**	<0.00990	**<0.0105**	<0.0117	**<0.00995**	<0.00648
South RO Reject Field	MW-114	Apr-15		<0.000340	<0.000310	<0.000370	<0.000780	<0.00110	<0.000400	<0.000420	<0.000470	<0.000400	<0.000260
	MW-114	Oct-15		<0.000341	<0.000307	<0.000372	<0.000780	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	MW-114	Apr-16		<0.000341	<0.000307	<0.000372	<0.000780	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	MW-114	Oct-16		<0.000341	<0.000307	<0.000372	<0.000780	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	MW-114	Apr-17		<0.000341	<0.000307	<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	MW-114	Oct-17		<0.000341	<0.000307	<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	MW-115	Apr-15		<0.000340	<0.000310	<0.000370	<0.000780	<0.00110	<0.000400	<0.000420	<0.000470	<0.000400	<0.000260
	MW-115	Oct-15		<0.000341	<0.000307	<0.000372	<0.000780	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	MW-115	Apr-16		<0.000341	<0.000307	<0.000372	<0.000780	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	MW-115	Oct-16		<0.000341	<0.000307	<0.000372	<0.000780	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	MW-115	Apr-17		<0.000341	<0.000307	<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	MW-115	Oct-17		<0.000341	<0.000307	<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	MW-116	Apr-15		<0.000340	<0.000310	<0.000370	<0.000780	<0.00110	<0.000400	<0.000420	<0.000470	<0.000400	<0.000260
	MW-116	Oct-15		<0.000341	<0.000307	<0.000372	<0.000780	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	MW-116	Apr-16		<0.000341	<0.000307	<0.000372	<0.000780	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	MW-116	Oct-16		<0.000341	<0.000307	<0.000372	<0.000780	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	MW-116	Apr-17		<0.000341	<0.000307	<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	MW-116	Oct-17		<0.000341	<0.000307	<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
TEL	MW-49	Apr-15		<0.000340	<0.000310	<0.000370	<0.000780	0.0175	<0.000400 J	<0.000420	<0.000470	<0.000400	<0.000260
	MW-49	Oct-15		<0.000341	<0.000307	<0.000372	0.00201 J	0.0380	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	MW-49	Apr-16		<0.00682	<0.00614	**<0.00744**	<0.0156	0.0540 J	<0.00792	**<0.00838**	<0.00938	**<0.00796**	<0.00518
	MW-49	Oct-16		<0.0341	<0.0307	**<0.0372**	<0.0780	<0.106	<0.0396	**<0.0419**	<0.0469	**<0.0398**	<0.0259
	MW-49	Apr-17		<0.00341	<0.00307	<0.00372	<0.00412	0.0564	<0.00396	<0.00419	<0.00469	<0.00398	<0.00259
	MW-49	Oct-17		<0.00682	<0.00614	**<0.00744**	0.0109 J	0.195	<0.00792	**<0.00838**	<0.00938	**<0.00796**	<0.00518
	TEL-1	Apr-15		0.00214	<0.000310	<0.000370	<0.000780	0.00214 J	<0.000400	<0.000420	<0.000470	<0.000400	<0.000260
	TEL-1	Oct-15		0.00197	<0.000307	<0.000372	0.00108 J	0.00197 J	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	TEL-1	Apr-16		0.00160	<0.000307	<0.000372	0.000793 J	0.00160 J	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	TEL-1	Oct-16		0.00183	<0.000307	<0.000372	<0.000780	0.00183 J	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	TEL-1	Apr-17		0.000572 J	<0.000307	<0.000372	0.000539 J	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	TEL-1	Oct-17		0.00319	<0.000307	<0.000372	0.00203	0.00488	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	TEL-2	Apr-15		0.0182 J	<0.00610	**<0.00740**	0.0372 J	0.189	<0.00790	**<0.00840**	<0.00940	**<0.00800**	<0.00520
	TEL-2	Oct-15		0.00970	<0.00154	<0.00186	0.0186 J	0.155	<0.00198	<0.00210	<0.00234	<0.00199	<0.00130
	TEL-2	Apr-16		0.0102	<0.000307	<0.000372	0.0243	0.146	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	TEL-2	Oct-16		0.00660 J	<0.00307	<0.00372	0.0218 J	0.123	<0.00396	<0.00419	<0.00469	<0.00398	<0.00259
	TEL-2	Apr-17		0.00370 J	<0.00307	<0.00372	0.00914 J	0.0874	<0.00396	<0.00419	<0.00469	<0.00398	<0.00259
	TEL-2	Oct-17		<0.00341	<0.00307	<0.00372	0.0143	0.101	<0.00396	<0.00419	<0.00469	<0.00398	<0.00259
	TEL-3	Apr-15		<0.00340	<0.00310	<0.00370	<0.00780	<0.0110	<0.00400	<0.00420	<0.00470	<0.00400	<0.00260
	TEL-3	Oct-15		0.00316	<0.000307	<0.000372	0.00154 J	0.0202	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	TEL-3	Apr-16		<0.00852	<0.00768	**<0.00930**	<0.0195	<0.0265	<0.00990	**<0.0105**	<0.0117	**<0.00995**	<0.00648
	TEL-3	Oct-16		0.00232	<0.000307	<0.000372	0.00119 J	0.0105	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	TEL-3	Apr-17		0.00192	<0.000307	<0.000372	0.00219	0.0102	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	TEL-4	Apr-15		<0.00340	<0.00310	<0.00370	<0.00780	0.0394	<0.00400	<0.00420	<0.00470	<0.00400	<0.00260
	TEL-4	Apr-15	FD	<0.00340	<0.00310	<0.00370	<0.00780	0.0407	<0.00400	<0.00420	<0.00470	<0.00400	<0.00260
	TEL-4	Oct-15		0.00162	<0.000307	<0.000372	0.00623	0.0719	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	TEL-4	Oct-15	FD	<0.00341	<0.00307	<0.00372	0.00878 J	0.0837	<0.00396	<0.00419	<0.00469	<0.000398	<0.00259
	TEL-4	Apr-16		<0.00341	<0.00307	<0.00372	0.0132 J	0.142	<0.00396	<0.00419	<0.000469	<0.00398	<0.00259
	TEL-4	Apr-16	FD	<0.00341	<0.00307	<0.00372	0.0128 J	0.147	<0.00396	<0.00419	<0.000469	<0.00398	<0.00259
	TEL-4	Oct-16		<0.00341	<0.00307	<0.00372	<0.00780	0.0668	<0.00396	<0.00419	<0.000469	<0.00398	<0.00259
	TEL-4	Oct-16	FD	<0.00341	<0.00307	<0.00372	<0.00780	0.0863	<0.00396	<0.00419	<0.000469	<0.00398	<0.00259
	TEL-4	Apr-17		<0.00341	<0.00307	<0.00372	<0.00412	0.0243 J	<0.00396	<0.00419	<0.00469	<0.00398	<0.00259
	TEL-4	Apr-17	FD	0.000606 J	<0.000307	<0.000372	0.00218	0.0287	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	TEL-4	Oct-17		0.000782 J	<0.000307	<0.000372	0.00131	0.0269	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	TEL-4	Oct-17	FD	0.000684 J	<0.000307	<0.000372	0.00118	0.0242	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
TMD	MW-8	Apr-14		<0.000500	<0.000500	<0.000600	<0.000500	<0.00150	<0.000400	<0.000600		<0.000500	<0.000400
	MW-8	Apr-15		<0.000340	<0.000310	<0.000370	<0.000780	<0.00110	<0.000400	<0.000420	<0.000470	<0.000400	<0.000260
	MW-8	Apr-16		<0.000341	<0.000307	<0.000372	<0.000780	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	MW-8	Apr-17		<0.000341	<0.000307	<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	MW-16	Apr-14		<0.000500	<0.000500	<0.000600	<0.000500	<0.00150	<0.000400	<0.000600		<0.000500	<0.000400
	MW-16	Apr-15		<0.000340	<0.000310	<0.000370	<0.000780	<0.00110	<0.000400	<0.000420	<0.000470 J	<0.000400	<0.000260
	MW-16	Apr-17		<0.000341	<0.000307	<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	MW-20	Apr-14		<0.000500	<0.000500	<0.000600	<0.000500	<0.00150	<0.000400	<0.000600		<0.000500	<0.000400
	MW-20	Apr-14	FD	<0.000500	<0.000500	<0.000600	<0.000500	<0.00150	<0.000400	<0.000600		<0.000500	<0.000400
	MW-20	Apr-15		<0.000340	<0.000310	<0.000370	<0.000780	<0.00110	<0.000400	<0.000420	<0.000470	<0.000400	<0.000260
	MW-20	Apr-16		<0.000341	<0.000307	<0.000372	<0.000780	<0.00106	<0.000396	<0.00100 J4	<0.000469	<0.000398	<0.000259
	MW-20	Apr-17		<0.000341	<0.000307	<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	MW-21	Apr-15		<0.000340	<0.000310	<0.000370	<0.000780	<0.00110	<0.000400	<0.000420	<0.000470 J	<0.000400	<0.000260
	MW-21	Oct-15		<0.000341	<0.000307	<0.000372	<0.000780	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	MW-21	Apr-16		<0.000341	<0.000307	<0.000372	<0.000780	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	MW-21	Oct-16		<0.000341	<0.000307	<0.000372	<0.000780	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	MW-21	Apr-17		<0.000341	<0.000307	<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	MW-21	Oct-17		<0.000341	<0.000307	<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	MW-25	Apr-14		<0.000500	<0.000500	<0.000600	<0.000500	<0.00150	<0.000400	<0.000600		<0.000500	<0.000400
	MW-25	Apr-15		<0.000340	<0.000310	<0.000370	<0.000780	<0.00110	<0.000400	<0.000420	<0.000470 J	<0.000400	<0.000260
	MW-25	Apr-16		<0.000341	<0.000307	<0.000372	<0.000780	<0.00106	<0.000396	<0.00100 J4	<0.000469	<0.000398	<0.000259
	MW-25	Apr-17		<0.000341	<0.000307	<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259

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

2017 Annual Groundwater Monitoring Report

HollyFrontier Navajo Refining LLC, Artesia Refinery, Artesia, New Mexico

				Analyte Group:										
				Analyte:	o-Xylene	Styrene (Monomer)	Tetra-chloro-ethene	Toluene	Total Xylenes	trans-1,2-Dichloro-ethene	trans-1,3-Dichloro-propene	Tribromo-methane	Trichloro-ethene	Vinyl Chloride
				Units:	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
				CGWSL:	0.193	0.1	0.005	0.75	0.62	0.1	0.0047	---	0.005	1.00E-03
				CGWSL Source:	WQCC TW	USEPA MCL	USEPA MCL	WQCC HH	WQCC HH	USEPA MCL	USEPA TW	USEPA TW	USEPA MCL	WQCC HH
Area	**Well ID**	**Date**	**Dup**											
TMD	MW-26	Apr-14		<0.000500	<0.000500	<0.000600	<0.000500	<0.00150	<0.000400	<0.000600		<0.000500	<0.000400
	MW-26	Apr-15		<0.000340	<0.000310	<0.000370	<0.000780	<0.00110	<0.000400	<0.000420	<0.000470	<0.000400	<0.000260
	MW-26	Apr-16		<0.000341	<0.000307	<0.000372	<0.000780	<0.00106	<0.000396	<0.00100 J4	<0.000469	<0.000398	<0.000259
	MW-26	Apr-17		<0.000341	<0.000307	<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	MW-27	Apr-14		<0.000500	<0.000500	<0.000600	<0.000500	<0.00150	<0.000400	<0.000600		<0.000500	<0.000400
	MW-27	Apr-15		<0.000340	<0.000310	<0.000370	<0.000780	<0.00110	<0.000400	<0.000420	<0.000470	<0.000400	<0.000260
	MW-27	Apr-16		<0.000341	<0.000307	<0.000372	<0.000780	<0.00106	<0.000396	<0.00100 J4	<0.000469	<0.000398	<0.000259
	MW-27	Apr-17		<0.000341	<0.000307	<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	MW-46R	Nov-14		<0.000340	<0.000310	<0.000370	<0.000780	<0.00110	<0.000400	<0.000420		<0.000400	<0.000260 J
	MW-46R	Apr-15		<0.000340	<0.000310	<0.000370	<0.000780	<0.00110	<0.000400	<0.000420	<0.000470	<0.000400	<0.000260
	MW-46R	Apr-16		<0.000341	<0.000307	<0.000372	<0.000780	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	MW-46R	Oct-16		<0.000341	<0.000307	<0.000372	<0.000780	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	MW-46R	Apr-17		<0.000341	<0.000307	<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	MW-46R	Oct-17		<0.000341	<0.000307	<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	MW-68	Apr-14		<0.000500	<0.000500	<0.000600	<0.000500	<0.00150	<0.000400	<0.000600		<0.000500	<0.000400
	MW-68	Apr-15		<0.000340	<0.000310	<0.000370	<0.000780	<0.00110	<0.000400	<0.000420	<0.000470	<0.000400	<0.000260
	MW-68	Apr-16		<0.000341	<0.000307	<0.000372	<0.000780	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	MW-68	Apr-17		<0.000341	<0.000307	<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	MW-71	Apr-14		<0.000500	<0.000500	<0.000600	<0.000500	<0.00150	<0.000400	<0.000600		<0.000500	<0.000400
	MW-71	Apr-15		<0.000340	<0.000310	<0.000370	<0.000780	<0.00110	<0.000400	<0.000420	<0.000470	<0.000400	<0.000260
	MW-71	Apr-16		<0.000341	<0.000307	<0.000372	<0.000780	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	MW-71	Apr-17		<0.000341	<0.000307	<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	MW-89	Apr-14		<0.000500	<0.000500	<0.000600	<0.000500	<0.00150	<0.000400	<0.000600		<0.000500	<0.000400
	MW-89	Apr-15		0.000538 J	<0.000310	<0.000370	<0.000780	<0.00110	<0.000400	<0.000420	<0.000470 J	<0.000400	<0.000260
	MW-89	Apr-16		<0.000341	<0.000307	<0.000372	<0.000780	<0.00106	<0.000396	<0.00100 J4	<0.000469	<0.000398	<0.000259
	MW-89	Apr-17		<0.000341	<0.000307	<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	NP-1	Apr-15		<0.000340	<0.000310 J	<0.000370	<0.000780	<0.00110	<0.000400	<0.000420	<0.000470	<0.000400	<0.000260
	NP-1	Oct-15		<0.000341	<0.000307	<0.000372	<0.000780	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	NP-1	Apr-16		<0.000341	<0.000307	<0.000372	<0.000780	<0.00106	<0.000396	<0.00100 J4	<0.000469	<0.000398	<0.000259
	NP-1	Oct-16		<0.000341	<0.000307	<0.000372	<0.000780	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	NP-1	Apr-17		<0.000341	<0.000307	<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	NP-1	Oct-17		<0.000341	<0.000307	<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	NP-2	Apr-13		<0.00500	<0.00500	<0.00500	<0.00500	<0.0150	<0.00500	**<0.00500**	<0.00500	<0.00500	<0.00200
	NP-6	Apr-13		<0.00500	<0.00500	<0.00500	<0.00500	<0.0150	<0.00500	**<0.00500**	<0.00500	<0.00500	<0.00200
	NP-6	Apr-15		<0.000340	<0.000310	<0.000370	<0.000780	<0.00110	<0.000400	<0.000420	<0.000470 J	<0.000400	<0.000260
	NP-6	Apr-17		<0.000341	<0.000307	<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000470	<0.000398	<0.000259
Up-Gradient	UG-1	Apr-14		<0.000500	<0.000500	<0.000600	<0.000500	<0.00150	<0.000400	<0.000600		<0.000500	<0.000400
	UG-1	Apr-15		<0.000340	<0.000310	<0.000370	<0.000780	<0.00110	<0.000400	<0.000420	<0.000470	<0.000400	<0.000260
	UG-1	Apr-16		<0.000341	<0.000307	<0.000372	<0.000780	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	UG-1	Apr-17		<0.000341	<0.000307	<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	UG-2	Apr-14		<0.000500	<0.000500	<0.000600	<0.000500	<0.00150	<0.000400	<0.000600		<0.000500	<0.000400
	UG-2	Apr-15		<0.000340	<0.000310	<0.000370	<0.000780	<0.00110	<0.000400	<0.000420	<0.000470	<0.000400	<0.000260
	UG-2	Apr-16		<0.000341	<0.000307	<0.000372	<0.000780	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	UG-2	Apr-17		<0.000341	<0.000307	<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	UG-3R	Apr-14		<0.000500	<0.000500	<0.000600	<0.000500	<0.00150	<0.000400	<0.000600		<0.000500	<0.000400
	UG-3R	Apr-14	FD	<0.000500	<0.000500	<0.000600	<0.000500	<0.00150	<0.000400	<0.000600		<0.000500	<0.000400
	UG-3R	Apr-15		<0.000340	<0.000310	<0.000370	<0.000780	<0.00110	<0.000400	<0.000420	<0.000470	<0.000400	<0.000260
	UG-3R	Apr-16		<0.000341	<0.000307	<0.000372	<0.000780	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	UG-3R	Apr-17		<0.000341	<0.000307	<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	UG-4	Apr-16		<0.000341	<0.000307	<0.000372	<0.000780	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259
	UG-4	Apr-17		<0.000341	<0.000307	<0.000372	<0.000412	<0.00106	<0.000396	<0.000419	<0.000469	<0.000398	<0.000259

Definitions

X	F
X	A
<x	A
<x	A
	E
---	N

Abbreviations

CGWSL	C
CGWSL Source	S
Dup	D
FD	F
mg/L	M
NMED TPH	N
NMED TW	N
TPH	T
USEPA TW	U
USEPA MCL	U
WQCC HH	N

Lab Footnote

B	A
J	In
J3	T
J4	T
J6	T

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

2017 Annual Groundwater Monitoring Report

HollyFrontier Navajo Refining LLC, Artesia Refinery, Artesia, New Mexico

		Analyte Group:		Water Quality Parameters								Cyanide
		Analyte:		Calcium	Chloride	Fluoride	Potassium	Sodium	Sulfate	TDS	Nitrate/Nitrite	Cyanide
		Units:		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
		CGWSL:		---	250	1.60	---	---	600	1,000	10.0	0.200
		CGWSL Source:			WQCC Dom	WQCC HH			WQCC Dom	WQCC Dom	USEPA MCL	USEPA MCL
Area	**Well ID**	**Date**	**Dup**									
Cross-Gradient	KWB-13	Apr-14		418	158	0.580	0.724	143	**1,820**	**3,750**	**14.6**	<0.00500 H
	KWB-13	Apr-15		474	**788**	0.704	6.65	148	**1,970**	**3,060**	**15.3**	<0.00180
	KWB-13	Apr-16		626	148	0.630	2.26 J	258	**2,500**	**3,720**	**13.7**	<0.00120
	KWB-13	Apr-17		526	180	0.803	1.18	200	**2,390**	**3,600**	**16.1**	<0.00180
	MW-17	Apr-14		395	174	1.19	2.31	72.2	**1,200**	**2,340**	2.19	
	NP-5	Apr-13		465	**413**	**2.58**	<0.400	253	**3,090**	**5,980**	2.33	
	NP-5	Apr-15		448	**993**	**2.13**	0.484 J	209	**3,030**	**6,060** J	1.38	
	NP-5	Apr-17		514	**444**	**1.63**	0.422 J	212	**3,770**	**4,810**	2.22	
	RA-3156	Nov-13		537	238	0.208	3.06	169	**1,450**	**3,390**	9.09	
	RA-3156	Apr-14		<0.500	**278**	0.299	2.67		**1,800**	**3,280**	7.89	
	RA-3156	Apr-16		370	**1,140**	0.478	3.67 J	695	**1,070**	**3,050**	<0.197	
	RA-3156	Apr-17		337	**568**	0.668	2.41	292	**1,080**	**2,400**	0.330 J	
	MW-136	Oct-15		706	**265**	1.56	3.20	144	**2,740**	**4,020**	**22.1**	<0.00180
	MW-136	Apr-16		699	**336**	1.23	2.95 J	149	**2,870**	**4,250**	9.76	<0.00120
	MW-136	Oct-16		651	**355**	**1.66**	2.81	140	**2,530**	**4,400**	**12.4**	0.00188 J
	MW-136	Apr-17		643	**401**	**1.81**	2.81	140	**2,370**	**4,360**	**17.1**	<0.00180
	MW-136	Oct-17		671	**357**	1.50	2.61	148	**2,470**	**3,850**	**10.5**	<0.00180
Evaporation Ponds	MW-1R	Apr-14		540	**1,560**	0.567	4.27	1010	**1,900**	**5,740**	<0.150	
	MW-1R	Apr-15		765 J	**1,970**	0.821	4.52 J	1080 J	**2,400**	**5,020**	<0.0200	
	MW-1R	Apr-16		1030	**3,330**	0.603 J6	6.54	2090	**3,320**	**10,100**	<0.197	
	MW-1R	Apr-17		763	**2,880**	0.736	5.11	1830	**3,010**	**9,180**	0.402 J	
	MW-2A	Apr-15		944	**6,730**	1.06	7.71 J	4780	**4,830**	**14,200**	0.0404 J	
	MW-2A	Oct-15		677	**3,870**	**2.14**	5.85	2590	**3,670**	**10,500**	0.0390 J	
	MW-2A	Apr-16		933	**8,400**	1.53	7.35	5280	**7,640**	**20,700**	0.501 J	
	MW-2A	Oct-16		598	**3,290**	**3.43**	4.91	2270	**3,450**	**9,660**	0.122	
	MW-2A	Apr-17		720	**6,650**	**2.19**	6.21	4310	**6,010**	**19,000**	0.0220 J	
	MW-2A	Oct-17		323	**1,980**	**3.25**	3.65	1,350	**2,500**	**6,060**	0.0340 J	
	MW-3	Apr-15		839	33.2	**2.10**	6.16	1850	25.0	**12,200**	**24.5**	
	MW-3	Apr-15	FD	927	**3,270**	1.60	6.80	1790	**3,000**	**17,800**	**20.2**	
	MW-3	Oct-15		613	**1,950**	**1.99**	7.17	1220	**2,810**	**6,140**	0.182	
	MW-3	Oct-15	FD	636	**1,920**	**1.84**	7.11	1210	**2,730**	**6,480**	0.0580 J	
	MW-3	Apr-16		728	**1,360**	**1.87**	5.64	1160	**2,640**	**6,260**	0.404 J	
	MW-3	Apr-16	FD	690	**1,290**	**1.87**	5.47	1140	**2,530**	**6,240**	0.231 J	
	MW-3	Oct-16		574	**1,290**	**2.21**	5.69	865	**2,380**	**5,180**	0.0520 J	
	MW-3	Oct-16	FD	591	**1,270**	**2.20**	5.85	854	**2,380**	**5,040**	0.0490 J	
	MW-3	Apr-17		603	**1,330**	**1.94**	4.57	944	**2,480**	**5,080**	<0.197	
	MW-3	Apr-17	FD	599	**1,330**	**1.98**	4.57	876	**2,380**	**5,190**	<0.0197	
	MW-3	Oct-17		549	**1,340**	**2.39**	6.28	829	**2,470**	**4,640**	<0.0197	
	MW-3	Oct-17	FD	578	**1,290**	**1.99**	6.35	803	**2,430**	**4,660**	<0.0197	
	MW-4A	Apr-15		660	**1,560**	1.29	4.12 J	1080	**2,850**	**7,470**	<0.0200	
	MW-4A	Oct-15		394	**1,380**	**1.92**	5.23	1010	**2,110**	**4,290**	0.0530 J	
	MW-4A	Apr-16		507	**1,860**	**1.78**	4.03 J	1060	**2,990**	**5,090**	<0.197	
	MW-4A	Oct-16		393	**1,510**	**2.06**	4.06	890	**1,970**	**4,610**	0.0640 J	
	MW-4A	Apr-17		417	**1,480**	**1.93**	3.51	919	**2,070**	**4,550**	<0.0197	
	MW-4A	Oct-17		434	**1,470**	**1.85**	5.42	913	**2,050**	**4,500**	<0.0197	
	MW-4B	Apr-13		371	**928**	0.870	3.64	556	**1,330**	**3,660**	<1.00	
	MW-4B	Apr-15		367	**1,110**	0.963	2.32	696	**1,340**	**3,410** J	<0.0200	
	MW-4B	Apr-17		360	**1,330**	0.985	2.55	758	**1,410**	**3,690**	<0.0197	
	MW-5A	Apr-15		519	**4,100**	1.53	6.15 J	4220	**9,370**	**17,000**	<0.0200	
	MW-5A	Oct-15		513	**4,760**	**1.78**	7.27	4500	**8,480**	**17,800**	0.0450 J	
	MW-5A	Apr-16		472	**3,010**	**3.11**	7.39	2990	**5,610**	**13,700**	1.72	
	MW-5A	Oct-16		500	**3,500**	**3.43**	6.34	3880	**7,950**	**16,300**	0.0440 JJ6	
	MW-5A	Apr-17		439	**3,010**	**2.92**	7.27	3360	**5,840**	**12,500**	0.212	
	MW-5A	Oct-17		436	**2,580**	**2.83**	8.93	2,440	**4,960**	**9,500**	<0.0197	
	MW-5B	Apr-13		473	**1,840**	**2.20**	10.8	1600	**2,950**	**7,500**	2.93	
	MW-5B	Apr-15		482	**1,590**	1.41	9.01	1580	**3,510**	**5,980**	<0.0200	
	MW-5B	Apr-17		420	**1,560**	**1.73**	9.18	1650	**2,590**	**6,290**	0.0210 J	
	MW-5C	Apr-13		420	**639**	1.20	4.21	446	**1,580**	**3,620**	<1.00	
	MW-5C	Apr-15		427	**585**	0.910	3.97 J	485	**2,020**	**3,290**	<0.0200	
	MW-5C	Apr-17		383	**576**	0.971	3.90	500	**1,740**	**3,110**	<0.0197	
	MW-6A	Apr-14		762	**1,620**	1.31	2.44	998	**1,980**	**5,600**	0.245 J	
	MW-6A	Apr-15		809	**2,010**	**1.85**	2.14 J	1090	**2,240**	**6,500**	0.875	
	MW-6A	Apr-16		449	**1,300**	1.52	1.74 J	835	**2,360**	**4,290**	0.461 J	
	MW-6A	Apr-17		353	**904**	**1.62**	1.38	770	**2,080**	**4,660**	<0.197	
	MW-6B	Mar-13		530	**1,370**	0.533	4.31	710	**1,640**	**4,480**	<1.00	
	MW-6B	Mar-13	FD	478	**1,420**	0.814	4.87	753	**1,690**	**4,510**	<1.00	
	MW-6B	Apr-15		568	**1,740**	0.669 J	5.09	873	**2,280**	**4,760**	<0.0200	
	MW-6B	Apr-17		418	**1,250**	0.694	3.97	738	**1,730**	**4,150**	<0.197	
	MW-7A	Apr-15		609	**3,080**	0.693	4.18	2060	**3,620**	**9,840**	<0.0200	
	MW-7A	Apr-15	FD	593	**3,100**	0.996	4.21	2060	**3,190**	**9,300**	0.0262 J	
	MW-7A	Oct-15		403	**2,470**	1.08	3.96	1590	**4,020**	**7,100**	<0.0197	
	MW-7A	Oct-15	FD	404	**2,230**	1.12	3.95	1690	**3,150**	**7,180**	<0.0197	
	MW-7A	Apr-16		459	**2,500**	1.24	4.18 J	1810	**3,360**	**7,620**	<0.197	
	MW-7A	Apr-16	FD	423	**2,550**	1.24	3.94 J	1690	**3,710**	**7,540**	<0.197 J6	
	MW-7A	Oct-16		406	**2,790**	1.49	4.22	1600	**3,420**	**7,460**	0.0260 J	
	MW-7A	Oct-16	FD	395	**2,240**	1.45	4.01	1550 O1V	**2,790**	**7,340**	0.0470 J	
	MW-7A	Apr-17		371	**2,240**	1.31	3.79	2000	**2,700**	**6,690**	0.0360 J	
	MW-7A	Apr-17	FD	434	**2,230**	1.07	3.89 O1	1780	**2,930**	**7,810**	<0.0197	
	MW-7A	Oct-17		366	**2,300**	1.23	3.97	1,550	**2,990**	**7,100**	<0.0197	
	MW-7A	Oct-17	FD	386	**2,520**	1.24	3.94	1,650	**3,290**	**6,820**	<0.0197	
	MW-7B	Apr-13		545	**1,030**	**3.09**	6.66	540	**1,800**	**4,280**	<1.00	
	MW-7B	Apr-15		556	**1,060**	0.795	6.27	672	**2,200**	**4,640**	<0.0200	
	MW-7B	Apr-17		530	**1,060**	0.966	6.71	652	**1,750**	**4,720**	0.0670 J	
	MW-10	Apr-15		466	**1,380**	0.919	3.54 J	941	**2,110**	**5,030**	<0.0200	
	MW-10	Oct-15		518	**1,580**	0.783	3.68	1080	**2,620**	**5,340**	0.280 J	
	MW-10	Apr-16		523	**1,530**	0.826	3.83 J	1110	**2,220**	**5,120**	<0.197	
	MW-10	Oct-16		647	**2,100**	1.18	3.54	1180	**3,740**	**6,550**	0.0970 J	
	MW-10	Apr-17		460	**1,460**	0.825	3.41	996	**2,030**	**4,850**	**593**	
	MW-10	Oct-17		475	**1,370**	0.808	3.34	973	**2,060**	**4,830**	<0.0197	
	MW-11A	Apr-15		1630	**11,800**	0.0639 J	19.0 J	6090	**2,910**	**24,900** J	1.47	
	MW-11A	Oct-15		1200	**9,930**	0.152	20.3	5260	**3,780**	**18,300**	0.265	
	MW-11A	Apr-16		1280 V	**9,440**	0.414 J6	19.0	5150	**3,510**	**18,600**	0.715 JJ6	
	MW-11A	Oct-16		1230	**9,180**	0.752	20.8	4850	**3,250**	**16,600**	0.0480 JB	
	MW-11A	Apr-17		1280	**10,200**	0.683	20.1	5130	**3,290**	**19,500**	0.305 J	
	MW-11A	Oct-17		1,130	**9,650**	0.340	19.8	4,460	**3,510**	**17,900**	<0.0197	
	MW-11B	Mar-13		855	**6,560**	<0.500	35.2	3340	**3,030**	**15,100**	<1.00	
	MW-11B	Apr-15		1070	**6,000**	0.562	36.6	4040	**3,860**	**12,700**	<0.0200	
	MW-11B	Apr-17		979	**6,050**	0.825	35.2	3660	**2,890**	**14,000**	<0.197	
	MW-12	Apr-14		728	**2,460**	0.685	5.57	1280	**2,490**	**7,960**	4.10	
	MW-13	Apr-14		682	**1,780**	0.354	5.56	914	**2,180**	**6,520**	0.463 J	
	MW-15	Apr-14		849	**2,960**	**2.33**	5.68	1420	**1,770**	**19,900**	**40.2**	
	MW-15	Apr-15		565	**2,150**	**2.12**	5.01	1300	**2,000**	**5,470**	**16.0**	
	MW-15	Apr-16		487	**611**	**2.01**	5.53	795	**1,240**	**4,720**	3.99	
	MW-15	Apr-17		285	**612**	1.58	4.31	447	**1,100**	**2,640**	0.485 J	

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

2017 Annual Groundwater Monitoring Report

HollyFrontier Navajo Refining LLC, Artesia Refinery, Artesia, New Mexico

		Analyte Group:		Water Quality Parameters								Cyanide
			Analyte:	Calcium	Chloride	Fluoride	Potassium	Sodium	Sulfate	TDS	Nitrate/Nitrite	Cyanide
			Units:	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
			CGWSL:	---	250	1.60	---	---	600	1,000	10.0	0.200
			CGWSL Source:		WQCC Dom	WQCC HH			WQCC Dom	WQCC Dom	USEPA MCL	USEPA MCL
Area	**Well ID**	**Date**	**Dup**									
Evaporation Ponds	MW-18A	Apr-15		718	**11,600**	**6.14**	56.7	7290	**9,490**	**32,600**	2.18	<0.00180
	MW-18A	Oct-15		711	**9,930**	**5.43**	51.8	6250	**10,600**	**27,400**	0.146	<0.00180
	MW-18A	Apr-16		704	**6,820**	**2.83**	46.6	4730	**6,360**	**20,500**	0.371 J	<0.00180
	MW-18A	Oct-16		662	**7,270**	**3.22**	42.4	4740	**6,870**	**20,200**	0.0300 J	<0.00180
	MW-18A	Apr-17		623	**5,790**	1.46	38.8	3940	**6,330**	**17,100**	0.0220 J	<0.00180
	MW-18A	Oct-17		713	**7,090**	1.60	40.7	4,020	**7,410**	**15,100**	<0.0197	<0.00180
	MW-18B	Apr-13		592	**803**	1.10	6.32	474	**1,870**	**4,060**	<1.00	
	MW-18B	Apr-15		581	**763**	0.931	5.91	460	**1,840**	**4,410**	0.0280 J	
	MW-18B	Apr-17		576	**860**	0.797	5.91	481	**2,070**	**4,080**	<0.0197	
	MW-22A	Apr-15		549	**2,150**	0.758	3.79 J	1450	**2,500**	**7,270**	<0.0200	
	MW-22A	Apr-15	FD	494	**2,020**	0.682	3.16 J	1240	**2,590**	**6,630**	<0.0200	
	MW-22A	Oct-15		529	**1,980**	0.621	3.64	1480	**2,660**	**6,330**	0.358 J	
	MW-22A	Oct-15	FD	527	**1,970**	0.610	3.65	1640	**2,650**	**6,090**	0.441 J	
	MW-22A	Apr-16		548	**1,890**	0.645	4.08 J	1440	**2,340**	**6,190**	<0.197	
	MW-22A	Apr-16	FD	541	**1,900**	0.660	4.04 J	1440	**2,560**	**6,160**	<0.197	
	MW-22A	Oct-16		570	**1,940**	0.752	3.96	1490	**2,380**	**6,970**	0.219 B	
	MW-22A	Oct-16	FD	563	**2,030**	0.733	3.88	1450	**2,400**	**7,220**	0.0490 JB	
	MW-22A	Apr-17		493	**2,090**	0.632	3.71	1350	**2,530**	**6,630**	<0.197	
	MW-22A	Apr-17	FD	503	**1,860**	0.743	3.73	1340	**2,160**	**4,210**	<0.0197	
	MW-22A	Oct-17		491	**1,990**	0.614	3.49	1,380	**2,450**	**6,010**	<0.0197	
	MW-22A	Oct-17	FD	505	**2,210**	0.655	3.43	1,340	**2,610**	**5,910**	<0.0197	
	MW-22B	Apr-13		530	**1,470**	0.619	4.48	932	**2,240**	**5,460**	<1.00	
	MW-22B	Apr-15		477	**1,400**	0.823	4.02 J	1150	**2,170**	**5,590**	<0.0200	
	MW-22B	Apr-17		396	**1,400**	0.771	4.15	1150	**2,080**	**5,670**	0.408 J	
	MW-70	Apr-15		695	**1,240**	0.740	4.90	774	**2,230**	**5,700**	<0.0200 J	
	MW-70	Oct-15		756			5.51	782				
	MW-70	Apr-16		720	**1,370**	0.775	5.46	908	**2,240**	**5,730**	0.416 J	
	MW-70	Oct-16										
	MW-70	Apr-17		673	**1,290**	0.626	4.87	852	**2,460**	**4,660**	<0.0197	
	MW-70	Oct-17										
	MW-72	Apr-14		795	**4,350**	**6.27**	9.87	2440	**3,020**	**10,300**	3.10	
	MW-72	Apr-15		896	**5,240**	**3.91**	13.3	3030	**3,800**	**12,900**	6.37	
	MW-72	Apr-16		700	**3,310**	**5.88**	8.82	2060	**3,400**	**9,140**	1.88	
	MW-72	Apr-17		670	**3,460**	**6.25**	9.30	2510	**2,950**	**9,140**	1.56	
	MW-73	Apr-14		590	**2,260**	**2.09**	2.54	2160	**3,510**	**9,120**	<0.150	
	MW-73	Apr-15		659	**2,480**	**1.94**	3.12 J	2200	**4,560**	**9,360**	0.757	
	MW-73	Apr-16		597	**2,790**	**1.96**	2.32 J	2240	**5,090**	**9,360**	0.501 J	
	MW-73	Apr-17		571	**2,390**	**2.11**	2.55	2690	**3,940**	**8,880**	0.313	
	MW-74	Apr-15		552	**1,170**	**6.02**	39.4	2230	**4,450**	**9,360**	**176**	
	MW-74	Oct-15		558	**1,810**	**6.19**	39.2	2330	**4,140**	**8,720**	**12.3**	
	MW-74	Apr-16		632	**1,640**	**7.44**	35.6	2080	**3,100**	**8,280**	0.796 J	
	MW-74	Oct-16		566	**1,900**	**8.61**	44.9	3120	**4,880**	**10,200**	**211**	
	MW-74	Apr-17		557	**2,030**	**7.23**	39.9	2690	**4,490**	**9,080**	**55.7**	
	MW-74	Oct-17		576	**2,050**	**7.68**	41.1	2,170	**4,470**	**9,220**	**44.7**	
	MW-75	Apr-15		372	11.8 J	**8.20**	20.3	1490	14.2 J	**4,020**	<0.200	
	MW-75	Oct-15		352	**1,550**	**7.80**	19.3	1560	**2,510**	**5,280**	0.0590 J	
	MW-75	Apr-16		374	**1,530**	**7.62**	21.5	1640	**1,940**	**5,940**	<0.197	
	MW-75	Oct-16		351	**1,400**	**7.88**	17.5	1480	**2,080**	**6,000**	0.0490 JB	
	MW-75	Apr-17		333	**1,550**	**7.16**	17.5	1510	**2,520**	**6,100**	3.35	
	MW-75	Oct-17		358	**1,490**	**7.81**	18.2	1,350	**2,240**	**5,020**	<0.0197	
	MW-76	Apr-15		558	18.1 J	**3.15**	29.7	1120	22.0 J	**4,650**	<0.200	
	MW-76	Oct-15		445	**1,370**	**3.10**	28.0	1070	**2,480**	**4,840**	0.0310 J	
	MW-76	Apr-16		531	**1,180**	**2.96**	29.4	1110	**2,250**	**5,220**	<0.197	
	MW-76	Oct-16		553	**1,200**	**3.26**	28.6	1130	**2,490**	**6,010**	0.0470 JB	
	MW-76	Apr-17		485	**1,380**	**2.54**	25.9	969	**2,850**	**5,750**	<0.197	
	MW-76	Oct-17		479	**1,300**	**3.06**	26.5	993	**2,440**	**4,630**	<0.0197	
	MW-77	Apr-15		609	10.8 J	**4.21**	72.1	1410	37.7 J	**5,350**	<0.200	
	MW-77	Oct-15		557	**433**	**2.42**	82.5	1490	**4,820**	**7,510**	0.211	
	MW-77	Apr-16		589	**378**	**3.03**	82.9	1610	**4,010**	**7,110**	0.406 J	
	MW-77	Oct-16		579	**294**	**3.14**	82.1	1380	**4,000**	**7,850**	0.0470 JB	
	MW-77	Apr-17		534	**393**	**2.43**	67.1	1280	**4,900**	**6,950**	<0.197	
	MW-78	Apr-14		542	215	**10.9**	25.2	524	**2,650**	**5,760**	<0.150	
	MW-78	Apr-15		576	63.2	0.0979 J	18.9	320	19.6 J	**2,560**	4.24	
	MW-78	Apr-16		659	72.5	**9.96**	22.9	540	**2,690**	**5,270**	<0.197	
	MW-78	Apr-17		537	98.0	**9.91**	17.4	366	**2,640**	**4,290**	0.372 J	
	MW-79	Apr-15		649	**1,570**	**5.52**	7.98	1150	**2,930**	**5,660**	1.90 J	
	MW-79	Oct-15		517	**1,440**	**6.43**	7.61	857	**2,440**	**5,210**	0.147	
	MW-79	Apr-16		603	**1,390**	**7.08**	8.43	1140	**2,040**	**5,320**	1.87	
	MW-79	Oct-16		525 V	**1,380**	**7.01**	7.28	869 V	**2,000**	**5,180**	0.0700 JB	
	MW-79	Apr-17		527 V	**1,590**	**7.33**	7.58	987	**2,330**	**5,040**	2.26	
	MW-79	Oct-17		598	**1,700**	**6.17**	6.86	871	**2,320**	**5,190**	0.188	
	MW-80	Apr-14		645	**1,470**	**3.62**	3.84	983	**2,070**	**6,080**	2.73	
	MW-80	Apr-15		693	**1,600**	**3.15**	3.08 J	1210	**2,700**	**5,600**	0.519	
	MW-80	Apr-16		875	**1,970**	**3.30**	4.07 J	1240	**2,270**	**6,340**	0.523 J	
	MW-80	Apr-17		759	**2,530**	**3.59**	3.53	1230	**2,640**	**7,920**	2.63	
	MW-81	Apr-14		111	**1,140**	**8.13**	9.51	255	**2,350**	**6,500**	**79.1**	
	MW-81	Apr-15		583	**1,110**	**6.20**	9.40	1380	**2,800**	**6,260**	**99.5**	
	MW-81	Apr-16		687	**1,120**	**5.93**	12.2	1690	**2,790**	**6,730**	**105**	
	MW-81	Apr-17		560	**1,370**	**7.55**	9.28	1260	**3,050**	**6,880**	**80.5**	
	MW-82	Apr-14		279	**2,880**	**18.2**	9.55	1800	**3,910**	**6,260**	<0.150	
	MW-82	Apr-14	FD	286	**1,510**	**18.0**	9.02	1810	**2,070**	**5,460**	<0.150	
	MW-82	Apr-15		284	**1,110**	**10.7**	9.28	1700	**2,200**	**5,770**	<0.0200	
	MW-82	Apr-16		350	**1,360**	**12.1**	9.87	1790	**2,350**	**5,410**	0.262 J	
	MW-82	Apr-17		347	**1,500**	**11.4**	8.92	1400	**2,380**	**5,630**	0.0820 J	
	MW-83	Apr-15		566	55.5	**3.96**	58.4	364	32.7 J	**4,810**	<0.200	
	MW-83	Oct-15		388	202	**7.32**	34.0	271	**3,210**	**4,530**	0.0860 J	
	MW-83	Apr-16		483	**769**	**4.80**	36.7	563	**3,770**	**4,980**	<0.197	
	MW-83	Oct-16		417	11.0	**6.99**	45.9	139	**3,300**	**4,610**	0.101	
	MW-83	Apr-17		483	45.4	**4.80**	49.4	256	**3,840**	**5,900**	<0.197	
	MW-83	Oct-17		462	**291**	**4.74**	48.2	293	**3,590**	**5,240**	<0.0197	
	MW-84	Apr-15		555	**1,460**	**4.41**	7.41	1480	**4,620**	**4,230**	<0.200	
	MW-84	Oct-15		596	**1,070**	**8.23**	17.0	1580	**7,300**	**12,400**	4.83	
	MW-84	Apr-16		643	**1,410**	**5.54**	10.2	1840	**4,550**	**9,480**	<0.197	
	MW-84	Oct-16		561	**1,230**	**5.96**	12.2	1460	**5,280**	**9,560**	0.0480 J	
	MW-84	Apr-17		573	**1,850**	**5.68**	8.06	1430	**4,690**	**9,360**	<0.197	
	MW-84	Oct-17		589	**1,860**	**5.22**	6.56	1,520	**4,670**	**8,460**	0.0570 J	
	MW-87	Apr-15		740	**4,880**	1.19	27.3	3190	**4,390**	**13,800**	0.241	
	MW-87	Oct-15		737			26.5	3250				
	MW-87	Apr-16		728 V	**4,180**	1.40	27.9 V	3230 V	**4,310**	**12,000**	<0.197	
	MW-87	Oct-16										
	MW-87	Apr-17		648	**4,340**	1.02	24.3	3560	**5,020**	**13,500**	<0.0197	
	MW-87	Oct-17										

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

2017 Annual Groundwater Monitoring Report

HollyFrontier Navajo Refining LLC, Artesia Refinery, Artesia, New Mexico

		Analyte Group:		Water Quality Parameters								Cyanide
		Analyte:		Calcium	Chloride	Fluoride	Potassium	Sodium	Sulfate	TDS	Nitrate/Nitrite	Cyanide
		Units:		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
		CGWSL:		---	250	1.60	---	---	600	1,000	10.0	0.200
		CGWSL Source:			WQCC Dom	WQCC HH			WQCC Dom	WQCC Dom	USEPA MCL	USEPA MCL
Area	**Well ID**	**Date**	**Dup**									
Evaporation Ponds	MW-88	Apr-15		519	**3,000**	**1.80**	2.66 J	2250	**4,970**	**11,000**	<0.0200	
	MW-88	Oct-15		397			3.03	1270				
	MW-88	Apr-16		417	**1,610**	1.22	3.10 J	1220	**2,600**	**5,800**	<0.197	
	MW-88	Oct-16										
	MW-88	Apr-17		406	**1,710**	1.04	3.00	1100	**2,410**	**6,300**	<0.197	
	MW-88	Oct-17										
	MW-120	Apr-15		677	**2,480**	**2.49**	3.92 J	1620	**3,080**	**7,660**	2.49	
	MW-120	Oct-15		860 J	**3,640**	**2.38**	3.60	1790 J	**3,100**	**9,720**	0.0350 J	
	MW-120	Apr-16		939	**3,690**	**2.56**	4.25 J	1910	**2,510**	**9,100**	<0.197	
	MW-120	Oct-16		919	**3,830**	**2.68**	3.71	1520	**2,410**	**9,080**	0.0470 JJ6	
	MW-120	Apr-17		728	**3,070**	**3.15**	3.11	1600	**2,730**	**8,460**	<0.197	
	MW-120	Oct-17		671	**2,970**	**3.24**	3.33	1,240	**3,580**	**7,120**	<0.0197	
	MW-121	Apr-15		642	**1,370**	**3.69**	2.67	854	**2,740**	**6,040**	2.08	
	MW-121	Oct-15		619	**1,220**	**4.24**	3.38	942	**3,360**	**6,290**	2.96	
	MW-121	Apr-16		718	**1,520**	**4.34**	3.39 J	968	**3,790**	**5,550**	2.13	
	MW-121	Oct-16		588	**1,150**	**5.24**	3.18	834	**3,070**	**5,470**	1.69	
	MW-121	Apr-17		597	**1,210**	**4.69**	2.87	862	**2,840**	**5,100**	1.19	
	MW-121	Oct-17		610	**1,050**	**5.14**	3.19	780	**3,070**	**5,440**	1.39	
	MW-122	Apr-15		658	**2,970**	**3.38**	5.51 J	2660	**4,380**	**10,700**	0.229	
	MW-122	Oct-15		382	**1,580**	**3.29**	4.06	1090	**2,560**	**5,700**	0.0380 J	
	MW-122	Apr-16		549	**1,920**	**3.57**	4.78 J	1350	**3,430**	**6,700**	0.499 J	
	MW-122	Oct-16		491	**1,760**	**3.29**	4.31	1160	**2,270**	**5,730**	0.0280 J	
	MW-122	Apr-17		632	**2,700**	**3.71**	5.19	1770	**3,900**	**9,060**	<0.197	
	MW-122	Oct-17		397	**1,610**	**3.02**	3.93	950	**2,640**	**4,580**	<0.0197	
	MW-123	Apr-15		532	**1,560**	1.16	3.84 J	1120	**2,220**	**5,650**	<0.0200	
	MW-123	Oct-15		527	**1,710**	1.11	3.71	1190	**2,360**	**5,490**	0.270 J	
	MW-123	Apr-16		570	**1,880**	1.09	3.73 J	1320	**2,410**	**5,850**	<0.197	
	MW-123	Oct-16		510	**1,600**	1.20	3.59	1090	**2,420**	**4,990**	0.0470 J	
	MW-123	Apr-17		514 V	**1,730**	1.22	3.72	1240 V	**2,190**	**6,200**	0.0540 JP1	
	MW-123	Oct-17		516	**1,580**	1.08	3.46	1,030	**2,360**	**5,000**	<0.0197	
	MW-124	Apr-15		779	**3,240**	0.922	6.80	1970	**3,610**	**11,400**	0.0265 J	
	MW-124	Oct-15		780	**3,210**	0.915	7.41	1840	**4,120**	**10,100**	0.0310 J	
	MW-124	Apr-16		929	**1,490**	1.20	8.45	2150	**1,720**	**9,800**	0.415 J	
	MW-124	Oct-16		719	**3,270**	1.31	6.37	1670	**3,930**	**9,340**	0.0470 J	
	MW-124	Apr-17		715	**3,110**	0.739	6.44	2140	**3,950**	**9,780**	<0.0197	
	MW-124	Oct-17		781	**3,510**	0.871	6.24	1,830	**4,440**	**8,860**	<0.0197	
	OCD-1R	Apr-15		837	**5,290**	**2.50**	4.95 J	4050	**4,860**	**14,900**	1.29	
	OCD-1R	Oct-15		641	**3,100**	**2.78**	4.86	2660	**3,710**	**9,160**	0.144	
	OCD-1R	Apr-16		641	**2,570**	**2.90**	4.54 J	2220	**3,550**	**8,960**	0.928 J	
	OCD-1R	Oct-16		701	**2,560**	**3.36**	4.76	1800	**3,060**	**8,900**	0.0530 JB	
	OCD-1R	Apr-17		570	**2,490**	**3.60**	4.22	1960	**3,020**	**8,460**	0.213 J	
	OCD-1R	Oct-17		607	**2,280**	**3.08**	4.07	1,570	**3,110**	**7,220**	0.0720 J	
	OCD-2A	Apr-15		788	**2,960**	0.969	5.05	1600	**2,740**	**8,340**	0.264	
	OCD-2A	Oct-15		707			7.05	1490				
	OCD-2A	Apr-16		678	**1,800**	0.705	5.98	1340	**2,750**	**5,870**	0.417 J	
	OCD-2A	Oct-16										
	OCD-2A	Apr-17		655	**1,840**	0.800	5.49	995	**1,860**	**5,850**	<0.197	
	OCD-2A	Oct-17										
	OCD-3	Apr-15		659	**1,610**	1.02	12.6	1060	**2,240**	**6,070**	0.0878 J	
	OCD-3	Oct-15		760			14.1	904				
	OCD-3	Apr-16		746	**1,640**	0.899	14.5	1100	**3,080**	**5,890**	<0.197	
	OCD-3	Oct-16										
	OCD-3	Apr-17		733	**2,030**	0.998	14.4	1120	**2,160**	**6,440**	<0.197	
	OCD-3	Oct-17										
	OCD-4	Apr-15		1010	**5,850**	0.506	36.5	3590	**4,550**	**12,900**	<0.0200	
	OCD-4	Oct-15		833			33.2	2560				
	OCD-4	Apr-16		927	**5,320**	0.608	36.2	3400	**3,610**	**12,700**	0.446 J	
	OCD-4	Oct-16										
	OCD-4	Apr-17		809	**4,110**	0.908	33.7	2330	**2,850**	**11,000**	0.0390 JP1	
	OCD-4	Oct-17										
	OCD-5	Apr-15		901	**4,490**	0.691	39.6	2930	**3,090**	**10,800**	0.0434 J	
	OCD-5	Oct-15		836	**4,700**	0.548	39.6	3130	**3,430**	**12,000**	0.0380 J	
	OCD-5	Apr-16		900	**5,030**	0.774 J3J6	41.2	2960	**3,780**	**9,960**	0.222 J	
	OCD-5	Oct-16		851	**4,700**	0.892	39.0	2830	**3,080**	**12,700**	0.0520 JBJ6	
	OCD-5	Apr-17		829	**4,720**	0.872	40.0	2780	**2,990**	**12,100**	<0.197	
	OCD-5	Oct-17		906	**7,230**	0.669	35.5	2,710	**5,020**	**11,200**	<0.0197	
	OCD-6	Apr-15		779	**4,050**	**1.85**	15.5	2470	**3,320**	**10,300**	0.211	
	OCD-6	Oct-15		756	**4,510**	**2.09**	15.0	3380	**3,400**	**10,700**	0.0280 J	
	OCD-6	Apr-16		866	**4,440**	**2.47**	17.0	2700	**3,410**	**10,600**	1.22	
	OCD-6	Oct-16		790	**4,110**	**2.79**	14.1	2600	**2,850**	**10,200**	0.0920 J	
	OCD-6	Apr-17		834	**4,030**	**2.39**	15.8	2870	**2,570**	**11,000**	1.02	
	OCD-6	Oct-17		855	**4,770**	**2.66**	15.4	2580	**3,190**	**11,600**	<0.0197	
	OCD-7AR	Apr-15		609	**2,110**	**2.91**	5.52	2050	**3,650**	**8,260**	0.260	
	OCD-7AR	Oct-15		635	**2,490**	**2.55**	5.83	2870	**4,500**	**8,960**	0.0250 J	
	OCD-7AR	Apr-16		694	**2,550**	**2.78**	6.27	2580	**4,740**	**8,480**	1.03	
	OCD-7AR	Oct-16		596	**3,020**	**3.50**	5.78	2410	**4,870**	**8,860**	0.0430 J	
	OCD-7AR	Apr-17		600	**2,550**	**2.72**	5.59	2870	**3,970**	**8,960**	0.0420 J	
	OCD-7AR	Oct-17		618	**2,700**	**3.02**	5.71	2,450	**4,190**	**9,920**	<0.0197	
	OCD-7B	Mar-13		552	**867**	1.33	12.2	650	**2,270**	**4,670**	<1.00	
	OCD-7B	Apr-15		641	**910**	0.852	11.9	685	**2,580**	**4,520**	<0.0200	
	OCD-7B	Apr-17		564	**960**	1.05	11.0	629	**2,100**	**4,540**	<0.0197	
	OCD-8A	Apr-15		1190	**6,270**	0.826	10.8	3330	**3,620**	**13,700**	<0.0200	<0.00180
	OCD-8A	Oct-15		946	**5,140**	1.36	11.0	2870	**3,690**	**11,900**	<0.0197	<0.00180
	OCD-8A	Apr-16		762	**3,480**	**1.88**	9.09	2410	**3,630**	**11,000**	<0.197	<0.00180
	OCD-8A	Oct-16		680	**3,270**	**2.39**	9.22	2380	**3,660**	**9,600**	0.0870 J	0.00182 J
	OCD-8A	Apr-17		658	**2,870**	**2.16**	8.50	2510	**3,410**	**8,960**	0.0300 J	<0.00180
	OCD-8A	Oct-17		696	**2,960**	**2.27**	8.54	2030	**4,140**	**9,000**	<0.0197	<0.00180
	OCD-8B	Apr-13		716	**2,180**	0.980	8.75	1330	**2,880**	**7,400**	<1.00	
	OCD-8B	Apr-15		680	**2,020**	0.934	9.51	1520	**2,910**	**7,110**	0.0233 J	
	OCD-8B	Apr-17		660	**2,030**	0.925	9.07	1800	**2,620**	**7,390**	0.0320 J	
Field East of Refinery	KWB-1A	Apr-15		596	**555**	1.17	1.01	202	**3,400**	**5,320**	4.22	<0.00180
	KWB-1A	Oct-15		549	**539**	1.15	1.09	230	**2,800**	**4,580**	0.666 J	<0.00180
	KWB-1A	Apr-16		619	**575**	1.26	1.37 J	271	**3,080**	**4,990**	4.61	<0.00120
	KWB-1A	Oct-16		553	**553**	1.21	1.21	274	**2,950**	**4,600**	0.514 B	<0.00180
	KWB-1A	Apr-17		566	**530**	1.39	1.19	269	**2,940**	**4,930**	1.09	<0.00180
	KWB-1A	Oct-17		514	**387**	1.12	0.966 J	266	**2,990**	**4,520**	0.409	<0.00180
	KWB-1C	Apr-13		474	**380**	1.03	5.68	161	**2,150**	**4,420**	1.75	
	KWB-1C	Apr-15		619	**1,160**	**25.3**	1.23	210	**2,920**	**5,340**	0.180	
	KWB-1C	Apr-17		560	**508**	1.25	1.36	267	**2,860**	**5,000**	0.0350 JP1	
	KWB-7	Apr-15		279	**301**	0.754	0.209 J	238	**886**	**2,100**	<0.200	<0.00180 J
	KWB-7	Oct-15		320	**358**	0.813	0.152 J	252	**1,120**	**2,570**	0.202 J	<0.00180
	KWB-7	Apr-16		325	**281**	0.917	0.236 J	248	**953**	**2,830**	<0.197	0.00500 J
	KWB-7	Oct-16		355	**420**	0.933	0.194 J	281	**1,160**	**3,030**	0.0580 JB	<0.00180
	KWB-7	Apr-17		306	**305**	0.822	0.225 J	230	**1,070**	**2,540**	0.0600 J	<0.00180
	KWB-7	Oct-17		345	**354**	0.599	0.230 J	268	**907**	**3,080**	<0.0197	<0.00180

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

2017 Annual Groundwater Monitoring Report

HollyFrontier Navajo Refining LLC, Artesia Refinery, Artesia, New Mexico

				Analyte Group:	Water Quality Parameters								Cyanide
				Analyte:	Calcium	Chloride	Fluoride	Potassium	Sodium	Sulfate	TDS	Nitrate/Nitrite	Cyanide
				Units:	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
				CGWSL:	---	250	1.60	---	---	600	1,000	10.0	0.200
				CGWSL Source:		WQCC Dom	WQCC HH			WQCC Dom	WQCC Dom	USEPA MCL	USEPA MCL
Area	**Well ID**	**Date**	**Dup**										
Field East of Refinery	KWB-8	Oct-16		251	**579**	0.467	0.351 J	443	**701**	**3,120**	0.0380 JB	<0.00900	
	KWB-8	Apr-17		237	**574**	0.623	0.414 J	320	442	**2,400**	0.0510 J	<0.00180	
	KWB-8	Oct-17		273	**913**	0.467	0.411 J	462	417	**3,270**	<0.985	<0.00180	
	KWB-10R	Apr-15		132	**800**	**19.7**	0.440 J	141	1.03 J	**1,190**	<0.200		
	KWB-10R	Oct-15		132	192	1.31	0.491 J	136	0.117 J	**1,090**	0.0420 J		
	KWB-10R	Apr-16		149	190	1.42	0.573 J	153	<0.0774	**1,090**	<0.197		
	KWB-10R	Oct-16		148	189	1.28	0.548 J	135	110	**1,160**	0.364 B		
	KWB-10R	Apr-17		134	230	1.57	0.521 J	131	0.475 J	**1,130**	<0.0197		
	KWB-10R	Oct-17		138	186	1.39	0.453 J	123	3.08 J	**1,080**	0.440		
	KWB-11A	Apr-15		568	**1,270**	0.580	0.305 J	370	**2,280**	**4,020**	**15.7**	<0.00180 J	
	KWB-11A	Oct-15		674	**1,620**	0.660	0.748 J	406	**1,570**	**5,320**	**49.3**	<0.00180	
	KWB-11A	Apr-16		710	**1,600**	0.642	0.797 J	426	**1,570**	**5,840**	**42.4**	0.0230	
	KWB-11A	Oct-16		647	**1,460**	0.742	0.719 J	450	**1,590**	**5,940**	**30.9**	<0.00180	
	KWB-11A	Apr-17		607	**1,310**	0.487	0.903 J	372	**1,540**	**4,960**	**33.9**	<0.00180	
	KWB-11A	Oct-17		406	**788**	0.474	0.566 J	379	**979**	**3,550**	1.95	<0.00180	
	KWB-11B	Apr-15		469	**275**	0.318	2.12	93.0	**1,760**	**2,630**	2.80	<0.00180 J	
	KWB-11B	Oct-15		410	247	0.467	2.07	80.6	**1,340**	**2,350**	2.17	<0.00180	
	KWB-11B	Apr-16		438	218	0.441	2.11 JO1	81.3 V	**1,200**	**2,160**	2.43	<0.00120	
	KWB-11B	Oct-16		408	239	0.479	2.00	81.0	**1,290**	**2,410**	2.17	<0.00180	
	KWB-11B	Apr-17		479	**291**	0.369	2.37	89.5	**1,660**	**2,710**	3.48	<0.00180	
	KWB-11B	Oct-17		476	230	0.280	2.13	87.5	**1,300**	**2,590**	3.54	<0.00180	
	KWB-12A	Apr-15		528	**668**	**18.5**	0.723 J	128	**2,380**	**3,660**	4.31	<0.00180	
	KWB-12A	Apr-15	FD	493	133	0.605	0.630 J	123	**2,110**	**3,630**	4.34	<0.00180	
	KWB-12A	Oct-15		560	138	0.618	0.963 J	155	**2,730**	**3,490**	4.55	<0.00180	
	KWB-12A	Apr-16		579	**539**	0.879	0.811 J	155	**2,360**	**3,670**	6.18	<0.00180	
	KWB-12A	Oct-16		549	163	0.757	1.15	161	**2,400**	**3,930**	7.34	<0.00180	
	KWB-12A	Apr-17		541	136	0.446	0.786 J	131	**2,280**	**4,260**	7.12	<0.00180	
	KWB-12A	Oct-17		511	133	0.512	0.999 J	127	**2,230**	**3,640**	8.21	<0.00180	
	KWB-12B	Apr-15		549	**689**	**20.2**	0.523 J	130	**2,520**	**3,730**	3.80	<0.00180	
	KWB-12B	Oct-15		537	124	0.398	0.537 J	131	**2,580**	**3,320**	4.77	<0.00180	
	KWB-12B	Oct-15	FD	538	123	0.430	0.569 J	127	**2,450**	**3,270**	4.82	<0.00180	
	KWB-12B	Apr-16		528	121	0.438	0.466 J	132	**2,520**	**3,600**	6.42	<0.00120	
	KWB-12B	Apr-16	FD	500	108	0.459	0.445 J	123	**1,930**	**3,930**	4.30	<0.00120	
	KWB-12B	Oct-16		497	129	0.500	0.565 J	128	**2,210**	**3,620**	5.44	<0.00180	
	KWB-12B	Oct-16	FD	505	116	0.474	0.584 J	129	**2,190**	**3,740**	5.56	<0.00180	
	KWB-12B	Apr-17		554	144	0.419	0.641 J	135	**2,410**	**3,880**	6.87	<0.00180	
	KWB-12B	Apr-17	FD	556	146	0.310	0.720 J	149	**2,980**	**3,520**	7.57	<0.00180	
	KWB-12B	Oct-17		542	136	0.353	0.603 J	139	**2,370**	**3,730**	7.26	<0.00180	
	KWB-12B	Oct-17	FD	526	115	0.332	0.584 J	134	**2,310**	**3,910**	6.71	<0.00180	
	KWB-P4	Apr-13											
	KWB-P4	Apr-15											
	KWB-P4	Apr-17											
	MW-57	Apr-15		641	**1,430**	**22.3**	1.57	460	**2,890**	**6,010**	**16.2**		
	MW-57	Oct-15		487	**541**	**1.69**	1.16	342	**2,050**	**3,330**	**12.9**		
	MW-57	Apr-16		593	**386**	**2.02**	1.59 J	368	**2,350**	**3,660**	**11.0**		
	MW-57	Oct-16		538	210	**2.99**	2.00	387	**2,710**	**4,730**	**33.3**		
	MW-57	Apr-17		538	**336**	**2.38**	1.62	342	**2,630**	**4,530**	**13.8**		
	MW-57	Oct-17		570	179	**2.39**	1.81	402	**3,110**	**5,100**	**33.3**		
	MW-58	Apr-15		200	149	1.15	0.317 J	58.8	9.63	**1,150**	<0.200	<0.00180	
	MW-58	Oct-15		234	239	1.35	0.459 J	71.5	4.80 J	**1,240**	<0.197	<0.00180	
	MW-58	Apr-16		262	**278** J	1.24	0.421 J	123	134	**1,510**	0.518 J	<0.00120	
	MW-58	Oct-16		210	174	1.57	0.392 J	94.2	3.77 J	**1,140**	0.0620 JB	<0.00180	
	MW-58	Apr-17		229	**280**	1.40	0.370 J	123	106	**1,550**	0.0380 J	<0.00180	
	MW-58	Oct-17		235	249	1.26	0.553 J	116	13.1	**1,340**	<0.0197	<0.00180	
	MW-111	Apr-15		270	**427**	1.01	0.521 J	172	294	**1,600**	<0.0200		
	MW-111	Oct-15		227	**408**	1.51	0.415 J	222	473 J	**1,530**	0.0220 J		
	MW-111	Apr-16		248	**402**	1.33	<0.185	229	355	**2,130**	0.0640 J		
	MW-111	Oct-16		224	**426**	1.39	0.222 JB	192	390	**1,820**	0.0880 JB		
	MW-111	Apr-17		232	**456** J3	1.28	0.203 J	211	366 P1	**2,250**	0.266 J		
	MW-111	Oct-17		217	**392**	1.31	0.102 J	234	317	**1,880**	<0.0197		
	MW-113	Apr-15		285	194	0.606	0.526 J	151	**957**	**2,030**	<0.0200		
	MW-113	Apr-15	FD	259	191	0.607	0.622 J	132	**877**	**1,980**	<0.0200		
	MW-113	Oct-15		287	197	0.503	0.528 J	153	**1,000**	**2,020**	0.243 J		
	MW-113	Oct-15	FD	288	197	0.493	0.529 J	156	**998**	**2,140**	<0.197		
	MW-113	Apr-16		314	199	0.294 J3	0.611 J	154	**1,090**	**2,370**	0.393 J		
	MW-113	Apr-16	FD	327	207	0.389	0.612 J	167	**1,080**	**2,400**	0.0480 J		
	MW-113	Oct-16		298 V	182	0.488	0.429 J	156	**925**	**2,150**	0.0470 JB		
	MW-113	Oct-16	FD	299	195	0.594	0.408 J	160	**945**	**2,240**	0.0510 JB		
	MW-113	Apr-17		304	193	0.459	0.525 J	158	**1,070**	**2,140**	<0.197		
	MW-113	Apr-17	FD	296	208	0.525	0.514 J	151	**940**	**2,420**	<0.197		
	MW-113	Oct-17		294	148	0.331	0.405 J	150	**848**	**2,430**	0.442		
	MW-113	Oct-17	FD	301	184	0.510	0.414 J	151	**1,040**	**2,240**	<0.0197		
	MW-125	Apr-15		523 J	**329**	1.17	1.21	217	**2,680**	**4,700**	0.295		
	MW-125	Oct-15		524	**316**	1.22	1.31	224	**2,750**	**4,200**	0.348 J		
	MW-125	Apr-16		577	**342**	1.18	1.39 J	245	**2,900**	**4,440**	0.537 J		
	MW-125	Oct-16		530	**294**	1.25	1.33	220	**2,660**	**4,370**	0.247 B		
	MW-125	Apr-17		495	**310**	1.33	1.27	218	**2,810**	**4,600**	0.751 J		
	MW-125	Oct-17		573	**313**	1.39	1.78	236	**3,000**	**5,200**	0.216		
	MW-126A	Apr-15		355	**898**	0.833	0.602 J	189	**1,530**	**2,900**	<0.200		
	MW-126A	Oct-15		281	200	1.03	0.511 J	178	**1,300**	**2,500**	<0.197		
	MW-126A	Apr-16		342	245	1.02	0.465 J	124	**1,270**	**2,360**	0.258 J		
	MW-126A	Oct-16		192	78.9	1.28	0.379 J	132	**875**	**1,860**	0.139 B		
	MW-126A	Apr-17		369	**271**	0.804	0.584 J	193	**1,780**	**2,850**	0.509 J		
	MW-126A	Oct-17		294	150	0.957	0.418 J	146	**1,300**	**2,410**	<0.0197		
	MW-126B	Apr-15		548	**319**	0.658	2.10 J	196	**2,550**	**3,660**	0.684 J		
	MW-126B	Oct-15		531	**295**	0.850	2.18	201	**2,330**	**4,060**	0.438 J		
	MW-126B	Apr-16		574	**314**	0.837	2.54 J	214	**2,700**	**3,590**	0.737 JB		
	MW-126B	Oct-16		542	**286**	0.862	2.19	220	**2,210**	**3,650**	0.295 B		
	MW-126B	Apr-17		524	**308**	0.649	2.27	206	**2,550**	**3,890**	0.342 J		
	MW-126B	Oct-17		524	**290**	0.729	2.17	197	**2,410**	**3,740**	0.419		
	MW-127	Apr-15		238	209	0.902	0.579 J	147	511	**1,750**	<0.200		
	MW-127	Oct-15		234	243	1.06	0.256 J	143	**642**	**1,900**	<0.197		
	MW-127	Apr-16		244	245	1.10	0.335 J	153	552	**1,910**	<0.197		
	MW-127	Oct-16		248	237	1.14	0.282 J	146	**713**	**3,840**	0.0490 JB		
	MW-127	Apr-17		242	**251**	0.949	0.264 J	146	**799**	**2,140**	<0.197		
	MW-127	Oct-17		262	231	0.993	1.46	142	**776**	**1,970**	0.146		
	MW-128	Apr-15		214 J	**307**	1.22	0.414 J	104	290	**1,490**	<0.0200		
	MW-128	Oct-15		202	**282**	1.22	0.341 J	105	280	**1,560**	<0.197		
	MW-128	Apr-16		1010	**266**	1.22	1.92 J	560	286	**1,580**	1.28		
	MW-128	Oct-16		203	249	1.28	0.586 J	108	280	**1,470**	0.0460 JB		
	MW-128	Apr-17		182	**264**	1.27	0.536 J	106	273	**1,580**	0.0340 J		
	MW-128	Oct-17		186	200	1.29	0.354 J	107	248	**1,370**	<0.0197		

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

2017 Annual Groundwater Monitoring Report

HollyFrontier Navajo Refining LLC, Artesia Refinery, Artesia, New Mexico

				Analyte Group:	Water Quality Parameters								Cyanide
				Analyte:	Calcium	Chloride	Fluoride	Potassium	Sodium	Sulfate	TDS	Nitrate/Nitrite	Cyanide
				Units:	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
				CGWSL:	---	250	1.60	---	---	600	1,000	10.0	0.200
				CGWSL Source:		WQCC Dom	WQCC HH			WQCC Dom	WQCC Dom	USEPA MCL	USEPA MCL
Area	**Well ID**	**Date**	**Dup**										
Field East of Refinery	MW-129	Apr-15		192	**302**	0.900	0.530 J	195	69.4	**1,330**	<0.200	
	MW-129	Oct-15		169	**313**	1.08	0.315 J	194	57.8	**1,280**	<0.197	
	MW-129	Apr-16		170	**300**	1.10	0.331 J	210	44.1	**1,520**	<0.197	
	MW-129	Oct-16		162	**293**	1.13	0.270 J	198	44.1	**1,340**	0.0770 JB	
	MW-129	Apr-17		163	**300**	1.02	0.334 J	199	44.1	**1,250**	<0.197 J5	
	MW-130	Apr-15		81.8 J	**259**	0.952	6.71	125	**1,080**	**3,710**	0.471	
	MW-130	Oct-15		261	237	0.829	0.688 J	293	**1,200**	**2,380**	0.495 J	
	MW-130	Apr-16		281	**293**	0.907	0.870 J	324	**1,030**	**2,570**	3.82 J6	
	MW-130	Oct-16		260	**253**	0.914	0.695 J	285	**1,110**	**2,600**	0.631	
	MW-130	Apr-17		263 V	**266**	0.778	0.676 J	290 V	**1,020**	**2,510**	3.26	
	MW-130	Oct-17		252	218	0.533	0.625 J	281	**880**	**2,520**	2.75	
	MW-131	Apr-15		168	**271**	0.683	0.328 J	157	9.57	**1,980**	<0.0200	
	MW-131	Oct-15		197	**295**	0.787	0.622 J	161	16.1	**1,180**	0.0380 J	
	MW-131	Apr-16		158	**288**	0.774	0.238 J	167	9.49	**1,250**	<0.197	
	MW-131	Oct-16		158	**291**	0.868	0.250 J	158	9.61	**1,270**	0.0530 JB	
	MW-131	Apr-17		151	**285**	0.773	0.275 J	153	10.3	**1,230**	<0.197	
	MW-131	Oct-17		149	**284**	0.807	0.200 J	149	15.5	**1,290**	<0.0197	
	MW-133	Nov-14		200	170	1.10	0.460 J	140 V	140	**1,300**	<0.0200	
	MW-133	Apr-15		163	174	1.19	0.323 J	122	116	**1,190**	<0.200	
	MW-134	Apr-15		840	**767**	1.24	2.21 J	454	**3,470**	**5,520**	8.15	
	MW-134	Apr-15	FD	710	**752**	1.35	1.46	307	**3,380**	**6,400**	8.04	
	MW-134	Oct-15		532	**521**	1.31	1.60	302	**2,980**	**5,040**	3.33	
	MW-134	Oct-15	FD	529	**516**	1.32	1.58	301	**3,030**	**4,690**	2.98	
	MW-134	Apr-16		576 V	**498**	1.24	1.70 J	311 V	**2,800**	**4,560**	2.79	
	MW-134	Apr-16	FD	565	**497**	1.24	1.69 J	303	**2,780**	**4,910**	2.73	
	MW-134	Oct-16		518	**460**	1.23	1.60	288	**2,980**	**5,020**	2.10	
	MW-134	Oct-16	FD	512	**473**	1.18	1.58	286	**2,910**	**4,860**	2.28	
	MW-134	Apr-17		528	**499**	0.944	1.56	247	**2,880**	**4,140**	3.37	
	MW-134	Apr-17	FD	527	**470**	0.902	1.61	269	**3,170**	**4,120**	4.03	
	MW-134	Oct-17		502	**373**	0.730	1.50	246	**2,620**	**4,480**	3.80	
	MW-134	Oct-17	FD	525	**425**	1.02	1.58	249	**2,700**	**4,960**	3.59	
	MW-135	Apr-15		848	**1,100**	0.764	1.42 J	552	**2,170**	**5,040**	**67.8**	
	MW-135	Oct-15		677	**1,380**	1.17	1.32	544	**2,460**	**5,800**	**76.9**	
	MW-135	Apr-16		2780	**1,010**	0.993	5.74	2640	**2,470**	**5,320**	**34.7**	
	MW-135	Oct-16		590	**1,310**	1.18	0.993 J	624	**2,500**	**5,980**	**58.9**	
	MW-135	Apr-17		608	**1,200**	1.23	0.979 J	626	**2,900**	**5,050**	**63.3**	
	MW-135	Oct-17		569	**1,100**	0.644	0.923 J	633	**2,810**	**5,650**	**54.5**	
	RA-4196	Apr-15		391	144	0.410	2.07	93.4	**1,400**	**2,170**	<0.0200	
	RA-4196	Oct-15		417	145	0.324	2.26	104	**1,470**	**2,290**	0.269 J	
	RA-4196	Apr-16		422	122	0.344	2.36 J	103	**1,150**	**2,800**	0.0700 J	
	RA-4196	Oct-16		382	151	0.299	2.11	103	**1,310**	**2,410**	0.0490 JBJ6	
	RA-4196	Apr-17		378	142	0.309	2.19	91.1	**1,250**	**2,220**	<0.197	
	RA-4196	Oct-17		376	109	0.242	2.10	99.4	**1,100**	**2,360**	<0.0197	
	RA-4798	Apr-15		465	183	0.415	2.21	128	**1,740**	**2,740**	0.936	
	RA-4798	Oct-15		396	142	0.335	2.12	105	**1,520**	**2,230**	1.53	
	RA-4798	Apr-16		449	142	0.347	2.40 J	117	**1,290**	**2,290**	1.28	
	RA-4798	Oct-16		437	174	0.359	2.27	129	**1,560**	**2,880**	0.930	
	RA-4798	Apr-17		305	95.1	0.359	2.03	64.6	**1,010**	**1,820**	1.55	
	RA-4798	Oct-17		378	127	0.215	2.06	99.5	**1,300**	**2,220**	1.82	
	RW-12R	Apr-16		448	174	0.334	0.437 J	181	**1,610**	**3,130**	0.326 J	
	RW-12R	Apr-17		392	189	0.623	0.293 J	152	**1,740**	**2,420** J3	<0.197	
	RW-13R	Apr-16		202	222	0.691	0.346 J	167	341	**1,190**	0.0460 J	
	RW-18	Apr-14		545	**347**	**1.78**	0.984	218	**2,860**	**5,600**	3.33	
	RW-18	Apr-15		482	232	**2.46**	1.30	230	**3,670**	**4,440**	6.55	
	RW-18	Apr-16		542	193	**2.85**	1.13 J	186	**3,800**	**4,640**	2.79	<0.00120
	RW-18	Apr-17		504	176	**2.51**	1.09	141	**2,870**	**4,400**	1.90	
	RW-20	Apr-15		228	**256**	0.530	<0.180	228	125	**1,430**	<0.200	
	RW-22	Apr-15		184	**402**	0.860	0.319 J	274	78.4	**1,680**	<0.200	
North Refinery	MW-23	Apr-15		222	**864**	**1.63**	0.562 J	577	509	**3,030**	0.0259 J	
	MW-23	Oct-15		114	**480**	**1.72**	1.92	463	29.9	**2,190**	2.70 J	
	MW-23	Apr-16		110	**500**	**1.81**	2.14 J	561	1.84 J	**1,990**	<0.197	
	MW-23	Oct-16		259	**445**	1.58	2.16	430	0.536 J	**2,140**	<0.197	
	MW-23	Apr-17		102	**517**	**1.74**	1.59	446	5.27	**2,040**	<0.197	
	MW-23	Oct-17		106	**438**	**1.64**	1.70	460	6.35	**1,800**	<0.197	
	MW-29	Apr-15		427	**283**	0.795	1.52	207	**2,100**	1,000	<0.0200	
	MW-29	Oct-15		397	115	0.722	0.823 J	167	**2,080**	**3,330**	<0.197	
	MW-29	Apr-16		465	134	1.04	1.29 J	210	**2,620**	**3,830**	0.105 J6	
	MW-29	Oct-16		398	**282**	0.919	0.964 J	227	**1,660**	**3,210**	0.502 J	
	MW-29	Apr-17		412 V	**268**	0.642	0.745 J	178 V	**1,790**	**3,670**	<0.197	
	MW-29	Oct-17		407	**278**	0.949	1.14	261	**1,600**	**3,370**	<0.0985	
	MW-39	Apr-15		509	190	**3.09**	3.62 J	179	**1,380**	**2,640**	<0.200	
	MW-39	Oct-15		432	152	**2.48**	3.14	133	**1,660**	**2,960**	0.300 J	
	MW-39	Apr-16		113	**305**	**2.68**	0.459 J	1290	**951**	**4,010**	0.530 J	
	MW-39	Oct-16		189	**334**	**2.35**	0.546 J	1510	**2,360**	**5,950**	<0.197	
	MW-39	Apr-17		84.0	**271**	**2.60**	0.347 J	1260	**957**	**3,890**	<0.197	
	MW-39	Oct-17		73.3	148	**3.06**	0.303 J	989	**953**	**3,040**	<0.0197	
	MW-40	Apr-14		386	179	1.28	1.56	124	**1,340**	**2,700**	<0.150	
	MW-40	Apr-15		571	**298**	**1.66**	1.89 J	134	**1,380**	**2,640**	<0.200	
	MW-40	Apr-16		504	146	**1.70**	1.76 J	127	**1,680**	**2,670**	<0.197	
	MW-40	Apr-17		474	156	**1.76**	1.62	110	**1,550**	**3,190**	<0.197	
	MW-41	Apr-14		242	**275**	0.747	0.444	387	**1,450**	**3,760**	<0.150	
	MW-41	Apr-15		313	**290**	1.07	0.648 J	501	**1,410**	**2,710**	<0.0200	
	MW-41	Apr-16		258	**312**	1.04	0.393 J	453	**1,180**	**2,530**	<0.197	
	MW-41	Apr-17		224	**328**	0.936	0.415 J	379	**1,200**	**2,890**	<0.197	
	MW-42	Apr-14		248	**914**	0.545	0.560	508	**954**	**3,440**	<0.150	
	MW-42	Apr-15		309	**562**	0.962	0.579 J	611	**1,110**	**3,440**	<0.0200	
	MW-42	Apr-16		295	**457**	0.867	0.617 J	601	**1,090**	**3,010**	<0.197	
	MW-42	Apr-17		222	**406**	0.831	0.421 J	462	**1,100**	**3,410**	0.416 JP1	
	MW-43	Apr-15		186	**726**	0.709	<0.180	511	122	**2,290**	<0.0200	<0.00180
	MW-43	Oct-15		241	**984**	**2.19**	1.26	658	**677**	**4,160**	<0.197 J	0.0810
	MW-43	Apr-16		178	**1,010**	**2.27**	0.956 J	812	**747**	**4,820**	0.270 J	<0.00120
	MW-43	Oct-16		212	**855**	**2.00**	1.23	664	**619**	**4,470**	<0.197	<0.0180
	MW-43	Apr-17		180	**687**	**2.10**	0.905 J	559	450 J	**3,530**	<0.197	0.0802
	MW-43	Oct-17		184	**756**	**2.17**	1.01	585	472	**3,200**	<0.394	<0.00180
	MW-59	Apr-14		514	176	0.475	0.643	156	**1,890**	**3,420**	<0.150	
	MW-59	Apr-15		489 J	178	1.23	0.489 J	139	**1,760**	**3,300**	0.0241 J	
	MW-59	Apr-16		2370	126	1.28	2.61 J	711	**1,790**	**3,300**	0.374 J	
	MW-59	Apr-17		467	184	1.13	0.519 J	134	**1,870**	**3,160**	<0.197	
	MW-60	Apr-15		411 J	198	0.968	0.558 J	190	**1,810**	**3,530**	<0.200	<0.00180
	MW-60	Apr-15	FD	403 J	241	1.07	0.541 J	186	**1,910**	**3,710**	<0.200	<0.00180
	MW-60	Oct-15		395	209	0.964	0.565 J	185	**1,910**	**3,560**	<0.197	<0.00180
	MW-60	Oct-15	FD	416	210	0.996	0.569 J	191 J	**1,990**	**3,660**	0.276 J	<0.00180
	MW-60	Apr-16		446	212	0.568	0.624 J	227	**2,090**	**3,980**	0.0410 J	<0.00120
	MW-60	Apr-16	FD	447	190	1.00	0.588 J	226	**2,140**	**3,200**	0.0650 JJ6	<0.00120

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

2017 Annual Groundwater Monitoring Report

HollyFrontier Navajo Refining LLC, Artesia Refinery, Artesia, New Mexico

				Analyte Group:	Water Quality Parameters								Cyanide
				Analyte:	Calcium	Chloride	Fluoride	Potassium	Sodium	Sulfate	TDS	Nitrate/Nitrite	Cyanide
				Units:	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
				CGWSL:	---	250	1.60	---	---	600	1,000	10.0	0.200
				CGWSL Source:		WQCC Dom	WQCC HH			WQCC Dom	WQCC Dom	USEPA MCL	USEPA MCL
Area	**Well ID**	**Date**	**Dup**										
North Refinery	MW-60	Oct-16		408	163	1.04	0.540 J	151	**2,020**	**3,610**	0.0710 JB	<0.00180
	MW-60	Oct-16	FD	410	162	1.05	0.509 J	149	**2,050**	**3,280**	0.0660 JBJ6	<0.00180
	MW-60	Apr-17		410	201	0.835	0.606 J	196	**2,060**	**3,470**	<0.197	<0.0900
	MW-60	Apr-17	FD	409	206	0.960	0.597 J	198	**1,850**	**3,650**	<0.197	<0.0900
	MW-60	Oct-17		422	222	1.07	0.717 J	233	**2,040**	**3,720**	<0.394	<0.00180
	MW-60	Oct-17	FD	412	212	0.885	0.707 J	230	**2,000**	**3,990**	<0.197	0.00553
	MW-61	Apr-15		457	**287**	1.30	1.10 J	349	**1,280**	**2,910**	<0.200	
	MW-61	Oct-15		375	179	**2.61**	2.28	286	**2,080**	**2,520**	<0.197	
	MW-61	Apr-16		439	240	**2.65**	2.82 J	278	**2,120**	**2,680**	0.552 J	
	MW-61	Oct-16		409	115	**3.14**	3.89	226	**1,400**	**2,430**	<0.197	
	MW-61	Apr-17		322	225	**2.08**	1.85	248	**1,100**	**2,600**	<0.197	
	MW-61	Oct-17		330	**303**	**1.93**	2.61	291	**933**	**3,110**	<0.394	
	MW-62	Apr-15		126	**485**	1.52	1.72	478	21.0	**1,930**	<0.0200	
	MW-62	Oct-15		425	**273**	**1.93**	1.31	399	**1,900**	**4,050**	<0.197	
	MW-62	Apr-16		481	**276**	**1.92**	1.42 J	456	**1,850**	**3,830**	0.322 J	
	MW-62	Oct-16		371	243	**1.79**	1.15	359	**1,390**	**3,460**	<0.197	
	MW-62	Apr-17		358	**275**	**1.78**	1.20	358	**1,180**	**3,210**	<0.197	
	MW-62	Oct-17		341	**265**	**2.23**	1.92	349	**1,030**	**2,480**	<0.394	
	MW-67	Apr-15		194	208	0.698	0.531 J	160	329	**1,510**	<0.200	<0.00180
	MW-67	Oct-15		192	225	0.589	0.533 J	177	311	**1,450**	<0.197	<0.00180
	MW-67	Apr-16		202	**312**	0.548	0.427 J	218	281	**1,790**	<0.197	0.0440 J
	MW-67	Oct-16		205	**310**	0.620	0.574 J	211	303	**1,880**	<0.0197 J6	<0.0180
	MW-67	Apr-17		199	**393**	0.570	0.565 J	229	275	**2,010**	<0.197	<0.0900
	MW-67	Oct-17		207	**305**	0.568	0.500 J	200	388	**1,740**	<0.0985	<0.00180
	MW-90	Apr-15		302	104	**2.73**	1.63	286	**2,230**	**3,800**	<0.200	
	MW-90	Oct-15		481	22.7	**6.77**	2.07	135	**4,530**	**5,130**	3.44	
	MW-90	Apr-16		411	85.9	**6.25**	1.69 J	246	**3,250**	**5,180**	0.377 J	
	MW-90	Oct-16		534	74.7	**8.22**	1.84	142	**3,610**	**5,730**	**14.7**	
	MW-90	Apr-17		363	161	**3.41**	1.61	189	**2,740**	**3,880**	<0.197	
	MW-90	Oct-17		322	116	**2.74**	1.34	182	**1,930**	**3,340**	<0.0985	
	MW-91	Apr-15		355	32.8	1.40	0.523 J	30.8	**643**	**1,980**	<0.200	
	MW-91	Oct-15		361	35.7	1.34	0.686 J	35.0	**854**	**2,280**	<1.97	
	MW-91	Apr-16		379	37.1	1.37	0.464 J	36.6	**776**	**2,270**	0.320 J	
	MW-91	Oct-16		366	37.4	1.45	0.525 J	35.1	**862**	**2,260**	<0.0197	
	MW-91	Apr-17		362	74.8	1.18	0.463 J	33.8	**790**	**2,120**	<0.197	
	MW-91	Oct-17		389	115	0.897	0.620 J	39.2	**944**	**2,520**	<0.394	
	MW-92	Apr-16		130 O1	**415**	1.30	1.73 J	450 O1V	24.1	**2,310**	0.602 J	
	MW-92	Oct-16		134	**539**	**1.63**	2.02	454	14.6	**2,150**	<0.985	
	MW-93	Apr-15		579	221	**2.23**	2.58 J	126	**2,050**	**3,080**	<0.0200	
	MW-93	Oct-15		516	**251**	**2.37**	5.23	133	**3,070**	**3,080**	2.92 J	
	MW-93	Apr-16		677	206	**3.06**	1.76 J	164	**2,130**	**3,270**	<0.197	
	MW-93	Oct-16		553 V	200	**2.78**	3.45 O1	167 V	**1,630**	**3,260**	<0.197	
	MW-93	Apr-17		489	192	**2.38**	2.97	167	**1,430**	**2,930**	<0.197	
	MW-94	Oct-15		109	245	1.01	0.224 J	355	75.8	**2,530**	<0.197	
	MW-94	Apr-16		124	217	1.02	0.189 J	532	199	**2,980**	<0.197	
	MW-94	Oct-16		137	172	1.04	0.467 J	319	175	**2,530**	<0.0197	
	MW-94	Apr-17		95.6	196	0.874	0.331 J	427	85.7	**2,660**	<0.197	
	MW-95	Apr-14		177	226	0.560	0.494	143	160	**1,440**	<0.150	
	MW-95	Apr-15		178	**275**	1.02	0.655 J	177	359	**1,680**	<0.200	
	MW-95	Apr-16		191	**280**	0.805	0.518 J	180	326	**1,670**	<0.197	
	MW-95	Apr-17		203 V	**349**	0.868	0.730 J	194 V	420	**1,710**	<0.197	
	MW-96	Apr-15		208	**884**	1.19	1.03	224	**1,730**	**1,680**	0.211 J	
	MW-96	Oct-15		230	190	1.23	1.21	244	583	**1,990**	0.202 J	
	MW-96	Apr-16		187	159	1.18	1.10 J	234	255	**1,590**	0.313 J	
	MW-96	Oct-16		210	169	1.19	1.03	225	456	**1,990**	0.0230 J	
	MW-96	Apr-17		179	191	1.08	1.10	208	298	**1,600**	<0.197	
	MW-96	Oct-17		173	159	0.785	0.907 J	199	535	**1,680**	<0.0985	
	MW-98	Apr-15		497	41.6	1.29	<0.180	91.5	**2,010**	**3,040**	<0.0200	
	MW-98	Oct-15		427	55.7	1.53	0.134 J	74.9	**1,790**	**3,340**	<0.197	
	MW-98	Apr-16		539	74.2	1.43	<0.185	89.6	**1,690**	**3,040**	<0.197	
	MW-98	Oct-16		450	88.0	1.52	0.241 J	72.7	**1,610**	**3,370**	<0.197	
	MW-98	Apr-17		516	93.5	**1.68**	0.180 J	79.2	**1,850**	**3,200**	<0.197	
	MW-98	Oct-17		541	105	1.30	0.176 J	87.1	**1,890**	**3,520**	<0.394	
	MW-137	Oct-15		142	**390**	**1.97**	1.90	1320	**1,090**	**3,880**	<0.197	0.144
	MW-137	Apr-16		178	**343**	**1.87**	2.43 J	1740	**2,160**	**3,950**	<0.197	**0.348** J
	MW-137	Oct-16		142	**445**	1.32	1.23	960	**1,040**	**3,550**	<0.197	<0.0450
	MW-137	Apr-17		139	**478**	1.54	1.53	1120	**1,050**	**4,230**	<0.197	0.116
	MW-137	Oct-17		141	**548**	1.11	0.979 J	759	**683**	**2,910**	<0.394	<0.00180
	MW-138	Oct-15		139	**490**	1.08	1.75	410	154	**1,920**	<0.197	<0.00180
	MW-138	Apr-16		160	**571**	1.13	2.03 J	568	164	**2,180**	<0.197	0.0290 J
	MW-138	Oct-16		138	**527**	0.927	1.84	426	122	**2,380**	<0.197	<0.0450
	MW-138	Apr-17		121	**571**	1.14	1.81	424	72.3	**1,930**	<0.197	<0.00180
	MW-138	Oct-17		124	**453**	1.06	1.50	401	27.9	**2,100**	<0.0985	<0.00180
	RW-1	Apr-15		358	224	1.33	3.57	210	**1,330**	**2,410**	<0.200	
	RW-1R	Apr-16		505	180	1.38	6.39	203	**1,500**	**2,990**	0.422 J	
	RW-1R	Apr-17		558	246	1.41	7.37	268	**1,860**	**3,690**	<0.197	
	RW-2	Apr-15		726	**365**	**1.75**	5.55 J	383	**3,510**	**5,310**	<0.200	
	RW-2R	Apr-16		875	**430**	**2.09**	5.80	396	**2,200**	**3,810**	0.281 J	
	RW-2R	Apr-17		519	**251**	**2.35**	2.86	261	**1,200**	**3,030**	<0.197	
	RW-7	Apr-15		252	237	1.15	1.88 J	192	19.0	**1,500**	<0.200	
	RW-7R	Apr-16		262	186	0.651	0.651 J	110	**624**	878	<0.197	
	RW-7R	Apr-17		266	204	0.513	0.922 J	105	**693**	**1,740**	<0.197	
	RW-8	Apr-15		227	115	0.801	0.353 J	209	473	**1,600**	<0.200	
	RW-8	Apr-17		218	163	0.731	0.360 J	161	**665**	**1,820**	<0.197	
	RW-9	Apr-14		291	**318**	1.10	1.57	306	**1,260**	**3,380**	<0.150	
	RW-9	Apr-15		315	**313**	**1.68**	1.69	318	**1,310**	**3,150**	<0.200	
	RW-9	Apr-16		336	**313**	**1.69**	1.96 J	356	**1,440**	**3,370**	1.73	
	RW-9	Apr-17		355	**369**	**1.90**	2.26	326	**1,370**	**3,370**	<0.197	
	RW-10	Apr-14		324	231	**2.17**	5.84	227	**2,060**	**3,420**	<0.150	
	RW-10	Apr-15		494	187	**3.34**	9.04	172	**2,010**	**3,290**	0.639	
	RW-10	Apr-16		638	159	**4.28**	13.2	176	**2,040**	**3,330**	1.21	
	RW-10	Apr-17		457	88.0	**3.53**	3.24	110	**1,500**	**2,660**	<0.197	
	RW-16	Apr-14		531	**452**	**3.74**	0.799	430	**2,680**	**5,130**	<0.150	
	RW-16	Apr-14	FD	556	**429**	**3.89**	0.767	455	**2,550**	**5,150**	<0.150	
	RW-16	Apr-15		641	**534**	**4.61**	1.69 J	594	**3,220**	**5,430**	2.87	
	RW-16	Apr-16		604	**416**	**3.01**	1.15 J	502	**3,360**	**5,610**	2.45	
	RW-16	Apr-17		499	**291**	**4.90**	0.832 J	372	**2,740**	**5,030**	2.20	
	RW-17	Apr-14		585	**524**	**1.84**	3.88	405	**3,280**	**6,100**	<0.150	
	RW-17	Apr-15		683	**494**	**2.58**	9.10	631	**4,180**	**5,840**	**31.6**	
	RW-17	Apr-16		2840	**377**	**2.22**	28.7	1800	**3,400**	**5,880**	4.77	
	RW-17	Apr-17		568	**398**	**2.61**	4.02	306	**2,950**	**4,820**	3.33	

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

2017 Annual Groundwater Monitoring Report

HollyFrontier Navajo Refining LLC, Artesia Refinery, Artesia, New Mexico

				Analyte Group:	Water Quality Parameters								Cyanide
				Analyte:	Calcium	Chloride	Fluoride	Potassium	Sodium	Sulfate	TDS	Nitrate/Nitrite	Cyanide
				Units:	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
				CGWSL:	---	250	1.60	---	---	600	1,000	10.0	0.200
				CGWSL Source:		WQCC Dom	WQCC HH			WQCC Dom	WQCC Dom	USEPA MCL	USEPA MCL
Area	**Well ID**	**Date**	**Dup**										
North RO Reject Field	MW-117	Apr-15		613	87.2	**3.79**	5.97		102	**2,220**	**3,670**	0.372 J	
	MW-117	Oct-15		478	55.4	**3.40**	6.44		109	**1,690**	**2,980**	0.779 J	
	MW-117	Apr-16		554	94.4	**3.45**	5.82		112	**2,060**	**3,390**	0.349	
	MW-117	Oct-16		592	**272**	**3.57**	6.90		115	**2,240**	**3,590**	0.137 BJ6	
	MW-117	Apr-17		548	245	**3.33**	6.50		96.7	**2,090**	**3,640**	0.266 J	
	MW-117	Oct-17		559	216	**2.05**	5.82		105	<0.0774	**3,450**	0.196	
	MW-118	Apr-15		601	**767**	**4.14**	5.30		153	**2,510**	**3,960**	1.7	
	MW-118	Oct-15		583	86.6	**5.13**	5.64		162	**2,690**	**3,960**	0.622 J	
	MW-118	Apr-16		573	189	**5.86**	4.80 J		152	**2,480**	**3,950**	1.57	
	MW-118	Oct-16		559	131	**6.47**	5.92		164	**2,640**	**4,450**	6.71	
	MW-118	Apr-17		544	175	**5.98**	5.06		139	**2,630**	**3,830**	8.51	
	MW-118	Oct-17		550	192	**4.20**	5.72		118	**2,890**	**3,780**	6.27	
	MW-119	Apr-15		590	48.2	**1.99**	0.232 J		54.5	**2,040**	**3,030**	0.292 J	
	MW-119	Oct-15		624	152	**2.65**	0.985 J		86.3	**2,290**	**3,500**	0.437 J	
	MW-119	Apr-16		595	191	**2.50**	0.614 J		101	**1,900**	**3,330**	0.518 J	
	MW-119	Oct-16		619	**280**	**2.91**	0.991 J		132	**2,010**	**3,690**	0.189 B	
	MW-119	Apr-17		587	**290**	**2.86**	0.965 J		123	**2,420**	**3,650**	<0.197	
	MW-119	Oct-17		612	**268**	**2.77**	1.27		172	**2,240**	**3,750**	<0.0197	
NCL	MW-18	Apr-14		507	159	0.954	2.89		83.2	**1,830**	**3,700**	**35.2**	<0.00500
	MW-18	Apr-15		407	185	1.45	7.18		66.7	**1,600**	**3,110** J	**36.1**	<0.00180
	MW-18	Apr-16		504	178	1.39	3.69 J		107	**1,600**	**2,920**	**42.6**	0.00200 J
	MW-18	Apr-17		486	77.5	**3.44**	13.9		65.0	**1,970**	**3,420**	**51.0**	<0.00180
	MW-45	Apr-15		605	**1,260**	1.44	4.47		346	**2,580**	**5,300** J	<0.0200	<0.00180
	MW-45	Oct-15		610	**454**	1.37	5.02		376	**2,910**	**4,660**	0.0290 J	<0.00180
	MW-45	Apr-16		689	**524**	1.51	6.33		429	**2,710**	**4,760**	<0.197	<0.00180
	MW-45	Oct-16		640	**546**	1.48 J6	5.30		392	**2,810**	**4,730**	0.377 B	0.00953
	MW-45	Apr-17		625	**545**	1.27	5.69		394	**2,840**	**5,410**	0.0270 J	<0.00180
	MW-45	Oct-17		596	**544**	1.59	4.79		369	**2,650**	**5,740**	<0.0197	<0.00180
	MW-53	Apr-14		290	95.4	0.827	0.935		87.6	**1,190**	**2,060**	<0.150	
	MW-53	Apr-15		348	**1,010**	0.922	1.16		104	**1,290**	**2,810** J	**34.5**	
	MW-53	Apr-16		459	**346**	1.06	1.42 J		161	**1,340**	**2,890**	**25.3**	
	MW-53	Apr-17		340	222	0.904	1.12		130	**1,330**	**2,290**	**15.6**	
	MW-54A	Apr-15		318	192	1.10	0.276 J		62.9	**712**	**2,080** J	0.450	
	MW-54A	Oct-15		356	210	1.10	0.330 J		70.2	**796**	**2,140**	4.32 J	
	MW-54A	Apr-16		381	176	1.12	0.303 J		69.4	**625**	**1,780**	<0.197 J6	
	MW-54A	Oct-16		331	175	0.997	0.254 J		61.5	**670**	**1,770**	0.134 J6B	
	MW-54A	Apr-17		330	193	0.987	0.289 J		59.8	**797**	**1,800**	0.0860 J	
	MW-54A	Oct-17		359	204	1.34	0.271 J		67.2	**819**	**2,060**	0.691	
	MW-54B	Apr-13		345	176	<0.500	1.16		48.8	**747**	**2,050**	<1.00	
	MW-54B	Apr-15		307	166	0.613	0.767 J		48.0	**752**	**1,890** J	0.0276 J	
	MW-54B	Apr-17		317	127	0.617	1.18		54.5	**1,040**	**1,840**	0.100 J	
	MW-55	Apr-15		627	**266**	**1.88**	0.692 J		167	**2,940**	**4,910** J	**15.5**	<0.00180
	MW-55	Oct-15		411	216	**1.85**	0.756 J		166	**2,300**	**4,000**	5.57	<0.00180
	MW-55	Apr-16		472	**442**	1.04	0.829 J		253	**2,080**	**4,200**	2.26	<0.00120
	MW-55	Oct-16		465	219	**2.09**	0.732 J		174	**2,190**	**3,810**	3.65	<0.00180
	MW-55	Apr-17		378	**446**	1.44	0.745 J		206	**1,550**	**3,580**	3.14	<0.00180
	MW-55	Oct-17		444	**435**	**2.02**	0.675 J		228	**2,020**	**3,970**	3.45	<0.00180
	MW-56	Apr-15		485	**927**	1.11	1.90		272	**1,900**	**3,640** J	1.28	
	MW-56	Oct-15		514	**399**	1.12	2.05		342	**2,490**	**4,080**	4.34	
	MW-56	Apr-16		559 V	**403**	1.10	2.32 JO1		379 V	**1,970**	**3,790**	2.76	
	MW-56	Oct-16		446 V	**263**	1.19	1.97		317 V	**1,910**	**4,110**	0.151 B	
	MW-56	Apr-17		501 V	**453**	1.00	2.10		338 V	**2,070**	**4,100**	3.93	
	MW-108	Apr-15		289	78.8	**2.52**	1.50		76.8	**962**	**2,540** J	<0.390	
	MW-108	Oct-15		298	77.5	**2.30**	1.31		88.9	**1,090**	**2,530**	<0.197	
	MW-108	Apr-16		333	79.6	**2.04**	1.28 J		92.6	**981**	**2,120**	0.304 J	
	MW-108	Oct-16		343	112	**2.75**	3.88		116	**1,340**	**2,830**	0.0460 JB	
	MW-108	Apr-17		251	80.4	**1.90**	0.893 J		81.7	**717**	**1,980**	0.0310 JJ6	
	MW-108	Oct-17		339	92.9	**1.88**	4.67		135	**1,510**	**2,660**	<0.0985	
	NCL-31	Apr-15		266	89.5	1.25	0.220 J		100	**1,240**	**2,670** J	<0.200	
	NCL-31	Oct-15		392	129	1.20	0.418 J		125	**2,100**	**3,220**	<0.197	
	NCL-31	Apr-16		340	78.9	1.14	0.272 J		109	**1,420**	**3,020**	0.385 J	
	NCL-31	Oct-16		445	67.8	1.57	0.564 J		148	**2,400**	**3,820**	0.0840 JB	
	NCL-31	Apr-17		369	65.7	1.19	0.434 J		111	**1,890**	**3,150**	0.127	
	NCL-31	Oct-17		341	53.7	1.44	0.362 J		103	**2,020**	**3,000**	<0.0197	
	NCL-32	Apr-15		446	177	**1.92**	4.15 J		92.6	**1,050**	**2,250**	<0.200	
	NCL-32	Oct-15		540	**329**	1.57	4.98		97.0	**1,430**	**2,280**	<0.197	
	NCL-32	Apr-16		697	206	**2.05**	7.60		115	**1,340**	**2,740**	<0.197	
	NCL-32	Oct-16		390	128	1.48	3.26		102	**1,220**	**2,230**	1.77	
	NCL-32	Apr-17		387	155	1.54	3.19		102	**1,310**	**2,440**	4.90	
	NCL-32	Oct-17		398	117	1.31	2.94		109	**1,490**	**2,540**	6.14	
	NCL-33	Apr-15		431	**281**	**2.58**	4.31 J		111	**800**	**2,280**	<0.0200	
	NCL-33	Oct-15		419	**404**	**2.49**	4.86		119	**847**	**2,140**	<0.197	
	NCL-33	Apr-16		622	**280**	**2.82**	7.58		113	**1,370**	**3,200**	0.367 J	
	NCL-33	Oct-16		462	**400**	**2.65**	5.28		109	**900**	**2,790**	0.0750 JB	
	NCL-33	Apr-17		514	**412**	**2.62**	5.98		101	**1,220**	**2,750**	0.0320 J	
	NCL-33	Oct-17		509	**458**	**2.77**	6.09		114	**1,150**	**2,820**	<0.0197	
	NCL-34A	Apr-15		275	249	1.36	0.570 J		117	110	**1,490**	<0.200	
	NCL-34A	Oct-15		202	182	1.43	0.877 J		103	104 J	**1,250**	0.284 J	
	NCL-34A	Apr-16		347	**416**	1.31	2.20 J		140	82.2	**1,540**	0.265 J	
	NCL-34A	Oct-16		249	238	1.43	1.27		107	95.0	**1,370**	0.0470 JB	
	NCL-34A	Apr-17		270	**313**	1.27	1.36		108	76.1	**1,440**	0.0570 JJ6	
	NCL-34A	Oct-17		214	202	1.37	1.08		111	131	**1,400**	<0.0394	
	NCL-44	Apr-15		269	161	**1.78**	1.64 J		73.4	468	**2,510**	<0.200	
	NCL-44	Oct-15		276	182	**1.69**	2.07		71.4	**633**	**1,890**	<0.197	
	NCL-44	Apr-16		414	234	1.59	2.62 J		98.3	**965**	**2,120**	<0.197	
	NCL-44	Oct-16		373	222	**1.67**	2.29		94.9	**1,030**	**2,130**	0.0810 JB	
	NCL-44	Apr-17		360	198	**1.65**	2.31		99.7	**1,070**	**2,390**	0.0470 J	
	NCL-44	Oct-17		350	158	**1.69**	2.26		119	**1,260**	**2,480**	<0.0197	
	NCL-49	Apr-15		377	109	**1.64**	0.552 J		105	**1,400**	**2,840** J	4.53	
	NCL-49	Apr-15	FD	380	**395**	0.531	0.589 J		105	**1,650**	**2,850** J	4.50	
	NCL-49	Oct-15		406	112	0.593	0.607 J		115	**1,770**	**2,830**	5.79	
	NCL-49	Oct-15	FD	407	113	0.598	0.613 J		114	**1,800**	**2,860**	5.79	
	NCL-49	Apr-16		468	119	0.685	0.749 J		136	**1,570**	**2,820**	5.71	
	NCL-49	Apr-16	FD	470	119	0.685	0.792 J		137	**1,580**	**2,790**	5.63	
	NCL-49	Oct-16		425	128	0.600	0.590 J		120	**1,700**	**2,770**	6.08	
	NCL-49	Oct-16	FD	429	130	0.600	0.597 J		122	**1,670**	**3,290**	6.01	
	NCL-49	Apr-17		451	172	0.576	0.632 J		133	**2,010**	**3,070**	9.84	
	NCL-49	Apr-17	FD	452	159	0.575	0.633 J		133	**1,970**	**2,990**	9.78	
	NCL-49	Oct-17		481	173	0.698	0.594 J		132	**2,080**	**3,200**	8.41	
	NCL-49	Oct-17	FD	458	169	0.713	0.605 J		131	**2,050**	**3,140**	8.41	

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

2017 Annual Groundwater Monitoring Report

HollyFrontier Navajo Refining LLC, Artesia Refinery, Artesia, New Mexico

				Analyte Group:	Water Quality Parameters								Cyanide
				Analyte:	Calcium	Chloride	Fluoride	Potassium	Sodium	Sulfate	TDS	Nitrate/Nitrite	Cyanide
				Units:	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
				CGWSL:	---	250	1.60	---	---	600	1,000	10.0	0.200
				CGWSL Source:		WQCC Dom	WQCC HH			WQCC Dom	WQCC Dom	USEPA MCL	USEPA MCL
Area	**Well ID**	**Date**	**Dup**										
South Refinery	KWB-2R	Apr-15		233	**259**	0.879	0.777 J	267	**884**	**2,450**	<0.200	
	KWB-2R	Oct-15		168	228	1.21	1.23	296	418	**1,970**	<0.197	
	KWB-2R	Apr-16		322	207	0.485	0.456 J	325	**1,460**	**2,910**	0.0340 JJ6	
	KWB-2R	Oct-16		275	215	0.901	0.433 J	282	**1,150**	**2,850**	0.0740 JB	
	KWB-2R	Apr-17		280	**279**	0.904	0.460 J	286	**1,060**	**2,550**	0.0220 J	
	KWB-2R	Oct-17		139	240	1.09	1.33	283	259	**1,770**	<0.394	
	KWB-5	Apr-15		237	**518**	0.687	1.79	198	8.08	**1,500**	<0.0200	
	KWB-5	Oct-15		228	**575**	0.853	1.60	203	6.81	**1,540**	0.243 J	
	KWB-5	Apr-16		252	**5,800**	0.392	1.66 J	222	235 J	**1,760**	0.0400 J	
	KWB-5	Oct-16		228	**562**	0.910	1.34	220	6.46	**1,560**	0.0460 JBJ6	
	KWB-5	Apr-17		224	**575**	0.936	1.48	204	14.8	**1,580**	<0.197	
	KWB-5	Oct-17		220	**565**	0.877	1.41	208	21.9	**1,560**	0.0530 J	
	KWB-6	Apr-15		212	**305**	0.366	0.220 J	193	16.2	**1,460**	0.148	
	KWB-6	Oct-15		229	**265**	0.935	0.181 J	144	264	**1,410**	0.273 J	
	KWB-6	Apr-16		246	**313**	1.03	0.206 J	199	83.1	**1,410**	<0.197	
	KWB-6	Oct-16		232	**280**	0.977	0.219 JB	109	275	**1,590**	0.0770 JB	
	KWB-6	Apr-17		227	**260**	0.965	0.183 J	120	211	**1,630**	0.556 J	
	KWB-6	Oct-17		256	**290**	0.842	0.162 J	131	377	**1,890**	<0.394	
	MW-28	Apr-15		439 J	160	1.59	0.685 J	89.5	**1,080**	**2,760**	<0.390	0.0132
	MW-28	Oct-15		379	159	**1.67**	0.632 J	92.7	**1,060**	**3,000**	0.211 J	0.0108
	MW-28	Apr-16		1500	135	1.42	4.06 J	450	**672**	**3,040**	0.470 J	<0.00120
	MW-28	Oct-16		480	147	1.40	0.640 J	74.0	**1,320**	**1,900**	0.0460 JB	<0.0180
	MW-28	Apr-17		380	190	1.56	0.778 J	89.9	**1,170**	**2,420**	<0.197	<0.0900
	MW-28	Oct-17		376	146	1.51	1.37	90.3	**1,180**	**2,640**	<0.394	<0.00180
	MW-48	Apr-15		258 J	161	0.498	0.680 J	276	47.6	725	<0.200	
	MW-48	Oct-15		186	**391**	0.644	2.61	355	235	**1,940**	<0.197	
	MW-48	Apr-16		234	**1,110**	1.45	1.80 J	314	20.5	**2,950**	<0.197	
	MW-48	Oct-16		200	**580**	1.07	1.18	339	239	**2,270**	0.0300 JB	
	MW-48	Apr-17		190	**909**	1.47	1.13	255	18.2	**2,210**	0.202 J	
	MW-48	Oct-17		191	**820**	1.01	0.908 J	272	19.3	**2,280**	<0.0197	
	MW-50	Apr-15		450	**259**	0.966	2.18	178	**1,680**	**2,860**	<0.200	
	MW-50	Oct-15		403	226	0.899	2.29	175	**1,740**	**2,770**	2.61 J	
	MW-50	Apr-16		645	**491**	**3.96**	8.60	969	**4,280**	**4,580**	**150**	
	MW-50	Oct-16		546	**511**	**3.86** J6	12.4	912	**4,690**	**9,320**	0.594	
	MW-50	Apr-17		566	**463**	**2.21**	5.90	646	**3,710**	**6,840**	**155**	
	MW-50	Oct-17		572	**431**	**2.57**	5.57	620	**3,580**	**6,620**	**136**	
	MW-52	Apr-15		168 J	158	**1.88**	0.252 J	267	**832**	**3,740**	1.54	<0.00180
	MW-52	Oct-15		196	144	**1.76**	0.242 J	285	**998**	**2,040**	3.13	<0.00180
	MW-52	Apr-16		778	160	**1.79**	1.20 J	1350	**995**	**1,920**	1.73	<0.00120
	MW-52	Oct-16		194	144	**1.77**	0.262 J	278	**1,100**	**2,370**	1.04	0.00182 J
	MW-52	Apr-17		181	154	**1.65**	0.283 J	297	**1,060**	**2,260**	3.27	<0.00180
	MW-52	Oct-17		238	114	1.09	0.245 J	275	**1,270**	**2,550**	9.42	<0.00180
	MW-64	Apr-16		109	**379**	1.08	0.754 J	396	39.9	**1,510**	<0.197	
	MW-64	Oct-16		109	**356**	0.855	0.689 J	361	4.08 J	**1,650**	0.0790 JB	
	MW-64	Apr-17		99.7	**382**	1.03	0.774 J	367	3.93 J	**1,760**	0.0400 J	
	MW-64	Oct-17		96.6	**326**	0.984	0.656 J	351	7.90	**1,590**	<0.394	
	MW-65	Apr-15		147	**382**	1.21	0.783 J	257	<0.0770	**1,410**	0.0613 J	
	MW-65	Apr-16		155 V	**394**	1.28	0.691 J	311 V	0.323 J	**1,750**	0.0490 JJ6	
	MW-65	Oct-16		157	**356**	1.48	1.46	287	0.431 J	**1,380**	0.219 B	
	MW-65	Apr-17		134	**354**	1.38	1.01	279	0.822 J	**1,430**	0.0330 J	
	MW-65	Oct-17		132	**314**	1.44	1.03	267	0.470 J	**1,320**	<0.0197	
	MW-66	Apr-15		120	141	1.53	0.858 J	134	0.596 J	948	0.0292 J	<0.00180
	MW-66	Oct-15		134	201	1.34	0.742 J	163	0.110 J	**1,090**	<0.197	0.00180 J
	MW-66	Apr-16		600	134	1.36	4.83 J	740	0.591 J	942	0.363 J	<0.00120
	MW-66	Oct-16		131	174	1.42	0.770 J	155	0.327 J	**1,020**	0.0480 JB	<0.00180
	MW-66	Apr-17		115	184	1.55	0.830 J	143	0.360 J	976	0.0370 JP1	<0.00180
	MW-66	Oct-17		139	179	1.42	1.14	159	1.69 J	**1,080**	<0.0197	<0.00180
	MW-99	Apr-15		48.7	33.4	0.328	5.30	23.9	41.3	267	0.789	
	MW-99	Oct-15		176	249	0.706	0.955 J	215	127	**1,390**	<0.197	
	MW-99	Apr-16		805	208	0.866	6.37	1100	153	**1,410**	0.0330 JJ6	
	MW-99	Oct-16		137	192	0.656	3.60	168	39.0	**1,200**	0.0350 JB	
	MW-99	Apr-17		161	**284**	0.758	0.819 J	205	169	**1,370**	<0.197	
	MW-99	Oct-17		173	**256**	0.748	0.624 J	215	142	**1,430**	<0.394	
	MW-101	Apr-15		188	201	0.708	0.485 J	141	188	**1,340**	<0.200	
	MW-101	Oct-15		188	236	0.993	0.483 J	138	206	**1,470**	0.230 J	
	MW-101	Apr-16		220	239	0.940	0.522 J	169	168	**1,270**	0.197 J	
	MW-101	Oct-16		183	229	1.00	0.509 J	112	191	**1,400**	0.127 B	
	MW-101	Apr-17		197	234	0.926	0.587 J	139	160	**1,390**	<0.197	
	MW-101	Oct-17		197	229	0.998	0.853 J	142	171	**1,360**	<0.0197	
	MW-102	Apr-15		94.4	175	0.825	0.419 J	357	1.75 J	**1,470**	0.0642 J	
	MW-102	Oct-15		193	219	1.13	0.683 J	385	296	**1,750**	<0.197	
	MW-102	Apr-16		127	245	0.901	0.372 J	437	2.35 J	**1,530**	0.339 J	
	MW-102	Oct-16		176	**271**	1.28	0.772 J	418	217	**1,740**	0.0620 JBJ6	
	MW-102	Apr-17		120	**258**	1.09	0.504 J	379	11.3	**1,550**	<0.197	
	MW-102	Oct-17		124	**259**	1.16	0.507 J	373	7.70	**1,730**	<0.394	
	MW-103	Apr-14		24.5	**1,040**	**7.45**	0.831	1420	<10.0 B	**3,820**	<0.150	
	MW-103	Apr-15		192	**7,890**	**3.44**	2.46 J	6710	19.6	**12,500**	<0.0200	
	MW-103	Apr-16		193	**13,700**	**5.44**	3.73 J	7960	2.24 J	**21,100**	0.430 J	
	MW-103	Apr-17		306	**12,000**	1.39	3.12 J	10000	48.0	**22,300**	0.0530 J	
	MW-104	Apr-15		208	31.4	**1.67**	4.73	42.7	**856**	**1,070**	<0.0200	
	MW-104	Apr-15	FD	207	31.0	**2.12**	4.63	42.3	**679**	**1,130**	0.185	
	MW-104	Oct-15		169	21.0	**2.01**	4.92	38.6	510	912	<0.197	
	MW-104	Oct-15	FD	170	21.6	**2.07**	4.86	40.3	473	925	<0.197	
	MW-104	Apr-16		179 V	25.9	**2.49**	4.96 JJ5O1	43.6 V	408	819	0.455 JB	
	MW-104	Apr-16	FD	178	25.6	**2.51**	5.16	44.7	439	809	0.286 JB	
	MW-104	Oct-16		165	72.9	**1.94**	4.77	38.4	322	975	0.0640 JB	
	MW-104	Oct-16	FD	164	73.4	**1.90**	4.78	37.9	323	928	0.0820 JB	
	MW-104	Apr-17		203	209	**1.94**	5.56	50.9	217	986	0.0450 JJ6	
	MW-104	Apr-17	FD	197	230	**1.77**	5.20 O1	48.7 O1V	219	**1,010**	<0.197	
	MW-104	Oct-17		213	178	1.58	5.84	60.5	258	**1,070**	<0.394	
	MW-104	Oct-17	FD	213	201	1.19	5.73	59.2	281	**1,140**	<0.0985	
	MW-105	Apr-15		111	25.3	0.700 J	4.26	17.2	263	530	<0.200	
	MW-105	Oct-15		148	13.4	0.330	4.41	12.0	297	664	0.221 J	
	MW-105	Apr-16		257	42.0	1.48	4.55 J	52.6	278	**1,300**	0.414 J	
	MW-105	Oct-16		227	12.7	**2.06**	4.97	20.7	20.6	**1,050**	0.105 B	
	MW-105	Apr-17		212	48.2	1.60	4.45	38.3	9.54	982	<0.197	
	MW-105	Oct-17		245	101	**1.62**	6.49	89.2	132	**1,370**	<0.394	
	MW-106	Apr-15		197	**280**	**6.81**	10.4	162	559	**1,400**	**22.3**	
	MW-106	Oct-15		373	148	**1.76**	2.43	221	**1,790**	**3,420**	<0.197	
	MW-106	Apr-16		422	185	1.51	4.40 J	271	**1,380**	**3,120**	<0.197	
	MW-106	Oct-16		347	216	1.30	1.37	240	**1,410**	**3,080**	0.0530 JB	
	MW-106	Apr-17		313	**302**	1.28	2.44	236	**1,020**	**2,630**	<0.197	
	MW-106	Oct-17		313	217	0.930	1.78	265	**1,210**	**3,050**	<0.985	

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

2017 Annual Groundwater Monitoring Report

HollyFrontier Navajo Refining LLC, Artesia Refinery, Artesia, New Mexico

				Analyte Group:	Water Quality Parameters								Cyanide
				Analyte:	Calcium	Chloride	Fluoride	Potassium	Sodium	Sulfate	TDS	Nitrate/Nitrite	Cyanide
				Units:	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
				CGWSL:	---	250	1.60	---	---	600	1,000	10.0	0.200
				CGWSL Source:		WQCC Dom	WQCC HH			WQCC Dom	WQCC Dom	USEPA MCL	USEPA MCL
Area	**Well ID**	**Date**	**Dup**										
South Refinery	MW-107	Apr-15		160 J	**291**	1.54	0.583 J	73.1	27.1	**1,220**	<0.0200		
	MW-107	Oct-15		176	**297**	**1.67**	0.880 J	76.9	102	**1,390**	<0.197		
	MW-107	Apr-16		727	**277**	**1.67**	3.22 J	381	6.07	**1,850**	0.376 J		
	MW-107	Oct-16		186	**271**	**1.82**	0.965 J	80.1	72.4	**1,480**	0.170 B		
	MW-107	Apr-17		140	**313**	**1.76**	0.655 J	75.4	<0.0774	**1,260**	<0.197		
	MW-109	Apr-15		192 J	**261**	**2.04**	0.929 J	406	**931**	**2,910**	<0.390		
	MW-109	Oct-15		181	232	**1.81**	0.862 J	438	**950**	**2,170**	<0.197		
	MW-109	Apr-16		707	204	**1.90**	4.01 J	2200	**848**	**2,190**	0.384 J		
	MW-109	Oct-16		153	226	**2.06**	0.802 J	431	**751**	**2,590**	0.0360 JB		
	MW-109	Apr-17		200	195	**1.99**	1.03	394	**1,040**	**2,700**	<0.197		
	MW-109	Oct-17		193	166	1.41	0.913 J	374	**814**	**2,710**	<0.394		
	MW-110	Apr-15		107 J	93.8	**1.64**	0.244 J	244	283	**1,420**	<0.0200		
	MW-110	Oct-15		174	136	**1.62**	0.268 J	294	**787**	**1,680**	<0.197		
	MW-110	Apr-16		555	99.0	1.53	1.19 J	1380	**2,100**	**1,360**	0.765 J		
	MW-110	Oct-16		115	97.6	1.50	0.150 J	276	555	**1,430**	0.0620 JB		
	MW-110	Apr-17		120	135	1.45	0.207 J	265	387	**1,330**	<0.197		
	MW-110	Oct-17		106	97.3	0.903	0.0756 J	267	419	**1,430**	<0.0197		
	RA-313	Apr-14		171	17.2	1.01	0.935		450	868	<0.150		
	RA-313	Apr-15		150	19.1	0.914	1.04	17.8	**605**	808	<0.0200		
	RA-313	Apr-16		175	17.6	0.893	1.02 J	17.3	501	881	0.680 J		
	RA-313	Apr-17		167	15.0	0.893	1.26	16.4	455	937	0.447 J		
	RW-4	Apr-15		202	**258**	0.845	1.67	144	468	**1,710** J	<0.0200		
	RW-4R	Apr-16		207	**351**	1.06	2.00 J	290	470	**1,810**	0.346 J		
	RW-4R	Apr-17		151	**280**	0.977	1.50	177	318	**1,510**	<0.197		
	RW-5R	Apr-15		4.82	**260**	0.965	0.461 J	189	0.376 J	565	<0.0200		
	RW-5R	Apr-16		4.61 J	**262**	0.564	0.364 J	203	0.655 J	399	0.495 J		
	RW-6	Apr-15		168	**414**	0.628	0.686 J	205	129	**1,650**	0.0335 J		
	RW-6R	Apr-16		191	**405**	0.747	0.356 J	226	104	**1,470**	0.485 J		
	RW-15C	Apr-17		160	**409**	0.774	1.59	269	19.4	**1,610**	0.442 J		
South RO Reject Field	MW-114	Apr-15		570 J	80.3	**1.95**	2.29	114	**2,140**	**3,640**	0.0752 J		
	MW-114	Oct-15		579	111	**1.89**	2.46	104	**2,250**	**2,990**	<0.197		
	MW-114	Apr-16		681	88.6	**1.87**	2.59 J	126	**1,170**	**3,710**	0.416 J		
	MW-114	Oct-16		569	231	**2.03**	2.49	89.3	**2,100**	**4,050**	4.69		
	MW-114	Apr-17		599	**266**	**1.78**	2.83	131	**2,350**	**3,480**	0.260 JJ5		
	MW-114	Oct-17		582	157	1.35	2.83	132	**1,950**	**3,700**	2.80		
	MW-115	Apr-15		546 J	**464**	**2.42**	0.425 J	385	**3,510**	**6,200**	0.0333 J		
	MW-115	Oct-15		532	**326**	**2.8**	0.578 J	320	**3,640**	**4,640**	<0.197		
	MW-115	Apr-16		2410	153	**1.93** J6	2.64 J	1290	**2,020**	**5,390**	0.375 J		
	MW-115	Oct-16		541	**382**	**2.69**	0.395 JB	144	**2,750**	**4,990**	0.113 B		
	MW-115	Apr-17		394	**304**	1.51	0.514 J	183	**2,770**	**4,190**	<0.197		
	MW-115	Oct-17		450	249	1.01	0.558 J	213	**2,910**	**4,480**	0.0420 J		
	MW-116	Apr-15		534 J	131	**2.28**	3.57	92.1	**1,800**	**3,300**	0.0753 J		
	MW-116	Oct-15		644	223	**2.80**	5.67	145	**2,280**	**3,800**	<0.197		
	MW-116	Apr-16		719	**500**	1.33	1.63 J	259	**3,300**	**4,580**	0.473 J		
	MW-116	Oct-16		569	196	**2.91**	4.26	114	**2,040**	**3,500**	0.0480 JB		
	MW-116	Apr-17		501	**270**	**2.00**	2.22	154	**2,060**	**3,450**	0.258 J		
	MW-116	Oct-17		614	233	**2.72**	4.47	147	**2,080**	**3,160**	1.4		
TEL	MW-49	Apr-15		197	**423**	1.18	2.04	309	**665**	**2,340**	<0.200		<0.00180
	MW-49	Oct-15		192	**381**	1.45	2.48	326	**621**	**2,260**	<0.197		0.00280 J
	MW-49	Apr-16		203	**368**	1.38	2.19 J	347	584	**2,270**	0.0580 J		<0.00180 J3J6
	MW-49	Oct-16		206	**364**	1.50	2.45	329	**602**	**1,860**	0.179 BJ6		<0.00900
	MW-49	Apr-17		194	**373**	1.35	2.19	328	531	**2,390**	<0.197		<0.0900
	MW-49	Oct-17		192	**373**	1.31	2.83	331	535	**2,140**	<0.0197		<0.00180
	TEL-1	Apr-15		209	**269**	**2.26**	0.962 J	434	**1,230**	**2,480**	<0.200		
	TEL-1	Oct-15		479	195	**2.54**	1.92	374	**2,060**	**3,390**	<0.197		
	TEL-1	Apr-16		389	113	**3.00**	1.72 J	373	**1,510**	**2,570**	0.0380 J		
	TEL-1	Oct-16		477	51.4	**3.39**	2.22	155	**1,710**	**3,090**	0.0730 JB		
	TEL-1	Apr-17		284	195	**2.73**	1.32	370	**1,320**	**2,940**	<0.197		
	TEL-1	Oct-17		208	243	**2.12**	0.896 J	480	**986**	**2,350**	<0.394		
	TEL-2	Apr-15		164	**949**	0.914	0.945 J	372	498 J	**2,390**	<0.200		
	TEL-2	Oct-15		188	**371**	1.18	1.10	404	**680**	**2,460**	<0.197		
	TEL-2	Apr-16		224	**344**	1.08	0.954 J	419	**825**	**2,720**	0.0460 J		
	TEL-2	Oct-16		228	**294**	1.04	1.14	406	**764**	**2,830**	0.0390 JB		
	TEL-2	Apr-17		224	**302**	1.11	1.04	411	**865**	**2,730**	<0.197		
	TEL-2	Oct-17		246	226	0.911	1.09	442	**1,160**	**3,000**	<0.0197		
	TEL-3	Apr-15		485	**829**	**2.52**	6.12	184	**1,330**	**2,750**	0.224 J		
	TEL-3	Oct-15		550	66.4	**2.95**	6.85	74.7	**1,520**	**2,960**	<0.197		
	TEL-3	Apr-16		473	**585**	**2.71**	7.31	364	**622**	**2,900**	0.0420 J		
	TEL-3	Oct-16		427	25.1	**3.43**	5.27	20.6	**1,020**	**1,850**	0.0450 JB		
	TEL-3	Apr-17		463	55.1	**3.04**	5.21	39.8	**1,070**	**1,980**	0.269 J		
	TEL-4	Apr-15		301	**1190**	0.678	0.455 J	294	**947**	**3,200**	<0.200		
	TEL-4	Apr-15	FD	289	**535**	0.690	0.411 J	281	**1,140**	**3,300**	<0.200		
	TEL-4	Oct-15		412	**347**	**2.55**	0.934 J	657	**4,000**	**7,150**	0.385 J		
	TEL-4	Oct-15	FD	417	**353**	**3.14**	0.950 J	693	**4,040**	**6,590**	<0.197		
	TEL-4	Apr-16		410	**524**	1.53	0.666 J	509	**2,070**	**4,260**	0.0440 J		
	TEL-4	Apr-16	FD	408	**519**	1.53	0.618 J	515	**1,980**	**4,040**	0.0400 JJ6		
	TEL-4	Oct-16		370	**336**	**1.69**	0.613 J	465	**2,290**	**5,350**	0.0340 JB		
	TEL-4	Oct-16	FD	370	**347**	1.58	0.608 J	454	**2,240**	**5,370**	0.0360 JB		
	TEL-4	Apr-17		432	**442**	1.36	0.587 J	542	**2,680**	**6,520**	0.404 J		
	TEL-4	Apr-17	FD	427	**436**	1.22	0.588 J	546	**2,630**	**5,570**	<0.197		
	TEL-4	Oct-17		343	**511**	0.862	0.512 J	468	**1,660**	**4,240**	<0.0985		
	TEL-4	Oct-17	FD	342	**501**	0.868	0.510 J	465	**1,520**	**3,600**	<0.0197		
TMD	MW-8	Apr-14		486	**383**	**1.78**	2.05	388	**2,710**	**5,060**	5.20		
	MW-8	Apr-15		390	**321**	1.51	1.59	328	**2,940**	**4,210**	1.1		
	MW-8	Apr-16		377	**275**	**2.02**	1.69 J	295	**2,380**	**3,690**	0.503 J		
	MW-8	Apr-17		346	**334**	**2.20**	1.44	262	**2,100**	**3,900**	1.04		
	MW-16	Apr-14		531	**422**	**2.79**	8.99	388	**2,170**	**4,020**	0.269 J		
	MW-16	Apr-15		666	**660**	**2.32**	10.2	545	**2,670**	**4,890**	0.461		
	MW-16	Apr-17		558	**936**	**2.36** J6	9.27	689	**2,900**	**4,150**	1.75		
	MW-20	Apr-14		505	**457**	**2.11**	0.416	249	**2,580**	**4,900**	6.74		
	MW-20	Apr-14	FD	487	**440**	**1.72**	0.419	247	**2,700**	**4,840**	6.50		
	MW-20	Apr-15		510	**429**	1.51	0.398 J	232	**3,490**	**4,790**	5.08		
	MW-20	Apr-16		594	**515**	**2.18**	0.370 J	274	**2,790**	**4,850**	8.09		
	MW-20	Apr-17		525	**588**	**2.27**	0.425 J	274	**2,800**	**5,650**	8.74		
	MW-21	Apr-15		542	**481**	**1.90**	1.81 J	468	**3,210**	**5,210**	**17.0**		
	MW-21	Oct-15		530	**550**	**1.75**	2.00	436	**3,520**	**5,190**	**16.5**		
	MW-21	Apr-16		590	**516**	**1.69**	2.31 J	440	**3,150**	**5,720**	**15.0**		
	MW-21	Oct-16		543	**474**	**1.74**	1.91	429	**3,150**	**4,240**	**12.0**		
	MW-21	Apr-17		507	**599**	**1.95**	1.88	423	**2,860**	**6,630**	**20.4**		
	MW-21	Oct-17		562	**574**	**1.81**	1.86	416	**3,350**	**5,000**	**17.1**		
	MW-25	Apr-14		985	**4,440**	0.635	6.80	1220	**2,060**	**11,700**	<0.150		
	MW-25	Apr-15		896	**6,780**	1.03	8.34	3710	**5,740**	**17,000**	0.0974 J		
	MW-25	Apr-16		647	**4,130**	1.13	6.61	2670	**4,100**	**11,800**	0.125		
	MW-25	Apr-17		484 V	**2,330**	1.17	5.11	1540	**2,800**	**6,240**	0.152		

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

2017 Annual Groundwater Monitoring Report

HollyFrontier Navajo Refining LLC, Artesia Refinery, Artesia, New Mexico

				Analyte Group:	Water Quality Parameters								Cyanide
				Analyte:	Calcium	Chloride	Fluoride	Potassium	Sodium	Sulfate	TDS	Nitrate/Nitrite	Cyanide
				Units:	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
				CGWSL:	---	250	1.60	---	---	600	1,000	10.0	0.200
				CGWSL Source:		WQCC Dom	WQCC HH			WQCC Dom	WQCC Dom	USEPA MCL	USEPA MCL
Area	**Well ID**	**Date**	**Dup**										
TMD	MW-26	Apr-14		718	**953**	**2.16**	6.01	662	**4,330**	**8,280**	0.252 J	
	MW-26	Apr-15		698	**1,130**	1.15	5.42	704	**5,950**	**8,660**	0.268	
	MW-26	Apr-16		725	**1,260**	**1.86**	5.75	695	**4,520**	**8,730**	0.301	
	MW-26	Apr-17		707	**1,580**	**1.75**	5.90	760	**5,120**	**8,730**	0.580	
	MW-27	Apr-14		431	148	0.983	9.89	159	**1,600**	**2,600**	0.632 J	
	MW-27	Apr-15		607	246	0.928	11.2	128	**2,320**	**3,640**	0.703	
	MW-27	Apr-16		470	234	1.19	9.36	156	**3,950**	**3,150**	0.687	
	MW-27	Apr-17		410	138	1.29	8.43	136	**1,550**	**2,150**	1.22	
	MW-46R	Nov-14		650	**290**	**1.90**	2.30	170	**2,300**	**3,800**	<0.0200	
	MW-46R	Apr-15		599	**288**	1.24	1.82	152	**2,590**	**3,980**	0.169	
	MW-46R	Apr-16		645	**290**	1.47	1.26 J	168	**2,470**	**3,980**	0.0520 JJ6	
	MW-46R	Oct-16		605 V	**339**	**1.97**	1.83	161	**2,170**	**4,010**	0.368	
	MW-46R	Apr-17		588	**315**	**1.70**	1.30	182	**2,420**	**3,930**	0.206	
	MW-46R	Oct-17		627	**275**	**1.63**	1.27	183	**2,590**	**4,040**	0.0920 J	
	MW-68	Apr-14		375	**299**	**1.79**	4.84	207	**1,330**	**2,920**	5.10	
	MW-68	Apr-15		552	**397**	1.15	4.65	242	**2,610**	**4,460**	4.52	
	MW-68	Apr-16		489	**263**	**1.75**	5.58	206	**1,840**	**2,980**	0.510	
	MW-68	Apr-17		381	237	**1.88**	4.60	165	**1,620**	**2,890**	0.381	
	MW-71	Apr-14		558	**887**	1.39	4.15	399	**2,740**	**6,280**	**53.6**	<0.00500
	MW-71	Apr-15		642	**906**	1.09	3.59	447	**3,150**	**6,110**	**50.6**	<0.00180
	MW-71	Apr-16		669	**907**	**1.62**	3.72 J	502	**2,890**	**5,450**	**45.6**	<0.00180
	MW-71	Apr-17		601	**848**	**1.63**	3.62	491	**2,940**	**5,300**	**54.0**	<0.00180
	MW-89	Apr-14		542	248	**2.40**	10.5	188	**2,030**	**3,360**	1.34	
	MW-89	Apr-15		528	**324**	**3.61**	13.5	302	**2,200**	**3,720**	2.34	
	MW-89	Apr-16		556	**399**	**3.58**	12.0	299	**1,490**	**3,640**	3.64	
	MW-89	Apr-17		550	**394**	**3.97**	12.2	289	**2,170**	**3,600**	4.77	
	NP-1	Apr-15		473	**436**	**2.06**	3.53 J	451	**2,930**	**4,450**	8.41	
	NP-1	Oct-15										
	NP-1	Apr-16		470	**391**	**1.96**	3.12 J	403	**2,620**	**4,460**	0.494 J	
	NP-1	Oct-16										
	NP-1	Apr-17		421	**422**	**2.08**	2.73	340	**2,440**	**4,060**	9.95	
	NP-1	Oct-17										
	NP-2	Apr-13		517	**379**	**1.70**	1.63	258	**2,660**	**5,160**	1.74	
	NP-6	Apr-13										
	NP-6	Apr-15										
	NP-6	Apr-17										
Up-Gradient	UG-1	Apr-14		474	126	0.580	1.59	79.6	**1,720**	**2,960**	**10.1**	<0.00500	
	UG-1	Apr-15		455 J	133	0.865	1.11	84.6	**1,880**	**2,920**	**14.4**	<0.00180	
	UG-1	Apr-16		512	102	0.926	1.07 J	99.7	**1,920**	**4,050**	**17.0**	0.00432 J	
	UG-1	Apr-17		471	178	0.928	1.14	99.1	**1,830**	**3,390**	**15.0**	<0.00180	
	UG-2	Apr-14		403	97.1	1.14	1.75	104	**1,530**	**2,660**	3.77	<0.00500	
	UG-2	Apr-15		337 J	72.2	**1.65**	1.73	82.6	**1,080**	**1,170**	4.62	<0.00180	
	UG-2	Apr-16		402	86.5	**1.75**	2.04 J	103	**1,210**	**2,240**	5.46	0.00511	
	UG-2	Apr-17		342	78.9	**1.67**	1.60	94.0	**1,060**	**2,270**	**16.3**	<0.00180	
	UG-3R	Apr-14		422	46.8	0.492	1.65	56.9	**1,480**	**2,340**	2.26	<0.00500	
	UG-3R	Apr-14	FD	389	46.8	0.496	1.53	53.6	**1,500**	**2,400**	2.20	<0.00500	
	UG-3R	Apr-15		420 J	27.5	0.716	2.36	59.1	**1,450**	**1,420**	1.03	<0.00180	
	UG-3R	Apr-16		440	47.7	0.690	1.86	75.8	**1,350**	**2,340**	1.73	<0.00180	
	UG-3R	Apr-17		393	61.1	0.707	1.74	70.7	**1,310**	**2,140**	2.60	<0.00180 J5	
	UG-4	Apr-16		590	49.2	0.668	1.99 J	224	**2,480**	**4,140**	0.407	<0.00180	
	UG-4	Apr-17		594 V	154	0.666	1.87	202 V	**2,750**	**4,350**	0.547 J	<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
USEPA MCL	United States Environmental Protection Agency Maximum Contaminant Level, "Regional Screening Levels (RSL) Summary Table", November 2017
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.
H	The reported result is from a sample analyzed outside of Holding Time.
J	Indicates an estimated value.
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.
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.
V	The sample concentration is too high to evaluate accurate spike recoveries.

ANALYTICAL REPORT

May 12, 2017

TRC Solutions - Austin, TX

Sample Delivery Group:	L905300
Samples Received:	04/27/2017
Project Number:	249545.0000.0000 000
Description:	EP Spring 2017
Site:	EP NAVAJO-ARTESIA
Report To:	Julie Speer 505 E. Huntland Dr, Ste 250 Austin, TX 78752

Entire Report Reviewed By:

Chris McCord
Technical Service Representative

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 ESC is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.



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MW-82 L905300-01 GW

Collected by: Scott Ude-HMI Team
Collected date/time: 04/25/17 16:05
Received date/time: 04/27/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG974601	1	04/28/17 10:43	04/28/17 14:27	JER
Wet Chemistry by Method 353.2	WG974561	1	04/28/17 12:19	04/28/17 12:19	DR
Wet Chemistry by Method 9056A	WG974574	100	04/28/17 19:55	04/28/17 19:55	SAM
Metals (ICPMS) by Method 6020	WG974645	1	04/28/17 09:26	04/30/17 22:06	LAT
Metals (ICPMS) by Method 6020	WG974645	1	04/28/17 09:26	05/02/17 12:25	LAT
Metals (ICPMS) by Method 6020	WG974645	10	04/28/17 09:26	05/01/17 15:34	JDG
Metals (ICPMS) by Method 6020	WG974737	1	05/01/17 17:16	05/01/17 21:59	VSS
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG974712	1	04/28/17 01:48	04/28/17 01:48	BMB
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975016	1	04/29/17 00:17	04/29/17 00:17	BMB
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG974613	5	04/27/17 18:37	04/28/17 23:16	DMG

MW-74 L905300-02 GW

Collected by: Scott Ude-HMI Team
Collected date/time: 04/25/17 14:50
Received date/time: 04/27/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG974601	1	04/28/17 10:43	04/28/17 14:27	JER
Wet Chemistry by Method 353.2	WG974561	20	04/28/17 12:20	04/28/17 12:20	DR
Wet Chemistry by Method 9056A	WG974574	1	04/28/17 20:12	04/28/17 20:12	SAM
Wet Chemistry by Method 9056A	WG974574	100	04/28/17 20:30	04/28/17 20:30	SAM
Metals (ICPMS) by Method 6020	WG974645	1	04/28/17 09:26	04/30/17 22:10	LAT
Metals (ICPMS) by Method 6020	WG974645	1	04/28/17 09:26	05/02/17 12:29	LAT
Metals (ICPMS) by Method 6020	WG974645	20	04/28/17 09:26	05/01/17 15:38	JDG
Metals (ICPMS) by Method 6020	WG974737	1	05/01/17 17:16	05/01/17 22:33	VSS
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG974712	1	04/28/17 02:12	04/28/17 02:12	BMB
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975016	1	04/29/17 00:34	04/29/17 00:34	BMB
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG974613	5	04/27/17 18:37	04/28/17 23:33	DMG

MW-73 L905300-03 GW

Collected by: Scott Ude-HMI Team
Collected date/time: 04/25/17 14:05
Received date/time: 04/27/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG974601	1	04/28/17 10:43	04/28/17 14:27	JER
Wet Chemistry by Method 353.2	WG974561	1	04/28/17 12:21	04/28/17 12:21	DR
Wet Chemistry by Method 9056A	WG974574	1	04/28/17 20:47	04/28/17 20:47	SAM
Wet Chemistry by Method 9056A	WG974574	100	04/28/17 21:04	04/28/17 21:04	SAM
Metals (ICPMS) by Method 6020	WG974645	1	04/28/17 09:26	04/30/17 22:13	LAT
Metals (ICPMS) by Method 6020	WG974645	1	04/28/17 09:26	05/02/17 12:33	LAT
Metals (ICPMS) by Method 6020	WG974645	20	04/28/17 09:26	05/01/17 15:41	JDG
Metals (ICPMS) by Method 6020	WG974737	1	05/01/17 17:16	05/01/17 22:37	VSS
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG974712	1	04/28/17 02:37	04/28/17 02:37	BMB
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975016	1	04/29/17 00:51	04/29/17 00:51	BMB
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG974613	1	04/27/17 18:37	04/28/17 20:45	DMG

MW-72 L905300-04 GW

Collected by: Scott Ude-HMI Team
Collected date/time: 04/25/17 12:55
Received date/time: 04/27/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG974601	1	04/28/17 10:43	04/28/17 14:27	JER
Wet Chemistry by Method 353.2	WG974941	1	05/01/17 15:21	05/01/17 15:21	DR
Wet Chemistry by Method 9056A	WG974574	1	04/28/17 23:41	04/28/17 23:41	SAM
Wet Chemistry by Method 9056A	WG974574	100	04/28/17 23:59	04/28/17 23:59	SAM
Metals (ICPMS) by Method 6020	WG974645	1	04/28/17 09:26	04/30/17 22:17	LAT

MW-72 L905300-04 GW

Collected by: Scott Ude-HMI Team
Collected date/time: 04/25/17 12:55
Received date/time: 04/27/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICPMS) by Method 6020	WG974645	1	04/28/17 09:26	05/02/17 13:04	LAT
Metals (ICPMS) by Method 6020	WG974645	20	04/28/17 09:26	05/01/17 15:45	JDG
Metals (ICPMS) by Method 6020	WG974737	1	05/01/17 17:16	05/01/17 22:40	VSS
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG974712	1	04/28/17 03:01	04/28/17 03:01	BMB
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975016	1	04/29/17 01:07	04/29/17 01:07	BMB
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG974613	1	04/27/17 18:37	04/28/17 21:02	DMG

OCD-6 L905300-05 GW

Collected by: Scott Ude-HMI Team
Collected date/time: 04/25/17 10:05
Received date/time: 04/27/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG974601	1	04/28/17 10:43	04/28/17 14:27	JER
Wet Chemistry by Method 353.2	WG974941	1	05/01/17 15:27	05/01/17 15:27	DR
Wet Chemistry by Method 9056A	WG974574	1	04/29/17 01:08	04/29/17 01:08	SAM
Wet Chemistry by Method 9056A	WG974574	100	04/29/17 00:16	04/29/17 00:16	SAM
Metals (ICPMS) by Method 6020	WG974645	1	04/28/17 09:26	04/30/17 22:20	LAT
Metals (ICPMS) by Method 6020	WG974645	1	04/28/17 09:26	05/02/17 13:08	LAT
Metals (ICPMS) by Method 6020	WG974645	20	04/28/17 09:26	05/01/17 15:48	JDG
Metals (ICPMS) by Method 6020	WG974737	1	05/01/17 17:16	05/01/17 22:44	VSS
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG974712	1	04/28/17 03:25	04/28/17 03:25	BMB
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975016	1	04/29/17 01:24	04/29/17 01:24	BMB
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG974613	1	04/27/17 18:37	04/28/17 21:19	DMG

OCD-7AR L905300-06 GW

Collected by: Scott Ude-HMI Team
Collected date/time: 04/25/17 10:55
Received date/time: 04/27/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG974601	1	04/28/17 10:43	04/28/17 14:27	JER
Wet Chemistry by Method 353.2	WG974941	1	05/01/17 15:28	05/01/17 15:28	DR
Wet Chemistry by Method 9056A	WG974574	1	04/29/17 01:26	04/29/17 01:26	SAM
Wet Chemistry by Method 9056A	WG974574	100	04/29/17 02:18	04/29/17 02:18	SAM
Metals (ICPMS) by Method 6020	WG974645	1	04/28/17 09:26	04/30/17 22:24	LAT
Metals (ICPMS) by Method 6020	WG974645	1	04/28/17 09:26	05/02/17 13:11	LAT
Metals (ICPMS) by Method 6020	WG974645	20	04/28/17 09:26	05/01/17 15:52	JDG
Metals (ICPMS) by Method 6020	WG974737	1	05/01/17 17:16	05/01/17 22:47	VSS
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG974712	1	04/28/17 03:50	04/28/17 03:50	BMB
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975016	1	04/29/17 01:41	04/29/17 01:41	BMB
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG974613	1	04/27/17 18:37	04/28/17 21:36	DMG

OCD-7B L905300-07 GW

Collected by: Scott Ude-HMI Team
Collected date/time: 04/25/17 11:50
Received date/time: 04/27/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG974601	1	04/28/17 10:43	04/28/17 14:27	JER
Wet Chemistry by Method 353.2	WG974941	1	05/01/17 15:29	05/01/17 15:29	DR
Wet Chemistry by Method 9056A	WG974574	1	04/29/17 01:43	04/29/17 01:43	SAM
Wet Chemistry by Method 9056A	WG974574	100	04/29/17 02:35	04/29/17 02:35	SAM
Metals (ICPMS) by Method 6020	WG974645	1	04/28/17 09:26	04/30/17 22:27	LAT
Metals (ICPMS) by Method 6020	WG974645	1	04/28/17 09:26	05/02/17 13:15	LAT
Metals (ICPMS) by Method 6020	WG974645	10	04/28/17 09:26	05/01/17 15:55	JDG
Metals (ICPMS) by Method 6020	WG974737	1	05/01/17 17:16	05/01/17 22:51	VSS
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG974712	1	04/28/17 04:14	04/28/17 04:14	BMB

OCD-7B L905300-07 GW

Collected by: Scott Ude-HMI Team | Collected date/time: 04/25/17 11:50 | Received date/time: 04/27/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975021	1	04/29/17 04:13	04/29/17 04:13	BMB
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG974613	1	04/27/17 18:37	04/28/17 21:52	DMG

MW-5A L905300-08 GW

Collected by: Scott Ude-HMI Team | Collected date/time: 04/25/17 12:35 | Received date/time: 04/27/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG974601	1	04/28/17 10:43	04/28/17 14:27	JER
Wet Chemistry by Method 353.2	WG974941	1	05/01/17 15:31	05/01/17 15:31	DR
Wet Chemistry by Method 9056A	WG974574	1	04/29/17 02:01	04/29/17 02:01	SAM
Wet Chemistry by Method 9056A	WG974574	100	04/29/17 03:10	04/29/17 03:10	SAM
Metals (ICPMS) by Method 6020	WG974645	1	04/28/17 09:26	04/30/17 22:31	LAT
Metals (ICPMS) by Method 6020	WG974645	1	04/28/17 09:26	05/02/17 13:19	LAT
Metals (ICPMS) by Method 6020	WG974645	20	04/28/17 09:26	05/01/17 15:59	JDG
Metals (ICPMS) by Method 6020	WG974737	1	05/01/17 17:16	05/01/17 22:55	VSS
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG974712	1	04/28/17 04:38	04/28/17 04:38	BMB
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975021	1	04/29/17 04:30	04/29/17 04:30	BMB
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG974613	1	04/27/17 18:37	04/28/17 22:09	DMG

MW-5B L905300-09 GW

Collected by: Scott Ude-HMI Team | Collected date/time: 04/25/17 13:30 | Received date/time: 04/27/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG974601	1	04/28/17 10:43	04/28/17 14:27	JER
Wet Chemistry by Method 353.2	WG974941	1	05/01/17 15:32	05/01/17 15:32	DR
Wet Chemistry by Method 9056A	WG974574	1	04/29/17 02:53	04/29/17 02:53	SAM
Wet Chemistry by Method 9056A	WG974574	100	04/29/17 03:28	04/29/17 03:28	SAM
Metals (ICPMS) by Method 6020	WG974645	1	04/28/17 09:26	04/30/17 22:34	LAT
Metals (ICPMS) by Method 6020	WG974645	1	04/28/17 09:26	05/02/17 13:22	LAT
Metals (ICPMS) by Method 6020	WG974645	10	04/28/17 09:26	05/01/17 16:02	JDG
Metals (ICPMS) by Method 6020	WG974737	1	05/01/17 17:16	05/01/17 22:58	VSS
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG974712	1	04/28/17 05:02	04/28/17 05:02	BMB
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975021	1	04/29/17 04:47	04/29/17 04:47	BMB
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG974613	5	04/27/17 18:37	04/29/17 17:50	TH

MW-5C L905300-10 GW

Collected by: Scott Ude-HMI Team | Collected date/time: 04/25/17 14:15 | Received date/time: 04/27/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG974601	1	04/28/17 10:43	04/28/17 14:27	JER
Wet Chemistry by Method 353.2	WG974941	1	05/01/17 15:33	05/01/17 15:33	DR
Wet Chemistry by Method 9056A	WG975157	1	04/30/17 22:42	04/30/17 22:42	KCF
Wet Chemistry by Method 9056A	WG975157	50	04/30/17 22:07	04/30/17 22:07	KCF
Metals (ICPMS) by Method 6020	WG974645	1	04/28/17 09:26	04/30/17 22:38	LAT
Metals (ICPMS) by Method 6020	WG974645	1	04/28/17 09:26	05/02/17 13:26	LAT
Metals (ICPMS) by Method 6020	WG974645	10	04/28/17 09:26	05/01/17 16:32	JDG
Metals (ICPMS) by Method 6020	WG974737	1	05/01/17 17:16	05/01/17 23:02	VSS
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG974712	1	04/28/17 05:26	04/28/17 05:26	BMB
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975021	1	04/29/17 05:03	04/29/17 05:03	BMB
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG974616	1	04/27/17 18:36	04/29/17 00:59	DMG

MW-7A L905300-11 GW

Collected by: Scott Ude-HMI Team
Collected date/time: 04/25/17 10:55
Received date/time: 04/27/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG974887	1	04/30/17 11:11	04/30/17 11:49	MMF
Wet Chemistry by Method 353.2	WG974941	1	05/01/17 15:34	05/01/17 15:34	DR
Wet Chemistry by Method 9056A	WG974574	1	04/28/17 17:18	04/28/17 17:18	SAM
Wet Chemistry by Method 9056A	WG974574	100	04/28/17 17:35	04/28/17 17:35	SAM
Metals (ICPMS) by Method 6020	WG974645	1	04/28/17 09:26	04/30/17 23:30	LAT
Metals (ICPMS) by Method 6020	WG974645	1	04/28/17 09:26	05/02/17 13:29	LAT
Metals (ICPMS) by Method 6020	WG974645	10	04/28/17 09:26	05/01/17 16:36	JDG
Metals (ICPMS) by Method 6020	WG974737	1	05/01/17 17:16	05/01/17 23:05	VSS
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG974712	1	04/28/17 05:50	04/28/17 05:50	BMB
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975021	1	04/29/17 05:20	04/29/17 05:20	BMB
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG974616	1	04/27/17 18:36	04/29/17 01:16	DMG

MW-7B L905300-12 GW

Collected by: Scott Ude-HMI Team
Collected date/time: 04/25/17 11:50
Received date/time: 04/27/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG974887	1	04/30/17 11:11	04/30/17 11:49	MMF
Wet Chemistry by Method 353.2	WG974941	1	05/01/17 15:41	05/01/17 15:41	DR
Wet Chemistry by Method 9056A	WG974574	1	04/28/17 17:53	04/28/17 17:53	SAM
Wet Chemistry by Method 9056A	WG974574	100	04/28/17 19:02	04/28/17 19:02	SAM
Metals (ICPMS) by Method 6020	WG974645	1	04/28/17 09:26	04/30/17 23:34	LAT
Metals (ICPMS) by Method 6020	WG974645	1	04/28/17 09:26	05/02/17 13:33	LAT
Metals (ICPMS) by Method 6020	WG974645	10	04/28/17 09:26	05/01/17 16:39	JDG
Metals (ICPMS) by Method 6020	WG974737	1	05/01/17 17:16	05/02/17 01:38	LAT
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG974712	1	04/28/17 06:15	04/28/17 06:15	BMB
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975021	1	04/29/17 05:37	04/29/17 05:37	BMB
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG974616	1	04/27/17 18:36	04/29/17 01:34	DMG

OCD-8A L905300-13 GW

Collected by: Scott Ude-HMI Team
Collected date/time: 04/25/17 10:10
Received date/time: 04/27/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG974887	1	04/30/17 11:11	04/30/17 11:49	MMF
Wet Chemistry by Method 353.2	WG974941	1	05/01/17 15:42	05/01/17 15:42	DR
Wet Chemistry by Method 4500CN E-2011	WG974960	1	04/28/17 16:29	05/02/17 09:21	DR
Wet Chemistry by Method 9056A	WG974574	1	04/28/17 21:57	04/28/17 21:57	SAM
Wet Chemistry by Method 9056A	WG974574	100	04/28/17 22:14	04/28/17 22:14	SAM
Mercury by Method 7470A	WG974464	1	04/27/17 13:20	04/28/17 15:28	TRB
Mercury by Method 7470A	WG974524	1	04/27/17 13:18	04/28/17 14:17	TRB
Metals (ICPMS) by Method 6020	WG974645	1	04/28/17 09:26	04/30/17 20:57	JDG
Metals (ICPMS) by Method 6020	WG974645	10	04/28/17 09:26	05/09/17 20:16	VSS
Metals (ICPMS) by Method 6020	WG974737	1	05/01/17 17:16	05/02/17 01:41	RDS
Metals (ICPMS) by Method 6020	WG974737	1	05/01/17 17:16	05/02/17 15:14	LAT
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG974712	1	04/28/17 06:39	04/28/17 06:39	BMB
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975021	1	04/29/17 05:54	04/29/17 05:54	BMB
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG974616	1	04/27/17 18:36	04/29/17 04:26	DMG

OCD-8B L905300-14 GW

Collected by: Scott Ude-HMI Team
Collected date/time: 04/25/17 09:25
Received date/time: 04/27/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG974887	1	04/30/17 11:11	04/30/17 11:49	MMF
Wet Chemistry by Method 353.2	WG974941	1	05/01/17 15:43	05/01/17 15:43	DR
Wet Chemistry by Method 9056A	WG974574	1	04/28/17 22:31	04/28/17 22:31	SAM
Wet Chemistry by Method 9056A	WG974574	100	04/28/17 22:49	04/28/17 22:49	SAM
Metals (ICPMS) by Method 6020	WG974645	1	04/28/17 09:26	04/30/17 23:37	LAT
Metals (ICPMS) by Method 6020	WG974645	1	04/28/17 09:26	05/02/17 18:11	VSS
Metals (ICPMS) by Method 6020	WG974645	10	04/28/17 09:26	05/01/17 16:43	JDG
Metals (ICPMS) by Method 6020	WG974737	1	05/01/17 17:16	05/02/17 01:45	LAT
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG974712	1	04/28/17 07:03	04/28/17 07:03	BMB
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975021	1	04/29/17 06:11	04/29/17 06:11	BMB
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG974616	1	04/27/17 18:36	04/29/17 04:43	DMG

MW-87 L905300-15 GW

Collected by: Scott Ude-HMI Team
Collected date/time: 04/25/17 17:20
Received date/time: 04/27/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG974887	1	04/30/17 11:11	04/30/17 11:49	MMF
Wet Chemistry by Method 353.2	WG974945	1	05/01/17 15:57	05/01/17 15:57	DR
Wet Chemistry by Method 9056A	WG974575	1	04/28/17 11:40	04/28/17 11:40	SAM
Wet Chemistry by Method 9056A	WG974575	100	04/28/17 12:04	04/28/17 12:04	SAM
Metals (ICPMS) by Method 6020	WG974645	1	04/28/17 09:26	04/30/17 23:41	LAT
Metals (ICPMS) by Method 6020	WG974645	1	04/28/17 09:26	05/02/17 18:15	VSS
Metals (ICPMS) by Method 6020	WG974645	20	04/28/17 09:26	05/01/17 16:46	JDG
Metals (ICPMS) by Method 6020	WG974737	1	05/01/17 17:16	05/02/17 01:48	LAT
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG974712	1	04/28/17 07:27	04/28/17 07:27	BMB
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975021	1	04/29/17 06:28	04/29/17 06:28	BMB
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG974616	1	04/27/17 18:36	04/29/17 01:51	DMG

MW-18A L905300-16 GW

Collected by: Scott Ude-HMI Team
Collected date/time: 04/25/17 13:30
Received date/time: 04/27/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG974888	1	04/30/17 11:38	04/30/17 12:15	MMF
Wet Chemistry by Method 353.2	WG974945	1	05/01/17 15:59	05/01/17 15:59	DR
Wet Chemistry by Method 4500CN E-2011	WG974960	1	04/28/17 16:29	05/02/17 09:23	DR
Wet Chemistry by Method 9056A	WG974575	1	04/28/17 11:52	04/28/17 11:52	SAM
Wet Chemistry by Method 9056A	WG974575	100	04/28/17 12:15	04/28/17 12:15	SAM
Mercury by Method 7470A	WG974464	1	04/27/17 13:20	04/28/17 15:30	TRB
Mercury by Method 7470A	WG974524	1	04/27/17 13:18	04/28/17 14:19	TRB
Metals (ICPMS) by Method 6020	WG974645	1	04/28/17 09:26	04/30/17 21:00	JDG
Metals (ICPMS) by Method 6020	WG974645	10	04/28/17 09:26	05/02/17 18:18	VSS
Metals (ICPMS) by Method 6020	WG974645	10	04/28/17 09:26	05/10/17 12:27	JPD
Metals (ICPMS) by Method 6020	WG974737	1	05/01/17 17:16	05/02/17 01:52	LAT
Metals (ICPMS) by Method 6020	WG974737	20	05/01/17 17:16	05/02/17 14:07	LAT
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975021	1	04/29/17 06:45	04/29/17 06:45	BMB
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG974616	1	04/27/17 18:36	04/29/17 02:08	DMG

MW-18B L905300-17 GW

Collected by: Scott Ude-HMI Team | Collected date/time: 04/25/17 14:20 | Received date/time: 04/27/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG974888	1	04/30/17 11:38	04/30/17 12:15	MMF
Wet Chemistry by Method 353.2	WG974945	1	05/01/17 16:00	05/01/17 16:00	DR
Wet Chemistry by Method 9056A	WG974575	1	04/28/17 12:50	04/28/17 12:50	SAM
Wet Chemistry by Method 9056A	WG974575	50	04/28/17 13:37	04/28/17 13:37	SAM
Metals (ICPMS) by Method 6020	WG974645	1	04/28/17 09:26	04/30/17 23:44	LAT
Metals (ICPMS) by Method 6020	WG974645	1	04/28/17 09:26	05/02/17 18:22	JDG
Metals (ICPMS) by Method 6020	WG974737	1	05/01/17 17:16	05/02/17 01:56	LAT
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG974712	1	04/28/17 07:52	04/28/17 07:52	BMB
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975021	1	04/29/17 07:01	04/29/17 07:01	BMB
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG974616	1	04/27/17 18:36	04/29/17 04:09	DMG

MW-70 L905300-18 GW

Collected by: Scott Ude-HMI Team | Collected date/time: 04/25/17 15:20 | Received date/time: 04/27/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG974888	1	04/30/17 11:38	04/30/17 12:15	MMF
Wet Chemistry by Method 353.2	WG974945	1	05/01/17 16:06	05/01/17 16:06	DR
Wet Chemistry by Method 9056A	WG974575	1	04/28/17 13:02	04/28/17 13:02	SAM
Wet Chemistry by Method 9056A	WG974575	50	04/28/17 13:49	04/28/17 13:49	SAM
Metals (ICPMS) by Method 6020	WG974645	1	04/28/17 09:26	04/30/17 23:48	LAT
Metals (ICPMS) by Method 6020	WG974645	1	04/28/17 09:26	05/02/17 18:25	VSS
Metals (ICPMS) by Method 6020	WG974645	10	04/28/17 09:26	05/01/17 16:53	JDG
Metals (ICPMS) by Method 6020	WG974737	1	05/01/17 17:16	05/02/17 01:59	LAT
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG974712	1	04/28/17 08:16	04/28/17 08:16	BMB
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975021	1	04/29/17 07:18	04/29/17 07:18	BMB
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG974616	1	04/27/17 18:36	04/29/17 02:25	DMG

MW-124 L905300-19 GW

Collected by: Scott Ude-HMI Team | Collected date/time: 04/25/17 16:20 | Received date/time: 04/27/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG974888	1	04/30/17 11:38	04/30/17 12:15	MMF
Wet Chemistry by Method 353.2	WG974945	1	05/01/17 16:07	05/01/17 16:07	DR
Wet Chemistry by Method 9056A	WG974575	1	04/28/17 13:14	04/28/17 13:14	SAM
Wet Chemistry by Method 9056A	WG974575	100	04/28/17 14:00	04/28/17 14:00	SAM
Metals (ICPMS) by Method 6020	WG974645	1	04/28/17 09:26	04/30/17 23:51	LAT
Metals (ICPMS) by Method 6020	WG974645	1	04/28/17 09:26	05/02/17 18:29	VSS
Metals (ICPMS) by Method 6020	WG974645	10	04/28/17 09:26	05/01/17 16:58	JDG
Metals (ICPMS) by Method 6020	WG974737	1	05/01/17 17:16	05/02/17 02:03	LAT
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG974712	1	04/28/17 08:40	04/28/17 08:40	BMB
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975021	1	04/29/17 07:35	04/29/17 07:35	BMB
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG974616	1	04/27/17 18:36	04/29/17 17:16	TH

DUP-EP-01 L905300-20 GW

Collected by: Scott Ude-HMI Team | Collected date/time: 04/25/17 10:00 | Received date/time: 04/27/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG974888	1	04/30/17 11:38	04/30/17 12:15	MMF
Wet Chemistry by Method 353.2	WG974945	1	05/01/17 16:08	05/01/17 16:08	DR
Wet Chemistry by Method 9056A	WG974575	1	04/28/17 13:25	04/28/17 13:25	SAM
Wet Chemistry by Method 9056A	WG974575	100	04/28/17 14:12	04/28/17 14:12	SAM
Metals (ICPMS) by Method 6020	WG974645	1	04/28/17 09:26	04/30/17 20:43	JDG

DUP-EP-01 L905300-20 GW

Collected by: Scott Ude-HMI Team
Collected date/time: 04/25/17 10:00
Received date/time: 04/27/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICPMS) by Method 6020	WG974645	10	04/28/17 09:26	05/02/17 12:11	LAT
Metals (ICPMS) by Method 6020	WG974645	10	04/28/17 09:26	05/09/17 20:23	VSS
Metals (ICPMS) by Method 6020	WG974737	1	05/01/17 17:16	05/02/17 02:07	LAT
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG974800	1	04/28/17 14:39	04/28/17 14:39	DWR
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975021	1	04/29/17 07:52	04/29/17 07:52	BMB
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG974616	1	04/27/17 18:36	04/29/17 02:43	DMG

EB-EP-01 L905300-21 GW

Collected by: Scott Ude-HMI Team
Collected date/time: 04/25/17 15:05
Received date/time: 04/27/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG974888	1	04/30/17 11:38	04/30/17 12:15	MMF
Wet Chemistry by Method 353.2	WG974945	1	05/01/17 16:09	05/01/17 16:09	DR
Wet Chemistry by Method 9056A	WG974575	1	04/28/17 11:18	04/28/17 11:18	SAM
Metals (ICPMS) by Method 6020	WG974740	1	05/01/17 18:51	05/02/17 02:28	LAT
Metals (ICPMS) by Method 6020	WG974743	1	05/03/17 17:36	05/04/17 16:48	LAT
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG974800	1	04/28/17 16:03	04/28/17 16:03	DWR
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975021	1	04/29/17 08:09	04/29/17 08:09	BMB
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG974616	1	04/27/17 18:36	04/29/17 05:18	DMG

EB-EP-02 L905300-22 GW

Collected by: Scott Ude-HMI Team
Collected date/time: 04/25/17 16:40
Received date/time: 04/27/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG974888	1	04/30/17 11:38	04/30/17 12:15	MMF
Wet Chemistry by Method 353.2	WG974945	1	05/01/17 16:10	05/01/17 16:10	DR
Wet Chemistry by Method 9056A	WG974575	1	04/28/17 14:24	04/28/17 14:24	SAM
Metals (ICPMS) by Method 6020	WG974740	1	05/01/17 18:51	05/02/17 02:50	LAT
Metals (ICPMS) by Method 6020	WG974743	1	05/03/17 17:36	05/04/17 16:51	LAT
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG974800	1	04/28/17 16:24	04/28/17 16:24	DWR
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975021	1	04/29/17 08:26	04/29/17 08:26	BMB
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG974616	1	04/27/17 18:36	04/29/17 03:52	DMG

EB-EP-03 L905300-23 GW

Collected by: Scott Ude-HMI Team
Collected date/time: 04/25/17 12:50
Received date/time: 04/27/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG974888	1	04/30/17 11:38	04/30/17 12:15	MMF
Wet Chemistry by Method 353.2	WG974945	1	05/01/17 16:11	05/01/17 16:11	DR
Wet Chemistry by Method 9056A	WG975157	1	04/30/17 22:54	04/30/17 22:54	KCF
Metals (ICPMS) by Method 6020	WG974740	1	05/01/17 18:51	05/02/17 02:53	LAT
Metals (ICPMS) by Method 6020	WG974743	1	05/03/17 17:36	05/04/17 16:55	LAT
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG974800	1	04/28/17 16:45	04/28/17 16:45	DWR
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975021	1	04/29/17 08:42	04/29/17 08:42	BMB
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG974616	1	04/27/17 18:36	04/29/17 17:33	TH

TRIP BLANK-EP-02 L905300-24 GW

Collected by	Collected date/time	Received date/time
Scott Ude-HMI Team	04/25/17 00:00	04/27/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975021	1	04/29/17 03:22	04/29/17 03:22	BMB

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times. 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
Technical Service Representative

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Dissolved Solids	5630		2.82	10.0	1	04/28/2017 14:27	WG974601

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	0.0820	J	0.0197	0.100	1	04/28/2017 12:19	WG974561

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	1500		5.19	100	100	04/28/2017 19:55	WG974574
Fluoride	11.4		0.990	10.0	100	04/28/2017 19:55	WG974574
Sulfate	2380		7.74	500	100	04/28/2017 19:55	WG974574

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.0468		0.000250	0.00200	1	04/30/2017 22:06	WG974645
Arsenic,Dissolved	0.0326		0.000250	0.00200	1	05/01/2017 21:59	WG974737
Barium	0.0273		0.000360	0.00500	1	04/30/2017 22:06	WG974645
Barium,Dissolved	0.0260		0.000360	0.00500	1	05/01/2017 21:59	WG974737
Calcium	347		0.0460	1.00	1	04/30/2017 22:06	WG974645
Chromium	0.00182	J	0.000540	0.00200	1	04/30/2017 22:06	WG974645
Chromium,Dissolved	U		0.000540	0.00200	1	05/01/2017 21:59	WG974737
Iron	0.792		0.0150	0.100	1	04/30/2017 22:06	WG974645
Iron,Dissolved	0.0479	J	0.0150	0.100	1	05/01/2017 21:59	WG974737
Lead	0.000744	J	0.000240	0.00200	1	05/02/2017 12:25	WG974645
Lead,Dissolved	U		0.000240	0.00200	1	05/01/2017 21:59	WG974737
Manganese	2.02		0.000250	0.00500	1	04/30/2017 22:06	WG974645
Manganese,Dissolved	1.97	V	0.000250	0.00500	1	05/01/2017 21:59	WG974737
Potassium	8.92		0.0370	1.00	1	04/30/2017 22:06	WG974645
Selenium	0.00137	J	0.000380	0.00200	1	04/30/2017 22:06	WG974645
Selenium,Dissolved	0.00125	J	0.000380	0.00200	1	05/01/2017 21:59	WG974737
Sodium	1400		1.10	10.0	10	05/01/2017 15:34	WG974645

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	0.660		0.0314	0.100	1	04/28/2017 01:48	WG974712
(S) a,a,a-Trifluorotoluene(FID)	*113*			*77.0-122*		*04/28/2017 01:48*	WG974712

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		0.0100	0.0500	1	04/29/2017 00:17	WG975016
Benzene	U		0.000331	0.00100	1	04/29/2017 00:17	WG975016
Bromodichloromethane	U		0.000380	0.00100	1	04/29/2017 00:17	WG975016
Bromoform	U		0.000469	0.00100	1	04/29/2017 00:17	WG975016
Bromomethane	U		0.000866	0.00500	1	04/29/2017 00:17	WG975016
n-Butylbenzene	U		0.000361	0.00100	1	04/29/2017 00:17	WG975016
sec-Butylbenzene	U		0.000365	0.00100	1	04/29/2017 00:17	WG975016
Carbon disulfide	U		0.000275	0.00100	1	04/29/2017 00:17	WG975016
Carbon tetrachloride	U		0.000379	0.00100	1	04/29/2017 00:17	WG975016

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		0.000348	0.00100	1	04/29/2017 00:17	WG975016
Chlorodibromomethane	U		0.000327	0.00100	1	04/29/2017 00:17	WG975016
Chloroethane	U		0.000453	0.00500	1	04/29/2017 00:17	WG975016
Chloroform	U		0.000324	0.00500	1	04/29/2017 00:17	WG975016
Chloromethane	U		0.000276	0.00250	1	04/29/2017 00:17	WG975016
1,2-Dibromoethane	U		0.000381	0.00100	1	04/29/2017 00:17	WG975016
1,1-Dichloroethane	U		0.000259	0.00100	1	04/29/2017 00:17	WG975016
1,2-Dichloroethane	U		0.000361	0.00100	1	04/29/2017 00:17	WG975016
1,1-Dichloroethene	U		0.000398	0.00100	1	04/29/2017 00:17	WG975016
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	04/29/2017 00:17	WG975016
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	04/29/2017 00:17	WG975016
1,2-Dichloropropane	U		0.000306	0.00100	1	04/29/2017 00:17	WG975016
cis-1,3-Dichloropropene	U		0.000418	0.00100	1	04/29/2017 00:17	WG975016
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	04/29/2017 00:17	WG975016
Ethylbenzene	U		0.000384	0.00100	1	04/29/2017 00:17	WG975016
Isopropylbenzene	U		0.000326	0.00100	1	04/29/2017 00:17	WG975016
p-Isopropyltoluene	U		0.000350	0.00100	1	04/29/2017 00:17	WG975016
2-Butanone (MEK)	U		0.00393	0.0100	1	04/29/2017 00:17	WG975016
2-Hexanone	U		0.00382	0.0100	1	04/29/2017 00:17	WG975016
Methylene Chloride	U		0.00100	0.00500	1	04/29/2017 00:17	WG975016
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	04/29/2017 00:17	WG975016
Methyl tert-butyl ether	U		0.000367	0.00100	1	04/29/2017 00:17	WG975016
Naphthalene	U	J4	0.00100	0.00500	1	04/29/2017 00:17	WG975016
n-Propylbenzene	U		0.000349	0.00100	1	04/29/2017 00:17	WG975016
Styrene	U		0.000307	0.00100	1	04/29/2017 00:17	WG975016
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	04/29/2017 00:17	WG975016
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	04/29/2017 00:17	WG975016
Tetrachloroethene	U		0.000372	0.00100	1	04/29/2017 00:17	WG975016
Toluene	U		0.000412	0.00100	1	04/29/2017 00:17	WG975016
1,1,1-Trichloroethane	U		0.000319	0.00100	1	04/29/2017 00:17	WG975016
1,1,2-Trichloroethane	U		0.000383	0.00100	1	04/29/2017 00:17	WG975016
Trichloroethene	U		0.000398	0.00100	1	04/29/2017 00:17	WG975016
1,2,4-Trimethylbenzene	U		0.000373	0.00100	1	04/29/2017 00:17	WG975016
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	04/29/2017 00:17	WG975016
Vinyl chloride	U		0.000259	0.00100	1	04/29/2017 00:17	WG975016
o-Xylene	U		0.000341	0.00100	1	04/29/2017 00:17	WG975016
m&p-Xylene	U		0.000719	0.00200	1	04/29/2017 00:17	WG975016
Xylenes, Total	U		0.00106	0.00300	1	04/29/2017 00:17	WG975016
(S) Toluene-d8	*103*			*80.0-120*		*04/29/2017 00:17*	WG975016
(S) Dibromofluoromethane	*98.6*			*76.0-123*		*04/29/2017 00:17*	WG975016
(S) 4-Bromofluorobenzene	*103*			*80.0-120*		*04/29/2017 00:17*	WG975016

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	6.40		0.124	0.500	5	04/28/2017 23:16	WG974613
(S) o-Terphenyl	*97.0*			*31.0-160*		*04/28/2017 23:16*	WG974613

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Dissolved Solids	9080		2.82	10.0	1	04/28/2017 14:27	WG974601

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	55.7		0.394	2.00	20	04/28/2017 12:20	WG974561

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	2030		5.19	100	100	04/28/2017 20:30	WG974574
Fluoride	7.23		0.00990	0.100	1	04/28/2017 20:12	WG974574
Sulfate	4490		7.74	500	100	04/28/2017 20:30	WG974574

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.0672		0.000250	0.00200	1	04/30/2017 22:10	WG974645
Arsenic,Dissolved	0.0689		0.000250	0.00200	1	05/01/2017 22:33	WG974737
Barium	0.0132		0.000360	0.00500	1	04/30/2017 22:10	WG974645
Barium,Dissolved	0.0136		0.000360	0.00500	1	05/01/2017 22:33	WG974737
Calcium	557		0.0460	1.00	1	04/30/2017 22:10	WG974645
Chromium	U		0.000540	0.00200	1	04/30/2017 22:10	WG974645
Chromium,Dissolved	U		0.000540	0.00200	1	05/01/2017 22:33	WG974737
Iron	0.0369	J	0.0150	0.100	1	04/30/2017 22:10	WG974645
Iron,Dissolved	U		0.0150	0.100	1	05/01/2017 22:33	WG974737
Lead	U		0.000240	0.00200	1	05/02/2017 12:29	WG974645
Lead,Dissolved	U		0.000240	0.00200	1	05/01/2017 22:33	WG974737
Manganese	1.04		0.000250	0.00500	1	04/30/2017 22:10	WG974645
Manganese,Dissolved	1.07		0.000250	0.00500	1	05/01/2017 22:33	WG974737
Potassium	39.9		0.0370	1.00	1	04/30/2017 22:10	WG974645
Selenium	0.156		0.000380	0.00200	1	04/30/2017 22:10	WG974645
Selenium,Dissolved	0.165		0.000380	0.00200	1	05/01/2017 22:33	WG974737
Sodium	2690		2.20	20.0	20	05/01/2017 15:38	WG974645

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	1.01		0.0314	0.100	1	04/28/2017 02:12	WG974712
(S) a,a,a-Trifluorotoluene(FID)	*112*			*77.0-122*		*04/28/2017 02:12*	WG974712

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		0.0100	0.0500	1	04/29/2017 00:34	WG975016
Benzene	U		0.000331	0.00100	1	04/29/2017 00:34	WG975016
Bromodichloromethane	U		0.000380	0.00100	1	04/29/2017 00:34	WG975016
Bromoform	U		0.000469	0.00100	1	04/29/2017 00:34	WG975016
Bromomethane	U		0.000866	0.00500	1	04/29/2017 00:34	WG975016
n-Butylbenzene	U		0.000361	0.00100	1	04/29/2017 00:34	WG975016
sec-Butylbenzene	U		0.000365	0.00100	1	04/29/2017 00:34	WG975016
Carbon disulfide	U		0.000275	0.00100	1	04/29/2017 00:34	WG975016
Carbon tetrachloride	U		0.000379	0.00100	1	04/29/2017 00:34	WG975016

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chlorobenzene	U		0.000348	0.00100	1	04/29/2017 00:34	WG975016
Chlorodibromomethane	U		0.000327	0.00100	1	04/29/2017 00:34	WG975016
Chloroethane	U		0.000453	0.00500	1	04/29/2017 00:34	WG975016
Chloroform	U		0.000324	0.00500	1	04/29/2017 00:34	WG975016
Chloromethane	U		0.000276	0.00250	1	04/29/2017 00:34	WG975016
1,2-Dibromoethane	U		0.000381	0.00100	1	04/29/2017 00:34	WG975016
1,1-Dichloroethane	U		0.000259	0.00100	1	04/29/2017 00:34	WG975016
1,2-Dichloroethane	U		0.000361	0.00100	1	04/29/2017 00:34	WG975016
1,1-Dichloroethene	U		0.000398	0.00100	1	04/29/2017 00:34	WG975016
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	04/29/2017 00:34	WG975016
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	04/29/2017 00:34	WG975016
1,2-Dichloropropane	U		0.000306	0.00100	1	04/29/2017 00:34	WG975016
cis-1,3-Dichloropropene	U		0.000418	0.00100	1	04/29/2017 00:34	WG975016
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	04/29/2017 00:34	WG975016
Ethylbenzene	U		0.000384	0.00100	1	04/29/2017 00:34	WG975016
Isopropylbenzene	U		0.000326	0.00100	1	04/29/2017 00:34	WG975016
p-Isopropyltoluene	U		0.000350	0.00100	1	04/29/2017 00:34	WG975016
2-Butanone (MEK)	U		0.00393	0.0100	1	04/29/2017 00:34	WG975016
2-Hexanone	U		0.00382	0.0100	1	04/29/2017 00:34	WG975016
Methylene Chloride	U		0.00100	0.00500	1	04/29/2017 00:34	WG975016
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	04/29/2017 00:34	WG975016
Methyl tert-butyl ether	0.000473	J	0.000367	0.00100	1	04/29/2017 00:34	WG975016
Naphthalene	U	J4	0.00100	0.00500	1	04/29/2017 00:34	WG975016
n-Propylbenzene	U		0.000349	0.00100	1	04/29/2017 00:34	WG975016
Styrene	U		0.000307	0.00100	1	04/29/2017 00:34	WG975016
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	04/29/2017 00:34	WG975016
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	04/29/2017 00:34	WG975016
Tetrachloroethene	U		0.000372	0.00100	1	04/29/2017 00:34	WG975016
Toluene	U		0.000412	0.00100	1	04/29/2017 00:34	WG975016
1,1,1-Trichloroethane	U		0.000319	0.00100	1	04/29/2017 00:34	WG975016
1,1,2-Trichloroethane	U		0.000383	0.00100	1	04/29/2017 00:34	WG975016
Trichloroethene	U		0.000398	0.00100	1	04/29/2017 00:34	WG975016
1,2,4-Trimethylbenzene	0.000893	J	0.000373	0.00100	1	04/29/2017 00:34	WG975016
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	04/29/2017 00:34	WG975016
Vinyl chloride	U		0.000259	0.00100	1	04/29/2017 00:34	WG975016
o-Xylene	U		0.000341	0.00100	1	04/29/2017 00:34	WG975016
m&p-Xylene	U		0.000719	0.00200	1	04/29/2017 00:34	WG975016
Xylenes, Total	U		0.00106	0.00300	1	04/29/2017 00:34	WG975016
(S) Toluene-d8	*101*			*80.0-120*		*04/29/2017 00:34*	WG975016
(S) Dibromofluoromethane	*98.4*			*76.0-123*		*04/29/2017 00:34*	WG975016
(S) 4-Bromofluorobenzene	*103*			*80.0-120*		*04/29/2017 00:34*	WG975016

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	31.5		0.124	0.500	5	04/28/2017 23:33	WG974613
(S) o-Terphenyl	*95.0*			*31.0-160*		*04/28/2017 23:33*	WG974613

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Dissolved Solids	8880		2.82	10.0	1	04/28/2017 14:27	WG974601

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	0.313		0.0197	0.100	1	04/28/2017 12:21	WG974561

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	2390		5.19	100	100	04/28/2017 21:04	WG974574
Fluoride	2.11		0.00990	0.100	1	04/28/2017 20:47	WG974574
Sulfate	3940		7.74	500	100	04/28/2017 21:04	WG974574

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.0650		0.000250	0.00200	1	04/30/2017 22:13	WG974645
Arsenic,Dissolved	0.0642		0.000250	0.00200	1	05/01/2017 22:37	WG974737
Barium	0.00734		0.000360	0.00500	1	04/30/2017 22:13	WG974645
Barium,Dissolved	0.00740		0.000360	0.00500	1	05/01/2017 22:37	WG974737
Calcium	571		0.0460	1.00	1	04/30/2017 22:13	WG974645
Chromium	U		0.000540	0.00200	1	04/30/2017 22:13	WG974645
Chromium,Dissolved	U		0.000540	0.00200	1	05/01/2017 22:37	WG974737
Iron	1.92		0.0150	0.100	1	04/30/2017 22:13	WG974645
Iron,Dissolved	0.0403	J	0.0150	0.100	1	05/01/2017 22:37	WG974737
Lead	U		0.000240	0.00200	1	05/02/2017 12:33	WG974645
Lead,Dissolved	U		0.000240	0.00200	1	05/01/2017 22:37	WG974737
Manganese	0.187		0.000250	0.00500	1	04/30/2017 22:13	WG974645
Manganese,Dissolved	0.222		0.000250	0.00500	1	05/01/2017 22:37	WG974737
Potassium	2.55		0.0370	1.00	1	04/30/2017 22:13	WG974645
Selenium	0.00184	J	0.000380	0.00200	1	04/30/2017 22:13	WG974645
Selenium,Dissolved	0.00189	J	0.000380	0.00200	1	05/01/2017 22:37	WG974737
Sodium	2690		2.20	20.0	20	05/01/2017 15:41	WG974645

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	0.367		0.0314	0.100	1	04/28/2017 02:37	WG974712
(S) a,a,a-Trifluorotoluene(FID)	*112*			*77.0-122*		*04/28/2017 02:37*	WG974712

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		0.0100	0.0500	1	04/29/2017 00:51	WG975016
Benzene	U		0.000331	0.00100	1	04/29/2017 00:51	WG975016
Bromodichloromethane	U		0.000380	0.00100	1	04/29/2017 00:51	WG975016
Bromoform	U		0.000469	0.00100	1	04/29/2017 00:51	WG975016
Bromomethane	U		0.000866	0.00500	1	04/29/2017 00:51	WG975016
n-Butylbenzene	U		0.000361	0.00100	1	04/29/2017 00:51	WG975016
sec-Butylbenzene	U		0.000365	0.00100	1	04/29/2017 00:51	WG975016
Carbon disulfide	U		0.000275	0.00100	1	04/29/2017 00:51	WG975016
Carbon tetrachloride	U		0.000379	0.00100	1	04/29/2017 00:51	WG975016

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chlorobenzene	U		0.000348	0.00100	1	04/29/2017 00:51	WG975016
Chlorodibromomethane	U		0.000327	0.00100	1	04/29/2017 00:51	WG975016
Chloroethane	U		0.000453	0.00500	1	04/29/2017 00:51	WG975016
Chloroform	U		0.000324	0.00500	1	04/29/2017 00:51	WG975016
Chloromethane	U		0.000276	0.00250	1	04/29/2017 00:51	WG975016
1,2-Dibromoethane	U		0.000381	0.00100	1	04/29/2017 00:51	WG975016
1,1-Dichloroethane	U		0.000259	0.00100	1	04/29/2017 00:51	WG975016
1,2-Dichloroethane	U		0.000361	0.00100	1	04/29/2017 00:51	WG975016
1,1-Dichloroethene	U		0.000398	0.00100	1	04/29/2017 00:51	WG975016
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	04/29/2017 00:51	WG975016
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	04/29/2017 00:51	WG975016
1,2-Dichloropropane	U		0.000306	0.00100	1	04/29/2017 00:51	WG975016
cis-1,3-Dichloropropene	U		0.000418	0.00100	1	04/29/2017 00:51	WG975016
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	04/29/2017 00:51	WG975016
Ethylbenzene	U		0.000384	0.00100	1	04/29/2017 00:51	WG975016
Isopropylbenzene	U		0.000326	0.00100	1	04/29/2017 00:51	WG975016
p-Isopropyltoluene	U		0.000350	0.00100	1	04/29/2017 00:51	WG975016
2-Butanone (MEK)	U		0.00393	0.0100	1	04/29/2017 00:51	WG975016
2-Hexanone	U		0.00382	0.0100	1	04/29/2017 00:51	WG975016
Methylene Chloride	U		0.00100	0.00500	1	04/29/2017 00:51	WG975016
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	04/29/2017 00:51	WG975016
Methyl tert-butyl ether	0.00120		0.000367	0.00100	1	04/29/2017 00:51	WG975016
Naphthalene	U	J4	0.00100	0.00500	1	04/29/2017 00:51	WG975016
n-Propylbenzene	U		0.000349	0.00100	1	04/29/2017 00:51	WG975016
Styrene	U		0.000307	0.00100	1	04/29/2017 00:51	WG975016
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	04/29/2017 00:51	WG975016
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	04/29/2017 00:51	WG975016
Tetrachloroethene	U		0.000372	0.00100	1	04/29/2017 00:51	WG975016
Toluene	U		0.000412	0.00100	1	04/29/2017 00:51	WG975016
1,1,1-Trichloroethane	U		0.000319	0.00100	1	04/29/2017 00:51	WG975016
1,1,2-Trichloroethane	U		0.000383	0.00100	1	04/29/2017 00:51	WG975016
Trichloroethene	U		0.000398	0.00100	1	04/29/2017 00:51	WG975016
1,2,4-Trimethylbenzene	U		0.000373	0.00100	1	04/29/2017 00:51	WG975016
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	04/29/2017 00:51	WG975016
Vinyl chloride	U		0.000259	0.00100	1	04/29/2017 00:51	WG975016
o-Xylene	U		0.000341	0.00100	1	04/29/2017 00:51	WG975016
m&p-Xylene	U		0.000719	0.00200	1	04/29/2017 00:51	WG975016
Xylenes, Total	U		0.00106	0.00300	1	04/29/2017 00:51	WG975016
(S) Toluene-d8	*102*			*80.0-120*		*04/29/2017 00:51*	WG975016
(S) Dibromofluoromethane	*98.6*			*76.0-123*		*04/29/2017 00:51*	WG975016
(S) 4-Bromofluorobenzene	*103*			*80.0-120*		*04/29/2017 00:51*	WG975016

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	3.68		0.0247	0.100	1	04/28/2017 20:45	WG974613
(S) o-Terphenyl	*100*			*31.0-160*		*04/28/2017 20:45*	WG974613

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Dissolved Solids	9140		2.82	10.0	1	04/28/2017 14:27	WG974601

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	1.56		0.0197	0.100	1	05/01/2017 15:21	WG974941

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	3460		5.19	100	100	04/28/2017 23:59	WG974574
Fluoride	6.25		0.00990	0.100	1	04/28/2017 23:41	WG974574
Sulfate	2950		7.74	500	100	04/28/2017 23:59	WG974574

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.0164		0.000250	0.00200	1	04/30/2017 22:17	WG974645
Arsenic,Dissolved	0.0151		0.000250	0.00200	1	05/01/2017 22:40	WG974737
Barium	0.0213		0.000360	0.00500	1	04/30/2017 22:17	WG974645
Barium,Dissolved	0.0217		0.000360	0.00500	1	05/01/2017 22:40	WG974737
Calcium	670		0.0460	1.00	1	04/30/2017 22:17	WG974645
Chromium	U		0.000540	0.00200	1	04/30/2017 22:17	WG974645
Chromium,Dissolved	U		0.000540	0.00200	1	05/01/2017 22:40	WG974737
Iron	1.62		0.0150	0.100	1	04/30/2017 22:17	WG974645
Iron,Dissolved	U		0.0150	0.100	1	05/01/2017 22:40	WG974737
Lead	U		0.000240	0.00200	1	05/02/2017 13:04	WG974645
Lead,Dissolved	U		0.000240	0.00200	1	05/01/2017 22:40	WG974737
Manganese	3.88		0.000250	0.00500	1	04/30/2017 22:17	WG974645
Manganese,Dissolved	4.20		0.000250	0.00500	1	05/01/2017 22:40	WG974737
Potassium	9.30		0.0370	1.00	1	04/30/2017 22:17	WG974645
Selenium	0.00210		0.000380	0.00200	1	04/30/2017 22:17	WG974645
Selenium,Dissolved	0.00180	J	0.000380	0.00200	1	05/01/2017 22:40	WG974737
Sodium	2510		2.20	20.0	20	05/01/2017 15:45	WG974645

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	0.118		0.0314	0.100	1	04/28/2017 03:01	WG974712
(S) a,a,a-Trifluorotoluene(FID)	*112*			*77.0-122*		*04/28/2017 03:01*	WG974712

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		0.0100	0.0500	1	04/29/2017 01:07	WG975016
Benzene	U		0.000331	0.00100	1	04/29/2017 01:07	WG975016
Bromodichloromethane	U		0.000380	0.00100	1	04/29/2017 01:07	WG975016
Bromoform	U		0.000469	0.00100	1	04/29/2017 01:07	WG975016
Bromomethane	U		0.000866	0.00500	1	04/29/2017 01:07	WG975016
n-Butylbenzene	U		0.000361	0.00100	1	04/29/2017 01:07	WG975016
sec-Butylbenzene	U		0.000365	0.00100	1	04/29/2017 01:07	WG975016
Carbon disulfide	U		0.000275	0.00100	1	04/29/2017 01:07	WG975016
Carbon tetrachloride	U		0.000379	0.00100	1	04/29/2017 01:07	WG975016

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chlorobenzene	U		0.000348	0.00100	1	04/29/2017 01:07	WG975016
Chlorodibromomethane	U		0.000327	0.00100	1	04/29/2017 01:07	WG975016
Chloroethane	U		0.000453	0.00500	1	04/29/2017 01:07	WG975016
Chloroform	U		0.000324	0.00500	1	04/29/2017 01:07	WG975016
Chloromethane	U		0.000276	0.00250	1	04/29/2017 01:07	WG975016
1,2-Dibromoethane	U		0.000381	0.00100	1	04/29/2017 01:07	WG975016
1,1-Dichloroethane	U		0.000259	0.00100	1	04/29/2017 01:07	WG975016
1,2-Dichloroethane	U		0.000361	0.00100	1	04/29/2017 01:07	WG975016
1,1-Dichloroethene	U		0.000398	0.00100	1	04/29/2017 01:07	WG975016
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	04/29/2017 01:07	WG975016
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	04/29/2017 01:07	WG975016
1,2-Dichloropropane	U		0.000306	0.00100	1	04/29/2017 01:07	WG975016
cis-1,3-Dichloropropene	U		0.000418	0.00100	1	04/29/2017 01:07	WG975016
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	04/29/2017 01:07	WG975016
Ethylbenzene	U		0.000384	0.00100	1	04/29/2017 01:07	WG975016
Isopropylbenzene	U		0.000326	0.00100	1	04/29/2017 01:07	WG975016
p-Isopropyltoluene	U		0.000350	0.00100	1	04/29/2017 01:07	WG975016
2-Butanone (MEK)	U		0.00393	0.0100	1	04/29/2017 01:07	WG975016
2-Hexanone	U		0.00382	0.0100	1	04/29/2017 01:07	WG975016
Methylene Chloride	U		0.00100	0.00500	1	04/29/2017 01:07	WG975016
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	04/29/2017 01:07	WG975016
Methyl tert-butyl ether	U		0.000367	0.00100	1	04/29/2017 01:07	WG975016
Naphthalene	U	J4	0.00100	0.00500	1	04/29/2017 01:07	WG975016
n-Propylbenzene	U		0.000349	0.00100	1	04/29/2017 01:07	WG975016
Styrene	U		0.000307	0.00100	1	04/29/2017 01:07	WG975016
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	04/29/2017 01:07	WG975016
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	04/29/2017 01:07	WG975016
Tetrachloroethene	U		0.000372	0.00100	1	04/29/2017 01:07	WG975016
Toluene	U		0.000412	0.00100	1	04/29/2017 01:07	WG975016
1,1,1-Trichloroethane	U		0.000319	0.00100	1	04/29/2017 01:07	WG975016
1,1,2-Trichloroethane	U		0.000383	0.00100	1	04/29/2017 01:07	WG975016
Trichloroethene	U		0.000398	0.00100	1	04/29/2017 01:07	WG975016
1,2,4-Trimethylbenzene	U		0.000373	0.00100	1	04/29/2017 01:07	WG975016
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	04/29/2017 01:07	WG975016
Vinyl chloride	U		0.000259	0.00100	1	04/29/2017 01:07	WG975016
o-Xylene	U		0.000341	0.00100	1	04/29/2017 01:07	WG975016
m&p-Xylene	U		0.000719	0.00200	1	04/29/2017 01:07	WG975016
Xylenes, Total	U		0.00106	0.00300	1	04/29/2017 01:07	WG975016
(S) Toluene-d8	*102*			*80.0-120*		*04/29/2017 01:07*	WG975016
(S) Dibromofluoromethane	*96.3*			*76.0-123*		*04/29/2017 01:07*	WG975016
(S) 4-Bromofluorobenzene	*101*			*80.0-120*		*04/29/2017 01:07*	WG975016

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	1.03		0.0247	0.100	1	04/28/2017 21:02	WG974613
(S) o-Terphenyl	*96.7*			*31.0-160*		*04/28/2017 21:02*	WG974613

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Dissolved Solids	11000		2.82	10.0	1	04/28/2017 14:27	WG974601

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	1.02		0.0197	0.100	1	05/01/2017 15:27	WG974941

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	4030		5.19	100	100	04/29/2017 00:16	WG974574
Fluoride	2.39		0.00990	0.100	1	04/29/2017 01:08	WG974574
Sulfate	2570		7.74	500	100	04/29/2017 00:16	WG974574

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.00911		0.000250	0.00200	1	04/30/2017 22:20	WG974645
Arsenic,Dissolved	0.00705		0.000250	0.00200	1	05/01/2017 22:44	WG974737
Barium	0.0222		0.000360	0.00500	1	04/30/2017 22:20	WG974645
Barium,Dissolved	0.0224		0.000360	0.00500	1	05/01/2017 22:44	WG974737
Calcium	834		0.0460	1.00	1	04/30/2017 22:20	WG974645
Chromium	U		0.000540	0.00200	1	04/30/2017 22:20	WG974645
Chromium,Dissolved	U		0.000540	0.00200	1	05/01/2017 22:44	WG974737
Iron	2.28		0.0150	0.100	1	04/30/2017 22:20	WG974645
Iron,Dissolved	U		0.0150	0.100	1	05/01/2017 22:44	WG974737
Lead	U		0.000240	0.00200	1	05/02/2017 13:08	WG974645
Lead,Dissolved	U		0.000240	0.00200	1	05/01/2017 22:44	WG974737
Manganese	2.09		0.000250	0.00500	1	04/30/2017 22:20	WG974645
Manganese,Dissolved	2.20		0.000250	0.00500	1	05/01/2017 22:44	WG974737
Potassium	15.8		0.0370	1.00	1	04/30/2017 22:20	WG974645
Selenium	0.000598	J	0.000380	0.00200	1	04/30/2017 22:20	WG974645
Selenium,Dissolved	0.000614	J	0.000380	0.00200	1	05/01/2017 22:44	WG974737
Sodium	2870		2.20	20.0	20	05/01/2017 15:48	WG974645

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	0.199		0.0314	0.100	1	04/28/2017 03:25	WG974712
(S) a,a,a-Trifluorotoluene(FID)	*112*			*77.0-122*		*04/28/2017 03:25*	WG974712

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		0.0100	0.0500	1	04/29/2017 01:24	WG975016
Benzene	U		0.000331	0.00100	1	04/29/2017 01:24	WG975016
Bromodichloromethane	U		0.000380	0.00100	1	04/29/2017 01:24	WG975016
Bromoform	U		0.000469	0.00100	1	04/29/2017 01:24	WG975016
Bromomethane	U		0.000866	0.00500	1	04/29/2017 01:24	WG975016
n-Butylbenzene	U		0.000361	0.00100	1	04/29/2017 01:24	WG975016
sec-Butylbenzene	U		0.000365	0.00100	1	04/29/2017 01:24	WG975016
Carbon disulfide	U		0.000275	0.00100	1	04/29/2017 01:24	WG975016
Carbon tetrachloride	U		0.000379	0.00100	1	04/29/2017 01:24	WG975016

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chlorobenzene	U		0.000348	0.00100	1	04/29/2017 01:24	WG975016
Chlorodibromomethane	U		0.000327	0.00100	1	04/29/2017 01:24	WG975016
Chloroethane	U		0.000453	0.00500	1	04/29/2017 01:24	WG975016
Chloroform	U		0.000324	0.00500	1	04/29/2017 01:24	WG975016
Chloromethane	U		0.000276	0.00250	1	04/29/2017 01:24	WG975016
1,2-Dibromoethane	U		0.000381	0.00100	1	04/29/2017 01:24	WG975016
1,1-Dichloroethane	U		0.000259	0.00100	1	04/29/2017 01:24	WG975016
1,2-Dichloroethane	U		0.000361	0.00100	1	04/29/2017 01:24	WG975016
1,1-Dichloroethene	U		0.000398	0.00100	1	04/29/2017 01:24	WG975016
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	04/29/2017 01:24	WG975016
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	04/29/2017 01:24	WG975016
1,2-Dichloropropane	U		0.000306	0.00100	1	04/29/2017 01:24	WG975016
cis-1,3-Dichloropropene	U		0.000418	0.00100	1	04/29/2017 01:24	WG975016
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	04/29/2017 01:24	WG975016
Ethylbenzene	U		0.000384	0.00100	1	04/29/2017 01:24	WG975016
Isopropylbenzene	U		0.000326	0.00100	1	04/29/2017 01:24	WG975016
p-Isopropyltoluene	U		0.000350	0.00100	1	04/29/2017 01:24	WG975016
2-Butanone (MEK)	U		0.00393	0.0100	1	04/29/2017 01:24	WG975016
2-Hexanone	U		0.00382	0.0100	1	04/29/2017 01:24	WG975016
Methylene Chloride	U		0.00100	0.00500	1	04/29/2017 01:24	WG975016
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	04/29/2017 01:24	WG975016
Methyl tert-butyl ether	U		0.000367	0.00100	1	04/29/2017 01:24	WG975016
Naphthalene	U	J4	0.00100	0.00500	1	04/29/2017 01:24	WG975016
n-Propylbenzene	U		0.000349	0.00100	1	04/29/2017 01:24	WG975016
Styrene	U		0.000307	0.00100	1	04/29/2017 01:24	WG975016
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	04/29/2017 01:24	WG975016
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	04/29/2017 01:24	WG975016
Tetrachloroethene	U		0.000372	0.00100	1	04/29/2017 01:24	WG975016
Toluene	U		0.000412	0.00100	1	04/29/2017 01:24	WG975016
1,1,1-Trichloroethane	U		0.000319	0.00100	1	04/29/2017 01:24	WG975016
1,1,2-Trichloroethane	U		0.000383	0.00100	1	04/29/2017 01:24	WG975016
Trichloroethene	U		0.000398	0.00100	1	04/29/2017 01:24	WG975016
1,2,4-Trimethylbenzene	U		0.000373	0.00100	1	04/29/2017 01:24	WG975016
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	04/29/2017 01:24	WG975016
Vinyl chloride	U		0.000259	0.00100	1	04/29/2017 01:24	WG975016
o-Xylene	U		0.000341	0.00100	1	04/29/2017 01:24	WG975016
m&p-Xylene	U		0.000719	0.00200	1	04/29/2017 01:24	WG975016
Xylenes, Total	U		0.00106	0.00300	1	04/29/2017 01:24	WG975016
(S) Toluene-d8	*102*			*80.0-120*		*04/29/2017 01:24*	WG975016
(S) Dibromofluoromethane	*98.1*			*76.0-123*		*04/29/2017 01:24*	WG975016
(S) 4-Bromofluorobenzene	*103*			*80.0-120*		*04/29/2017 01:24*	WG975016

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	0.858		0.0247	0.100	1	04/28/2017 21:19	WG974613
(S) o-Terphenyl	*94.3*			*31.0-160*		*04/28/2017 21:19*	WG974613

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Dissolved Solids	8960		2.82	10.0	1	04/28/2017 14:27	WG974601

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	0.0420	J	0.0197	0.100	1	05/01/2017 15:28	WG974941

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	2550		5.19	100	100	04/29/2017 02:18	WG974574
Fluoride	2.72		0.00990	0.100	1	04/29/2017 01:26	WG974574
Sulfate	3970		7.74	500	100	04/29/2017 02:18	WG974574

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.113		0.000250	0.00200	1	04/30/2017 22:24	WG974645
Arsenic,Dissolved	0.105		0.000250	0.00200	1	05/01/2017 22:47	WG974737
Barium	0.0134		0.000360	0.00500	1	04/30/2017 22:24	WG974645
Barium,Dissolved	0.0135		0.000360	0.00500	1	05/01/2017 22:47	WG974737
Calcium	600		0.0460	1.00	1	04/30/2017 22:24	WG974645
Chromium	U		0.000540	0.00200	1	04/30/2017 22:24	WG974645
Chromium,Dissolved	U		0.000540	0.00200	1	05/01/2017 22:47	WG974737
Iron	1.77		0.0150	0.100	1	04/30/2017 22:24	WG974645
Iron,Dissolved	0.0872	J	0.0150	0.100	1	05/01/2017 22:47	WG974737
Lead	U		0.000240	0.00200	1	05/02/2017 13:11	WG974645
Lead,Dissolved	U		0.000240	0.00200	1	05/01/2017 22:47	WG974737
Manganese	2.14		0.000250	0.00500	1	04/30/2017 22:24	WG974645
Manganese,Dissolved	2.22		0.000250	0.00500	1	05/01/2017 22:47	WG974737
Potassium	5.59		0.0370	1.00	1	04/30/2017 22:24	WG974645
Selenium	0.00141	J	0.000380	0.00200	1	04/30/2017 22:24	WG974645
Selenium,Dissolved	0.00167	J	0.000380	0.00200	1	05/01/2017 22:47	WG974737
Sodium	2870		2.20	20.0	20	05/01/2017 15:52	WG974645

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	0.710		0.0314	0.100	1	04/28/2017 03:50	WG974712
(S) a,a,a-Trifluorotoluene(FID)	*112*			*77.0-122*		*04/28/2017 03:50*	WG974712

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		0.0100	0.0500	1	04/29/2017 01:41	WG975016
Benzene	U		0.000331	0.00100	1	04/29/2017 01:41	WG975016
Bromodichloromethane	U		0.000380	0.00100	1	04/29/2017 01:41	WG975016
Bromoform	U		0.000469	0.00100	1	04/29/2017 01:41	WG975016
Bromomethane	U		0.000866	0.00500	1	04/29/2017 01:41	WG975016
n-Butylbenzene	U		0.000361	0.00100	1	04/29/2017 01:41	WG975016
sec-Butylbenzene	U		0.000365	0.00100	1	04/29/2017 01:41	WG975016
Carbon disulfide	U		0.000275	0.00100	1	04/29/2017 01:41	WG975016
Carbon tetrachloride	U		0.000379	0.00100	1	04/29/2017 01:41	WG975016

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chlorobenzene	U		0.000348	0.00100	1	04/29/2017 01:41	WG975016
Chlorodibromomethane	U		0.000327	0.00100	1	04/29/2017 01:41	WG975016
Chloroethane	U		0.000453	0.00500	1	04/29/2017 01:41	WG975016
Chloroform	U		0.000324	0.00500	1	04/29/2017 01:41	WG975016
Chloromethane	U		0.000276	0.00250	1	04/29/2017 01:41	WG975016
1,2-Dibromoethane	U		0.000381	0.00100	1	04/29/2017 01:41	WG975016
1,1-Dichloroethane	U		0.000259	0.00100	1	04/29/2017 01:41	WG975016
1,2-Dichloroethane	U		0.000361	0.00100	1	04/29/2017 01:41	WG975016
1,1-Dichloroethene	U		0.000398	0.00100	1	04/29/2017 01:41	WG975016
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	04/29/2017 01:41	WG975016
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	04/29/2017 01:41	WG975016
1,2-Dichloropropane	U		0.000306	0.00100	1	04/29/2017 01:41	WG975016
cis-1,3-Dichloropropene	U		0.000418	0.00100	1	04/29/2017 01:41	WG975016
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	04/29/2017 01:41	WG975016
Ethylbenzene	U		0.000384	0.00100	1	04/29/2017 01:41	WG975016
Isopropylbenzene	U		0.000326	0.00100	1	04/29/2017 01:41	WG975016
p-Isopropyltoluene	U		0.000350	0.00100	1	04/29/2017 01:41	WG975016
2-Butanone (MEK)	U		0.00393	0.0100	1	04/29/2017 01:41	WG975016
2-Hexanone	U		0.00382	0.0100	1	04/29/2017 01:41	WG975016
Methylene Chloride	U		0.00100	0.00500	1	04/29/2017 01:41	WG975016
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	04/29/2017 01:41	WG975016
Methyl tert-butyl ether	0.00110		0.000367	0.00100	1	04/29/2017 01:41	WG975016
Naphthalene	U	J4	0.00100	0.00500	1	04/29/2017 01:41	WG975016
n-Propylbenzene	U		0.000349	0.00100	1	04/29/2017 01:41	WG975016
Styrene	U		0.000307	0.00100	1	04/29/2017 01:41	WG975016
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	04/29/2017 01:41	WG975016
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	04/29/2017 01:41	WG975016
Tetrachloroethene	U		0.000372	0.00100	1	04/29/2017 01:41	WG975016
Toluene	U		0.000412	0.00100	1	04/29/2017 01:41	WG975016
1,1,1-Trichloroethane	U		0.000319	0.00100	1	04/29/2017 01:41	WG975016
1,1,2-Trichloroethane	U		0.000383	0.00100	1	04/29/2017 01:41	WG975016
Trichloroethene	U		0.000398	0.00100	1	04/29/2017 01:41	WG975016
1,2,4-Trimethylbenzene	0.000840	J	0.000373	0.00100	1	04/29/2017 01:41	WG975016
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	04/29/2017 01:41	WG975016
Vinyl chloride	U		0.000259	0.00100	1	04/29/2017 01:41	WG975016
o-Xylene	U		0.000341	0.00100	1	04/29/2017 01:41	WG975016
m&p-Xylene	U		0.000719	0.00200	1	04/29/2017 01:41	WG975016
Xylenes, Total	U		0.00106	0.00300	1	04/29/2017 01:41	WG975016
(S) Toluene-d8	*102*			*80.0-120*		*04/29/2017 01:41*	WG975016
(S) Dibromofluoromethane	*96.4*			*76.0-123*		*04/29/2017 01:41*	WG975016
(S) 4-Bromofluorobenzene	*102*			*80.0-120*		*04/29/2017 01:41*	WG975016

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
TPH (GC/FID) High Fraction	4.43		0.0247	0.100	1	04/28/2017 21:36	WG974613
(S) o-Terphenyl	*99.4*			*31.0-160*		*04/28/2017 21:36*	WG974613

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Dissolved Solids	4540		2.82	10.0	1	04/28/2017 14:27	WG974601

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	U		0.0197	0.100	1	05/01/2017 15:29	WG974941

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	960		5.19	100	100	04/29/2017 02:35	WG974574
Fluoride	1.05		0.00990	0.100	1	04/29/2017 01:43	WG974574
Sulfate	2100		7.74	500	100	04/29/2017 02:35	WG974574

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.00194	J	0.000250	0.00200	1	04/30/2017 22:27	WG974645
Arsenic,Dissolved	0.00131	J	0.000250	0.00200	1	05/01/2017 22:51	WG974737
Barium	0.0179		0.000360	0.00500	1	04/30/2017 22:27	WG974645
Barium,Dissolved	0.0195		0.000360	0.00500	1	05/01/2017 22:51	WG974737
Calcium	564		0.0460	1.00	1	04/30/2017 22:27	WG974645
Chromium	U		0.000540	0.00200	1	04/30/2017 22:27	WG974645
Chromium,Dissolved	U		0.000540	0.00200	1	05/01/2017 22:51	WG974737
Iron	2.73		0.0150	0.100	1	04/30/2017 22:27	WG974645
Iron,Dissolved	U		0.0150	0.100	1	05/01/2017 22:51	WG974737
Lead	U		0.000240	0.00200	1	05/02/2017 13:15	WG974645
Lead,Dissolved	U		0.000240	0.00200	1	05/01/2017 22:51	WG974737
Manganese	0.621		0.000250	0.00500	1	04/30/2017 22:27	WG974645
Manganese,Dissolved	0.667		0.000250	0.00500	1	05/01/2017 22:51	WG974737
Potassium	11.0		0.0370	1.00	1	04/30/2017 22:27	WG974645
Selenium	U		0.000380	0.00200	1	04/30/2017 22:27	WG974645
Selenium,Dissolved	U		0.000380	0.00200	1	05/01/2017 22:51	WG974737
Sodium	629		1.10	10.0	10	05/01/2017 15:55	WG974645

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
TPH (GC/FID) Low Fraction	U		0.0314	0.100	1	04/28/2017 04:14	WG974712
(S) a,a,a-Trifluorotoluene(FID)	*112*			*77.0-122*		*04/28/2017 04:14*	WG974712

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		0.0100	0.0500	1	04/29/2017 04:13	WG975021
Benzene	U		0.000331	0.00100	1	04/29/2017 04:13	WG975021
Bromodichloromethane	U		0.000380	0.00100	1	04/29/2017 04:13	WG975021
Bromoform	U		0.000469	0.00100	1	04/29/2017 04:13	WG975021
Bromomethane	U		0.000866	0.00500	1	04/29/2017 04:13	WG975021
n-Butylbenzene	U		0.000361	0.00100	1	04/29/2017 04:13	WG975021
sec-Butylbenzene	U		0.000365	0.00100	1	04/29/2017 04:13	WG975021
Carbon disulfide	U		0.000275	0.00100	1	04/29/2017 04:13	WG975021
Carbon tetrachloride	U		0.000379	0.00100	1	04/29/2017 04:13	WG975021

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chlorobenzene	U		0.000348	0.00100	1	04/29/2017 04:13	WG975021
Chlorodibromomethane	U		0.000327	0.00100	1	04/29/2017 04:13	WG975021
Chloroethane	U		0.000453	0.00500	1	04/29/2017 04:13	WG975021
Chloroform	U		0.000324	0.00500	1	04/29/2017 04:13	WG975021
Chloromethane	U		0.000276	0.00250	1	04/29/2017 04:13	WG975021
1,2-Dibromoethane	U		0.000381	0.00100	1	04/29/2017 04:13	WG975021
1,1-Dichloroethane	U		0.000259	0.00100	1	04/29/2017 04:13	WG975021
1,2-Dichloroethane	U		0.000361	0.00100	1	04/29/2017 04:13	WG975021
1,1-Dichloroethene	U		0.000398	0.00100	1	04/29/2017 04:13	WG975021
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	04/29/2017 04:13	WG975021
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	04/29/2017 04:13	WG975021
1,2-Dichloropropane	U		0.000306	0.00100	1	04/29/2017 04:13	WG975021
cis-1,3-Dichloropropene	U		0.000418	0.00100	1	04/29/2017 04:13	WG975021
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	04/29/2017 04:13	WG975021
Ethylbenzene	U		0.000384	0.00100	1	04/29/2017 04:13	WG975021
Isopropylbenzene	U		0.000326	0.00100	1	04/29/2017 04:13	WG975021
p-Isopropyltoluene	U		0.000350	0.00100	1	04/29/2017 04:13	WG975021
2-Butanone (MEK)	U		0.00393	0.0100	1	04/29/2017 04:13	WG975021
2-Hexanone	U		0.00382	0.0100	1	04/29/2017 04:13	WG975021
Methylene Chloride	U		0.00100	0.00500	1	04/29/2017 04:13	WG975021
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	04/29/2017 04:13	WG975021
Methyl tert-butyl ether	U		0.000367	0.00100	1	04/29/2017 04:13	WG975021
Naphthalene	U		0.00100	0.00500	1	04/29/2017 04:13	WG975021
n-Propylbenzene	U		0.000349	0.00100	1	04/29/2017 04:13	WG975021
Styrene	U		0.000307	0.00100	1	04/29/2017 04:13	WG975021
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	04/29/2017 04:13	WG975021
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	04/29/2017 04:13	WG975021
Tetrachloroethene	U		0.000372	0.00100	1	04/29/2017 04:13	WG975021
Toluene	U		0.000412	0.00100	1	04/29/2017 04:13	WG975021
1,1,1-Trichloroethane	U		0.000319	0.00100	1	04/29/2017 04:13	WG975021
1,1,2-Trichloroethane	U		0.000383	0.00100	1	04/29/2017 04:13	WG975021
Trichloroethene	U		0.000398	0.00100	1	04/29/2017 04:13	WG975021
1,2,4-Trimethylbenzene	U		0.000373	0.00100	1	04/29/2017 04:13	WG975021
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	04/29/2017 04:13	WG975021
Vinyl chloride	U		0.000259	0.00100	1	04/29/2017 04:13	WG975021
o-Xylene	U		0.000341	0.00100	1	04/29/2017 04:13	WG975021
m&p-Xylene	U		0.000719	0.00200	1	04/29/2017 04:13	WG975021
Xylenes, Total	U		0.00106	0.00300	1	04/29/2017 04:13	WG975021
(S) Toluene-d8	*101*			*80.0-120*		*04/29/2017 04:13*	WG975021
(S) Dibromofluoromethane	*97.6*			*76.0-123*		*04/29/2017 04:13*	WG975021
(S) 4-Bromofluorobenzene	*98.9*			*80.0-120*		*04/29/2017 04:13*	WG975021

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	0.0746	J	0.0247	0.100	1	04/28/2017 21:52	WG974613
(S) o-Terphenyl	*94.1*			*31.0-160*		*04/28/2017 21:52*	WG974613

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Dissolved Solids	12500		2.82	10.0	1	04/28/2017 14:27	WG974601

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	0.212		0.0197	0.100	1	05/01/2017 15:31	WG974941

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	3010		5.19	100	100	04/29/2017 03:10	WG974574
Fluoride	2.92		0.00990	0.100	1	04/29/2017 02:01	WG974574
Sulfate	5840		7.74	500	100	04/29/2017 03:10	WG974574

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.149		0.000250	0.00200	1	04/30/2017 22:31	WG974645
Arsenic,Dissolved	0.0861		0.000250	0.00200	1	05/01/2017 22:55	WG974737
Barium	0.0135		0.000360	0.00500	1	04/30/2017 22:31	WG974645
Barium,Dissolved	0.0133		0.000360	0.00500	1	05/01/2017 22:55	WG974737
Calcium	439		0.0460	1.00	1	04/30/2017 22:31	WG974645
Chromium	U		0.000540	0.00200	1	04/30/2017 22:31	WG974645
Chromium,Dissolved	U		0.000540	0.00200	1	05/01/2017 22:55	WG974737
Iron	6.69		0.0150	0.100	1	04/30/2017 22:31	WG974645
Iron,Dissolved	0.0208	J	0.0150	0.100	1	05/01/2017 22:55	WG974737
Lead	U		0.000240	0.00200	1	05/02/2017 13:19	WG974645
Lead,Dissolved	U		0.000240	0.00200	1	05/01/2017 22:55	WG974737
Manganese	1.15		0.000250	0.00500	1	04/30/2017 22:31	WG974645
Manganese,Dissolved	1.23		0.000250	0.00500	1	05/01/2017 22:55	WG974737
Potassium	7.27		0.0370	1.00	1	04/30/2017 22:31	WG974645
Selenium	0.000824	J	0.000380	0.00200	1	04/30/2017 22:31	WG974645
Selenium,Dissolved	0.000895	J	0.000380	0.00200	1	05/01/2017 22:55	WG974737
Sodium	3360		2.20	20.0	20	05/01/2017 15:59	WG974645

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	3.00		0.0314	0.100	1	04/28/2017 04:38	WG974712
(S) a,a,a-Trifluorotoluene(FID)	*114*			*77.0-122*		*04/28/2017 04:38*	WG974712

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		0.0100	0.0500	1	04/29/2017 04:30	WG975021
Benzene	U		0.000331	0.00100	1	04/29/2017 04:30	WG975021
Bromodichloromethane	U		0.000380	0.00100	1	04/29/2017 04:30	WG975021
Bromoform	U		0.000469	0.00100	1	04/29/2017 04:30	WG975021
Bromomethane	U		0.000866	0.00500	1	04/29/2017 04:30	WG975021
n-Butylbenzene	U		0.000361	0.00100	1	04/29/2017 04:30	WG975021
sec-Butylbenzene	0.000425	J	0.000365	0.00100	1	04/29/2017 04:30	WG975021
Carbon disulfide	U		0.000275	0.00100	1	04/29/2017 04:30	WG975021
Carbon tetrachloride	U		0.000379	0.00100	1	04/29/2017 04:30	WG975021

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chlorobenzene	U		0.000348	0.00100	1	04/29/2017 04:30	WG975021
Chlorodibromomethane	U		0.000327	0.00100	1	04/29/2017 04:30	WG975021
Chloroethane	U		0.000453	0.00500	1	04/29/2017 04:30	WG975021
Chloroform	U		0.000324	0.00500	1	04/29/2017 04:30	WG975021
Chloromethane	U		0.000276	0.00250	1	04/29/2017 04:30	WG975021
1,2-Dibromoethane	U		0.000381	0.00100	1	04/29/2017 04:30	WG975021
1,1-Dichloroethane	U		0.000259	0.00100	1	04/29/2017 04:30	WG975021
1,2-Dichloroethane	U		0.000361	0.00100	1	04/29/2017 04:30	WG975021
1,1-Dichloroethene	U		0.000398	0.00100	1	04/29/2017 04:30	WG975021
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	04/29/2017 04:30	WG975021
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	04/29/2017 04:30	WG975021
1,2-Dichloropropane	U		0.000306	0.00100	1	04/29/2017 04:30	WG975021
cis-1,3-Dichloropropene	U		0.000418	0.00100	1	04/29/2017 04:30	WG975021
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	04/29/2017 04:30	WG975021
Ethylbenzene	U		0.000384	0.00100	1	04/29/2017 04:30	WG975021
Isopropylbenzene	0.000991	J	0.000326	0.00100	1	04/29/2017 04:30	WG975021
p-Isopropyltoluene	U		0.000350	0.00100	1	04/29/2017 04:30	WG975021
2-Butanone (MEK)	U		0.00393	0.0100	1	04/29/2017 04:30	WG975021
2-Hexanone	U		0.00382	0.0100	1	04/29/2017 04:30	WG975021
Methylene Chloride	U		0.00100	0.00500	1	04/29/2017 04:30	WG975021
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	04/29/2017 04:30	WG975021
Methyl tert-butyl ether	0.00160		0.000367	0.00100	1	04/29/2017 04:30	WG975021
Naphthalene	U		0.00100	0.00500	1	04/29/2017 04:30	WG975021
n-Propylbenzene	U		0.000349	0.00100	1	04/29/2017 04:30	WG975021
Styrene	U		0.000307	0.00100	1	04/29/2017 04:30	WG975021
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	04/29/2017 04:30	WG975021
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	04/29/2017 04:30	WG975021
Tetrachloroethene	U		0.000372	0.00100	1	04/29/2017 04:30	WG975021
Toluene	U		0.000412	0.00100	1	04/29/2017 04:30	WG975021
1,1,1-Trichloroethane	U		0.000319	0.00100	1	04/29/2017 04:30	WG975021
1,1,2-Trichloroethane	U		0.000383	0.00100	1	04/29/2017 04:30	WG975021
Trichloroethene	U		0.000398	0.00100	1	04/29/2017 04:30	WG975021
1,2,4-Trimethylbenzene	U		0.000373	0.00100	1	04/29/2017 04:30	WG975021
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	04/29/2017 04:30	WG975021
Vinyl chloride	U		0.000259	0.00100	1	04/29/2017 04:30	WG975021
o-Xylene	U		0.000341	0.00100	1	04/29/2017 04:30	WG975021
m&p-Xylene	U		0.000719	0.00200	1	04/29/2017 04:30	WG975021
Xylenes, Total	U		0.00106	0.00300	1	04/29/2017 04:30	WG975021
(S) Toluene-d8	*101*			*80.0-120*		*04/29/2017 04:30*	WG975021
(S) Dibromofluoromethane	*98.1*			*76.0-123*		*04/29/2017 04:30*	WG975021
(S) 4-Bromofluorobenzene	*98.1*			*80.0-120*		*04/29/2017 04:30*	WG975021

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	7.60		0.0247	0.100	1	04/28/2017 22:09	WG974613
(S) o-Terphenyl	*110*			*31.0-160*		*04/28/2017 22:09*	WG974613

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Dissolved Solids	6290		2.82	10.0	1	04/28/2017 14:27	WG974601

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	0.0210	J	0.0197	0.100	1	05/01/2017 15:32	WG974941

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	1560		5.19	100	100	04/29/2017 03:28	WG974574
Fluoride	1.73		0.00990	0.100	1	04/29/2017 02:53	WG974574
Sulfate	2590		7.74	500	100	04/29/2017 03:28	WG974574

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.154		0.000250	0.00200	1	04/30/2017 22:34	WG974645
Arsenic,Dissolved	0.127		0.000250	0.00200	1	05/01/2017 22:58	WG974737
Barium	0.0115		0.000360	0.00500	1	04/30/2017 22:34	WG974645
Barium,Dissolved	0.0111		0.000360	0.00500	1	05/01/2017 22:58	WG974737
Calcium	420		0.0460	1.00	1	04/30/2017 22:34	WG974645
Chromium	U		0.000540	0.00200	1	04/30/2017 22:34	WG974645
Chromium,Dissolved	U		0.000540	0.00200	1	05/01/2017 22:58	WG974737
Iron	4.61		0.0150	0.100	1	04/30/2017 22:34	WG974645
Iron,Dissolved	0.0226	J	0.0150	0.100	1	05/01/2017 22:58	WG974737
Lead	U		0.000240	0.00200	1	05/02/2017 13:22	WG974645
Lead,Dissolved	U		0.000240	0.00200	1	05/01/2017 22:58	WG974737
Manganese	3.32		0.000250	0.00500	1	04/30/2017 22:34	WG974645
Manganese,Dissolved	3.51		0.000250	0.00500	1	05/01/2017 22:58	WG974737
Potassium	9.18		0.0370	1.00	1	04/30/2017 22:34	WG974645
Selenium	0.00139	J	0.000380	0.00200	1	04/30/2017 22:34	WG974645
Selenium,Dissolved	0.00155	J	0.000380	0.00200	1	05/01/2017 22:58	WG974737
Sodium	1650		1.10	10.0	10	05/01/2017 16:02	WG974645

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	2.08		0.0314	0.100	1	04/28/2017 05:02	WG974712
(S) a,a,a-Trifluorotoluene(FID)	*113*			*77.0-122*		*04/28/2017 05:02*	WG974712

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		0.0100	0.0500	1	04/29/2017 04:47	WG975021
Benzene	U		0.000331	0.00100	1	04/29/2017 04:47	WG975021
Bromodichloromethane	U		0.000380	0.00100	1	04/29/2017 04:47	WG975021
Bromoform	U		0.000469	0.00100	1	04/29/2017 04:47	WG975021
Bromomethane	U		0.000866	0.00500	1	04/29/2017 04:47	WG975021
n-Butylbenzene	U		0.000361	0.00100	1	04/29/2017 04:47	WG975021
sec-Butylbenzene	U		0.000365	0.00100	1	04/29/2017 04:47	WG975021
Carbon disulfide	U		0.000275	0.00100	1	04/29/2017 04:47	WG975021
Carbon tetrachloride	U		0.000379	0.00100	1	04/29/2017 04:47	WG975021

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chlorobenzene	U		0.000348	0.00100	1	04/29/2017 04:47	WG975021
Chlorodibromomethane	U		0.000327	0.00100	1	04/29/2017 04:47	WG975021
Chloroethane	U		0.000453	0.00500	1	04/29/2017 04:47	WG975021
Chloroform	U		0.000324	0.00500	1	04/29/2017 04:47	WG975021
Chloromethane	U		0.000276	0.00250	1	04/29/2017 04:47	WG975021
1,2-Dibromoethane	U		0.000381	0.00100	1	04/29/2017 04:47	WG975021
1,1-Dichloroethane	U		0.000259	0.00100	1	04/29/2017 04:47	WG975021
1,2-Dichloroethane	U		0.000361	0.00100	1	04/29/2017 04:47	WG975021
1,1-Dichloroethene	U		0.000398	0.00100	1	04/29/2017 04:47	WG975021
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	04/29/2017 04:47	WG975021
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	04/29/2017 04:47	WG975021
1,2-Dichloropropane	U		0.000306	0.00100	1	04/29/2017 04:47	WG975021
cis-1,3-Dichloropropene	U		0.000418	0.00100	1	04/29/2017 04:47	WG975021
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	04/29/2017 04:47	WG975021
Ethylbenzene	U		0.000384	0.00100	1	04/29/2017 04:47	WG975021
Isopropylbenzene	U		0.000326	0.00100	1	04/29/2017 04:47	WG975021
p-Isopropyltoluene	U		0.000350	0.00100	1	04/29/2017 04:47	WG975021
2-Butanone (MEK)	U		0.00393	0.0100	1	04/29/2017 04:47	WG975021
2-Hexanone	U		0.00382	0.0100	1	04/29/2017 04:47	WG975021
Methylene Chloride	U		0.00100	0.00500	1	04/29/2017 04:47	WG975021
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	04/29/2017 04:47	WG975021
Methyl tert-butyl ether	0.00140		0.000367	0.00100	1	04/29/2017 04:47	WG975021
Naphthalene	U		0.00100	0.00500	1	04/29/2017 04:47	WG975021
n-Propylbenzene	U		0.000349	0.00100	1	04/29/2017 04:47	WG975021
Styrene	U		0.000307	0.00100	1	04/29/2017 04:47	WG975021
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	04/29/2017 04:47	WG975021
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	04/29/2017 04:47	WG975021
Tetrachloroethene	U		0.000372	0.00100	1	04/29/2017 04:47	WG975021
Toluene	U		0.000412	0.00100	1	04/29/2017 04:47	WG975021
1,1,1-Trichloroethane	U		0.000319	0.00100	1	04/29/2017 04:47	WG975021
1,1,2-Trichloroethane	U		0.000383	0.00100	1	04/29/2017 04:47	WG975021
Trichloroethene	U		0.000398	0.00100	1	04/29/2017 04:47	WG975021
1,2,4-Trimethylbenzene	0.000499	J	0.000373	0.00100	1	04/29/2017 04:47	WG975021
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	04/29/2017 04:47	WG975021
Vinyl chloride	U		0.000259	0.00100	1	04/29/2017 04:47	WG975021
o-Xylene	U		0.000341	0.00100	1	04/29/2017 04:47	WG975021
m&p-Xylene	U		0.000719	0.00200	1	04/29/2017 04:47	WG975021
Xylenes, Total	U		0.00106	0.00300	1	04/29/2017 04:47	WG975021
(S) Toluene-d8	*101*			*80.0-120*		*04/29/2017 04:47*	WG975021
(S) Dibromofluoromethane	*98.1*			*76.0-123*		*04/29/2017 04:47*	WG975021
(S) 4-Bromofluorobenzene	*101*			*80.0-120*		*04/29/2017 04:47*	WG975021

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	11.2		0.124	0.500	5	04/29/2017 17:50	WG974613
(S) o-Terphenyl	*114*			*31.0-160*		*04/29/2017 17:50*	WG974613

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Dissolved Solids	3110		2.82	10.0	1	04/28/2017 14:27	WG974601

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	U		0.0197	0.100	1	05/01/2017 15:33	WG974941

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	576		2.60	50.0	50	04/30/2017 22:07	WG975157
Fluoride	0.971		0.00990	0.100	1	04/30/2017 22:42	WG975157
Sulfate	1740		3.87	250	50	04/30/2017 22:07	WG975157

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.0113		0.000250	0.00200	1	04/30/2017 22:38	WG974645
Arsenic,Dissolved	0.00981		0.000250	0.00200	1	05/01/2017 23:02	WG974737
Barium	0.0237		0.000360	0.00500	1	04/30/2017 22:38	WG974645
Barium,Dissolved	0.0140		0.000360	0.00500	1	05/01/2017 23:02	WG974737
Calcium	383		0.0460	1.00	1	04/30/2017 22:38	WG974645
Chromium	U		0.000540	0.00200	1	04/30/2017 22:38	WG974645
Chromium,Dissolved	U		0.000540	0.00200	1	05/01/2017 23:02	WG974737
Iron	1.09		0.0150	0.100	1	04/30/2017 22:38	WG974645
Iron,Dissolved	U		0.0150	0.100	1	05/01/2017 23:02	WG974737
Lead	0.000287	J	0.000240	0.00200	1	05/02/2017 13:26	WG974645
Lead,Dissolved	U		0.000240	0.00200	1	05/01/2017 23:02	WG974737
Manganese	0.918		0.000250	0.00500	1	04/30/2017 22:38	WG974645
Manganese,Dissolved	0.906		0.000250	0.00500	1	05/01/2017 23:02	WG974737
Potassium	3.90		0.0370	1.00	1	04/30/2017 22:38	WG974645
Selenium	U		0.000380	0.00200	1	04/30/2017 22:38	WG974645
Selenium,Dissolved	U		0.000380	0.00200	1	05/01/2017 23:02	WG974737
Sodium	500		1.10	10.0	10	05/01/2017 16:32	WG974645

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
TPH (GC/FID) Low Fraction	U		0.0314	0.100	1	04/28/2017 05:26	WG974712
(S) a,a,a-Trifluorotoluene(FID)	*113*			*77.0-122*		*04/28/2017 05:26*	WG974712

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		0.0100	0.0500	1	04/29/2017 05:03	WG975021
Benzene	U		0.000331	0.00100	1	04/29/2017 05:03	WG975021
Bromodichloromethane	U		0.000380	0.00100	1	04/29/2017 05:03	WG975021
Bromoform	U		0.000469	0.00100	1	04/29/2017 05:03	WG975021
Bromomethane	U		0.000866	0.00500	1	04/29/2017 05:03	WG975021
n-Butylbenzene	U		0.000361	0.00100	1	04/29/2017 05:03	WG975021
sec-Butylbenzene	U		0.000365	0.00100	1	04/29/2017 05:03	WG975021
Carbon disulfide	U		0.000275	0.00100	1	04/29/2017 05:03	WG975021
Carbon tetrachloride	U		0.000379	0.00100	1	04/29/2017 05:03	WG975021

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chlorobenzene	U		0.000348	0.00100	1	04/29/2017 05:03	WG975021
Chlorodibromomethane	U		0.000327	0.00100	1	04/29/2017 05:03	WG975021
Chloroethane	U		0.000453	0.00500	1	04/29/2017 05:03	WG975021
Chloroform	U		0.000324	0.00500	1	04/29/2017 05:03	WG975021
Chloromethane	U		0.000276	0.00250	1	04/29/2017 05:03	WG975021
1,2-Dibromoethane	U		0.000381	0.00100	1	04/29/2017 05:03	WG975021
1,1-Dichloroethane	U		0.000259	0.00100	1	04/29/2017 05:03	WG975021
1,2-Dichloroethane	U		0.000361	0.00100	1	04/29/2017 05:03	WG975021
1,1-Dichloroethene	U		0.000398	0.00100	1	04/29/2017 05:03	WG975021
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	04/29/2017 05:03	WG975021
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	04/29/2017 05:03	WG975021
1,2-Dichloropropane	U		0.000306	0.00100	1	04/29/2017 05:03	WG975021
cis-1,3-Dichloropropene	U		0.000418	0.00100	1	04/29/2017 05:03	WG975021
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	04/29/2017 05:03	WG975021
Ethylbenzene	U		0.000384	0.00100	1	04/29/2017 05:03	WG975021
Isopropylbenzene	U		0.000326	0.00100	1	04/29/2017 05:03	WG975021
p-Isopropyltoluene	U		0.000350	0.00100	1	04/29/2017 05:03	WG975021
2-Butanone (MEK)	U		0.00393	0.0100	1	04/29/2017 05:03	WG975021
2-Hexanone	U		0.00382	0.0100	1	04/29/2017 05:03	WG975021
Methylene Chloride	U		0.00100	0.00500	1	04/29/2017 05:03	WG975021
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	04/29/2017 05:03	WG975021
Methyl tert-butyl ether	0.000369	J	0.000367	0.00100	1	04/29/2017 05:03	WG975021
Naphthalene	U		0.00100	0.00500	1	04/29/2017 05:03	WG975021
n-Propylbenzene	U		0.000349	0.00100	1	04/29/2017 05:03	WG975021
Styrene	U		0.000307	0.00100	1	04/29/2017 05:03	WG975021
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	04/29/2017 05:03	WG975021
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	04/29/2017 05:03	WG975021
Tetrachloroethene	U		0.000372	0.00100	1	04/29/2017 05:03	WG975021
Toluene	U		0.000412	0.00100	1	04/29/2017 05:03	WG975021
1,1,1-Trichloroethane	U		0.000319	0.00100	1	04/29/2017 05:03	WG975021
1,1,2-Trichloroethane	U		0.000383	0.00100	1	04/29/2017 05:03	WG975021
Trichloroethene	U		0.000398	0.00100	1	04/29/2017 05:03	WG975021
1,2,4-Trimethylbenzene	U		0.000373	0.00100	1	04/29/2017 05:03	WG975021
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	04/29/2017 05:03	WG975021
Vinyl chloride	U		0.000259	0.00100	1	04/29/2017 05:03	WG975021
o-Xylene	U		0.000341	0.00100	1	04/29/2017 05:03	WG975021
m&p-Xylene	U		0.000719	0.00200	1	04/29/2017 05:03	WG975021
Xylenes, Total	U		0.00106	0.00300	1	04/29/2017 05:03	WG975021
(S) Toluene-d8	*100*			*80.0-120*		*04/29/2017 05:03*	WG975021
(S) Dibromofluoromethane	*97.8*			*76.0-123*		*04/29/2017 05:03*	WG975021
(S) 4-Bromofluorobenzene	*102*			*80.0-120*		*04/29/2017 05:03*	WG975021

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	0.500		0.0247	0.100	1	04/29/2017 00:59	WG974616
(S) o-Terphenyl	*98.6*			*31.0-160*		*04/29/2017 00:59*	WG974616

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Dissolved Solids	6690		2.82	10.0	1	04/30/2017 11:49	WG974887

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	0.0360	J	0.0197	0.100	1	05/01/2017 15:34	WG974941

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	2240		5.19	100	100	04/28/2017 17:35	WG974574
Fluoride	1.31		0.00990	0.100	1	04/28/2017 17:18	WG974574
Sulfate	2700		7.74	500	100	04/28/2017 17:35	WG974574

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.0182		0.000250	0.00200	1	04/30/2017 23:30	WG974645
Arsenic,Dissolved	0.0124		0.000250	0.00200	1	05/01/2017 23:05	WG974737
Barium	0.0148		0.000360	0.00500	1	05/02/2017 13:29	WG974645
Barium,Dissolved	0.0150		0.000360	0.00500	1	05/01/2017 23:05	WG974737
Calcium	371		0.0460	1.00	1	04/30/2017 23:30	WG974645
Chromium	0.000819	J	0.000540	0.00200	1	04/30/2017 23:30	WG974645
Chromium,Dissolved	U		0.000540	0.00200	1	05/01/2017 23:05	WG974737
Iron	3.20		0.0150	0.100	1	04/30/2017 23:30	WG974645
Iron,Dissolved	0.0171	J	0.0150	0.100	1	05/01/2017 23:05	WG974737
Lead	U		0.000240	0.00200	1	05/02/2017 13:29	WG974645
Lead,Dissolved	U		0.000240	0.00200	1	05/01/2017 23:05	WG974737
Manganese	0.530		0.000250	0.00500	1	04/30/2017 23:30	WG974645
Manganese,Dissolved	0.570		0.000250	0.00500	1	05/01/2017 23:05	WG974737
Potassium	3.79		0.0370	1.00	1	04/30/2017 23:30	WG974645
Selenium	0.000425	J	0.000380	0.00200	1	04/30/2017 23:30	WG974645
Selenium,Dissolved	U		0.000380	0.00200	1	05/01/2017 23:05	WG974737
Sodium	2000		1.10	10.0	10	05/01/2017 16:36	WG974645

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	0.501		0.0314	0.100	1	04/28/2017 05:50	WG974712
(S) a,a,a-Trifluorotoluene(FID)	*113*			*77.0-122*		*04/28/2017 05:50*	WG974712

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		0.0100	0.0500	1	04/29/2017 05:20	WG975021
Benzene	U		0.000331	0.00100	1	04/29/2017 05:20	WG975021
Bromodichloromethane	U		0.000380	0.00100	1	04/29/2017 05:20	WG975021
Bromoform	U		0.000469	0.00100	1	04/29/2017 05:20	WG975021
Bromomethane	U		0.000866	0.00500	1	04/29/2017 05:20	WG975021
n-Butylbenzene	U		0.000361	0.00100	1	04/29/2017 05:20	WG975021
sec-Butylbenzene	U		0.000365	0.00100	1	04/29/2017 05:20	WG975021
Carbon disulfide	U		0.000275	0.00100	1	04/29/2017 05:20	WG975021
Carbon tetrachloride	U		0.000379	0.00100	1	04/29/2017 05:20	WG975021

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chlorobenzene	U		0.000348	0.00100	1	04/29/2017 05:20	WG975021
Chlorodibromomethane	U		0.000327	0.00100	1	04/29/2017 05:20	WG975021
Chloroethane	U		0.000453	0.00500	1	04/29/2017 05:20	WG975021
Chloroform	U		0.000324	0.00500	1	04/29/2017 05:20	WG975021
Chloromethane	U		0.000276	0.00250	1	04/29/2017 05:20	WG975021
1,2-Dibromoethane	U		0.000381	0.00100	1	04/29/2017 05:20	WG975021
1,1-Dichloroethane	U		0.000259	0.00100	1	04/29/2017 05:20	WG975021
1,2-Dichloroethane	U		0.000361	0.00100	1	04/29/2017 05:20	WG975021
1,1-Dichloroethene	U		0.000398	0.00100	1	04/29/2017 05:20	WG975021
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	04/29/2017 05:20	WG975021
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	04/29/2017 05:20	WG975021
1,2-Dichloropropane	U		0.000306	0.00100	1	04/29/2017 05:20	WG975021
cis-1,3-Dichloropropene	U		0.000418	0.00100	1	04/29/2017 05:20	WG975021
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	04/29/2017 05:20	WG975021
Ethylbenzene	U		0.000384	0.00100	1	04/29/2017 05:20	WG975021
Isopropylbenzene	U		0.000326	0.00100	1	04/29/2017 05:20	WG975021
p-Isopropyltoluene	U		0.000350	0.00100	1	04/29/2017 05:20	WG975021
2-Butanone (MEK)	U		0.00393	0.0100	1	04/29/2017 05:20	WG975021
2-Hexanone	U		0.00382	0.0100	1	04/29/2017 05:20	WG975021
Methylene Chloride	U		0.00100	0.00500	1	04/29/2017 05:20	WG975021
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	04/29/2017 05:20	WG975021
Methyl tert-butyl ether	0.00150		0.000367	0.00100	1	04/29/2017 05:20	WG975021
Naphthalene	U		0.00100	0.00500	1	04/29/2017 05:20	WG975021
n-Propylbenzene	U		0.000349	0.00100	1	04/29/2017 05:20	WG975021
Styrene	U		0.000307	0.00100	1	04/29/2017 05:20	WG975021
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	04/29/2017 05:20	WG975021
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	04/29/2017 05:20	WG975021
Tetrachloroethene	U		0.000372	0.00100	1	04/29/2017 05:20	WG975021
Toluene	U		0.000412	0.00100	1	04/29/2017 05:20	WG975021
1,1,1-Trichloroethane	U		0.000319	0.00100	1	04/29/2017 05:20	WG975021
1,1,2-Trichloroethane	U		0.000383	0.00100	1	04/29/2017 05:20	WG975021
Trichloroethene	U		0.000398	0.00100	1	04/29/2017 05:20	WG975021
1,2,4-Trimethylbenzene	U		0.000373	0.00100	1	04/29/2017 05:20	WG975021
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	04/29/2017 05:20	WG975021
Vinyl chloride	U		0.000259	0.00100	1	04/29/2017 05:20	WG975021
o-Xylene	U		0.000341	0.00100	1	04/29/2017 05:20	WG975021
m&p-Xylene	U		0.000719	0.00200	1	04/29/2017 05:20	WG975021
Xylenes, Total	U		0.00106	0.00300	1	04/29/2017 05:20	WG975021
(S) Toluene-d8	*104*			*80.0-120*		*04/29/2017 05:20*	WG975021
(S) Dibromofluoromethane	*95.5*			*76.0-123*		*04/29/2017 05:20*	WG975021
(S) 4-Bromofluorobenzene	*104*			*80.0-120*		*04/29/2017 05:20*	WG975021

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	1.12		0.0247	0.100	1	04/29/2017 01:16	WG974616
(S) o-Terphenyl	*94.7*			*31.0-160*		*04/29/2017 01:16*	WG974616

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Dissolved Solids	4720		2.82	10.0	1	04/30/2017 11:49	WG974887

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	0.0670	J	0.0197	0.100	1	05/01/2017 15:41	WG974941

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	1060		5.19	100	100	04/28/2017 19:02	WG974574
Fluoride	0.966		0.00990	0.100	1	04/28/2017 17:53	WG974574
Sulfate	1750		7.74	500	100	04/28/2017 19:02	WG974574

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.00397		0.000250	0.00200	1	04/30/2017 23:34	WG974645
Arsenic,Dissolved	0.00373		0.000250	0.00200	1	05/02/2017 01:38	WG974737
Barium	0.0111		0.000360	0.00500	1	05/02/2017 13:33	WG974645
Barium,Dissolved	0.0118		0.000360	0.00500	1	05/02/2017 01:38	WG974737
Calcium	530		0.0460	1.00	1	04/30/2017 23:34	WG974645
Chromium	U		0.000540	0.00200	1	04/30/2017 23:34	WG974645
Chromium,Dissolved	U		0.000540	0.00200	1	05/02/2017 01:38	WG974737
Iron	0.146		0.0150	0.100	1	04/30/2017 23:34	WG974645
Iron,Dissolved	U		0.0150	0.100	1	05/02/2017 01:38	WG974737
Lead	U		0.000240	0.00200	1	05/02/2017 13:33	WG974645
Lead,Dissolved	U		0.000240	0.00200	1	05/02/2017 01:38	WG974737
Manganese	0.472		0.000250	0.00500	1	04/30/2017 23:34	WG974645
Manganese,Dissolved	0.493		0.000250	0.00500	1	05/02/2017 01:38	WG974737
Potassium	6.71		0.0370	1.00	1	04/30/2017 23:34	WG974645
Selenium	U		0.000380	0.00200	1	04/30/2017 23:34	WG974645
Selenium,Dissolved	U		0.000380	0.00200	1	05/02/2017 01:38	WG974737
Sodium	652		1.10	10.0	10	05/01/2017 16:39	WG974645

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
TPH (GC/FID) Low Fraction	U		0.0314	0.100	1	04/28/2017 06:15	WG974712
(S) a,a,a-Trifluorotoluene(FID)	*112*			*77.0-122*		*04/28/2017 06:15*	WG974712

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		0.0100	0.0500	1	04/29/2017 05:37	WG975021
Benzene	U		0.000331	0.00100	1	04/29/2017 05:37	WG975021
Bromodichloromethane	U		0.000380	0.00100	1	04/29/2017 05:37	WG975021
Bromoform	U		0.000469	0.00100	1	04/29/2017 05:37	WG975021
Bromomethane	U		0.000866	0.00500	1	04/29/2017 05:37	WG975021
n-Butylbenzene	U		0.000361	0.00100	1	04/29/2017 05:37	WG975021
sec-Butylbenzene	U		0.000365	0.00100	1	04/29/2017 05:37	WG975021
Carbon disulfide	U		0.000275	0.00100	1	04/29/2017 05:37	WG975021
Carbon tetrachloride	U		0.000379	0.00100	1	04/29/2017 05:37	WG975021

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chlorobenzene	U		0.000348	0.00100	1	04/29/2017 05:37	WG975021
Chlorodibromomethane	U		0.000327	0.00100	1	04/29/2017 05:37	WG975021
Chloroethane	U		0.000453	0.00500	1	04/29/2017 05:37	WG975021
Chloroform	U		0.000324	0.00500	1	04/29/2017 05:37	WG975021
Chloromethane	U		0.000276	0.00250	1	04/29/2017 05:37	WG975021
1,2-Dibromoethane	U		0.000381	0.00100	1	04/29/2017 05:37	WG975021
1,1-Dichloroethane	U		0.000259	0.00100	1	04/29/2017 05:37	WG975021
1,2-Dichloroethane	U		0.000361	0.00100	1	04/29/2017 05:37	WG975021
1,1-Dichloroethene	U		0.000398	0.00100	1	04/29/2017 05:37	WG975021
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	04/29/2017 05:37	WG975021
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	04/29/2017 05:37	WG975021
1,2-Dichloropropane	U		0.000306	0.00100	1	04/29/2017 05:37	WG975021
cis-1,3-Dichloropropene	U		0.000418	0.00100	1	04/29/2017 05:37	WG975021
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	04/29/2017 05:37	WG975021
Ethylbenzene	U		0.000384	0.00100	1	04/29/2017 05:37	WG975021
Isopropylbenzene	U		0.000326	0.00100	1	04/29/2017 05:37	WG975021
p-Isopropyltoluene	U		0.000350	0.00100	1	04/29/2017 05:37	WG975021
2-Butanone (MEK)	U		0.00393	0.0100	1	04/29/2017 05:37	WG975021
2-Hexanone	U		0.00382	0.0100	1	04/29/2017 05:37	WG975021
Methylene Chloride	U		0.00100	0.00500	1	04/29/2017 05:37	WG975021
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	04/29/2017 05:37	WG975021
Methyl tert-butyl ether	U		0.000367	0.00100	1	04/29/2017 05:37	WG975021
Naphthalene	U		0.00100	0.00500	1	04/29/2017 05:37	WG975021
n-Propylbenzene	U		0.000349	0.00100	1	04/29/2017 05:37	WG975021
Styrene	U		0.000307	0.00100	1	04/29/2017 05:37	WG975021
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	04/29/2017 05:37	WG975021
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	04/29/2017 05:37	WG975021
Tetrachloroethene	U		0.000372	0.00100	1	04/29/2017 05:37	WG975021
Toluene	U		0.000412	0.00100	1	04/29/2017 05:37	WG975021
1,1,1-Trichloroethane	U		0.000319	0.00100	1	04/29/2017 05:37	WG975021
1,1,2-Trichloroethane	U		0.000383	0.00100	1	04/29/2017 05:37	WG975021
Trichloroethene	U		0.000398	0.00100	1	04/29/2017 05:37	WG975021
1,2,4-Trimethylbenzene	U		0.000373	0.00100	1	04/29/2017 05:37	WG975021
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	04/29/2017 05:37	WG975021
Vinyl chloride	U		0.000259	0.00100	1	04/29/2017 05:37	WG975021
o-Xylene	U		0.000341	0.00100	1	04/29/2017 05:37	WG975021
m&p-Xylene	U		0.000719	0.00200	1	04/29/2017 05:37	WG975021
Xylenes, Total	U		0.00106	0.00300	1	04/29/2017 05:37	WG975021
(S) Toluene-d8	*102*			*80.0-120*		*04/29/2017 05:37*	WG975021
(S) Dibromofluoromethane	*98.1*			*76.0-123*		*04/29/2017 05:37*	WG975021
(S) 4-Bromofluorobenzene	*100*			*80.0-120*		*04/29/2017 05:37*	WG975021

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	0.0845	J	0.0247	0.100	1	04/29/2017 01:34	WG974616
(S) o-Terphenyl	*92.6*			*31.0-160*		*04/29/2017 01:34*	WG974616

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Dissolved Solids	8960		2.82	10.0	1	04/30/2017 11:49	WG974887

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	0.0300	J	0.0197	0.100	1	05/01/2017 15:42	WG974941

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	05/02/2017 09:21	WG974960

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	2870		5.19	100	100	04/28/2017 22:14	WG974574
Fluoride	2.16		0.00990	0.100	1	04/28/2017 21:57	WG974574
Sulfate	3410		7.74	500	100	04/28/2017 22:14	WG974574

Mercury by Method 7470A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Mercury	U		0.0000490	0.000200	1	04/28/2017 15:28	WG974464
Mercury,Dissolved	U		0.0000490	0.000200	1	04/28/2017 14:17	WG974524

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.0632		0.000250	0.00200	1	04/30/2017 20:57	WG974645
Arsenic,Dissolved	0.0533		0.000250	0.00200	1	05/02/2017 01:41	WG974737
Barium	0.0177		0.000360	0.00500	1	04/30/2017 20:57	WG974645
Barium,Dissolved	0.0163		0.000360	0.00500	1	05/02/2017 01:41	WG974737
Boron	0.837		0.00150	0.0200	1	04/30/2017 20:57	WG974645
Boron,Dissolved	0.745		0.00150	0.0200	1	05/02/2017 15:14	WG974737
Cadmium	U		0.000160	0.00100	1	04/30/2017 20:57	WG974645
Cadmium,Dissolved	U		0.000160	0.00100	1	05/02/2017 01:41	WG974737
Calcium	658		0.0460	1.00	1	04/30/2017 20:57	WG974645
Chromium	U		0.000540	0.00200	1	04/30/2017 20:57	WG974645
Chromium,Dissolved	U		0.000540	0.00200	1	05/02/2017 01:41	WG974737
Cobalt	0.00103	J	0.000260	0.00200	1	04/30/2017 20:57	WG974645
Cobalt,Dissolved	0.00105	J	0.000260	0.00200	1	05/02/2017 01:41	WG974737
Iron	6.72		0.0150	0.100	1	04/30/2017 20:57	WG974645
Iron,Dissolved	0.0677	J	0.0150	0.100	1	05/02/2017 01:41	WG974737
Lead	U		0.000240	0.00200	1	04/30/2017 20:57	WG974645
Lead,Dissolved	U		0.000240	0.00200	1	05/02/2017 01:41	WG974737
Manganese	2.91		0.000250	0.00500	1	04/30/2017 20:57	WG974645
Manganese,Dissolved	3.01		0.000250	0.00500	1	05/02/2017 01:41	WG974737
Nickel	0.0246		0.000350	0.00200	1	04/30/2017 20:57	WG974645
Nickel,Dissolved	0.0227		0.000350	0.00200	1	05/02/2017 01:41	WG974737
Potassium	8.50		0.0370	1.00	1	04/30/2017 20:57	WG974645
Selenium	0.000793	J	0.000380	0.00200	1	04/30/2017 20:57	WG974645
Selenium,Dissolved	0.00106	J	0.000380	0.00200	1	05/02/2017 01:41	WG974737
Sodium	2510		1.10	10.0	10	05/09/2017 20:16	WG974645

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Uranium	0.00102	J	0.000330	0.0100	1	04/30/2017 20:57	WG974645
Uranium,Dissolved	0.00102	J	0.000330	0.0100	1	05/02/2017 01:41	WG974737
Vanadium	0.000626	J	0.000180	0.00500	1	04/30/2017 20:57	WG974645
Vanadium,Dissolved	0.000283	J	0.000180	0.00500	1	05/02/2017 01:41	WG974737

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	1.23		0.0314	0.100	1	04/28/2017 06:39	WG974712
(S) a,a,a-Trifluorotoluene(FID)	*114*			*77.0-122*		*04/28/2017 06:39*	WG974712

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

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0100	0.0500	1	04/29/2017 05:54	WG975021
Benzene	U		0.000331	0.00100	1	04/29/2017 05:54	WG975021
Bromodichloromethane	U		0.000380	0.00100	1	04/29/2017 05:54	WG975021
Bromoform	U		0.000469	0.00100	1	04/29/2017 05:54	WG975021
Bromomethane	U		0.000866	0.00500	1	04/29/2017 05:54	WG975021
n-Butylbenzene	U		0.000361	0.00100	1	04/29/2017 05:54	WG975021
sec-Butylbenzene	U		0.000365	0.00100	1	04/29/2017 05:54	WG975021
Carbon disulfide	U		0.000275	0.00100	1	04/29/2017 05:54	WG975021
Carbon tetrachloride	U		0.000379	0.00100	1	04/29/2017 05:54	WG975021
Chlorobenzene	U		0.000348	0.00100	1	04/29/2017 05:54	WG975021
Chlorodibromomethane	U		0.000327	0.00100	1	04/29/2017 05:54	WG975021
Chloroethane	U		0.000453	0.00500	1	04/29/2017 05:54	WG975021
Chloroform	U		0.000324	0.00500	1	04/29/2017 05:54	WG975021
Chloromethane	U		0.000276	0.00250	1	04/29/2017 05:54	WG975021
1,2-Dibromoethane	U		0.000381	0.00100	1	04/29/2017 05:54	WG975021
1,1-Dichloroethane	U		0.000259	0.00100	1	04/29/2017 05:54	WG975021
1,2-Dichloroethane	U		0.000361	0.00100	1	04/29/2017 05:54	WG975021
1,1-Dichloroethene	U		0.000398	0.00100	1	04/29/2017 05:54	WG975021
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	04/29/2017 05:54	WG975021
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	04/29/2017 05:54	WG975021
1,2-Dichloropropane	U		0.000306	0.00100	1	04/29/2017 05:54	WG975021
cis-1,3-Dichloropropene	U		0.000418	0.00100	1	04/29/2017 05:54	WG975021
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	04/29/2017 05:54	WG975021
Ethylbenzene	U		0.000384	0.00100	1	04/29/2017 05:54	WG975021
Isopropylbenzene	U		0.000326	0.00100	1	04/29/2017 05:54	WG975021
p-Isopropyltoluene	U		0.000350	0.00100	1	04/29/2017 05:54	WG975021
2-Butanone (MEK)	U		0.00393	0.0100	1	04/29/2017 05:54	WG975021
2-Hexanone	U		0.00382	0.0100	1	04/29/2017 05:54	WG975021
Methylene Chloride	U		0.00100	0.00500	1	04/29/2017 05:54	WG975021
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	04/29/2017 05:54	WG975021
Methyl tert-butyl ether	0.00420		0.000367	0.00100	1	04/29/2017 05:54	WG975021
Naphthalene	U		0.00100	0.00500	1	04/29/2017 05:54	WG975021
n-Propylbenzene	U		0.000349	0.00100	1	04/29/2017 05:54	WG975021
Styrene	U		0.000307	0.00100	1	04/29/2017 05:54	WG975021
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	04/29/2017 05:54	WG975021
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	04/29/2017 05:54	WG975021
Tetrachloroethene	U		0.000372	0.00100	1	04/29/2017 05:54	WG975021
Toluene	U		0.000412	0.00100	1	04/29/2017 05:54	WG975021
1,1,1-Trichloroethane	U		0.000319	0.00100	1	04/29/2017 05:54	WG975021
1,1,2-Trichloroethane	U		0.000383	0.00100	1	04/29/2017 05:54	WG975021
Trichloroethene	U		0.000398	0.00100	1	04/29/2017 05:54	WG975021

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

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
1,2,4-Trimethylbenzene	0.000518	J	0.000373	0.00100	1	04/29/2017 05:54	WG975021
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	04/29/2017 05:54	WG975021
Vinyl chloride	U		0.000259	0.00100	1	04/29/2017 05:54	WG975021
o-Xylene	U		0.000341	0.00100	1	04/29/2017 05:54	WG975021
m&p-Xylene	U		0.000719	0.00200	1	04/29/2017 05:54	WG975021
Xylenes, Total	U		0.00106	0.00300	1	04/29/2017 05:54	WG975021
(S) Toluene-d8	*102*			*80.0-120*		*04/29/2017 05:54*	WG975021
(S) Dibromofluoromethane	*100*			*76.0-123*		*04/29/2017 05:54*	WG975021
(S) 4-Bromofluorobenzene	*99.3*			*80.0-120*		*04/29/2017 05:54*	WG975021

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	3.46		0.0247	0.100	1	04/29/2017 04:26	WG974616
(S) o-Terphenyl	*98.3*			*31.0-160*		*04/29/2017 04:26*	WG974616

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Dissolved Solids	7390		2.82	10.0	1	04/30/2017 11:49	WG974887

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	0.0320	J	0.0197	0.100	1	05/01/2017 15:43	WG974941

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	2030		5.19	100	100	04/28/2017 22:49	WG974574
Fluoride	0.925		0.00990	0.100	1	04/28/2017 22:31	WG974574
Sulfate	2620		7.74	500	100	04/28/2017 22:49	WG974574

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.00912		0.000250	0.00200	1	04/30/2017 23:37	WG974645
Arsenic,Dissolved	0.00910		0.000250	0.00200	1	05/02/2017 01:45	WG974737
Barium	0.0124		0.000360	0.00500	1	05/02/2017 18:11	WG974645
Barium,Dissolved	0.0127		0.000360	0.00500	1	05/02/2017 01:45	WG974737
Calcium	660		0.0460	1.00	1	04/30/2017 23:37	WG974645
Chromium	U		0.000540	0.00200	1	04/30/2017 23:37	WG974645
Chromium,Dissolved	U		0.000540	0.00200	1	05/02/2017 01:45	WG974737
Iron	0.266		0.0150	0.100	1	04/30/2017 23:37	WG974645
Iron,Dissolved	0.0155	J	0.0150	0.100	1	05/02/2017 01:45	WG974737
Lead	0.000256	J	0.000240	0.00200	1	05/02/2017 18:11	WG974645
Lead,Dissolved	U		0.000240	0.00200	1	05/02/2017 01:45	WG974737
Manganese	6.36		0.000250	0.00500	1	04/30/2017 23:37	WG974645
Manganese,Dissolved	6.46		0.000250	0.00500	1	05/02/2017 01:45	WG974737
Potassium	9.07		0.0370	1.00	1	04/30/2017 23:37	WG974645
Selenium	U		0.000380	0.00200	1	04/30/2017 23:37	WG974645
Selenium,Dissolved	U		0.000380	0.00200	1	05/02/2017 01:45	WG974737
Sodium	1800		1.10	10.0	10	05/01/2017 16:43	WG974645

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
TPH (GC/FID) Low Fraction	U		0.0314	0.100	1	04/28/2017 07:03	WG974712
(S) a,a,a-Trifluorotoluene(FID)	*113*			*77.0-122*		*04/28/2017 07:03*	WG974712

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		0.0100	0.0500	1	04/29/2017 06:11	WG975021
Benzene	U		0.000331	0.00100	1	04/29/2017 06:11	WG975021
Bromodichloromethane	U		0.000380	0.00100	1	04/29/2017 06:11	WG975021
Bromoform	U		0.000469	0.00100	1	04/29/2017 06:11	WG975021
Bromomethane	U		0.000866	0.00500	1	04/29/2017 06:11	WG975021
n-Butylbenzene	U		0.000361	0.00100	1	04/29/2017 06:11	WG975021
sec-Butylbenzene	U		0.000365	0.00100	1	04/29/2017 06:11	WG975021
Carbon disulfide	U		0.000275	0.00100	1	04/29/2017 06:11	WG975021
Carbon tetrachloride	U		0.000379	0.00100	1	04/29/2017 06:11	WG975021

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chlorobenzene	U		0.000348	0.00100	1	04/29/2017 06:11	WG975021
Chlorodibromomethane	U		0.000327	0.00100	1	04/29/2017 06:11	WG975021
Chloroethane	U		0.000453	0.00500	1	04/29/2017 06:11	WG975021
Chloroform	U		0.000324	0.00500	1	04/29/2017 06:11	WG975021
Chloromethane	U		0.000276	0.00250	1	04/29/2017 06:11	WG975021
1,2-Dibromoethane	U		0.000381	0.00100	1	04/29/2017 06:11	WG975021
1,1-Dichloroethane	U		0.000259	0.00100	1	04/29/2017 06:11	WG975021
1,2-Dichloroethane	U		0.000361	0.00100	1	04/29/2017 06:11	WG975021
1,1-Dichloroethene	U		0.000398	0.00100	1	04/29/2017 06:11	WG975021
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	04/29/2017 06:11	WG975021
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	04/29/2017 06:11	WG975021
1,2-Dichloropropane	U		0.000306	0.00100	1	04/29/2017 06:11	WG975021
cis-1,3-Dichloropropene	U		0.000418	0.00100	1	04/29/2017 06:11	WG975021
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	04/29/2017 06:11	WG975021
Ethylbenzene	U		0.000384	0.00100	1	04/29/2017 06:11	WG975021
Isopropylbenzene	U		0.000326	0.00100	1	04/29/2017 06:11	WG975021
p-Isopropyltoluene	U		0.000350	0.00100	1	04/29/2017 06:11	WG975021
2-Butanone (MEK)	U		0.00393	0.0100	1	04/29/2017 06:11	WG975021
2-Hexanone	U		0.00382	0.0100	1	04/29/2017 06:11	WG975021
Methylene Chloride	U		0.00100	0.00500	1	04/29/2017 06:11	WG975021
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	04/29/2017 06:11	WG975021
Methyl tert-butyl ether	0.000919	J	0.000367	0.00100	1	04/29/2017 06:11	WG975021
Naphthalene	U		0.00100	0.00500	1	04/29/2017 06:11	WG975021
n-Propylbenzene	U		0.000349	0.00100	1	04/29/2017 06:11	WG975021
Styrene	U		0.000307	0.00100	1	04/29/2017 06:11	WG975021
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	04/29/2017 06:11	WG975021
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	04/29/2017 06:11	WG975021
Tetrachloroethene	U		0.000372	0.00100	1	04/29/2017 06:11	WG975021
Toluene	U		0.000412	0.00100	1	04/29/2017 06:11	WG975021
1,1,1-Trichloroethane	U		0.000319	0.00100	1	04/29/2017 06:11	WG975021
1,1,2-Trichloroethane	U		0.000383	0.00100	1	04/29/2017 06:11	WG975021
Trichloroethene	U		0.000398	0.00100	1	04/29/2017 06:11	WG975021
1,2,4-Trimethylbenzene	U		0.000373	0.00100	1	04/29/2017 06:11	WG975021
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	04/29/2017 06:11	WG975021
Vinyl chloride	U		0.000259	0.00100	1	04/29/2017 06:11	WG975021
o-Xylene	U		0.000341	0.00100	1	04/29/2017 06:11	WG975021
m&p-Xylene	U		0.000719	0.00200	1	04/29/2017 06:11	WG975021
Xylenes, Total	U		0.00106	0.00300	1	04/29/2017 06:11	WG975021
(S) Toluene-d8	*101*			*80.0-120*		*04/29/2017 06:11*	WG975021
(S) Dibromofluoromethane	*96.8*			*76.0-123*		*04/29/2017 06:11*	WG975021
(S) 4-Bromofluorobenzene	*102*			*80.0-120*		*04/29/2017 06:11*	WG975021

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	0.585		0.0247	0.100	1	04/29/2017 04:43	WG974616
(S) o-Terphenyl	*97.4*			*31.0-160*		*04/29/2017 04:43*	WG974616

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Dissolved Solids	13500		2.82	10.0	1	04/30/2017 11:49	WG974887

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	U		0.0197	0.100	1	05/01/2017 15:57	WG974945

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	4340		5.19	100	100	04/28/2017 12:04	WG974575
Fluoride	1.02		0.00990	0.100	1	04/28/2017 11:40	WG974575
Sulfate	5020		7.74	500	100	04/28/2017 12:04	WG974575

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.00551		0.000250	0.00200	1	04/30/2017 23:41	WG974645
Arsenic,Dissolved	0.00522		0.000250	0.00200	1	05/02/2017 01:48	WG974737
Barium	0.0155		0.000360	0.00500	1	05/02/2017 18:15	WG974645
Barium,Dissolved	0.0162		0.000360	0.00500	1	05/02/2017 01:48	WG974737
Calcium	648		0.0460	1.00	1	04/30/2017 23:41	WG974645
Chromium	U		0.000540	0.00200	1	04/30/2017 23:41	WG974645
Chromium,Dissolved	U		0.000540	0.00200	1	05/02/2017 01:48	WG974737
Iron	1.52		0.0150	0.100	1	04/30/2017 23:41	WG974645
Iron,Dissolved	0.617		0.0150	0.100	1	05/02/2017 01:48	WG974737
Lead	U		0.000240	0.00200	1	05/02/2017 18:15	WG974645
Lead,Dissolved	U		0.000240	0.00200	1	05/02/2017 01:48	WG974737
Manganese	1.62		0.000250	0.00500	1	04/30/2017 23:41	WG974645
Manganese,Dissolved	1.71		0.000250	0.00500	1	05/02/2017 01:48	WG974737
Potassium	24.3		0.0370	1.00	1	04/30/2017 23:41	WG974645
Selenium	U		0.000380	0.00200	1	04/30/2017 23:41	WG974645
Selenium,Dissolved	U		0.000380	0.00200	1	05/02/2017 01:48	WG974737
Sodium	3560		2.20	20.0	20	05/01/2017 16:46	WG974645

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
TPH (GC/FID) Low Fraction	U		0.0314	0.100	1	04/28/2017 07:27	WG974712
(S) a,a,a-Trifluorotoluene(FID)	*113*			*77.0-122*		*04/28/2017 07:27*	WG974712

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		0.0100	0.0500	1	04/29/2017 06:28	WG975021
Benzene	U		0.000331	0.00100	1	04/29/2017 06:28	WG975021
Bromodichloromethane	U		0.000380	0.00100	1	04/29/2017 06:28	WG975021
Bromoform	U		0.000469	0.00100	1	04/29/2017 06:28	WG975021
Bromomethane	U		0.000866	0.00500	1	04/29/2017 06:28	WG975021
n-Butylbenzene	U		0.000361	0.00100	1	04/29/2017 06:28	WG975021
sec-Butylbenzene	U		0.000365	0.00100	1	04/29/2017 06:28	WG975021
Carbon disulfide	U		0.000275	0.00100	1	04/29/2017 06:28	WG975021
Carbon tetrachloride	U		0.000379	0.00100	1	04/29/2017 06:28	WG975021

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chlorobenzene	U		0.000348	0.00100	1	04/29/2017 06:28	WG975021
Chlorodibromomethane	U		0.000327	0.00100	1	04/29/2017 06:28	WG975021
Chloroethane	U		0.000453	0.00500	1	04/29/2017 06:28	WG975021
Chloroform	U		0.000324	0.00500	1	04/29/2017 06:28	WG975021
Chloromethane	U		0.000276	0.00250	1	04/29/2017 06:28	WG975021
1,2-Dibromoethane	U		0.000381	0.00100	1	04/29/2017 06:28	WG975021
1,1-Dichloroethane	U		0.000259	0.00100	1	04/29/2017 06:28	WG975021
1,2-Dichloroethane	U		0.000361	0.00100	1	04/29/2017 06:28	WG975021
1,1-Dichloroethene	U		0.000398	0.00100	1	04/29/2017 06:28	WG975021
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	04/29/2017 06:28	WG975021
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	04/29/2017 06:28	WG975021
1,2-Dichloropropane	U		0.000306	0.00100	1	04/29/2017 06:28	WG975021
cis-1,3-Dichloropropene	U		0.000418	0.00100	1	04/29/2017 06:28	WG975021
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	04/29/2017 06:28	WG975021
Ethylbenzene	U		0.000384	0.00100	1	04/29/2017 06:28	WG975021
Isopropylbenzene	U		0.000326	0.00100	1	04/29/2017 06:28	WG975021
p-Isopropyltoluene	U		0.000350	0.00100	1	04/29/2017 06:28	WG975021
2-Butanone (MEK)	U		0.00393	0.0100	1	04/29/2017 06:28	WG975021
2-Hexanone	U		0.00382	0.0100	1	04/29/2017 06:28	WG975021
Methylene Chloride	U		0.00100	0.00500	1	04/29/2017 06:28	WG975021
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	04/29/2017 06:28	WG975021
Methyl tert-butyl ether	0.000665	J	0.000367	0.00100	1	04/29/2017 06:28	WG975021
Naphthalene	U		0.00100	0.00500	1	04/29/2017 06:28	WG975021
n-Propylbenzene	U		0.000349	0.00100	1	04/29/2017 06:28	WG975021
Styrene	U		0.000307	0.00100	1	04/29/2017 06:28	WG975021
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	04/29/2017 06:28	WG975021
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	04/29/2017 06:28	WG975021
Tetrachloroethene	U		0.000372	0.00100	1	04/29/2017 06:28	WG975021
Toluene	U		0.000412	0.00100	1	04/29/2017 06:28	WG975021
1,1,1-Trichloroethane	U		0.000319	0.00100	1	04/29/2017 06:28	WG975021
1,1,2-Trichloroethane	U		0.000383	0.00100	1	04/29/2017 06:28	WG975021
Trichloroethene	U		0.000398	0.00100	1	04/29/2017 06:28	WG975021
1,2,4-Trimethylbenzene	U		0.000373	0.00100	1	04/29/2017 06:28	WG975021
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	04/29/2017 06:28	WG975021
Vinyl chloride	U		0.000259	0.00100	1	04/29/2017 06:28	WG975021
o-Xylene	U		0.000341	0.00100	1	04/29/2017 06:28	WG975021
m&p-Xylene	U		0.000719	0.00200	1	04/29/2017 06:28	WG975021
Xylenes, Total	U		0.00106	0.00300	1	04/29/2017 06:28	WG975021
(S) Toluene-d8	*101*			*80.0-120*		*04/29/2017 06:28*	WG975021
(S) Dibromofluoromethane	*97.7*			*76.0-123*		*04/29/2017 06:28*	WG975021
(S) 4-Bromofluorobenzene	*101*			*80.0-120*		*04/29/2017 06:28*	WG975021

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	0.356		0.0247	0.100	1	04/29/2017 01:51	WG974616
(S) o-Terphenyl	*95.3*			*31.0-160*		*04/29/2017 01:51*	WG974616

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Dissolved Solids	17100		2.82	10.0	1	04/30/2017 12:15	WG974888

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	0.0220	J	0.0197	0.100	1	05/01/2017 15:59	WG974945

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	05/02/2017 09:23	WG974960

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	5790		5.19	100	100	04/28/2017 12:15	WG974575
Fluoride	1.46		0.00990	0.100	1	04/28/2017 11:52	WG974575
Sulfate	6330		7.74	500	100	04/28/2017 12:15	WG974575

Mercury by Method 7470A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Mercury	U		0.0000490	0.000200	1	04/28/2017 15:30	WG974464
Mercury,Dissolved	U		0.0000490	0.000200	1	04/28/2017 14:19	WG974524

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.00466		0.000250	0.00200	1	04/30/2017 21:00	WG974645
Arsenic,Dissolved	0.00465		0.000250	0.00200	1	05/02/2017 01:52	WG974737
Barium	0.0152		0.000360	0.00500	1	04/30/2017 21:00	WG974645
Barium,Dissolved	0.0170		0.000360	0.00500	1	05/02/2017 01:52	WG974737
Boron	2.04		0.0150	0.200	10	05/10/2017 12:27	WG974645
Boron,Dissolved	2.38		0.0300	0.400	20	05/02/2017 14:07	WG974737
Cadmium	U		0.000160	0.00100	1	04/30/2017 21:00	WG974645
Cadmium,Dissolved	U		0.000160	0.00100	1	05/02/2017 01:52	WG974737
Calcium	623		0.0460	1.00	1	04/30/2017 21:00	WG974645
Chromium	U		0.000540	0.00200	1	04/30/2017 21:00	WG974645
Chromium,Dissolved	U		0.000540	0.00200	1	05/02/2017 01:52	WG974737
Cobalt	U		0.000260	0.00200	1	04/30/2017 21:00	WG974645
Cobalt,Dissolved	0.000305	J	0.000260	0.00200	1	05/02/2017 01:52	WG974737
Iron	0.637		0.0150	0.100	1	04/30/2017 21:00	WG974645
Iron,Dissolved	0.382		0.0150	0.100	1	05/02/2017 01:52	WG974737
Lead	U		0.000240	0.00200	1	04/30/2017 21:00	WG974645
Lead,Dissolved	U		0.000240	0.00200	1	05/02/2017 01:52	WG974737
Manganese	0.723		0.000250	0.00500	1	04/30/2017 21:00	WG974645
Manganese,Dissolved	0.776		0.000250	0.00500	1	05/02/2017 01:52	WG974737
Nickel	0.00762		0.000350	0.00200	1	04/30/2017 21:00	WG974645
Nickel,Dissolved	0.00693		0.000350	0.00200	1	05/02/2017 01:52	WG974737
Potassium	38.8		0.0370	1.00	1	04/30/2017 21:00	WG974645
Selenium	0.000491	J	0.000380	0.00200	1	04/30/2017 21:00	WG974645
Selenium,Dissolved	0.000553	J	0.000380	0.00200	1	05/02/2017 01:52	WG974737
Sodium	3940		1.10	10.0	10	05/02/2017 18:18	WG974645

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Uranium	0.0305		0.000330	0.0100	1	04/30/2017 21:00	WG974645
Uranium,Dissolved	0.0309		0.000330	0.0100	1	05/02/2017 01:52	WG974737
Vanadium	0.000435	J	0.000180	0.00500	1	04/30/2017 21:00	WG974645
Vanadium,Dissolved	0.000553	J	0.000180	0.00500	1	05/02/2017 01:52	WG974737

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		0.0100	0.0500	1	04/29/2017 06:45	WG975021
Benzene	U		0.000331	0.00100	1	04/29/2017 06:45	WG975021
Bromodichloromethane	U		0.000380	0.00100	1	04/29/2017 06:45	WG975021
Bromoform	U		0.000469	0.00100	1	04/29/2017 06:45	WG975021
Bromomethane	U		0.000866	0.00500	1	04/29/2017 06:45	WG975021
n-Butylbenzene	U		0.000361	0.00100	1	04/29/2017 06:45	WG975021
sec-Butylbenzene	U		0.000365	0.00100	1	04/29/2017 06:45	WG975021
Carbon disulfide	U		0.000275	0.00100	1	04/29/2017 06:45	WG975021
Carbon tetrachloride	U		0.000379	0.00100	1	04/29/2017 06:45	WG975021
Chlorobenzene	U		0.000348	0.00100	1	04/29/2017 06:45	WG975021
Chlorodibromomethane	U		0.000327	0.00100	1	04/29/2017 06:45	WG975021
Chloroethane	U		0.000453	0.00500	1	04/29/2017 06:45	WG975021
Chloroform	U		0.000324	0.00500	1	04/29/2017 06:45	WG975021
Chloromethane	U		0.000276	0.00250	1	04/29/2017 06:45	WG975021
1,2-Dibromoethane	U		0.000381	0.00100	1	04/29/2017 06:45	WG975021
1,1-Dichloroethane	U		0.000259	0.00100	1	04/29/2017 06:45	WG975021
1,2-Dichloroethane	U		0.000361	0.00100	1	04/29/2017 06:45	WG975021
1,1-Dichloroethene	U		0.000398	0.00100	1	04/29/2017 06:45	WG975021
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	04/29/2017 06:45	WG975021
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	04/29/2017 06:45	WG975021
1,2-Dichloropropane	U		0.000306	0.00100	1	04/29/2017 06:45	WG975021
cis-1,3-Dichloropropene	U		0.000418	0.00100	1	04/29/2017 06:45	WG975021
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	04/29/2017 06:45	WG975021
Ethylbenzene	U		0.000384	0.00100	1	04/29/2017 06:45	WG975021
Isopropylbenzene	U		0.000326	0.00100	1	04/29/2017 06:45	WG975021
p-Isopropyltoluene	U		0.000350	0.00100	1	04/29/2017 06:45	WG975021
2-Butanone (MEK)	U		0.00393	0.0100	1	04/29/2017 06:45	WG975021
2-Hexanone	U		0.00382	0.0100	1	04/29/2017 06:45	WG975021
Methylene Chloride	U		0.00100	0.00500	1	04/29/2017 06:45	WG975021
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	04/29/2017 06:45	WG975021
Methyl tert-butyl ether	0.000650	J	0.000367	0.00100	1	04/29/2017 06:45	WG975021
Naphthalene	U		0.00100	0.00500	1	04/29/2017 06:45	WG975021
n-Propylbenzene	U		0.000349	0.00100	1	04/29/2017 06:45	WG975021
Styrene	U		0.000307	0.00100	1	04/29/2017 06:45	WG975021
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	04/29/2017 06:45	WG975021
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	04/29/2017 06:45	WG975021
Tetrachloroethene	U		0.000372	0.00100	1	04/29/2017 06:45	WG975021
Toluene	U		0.000412	0.00100	1	04/29/2017 06:45	WG975021
1,1,1-Trichloroethane	U		0.000319	0.00100	1	04/29/2017 06:45	WG975021
1,1,2-Trichloroethane	U		0.000383	0.00100	1	04/29/2017 06:45	WG975021
Trichloroethene	U		0.000398	0.00100	1	04/29/2017 06:45	WG975021
1,2,4-Trimethylbenzene	U		0.000373	0.00100	1	04/29/2017 06:45	WG975021
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	04/29/2017 06:45	WG975021
Vinyl chloride	U		0.000259	0.00100	1	04/29/2017 06:45	WG975021
o-Xylene	U		0.000341	0.00100	1	04/29/2017 06:45	WG975021
m&p-Xylene	U		0.000719	0.00200	1	04/29/2017 06:45	WG975021
Xylenes, Total	U		0.00106	0.00300	1	04/29/2017 06:45	WG975021
(S) Toluene-d8	*102*			*80.0-120*		*04/29/2017 06:45*	WG975021

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) Dibromofluoromethane	*96.8*			*76.0-123*		*04/29/2017 06:45*	WG975021
(S) 4-Bromofluorobenzene	*101*			*80.0-120*		*04/29/2017 06:45*	WG975021

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	0.516		0.0247	0.100	1	04/29/2017 02:08	WG974616
(S) o-Terphenyl	*97.1*			*31.0-160*		*04/29/2017 02:08*	WG974616

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Dissolved Solids	4080		2.82	10.0	1	04/30/2017 12:15	WG974888

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	U		0.0197	0.100	1	05/01/2017 16:00	WG974945

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	860		2.60	50.0	50	04/28/2017 13:37	WG974575
Fluoride	0.797		0.00990	0.100	1	04/28/2017 12:50	WG974575
Sulfate	2070		3.87	250	50	04/28/2017 13:37	WG974575

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.00883		0.000250	0.00200	1	04/30/2017 23:44	WG974645
Arsenic,Dissolved	0.00962		0.000250	0.00200	1	05/02/2017 01:56	WG974737
Barium	0.0137		0.000360	0.00500	1	05/02/2017 18:22	WG974645
Barium,Dissolved	0.0130		0.000360	0.00500	1	05/02/2017 01:56	WG974737
Calcium	576		0.0460	1.00	1	04/30/2017 23:44	WG974645
Chromium	U		0.000540	0.00200	1	04/30/2017 23:44	WG974645
Chromium,Dissolved	U		0.000540	0.00200	1	05/02/2017 01:56	WG974737
Iron	0.0793	J	0.0150	0.100	1	04/30/2017 23:44	WG974645
Iron,Dissolved	U		0.0150	0.100	1	05/02/2017 01:56	WG974737
Lead	0.00104	J	0.000240	0.00200	1	05/02/2017 18:22	WG974645
Lead,Dissolved	U		0.000240	0.00200	1	05/02/2017 01:56	WG974737
Manganese	0.803		0.000250	0.00500	1	04/30/2017 23:44	WG974645
Manganese,Dissolved	0.897		0.000250	0.00500	1	05/02/2017 01:56	WG974737
Potassium	5.91		0.0370	1.00	1	04/30/2017 23:44	WG974645
Selenium	U		0.000380	0.00200	1	04/30/2017 23:44	WG974645
Selenium,Dissolved	U		0.000380	0.00200	1	05/02/2017 01:56	WG974737
Sodium	481		0.110	1.00	1	05/02/2017 18:22	WG974645

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	0.0932	J	0.0314	0.100	1	04/28/2017 07:52	WG974712
(S) a,a,a-Trifluorotoluene(FID)	*113*			*77.0-122*		*04/28/2017 07:52*	WG974712

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		0.0100	0.0500	1	04/29/2017 07:01	WG975021
Benzene	U		0.000331	0.00100	1	04/29/2017 07:01	WG975021
Bromodichloromethane	U		0.000380	0.00100	1	04/29/2017 07:01	WG975021
Bromoform	U		0.000469	0.00100	1	04/29/2017 07:01	WG975021
Bromomethane	U		0.000866	0.00500	1	04/29/2017 07:01	WG975021
n-Butylbenzene	U		0.000361	0.00100	1	04/29/2017 07:01	WG975021
sec-Butylbenzene	U		0.000365	0.00100	1	04/29/2017 07:01	WG975021
Carbon disulfide	U		0.000275	0.00100	1	04/29/2017 07:01	WG975021
Carbon tetrachloride	U		0.000379	0.00100	1	04/29/2017 07:01	WG975021

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chlorobenzene	U		0.000348	0.00100	1	04/29/2017 07:01	WG975021
Chlorodibromomethane	U		0.000327	0.00100	1	04/29/2017 07:01	WG975021
Chloroethane	U		0.000453	0.00500	1	04/29/2017 07:01	WG975021
Chloroform	U		0.000324	0.00500	1	04/29/2017 07:01	WG975021
Chloromethane	U		0.000276	0.00250	1	04/29/2017 07:01	WG975021
1,2-Dibromoethane	U		0.000381	0.00100	1	04/29/2017 07:01	WG975021
1,1-Dichloroethane	U		0.000259	0.00100	1	04/29/2017 07:01	WG975021
1,2-Dichloroethane	U		0.000361	0.00100	1	04/29/2017 07:01	WG975021
1,1-Dichloroethene	U		0.000398	0.00100	1	04/29/2017 07:01	WG975021
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	04/29/2017 07:01	WG975021
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	04/29/2017 07:01	WG975021
1,2-Dichloropropane	U		0.000306	0.00100	1	04/29/2017 07:01	WG975021
cis-1,3-Dichloropropene	U		0.000418	0.00100	1	04/29/2017 07:01	WG975021
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	04/29/2017 07:01	WG975021
Ethylbenzene	U		0.000384	0.00100	1	04/29/2017 07:01	WG975021
Isopropylbenzene	U		0.000326	0.00100	1	04/29/2017 07:01	WG975021
p-Isopropyltoluene	U		0.000350	0.00100	1	04/29/2017 07:01	WG975021
2-Butanone (MEK)	U		0.00393	0.0100	1	04/29/2017 07:01	WG975021
2-Hexanone	U		0.00382	0.0100	1	04/29/2017 07:01	WG975021
Methylene Chloride	U		0.00100	0.00500	1	04/29/2017 07:01	WG975021
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	04/29/2017 07:01	WG975021
Methyl tert-butyl ether	U		0.000367	0.00100	1	04/29/2017 07:01	WG975021
Naphthalene	U		0.00100	0.00500	1	04/29/2017 07:01	WG975021
n-Propylbenzene	U		0.000349	0.00100	1	04/29/2017 07:01	WG975021
Styrene	U		0.000307	0.00100	1	04/29/2017 07:01	WG975021
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	04/29/2017 07:01	WG975021
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	04/29/2017 07:01	WG975021
Tetrachloroethene	U		0.000372	0.00100	1	04/29/2017 07:01	WG975021
Toluene	U		0.000412	0.00100	1	04/29/2017 07:01	WG975021
1,1,1-Trichloroethane	U		0.000319	0.00100	1	04/29/2017 07:01	WG975021
1,1,2-Trichloroethane	U		0.000383	0.00100	1	04/29/2017 07:01	WG975021
Trichloroethene	U		0.000398	0.00100	1	04/29/2017 07:01	WG975021
1,2,4-Trimethylbenzene	U		0.000373	0.00100	1	04/29/2017 07:01	WG975021
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	04/29/2017 07:01	WG975021
Vinyl chloride	U		0.000259	0.00100	1	04/29/2017 07:01	WG975021
o-Xylene	U		0.000341	0.00100	1	04/29/2017 07:01	WG975021
m&p-Xylene	U		0.000719	0.00200	1	04/29/2017 07:01	WG975021
Xylenes, Total	U		0.00106	0.00300	1	04/29/2017 07:01	WG975021
(S) Toluene-d8	*102*			*80.0-120*		*04/29/2017 07:01*	WG975021
(S) Dibromofluoromethane	*99.0*			*76.0-123*		*04/29/2017 07:01*	WG975021
(S) 4-Bromofluorobenzene	*101*			*80.0-120*		*04/29/2017 07:01*	WG975021

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	0.287		0.0247	0.100	1	04/29/2017 04:09	WG974616
(S) o-Terphenyl	*95.7*			*31.0-160*		*04/29/2017 04:09*	WG974616

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Dissolved Solids	4660		2.82	10.0	1	04/30/2017 12:15	WG974888

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	U		0.0197	0.100	1	05/01/2017 16:06	WG974945

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	1290		2.60	50.0	50	04/28/2017 13:49	WG974575
Fluoride	0.626		0.00990	0.100	1	04/28/2017 13:02	WG974575
Sulfate	2460		3.87	250	50	04/28/2017 13:49	WG974575

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.0156		0.000250	0.00200	1	04/30/2017 23:48	WG974645
Arsenic,Dissolved	0.0156		0.000250	0.00200	1	05/02/2017 01:59	WG974737
Barium	0.0149		0.000360	0.00500	1	05/02/2017 18:25	WG974645
Barium,Dissolved	0.0156		0.000360	0.00500	1	05/02/2017 01:59	WG974737
Calcium	673		0.0460	1.00	1	04/30/2017 23:48	WG974645
Chromium	U		0.000540	0.00200	1	04/30/2017 23:48	WG974645
Chromium,Dissolved	U		0.000540	0.00200	1	05/02/2017 01:59	WG974737
Iron	2.19		0.0150	0.100	1	04/30/2017 23:48	WG974645
Iron,Dissolved	0.419		0.0150	0.100	1	05/02/2017 01:59	WG974737
Lead	U		0.000240	0.00200	1	05/02/2017 18:25	WG974645
Lead,Dissolved	U		0.000240	0.00200	1	05/02/2017 01:59	WG974737
Manganese	0.440		0.000250	0.00500	1	04/30/2017 23:48	WG974645
Manganese,Dissolved	0.244		0.000250	0.00500	1	05/02/2017 01:59	WG974737
Potassium	4.87		0.0370	1.00	1	04/30/2017 23:48	WG974645
Selenium	U		0.000380	0.00200	1	04/30/2017 23:48	WG974645
Selenium,Dissolved	U		0.000380	0.00200	1	05/02/2017 01:59	WG974737
Sodium	852		1.10	10.0	10	05/01/2017 16:53	WG974645

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	2.35		0.0314	0.100	1	04/28/2017 08:16	WG974712
(S) a,a,a-Trifluorotoluene(FID)	*113*			*77.0-122*		*04/28/2017 08:16*	WG974712

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		0.0100	0.0500	1	04/29/2017 07:18	WG975021
Benzene	U		0.000331	0.00100	1	04/29/2017 07:18	WG975021
Bromodichloromethane	U		0.000380	0.00100	1	04/29/2017 07:18	WG975021
Bromoform	U		0.000469	0.00100	1	04/29/2017 07:18	WG975021
Bromomethane	U		0.000866	0.00500	1	04/29/2017 07:18	WG975021
n-Butylbenzene	U		0.000361	0.00100	1	04/29/2017 07:18	WG975021
sec-Butylbenzene	U		0.000365	0.00100	1	04/29/2017 07:18	WG975021
Carbon disulfide	U		0.000275	0.00100	1	04/29/2017 07:18	WG975021
Carbon tetrachloride	U		0.000379	0.00100	1	04/29/2017 07:18	WG975021

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chlorobenzene	U		0.000348	0.00100	1	04/29/2017 07:18	WG975021
Chlorodibromomethane	U		0.000327	0.00100	1	04/29/2017 07:18	WG975021
Chloroethane	U		0.000453	0.00500	1	04/29/2017 07:18	WG975021
Chloroform	U		0.000324	0.00500	1	04/29/2017 07:18	WG975021
Chloromethane	U		0.000276	0.00250	1	04/29/2017 07:18	WG975021
1,2-Dibromoethane	U		0.000381	0.00100	1	04/29/2017 07:18	WG975021
1,1-Dichloroethane	U		0.000259	0.00100	1	04/29/2017 07:18	WG975021
1,2-Dichloroethane	U		0.000361	0.00100	1	04/29/2017 07:18	WG975021
1,1-Dichloroethene	U		0.000398	0.00100	1	04/29/2017 07:18	WG975021
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	04/29/2017 07:18	WG975021
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	04/29/2017 07:18	WG975021
1,2-Dichloropropane	U		0.000306	0.00100	1	04/29/2017 07:18	WG975021
cis-1,3-Dichloropropene	U		0.000418	0.00100	1	04/29/2017 07:18	WG975021
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	04/29/2017 07:18	WG975021
Ethylbenzene	U		0.000384	0.00100	1	04/29/2017 07:18	WG975021
Isopropylbenzene	U		0.000326	0.00100	1	04/29/2017 07:18	WG975021
p-Isopropyltoluene	U		0.000350	0.00100	1	04/29/2017 07:18	WG975021
2-Butanone (MEK)	U		0.00393	0.0100	1	04/29/2017 07:18	WG975021
2-Hexanone	U		0.00382	0.0100	1	04/29/2017 07:18	WG975021
Methylene Chloride	U		0.00100	0.00500	1	04/29/2017 07:18	WG975021
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	04/29/2017 07:18	WG975021
Methyl tert-butyl ether	U		0.000367	0.00100	1	04/29/2017 07:18	WG975021
Naphthalene	U		0.00100	0.00500	1	04/29/2017 07:18	WG975021
n-Propylbenzene	U		0.000349	0.00100	1	04/29/2017 07:18	WG975021
Styrene	U		0.000307	0.00100	1	04/29/2017 07:18	WG975021
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	04/29/2017 07:18	WG975021
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	04/29/2017 07:18	WG975021
Tetrachloroethene	U		0.000372	0.00100	1	04/29/2017 07:18	WG975021
Toluene	U		0.000412	0.00100	1	04/29/2017 07:18	WG975021
1,1,1-Trichloroethane	U		0.000319	0.00100	1	04/29/2017 07:18	WG975021
1,1,2-Trichloroethane	U		0.000383	0.00100	1	04/29/2017 07:18	WG975021
Trichloroethene	U		0.000398	0.00100	1	04/29/2017 07:18	WG975021
1,2,4-Trimethylbenzene	U		0.000373	0.00100	1	04/29/2017 07:18	WG975021
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	04/29/2017 07:18	WG975021
Vinyl chloride	U		0.000259	0.00100	1	04/29/2017 07:18	WG975021
o-Xylene	U		0.000341	0.00100	1	04/29/2017 07:18	WG975021
m&p-Xylene	U		0.000719	0.00200	1	04/29/2017 07:18	WG975021
Xylenes, Total	U		0.00106	0.00300	1	04/29/2017 07:18	WG975021
(S) Toluene-d8	*101*			*80.0-120*		*04/29/2017 07:18*	WG975021
(S) Dibromofluoromethane	*97.9*			*76.0-123*		*04/29/2017 07:18*	WG975021
(S) 4-Bromofluorobenzene	*105*			*80.0-120*		*04/29/2017 07:18*	WG975021

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	0.899		0.0247	0.100	1	04/29/2017 02:25	WG974616
(S) o-Terphenyl	*98.6*			*31.0-160*		*04/29/2017 02:25*	WG974616

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Dissolved Solids	9780		2.82	10.0	1	04/30/2017 12:15	WG974888

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	U		0.0197	0.100	1	05/01/2017 16:07	WG974945

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	3110		5.19	100	100	04/28/2017 14:00	WG974575
Fluoride	0.739		0.00990	0.100	1	04/28/2017 13:14	WG974575
Sulfate	3950		7.74	500	100	04/28/2017 14:00	WG974575

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.00565		0.000250	0.00200	1	04/30/2017 23:51	WG974645
Arsenic,Dissolved	0.000470	J	0.000250	0.00200	1	05/02/2017 02:03	WG974737
Barium	0.0205		0.000360	0.00500	1	05/02/2017 18:29	WG974645
Barium,Dissolved	0.0192		0.000360	0.00500	1	05/02/2017 02:03	WG974737
Calcium	715		0.0460	1.00	1	04/30/2017 23:51	WG974645
Chromium	U		0.000540	0.00200	1	04/30/2017 23:51	WG974645
Chromium,Dissolved	U		0.000540	0.00200	1	05/02/2017 02:03	WG974737
Iron	10.6		0.0150	0.100	1	04/30/2017 23:51	WG974645
Iron,Dissolved	U		0.0150	0.100	1	05/02/2017 02:03	WG974737
Lead	U		0.000240	0.00200	1	05/02/2017 18:29	WG974645
Lead,Dissolved	U		0.000240	0.00200	1	05/02/2017 02:03	WG974737
Manganese	0.448		0.000250	0.00500	1	04/30/2017 23:51	WG974645
Manganese,Dissolved	0.463		0.000250	0.00500	1	05/02/2017 02:03	WG974737
Potassium	6.44		0.0370	1.00	1	04/30/2017 23:51	WG974645
Selenium	U		0.000380	0.00200	1	04/30/2017 23:51	WG974645
Selenium,Dissolved	U		0.000380	0.00200	1	05/02/2017 02:03	WG974737
Sodium	2140		1.10	10.0	10	05/01/2017 16:58	WG974645

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
TPH (GC/FID) Low Fraction	U		0.0314	0.100	1	04/28/2017 08:40	WG974712
(S) a,a,a-Trifluorotoluene(FID)	*112*			*77.0-122*		*04/28/2017 08:40*	WG974712

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		0.0100	0.0500	1	04/29/2017 07:35	WG975021
Benzene	U		0.000331	0.00100	1	04/29/2017 07:35	WG975021
Bromodichloromethane	U		0.000380	0.00100	1	04/29/2017 07:35	WG975021
Bromoform	U		0.000469	0.00100	1	04/29/2017 07:35	WG975021
Bromomethane	U		0.000866	0.00500	1	04/29/2017 07:35	WG975021
n-Butylbenzene	U		0.000361	0.00100	1	04/29/2017 07:35	WG975021
sec-Butylbenzene	U		0.000365	0.00100	1	04/29/2017 07:35	WG975021
Carbon disulfide	U		0.000275	0.00100	1	04/29/2017 07:35	WG975021
Carbon tetrachloride	U		0.000379	0.00100	1	04/29/2017 07:35	WG975021

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chlorobenzene	U		0.000348	0.00100	1	04/29/2017 07:35	WG975021
Chlorodibromomethane	U		0.000327	0.00100	1	04/29/2017 07:35	WG975021
Chloroethane	U		0.000453	0.00500	1	04/29/2017 07:35	WG975021
Chloroform	U		0.000324	0.00500	1	04/29/2017 07:35	WG975021
Chloromethane	U		0.000276	0.00250	1	04/29/2017 07:35	WG975021
1,2-Dibromoethane	U		0.000381	0.00100	1	04/29/2017 07:35	WG975021
1,1-Dichloroethane	U		0.000259	0.00100	1	04/29/2017 07:35	WG975021
1,2-Dichloroethane	U		0.000361	0.00100	1	04/29/2017 07:35	WG975021
1,1-Dichloroethene	U		0.000398	0.00100	1	04/29/2017 07:35	WG975021
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	04/29/2017 07:35	WG975021
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	04/29/2017 07:35	WG975021
1,2-Dichloropropane	U		0.000306	0.00100	1	04/29/2017 07:35	WG975021
cis-1,3-Dichloropropene	U		0.000418	0.00100	1	04/29/2017 07:35	WG975021
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	04/29/2017 07:35	WG975021
Ethylbenzene	U		0.000384	0.00100	1	04/29/2017 07:35	WG975021
Isopropylbenzene	U		0.000326	0.00100	1	04/29/2017 07:35	WG975021
p-Isopropyltoluene	U		0.000350	0.00100	1	04/29/2017 07:35	WG975021
2-Butanone (MEK)	U		0.00393	0.0100	1	04/29/2017 07:35	WG975021
2-Hexanone	U		0.00382	0.0100	1	04/29/2017 07:35	WG975021
Methylene Chloride	U		0.00100	0.00500	1	04/29/2017 07:35	WG975021
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	04/29/2017 07:35	WG975021
Methyl tert-butyl ether	U		0.000367	0.00100	1	04/29/2017 07:35	WG975021
Naphthalene	U		0.00100	0.00500	1	04/29/2017 07:35	WG975021
n-Propylbenzene	U		0.000349	0.00100	1	04/29/2017 07:35	WG975021
Styrene	U		0.000307	0.00100	1	04/29/2017 07:35	WG975021
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	04/29/2017 07:35	WG975021
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	04/29/2017 07:35	WG975021
Tetrachloroethene	U		0.000372	0.00100	1	04/29/2017 07:35	WG975021
Toluene	U		0.000412	0.00100	1	04/29/2017 07:35	WG975021
1,1,1-Trichloroethane	U		0.000319	0.00100	1	04/29/2017 07:35	WG975021
1,1,2-Trichloroethane	U		0.000383	0.00100	1	04/29/2017 07:35	WG975021
Trichloroethene	U		0.000398	0.00100	1	04/29/2017 07:35	WG975021
1,2,4-Trimethylbenzene	U		0.000373	0.00100	1	04/29/2017 07:35	WG975021
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	04/29/2017 07:35	WG975021
Vinyl chloride	U		0.000259	0.00100	1	04/29/2017 07:35	WG975021
o-Xylene	U		0.000341	0.00100	1	04/29/2017 07:35	WG975021
m&p-Xylene	U		0.000719	0.00200	1	04/29/2017 07:35	WG975021
Xylenes, Total	U		0.00106	0.00300	1	04/29/2017 07:35	WG975021
(S) Toluene-d8	*100*			*80.0-120*		*04/29/2017 07:35*	WG975021
(S) Dibromofluoromethane	*98.8*			*76.0-123*		*04/29/2017 07:35*	WG975021
(S) 4-Bromofluorobenzene	*99.8*			*80.0-120*		*04/29/2017 07:35*	WG975021

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	0.0365	J	0.0247	0.100	1	04/29/2017 17:16	WG974616
(S) o-Terphenyl	*88.8*			*31.0-160*		*04/29/2017 17:16*	WG974616

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Dissolved Solids	7810		2.82	10.0	1	04/30/2017 12:15	WG974888

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	U		0.0197	0.100	1	05/01/2017 16:08	WG974945

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	2230		5.19	100	100	04/28/2017 14:12	WG974575
Fluoride	1.07		0.00990	0.100	1	04/28/2017 13:25	WG974575
Sulfate	2930		7.74	500	100	04/28/2017 14:12	WG974575

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.0195		0.000250	0.00200	1	04/30/2017 20:43	WG974645
Arsenic,Dissolved	0.0131		0.000250	0.00200	1	05/02/2017 02:07	WG974737
Barium	0.0154		0.000360	0.00500	1	04/30/2017 20:43	WG974645
Barium,Dissolved	0.0150		0.000360	0.00500	1	05/02/2017 02:07	WG974737
Calcium	434		0.460	10.0	10	05/02/2017 12:11	WG974645
Chromium	0.000720	J	0.000540	0.00200	1	04/30/2017 20:43	WG974645
Chromium,Dissolved	U		0.000540	0.00200	1	05/02/2017 02:07	WG974737
Iron	3.07		0.0150	0.100	1	04/30/2017 20:43	WG974645
Iron,Dissolved	0.0169	J	0.0150	0.100	1	05/02/2017 02:07	WG974737
Lead	U		0.000240	0.00200	1	04/30/2017 20:43	WG974645
Lead,Dissolved	U		0.000240	0.00200	1	05/02/2017 02:07	WG974737
Manganese	0.521	V	0.000250	0.00500	1	04/30/2017 20:43	WG974645
Manganese,Dissolved	0.541		0.000250	0.00500	1	05/02/2017 02:07	WG974737
Potassium	3.89	O1	0.0370	1.00	1	04/30/2017 20:43	WG974645
Selenium	U		0.000380	0.00200	1	04/30/2017 20:43	WG974645
Selenium,Dissolved	U		0.000380	0.00200	1	05/02/2017 02:07	WG974737
Sodium	1780		1.10	10.0	10	05/09/2017 20:23	WG974645

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	0.402		0.0314	0.100	1	04/28/2017 14:39	WG974800
(S) a,a,a-Trifluorotoluene(FID)	*102*			*77.0-122*		*04/28/2017 14:39*	WG974800

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		0.0100	0.0500	1	04/29/2017 07:52	WG975021
Benzene	U		0.000331	0.00100	1	04/29/2017 07:52	WG975021
Bromodichloromethane	U		0.000380	0.00100	1	04/29/2017 07:52	WG975021
Bromoform	U		0.000469	0.00100	1	04/29/2017 07:52	WG975021
Bromomethane	U		0.000866	0.00500	1	04/29/2017 07:52	WG975021
n-Butylbenzene	U		0.000361	0.00100	1	04/29/2017 07:52	WG975021
sec-Butylbenzene	U		0.000365	0.00100	1	04/29/2017 07:52	WG975021
Carbon disulfide	U		0.000275	0.00100	1	04/29/2017 07:52	WG975021
Carbon tetrachloride	U		0.000379	0.00100	1	04/29/2017 07:52	WG975021

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chlorobenzene	U		0.000348	0.00100	1	04/29/2017 07:52	WG975021
Chlorodibromomethane	U		0.000327	0.00100	1	04/29/2017 07:52	WG975021
Chloroethane	U		0.000453	0.00500	1	04/29/2017 07:52	WG975021
Chloroform	U		0.000324	0.00500	1	04/29/2017 07:52	WG975021
Chloromethane	U		0.000276	0.00250	1	04/29/2017 07:52	WG975021
1,2-Dibromoethane	U		0.000381	0.00100	1	04/29/2017 07:52	WG975021
1,1-Dichloroethane	U		0.000259	0.00100	1	04/29/2017 07:52	WG975021
1,2-Dichloroethane	U		0.000361	0.00100	1	04/29/2017 07:52	WG975021
1,1-Dichloroethene	U		0.000398	0.00100	1	04/29/2017 07:52	WG975021
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	04/29/2017 07:52	WG975021
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	04/29/2017 07:52	WG975021
1,2-Dichloropropane	U		0.000306	0.00100	1	04/29/2017 07:52	WG975021
cis-1,3-Dichloropropene	U		0.000418	0.00100	1	04/29/2017 07:52	WG975021
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	04/29/2017 07:52	WG975021
Ethylbenzene	U		0.000384	0.00100	1	04/29/2017 07:52	WG975021
Isopropylbenzene	U		0.000326	0.00100	1	04/29/2017 07:52	WG975021
p-Isopropyltoluene	U		0.000350	0.00100	1	04/29/2017 07:52	WG975021
2-Butanone (MEK)	U		0.00393	0.0100	1	04/29/2017 07:52	WG975021
2-Hexanone	U		0.00382	0.0100	1	04/29/2017 07:52	WG975021
Methylene Chloride	U		0.00100	0.00500	1	04/29/2017 07:52	WG975021
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	04/29/2017 07:52	WG975021
Methyl tert-butyl ether	0.00148		0.000367	0.00100	1	04/29/2017 07:52	WG975021
Naphthalene	U		0.00100	0.00500	1	04/29/2017 07:52	WG975021
n-Propylbenzene	U		0.000349	0.00100	1	04/29/2017 07:52	WG975021
Styrene	U		0.000307	0.00100	1	04/29/2017 07:52	WG975021
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	04/29/2017 07:52	WG975021
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	04/29/2017 07:52	WG975021
Tetrachloroethene	U		0.000372	0.00100	1	04/29/2017 07:52	WG975021
Toluene	U		0.000412	0.00100	1	04/29/2017 07:52	WG975021
1,1,1-Trichloroethane	U		0.000319	0.00100	1	04/29/2017 07:52	WG975021
1,1,2-Trichloroethane	U		0.000383	0.00100	1	04/29/2017 07:52	WG975021
Trichloroethene	U		0.000398	0.00100	1	04/29/2017 07:52	WG975021
1,2,4-Trimethylbenzene	U		0.000373	0.00100	1	04/29/2017 07:52	WG975021
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	04/29/2017 07:52	WG975021
Vinyl chloride	U		0.000259	0.00100	1	04/29/2017 07:52	WG975021
o-Xylene	U		0.000341	0.00100	1	04/29/2017 07:52	WG975021
m&p-Xylene	U		0.000719	0.00200	1	04/29/2017 07:52	WG975021
Xylenes, Total	U		0.00106	0.00300	1	04/29/2017 07:52	WG975021
(S) Toluene-d8	*101*			*80.0-120*		*04/29/2017 07:52*	WG975021
(S) Dibromofluoromethane	*98.0*			*76.0-123*		*04/29/2017 07:52*	WG975021
(S) 4-Bromofluorobenzene	*103*			*80.0-120*		*04/29/2017 07:52*	WG975021

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	1.24		0.0247	0.100	1	04/29/2017 02:43	WG974616
(S) o-Terphenyl	*97.0*			*31.0-160*		*04/29/2017 02:43*	WG974616

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Dissolved Solids	3.00	J	2.82	10.0	1	04/30/2017 12:15	WG974888

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	U		0.0197	0.100	1	05/01/2017 16:09	WG974945

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	0.282	J P1	0.0519	1.00	1	04/28/2017 11:18	WG974575
Fluoride	U		0.00990	0.100	1	04/28/2017 11:18	WG974575
Sulfate	0.463	J P1	0.0774	5.00	1	04/28/2017 11:18	WG974575

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	U		0.000250	0.00200	1	05/04/2017 16:48	WG974743
Arsenic,Dissolved	U		0.000250	0.00200	1	05/02/2017 02:28	WG974740
Barium	U		0.000360	0.00500	1	05/04/2017 16:48	WG974743
Barium,Dissolved	U		0.000360	0.00500	1	05/02/2017 02:28	WG974740
Calcium	0.135	J	0.0460	1.00	1	05/04/2017 16:48	WG974743
Chromium	U		0.000540	0.00200	1	05/04/2017 16:48	WG974743
Chromium,Dissolved	U		0.000540	0.00200	1	05/02/2017 02:28	WG974740
Iron	U		0.0150	0.100	1	05/04/2017 16:48	WG974743
Iron,Dissolved	U		0.0150	0.100	1	05/02/2017 02:28	WG974740
Lead	U		0.000240	0.00200	1	05/04/2017 16:48	WG974743
Lead,Dissolved	U		0.000240	0.00200	1	05/02/2017 02:28	WG974740
Manganese	0.000252	J	0.000250	0.00500	1	05/04/2017 16:48	WG974743
Manganese,Dissolved	0.000400	J	0.000250	0.00500	1	05/02/2017 02:28	WG974740
Potassium	U		0.0370	1.00	1	05/04/2017 16:48	WG974743
Selenium	0.000910	B J	0.000380	0.00200	1	05/04/2017 16:48	WG974743
Selenium,Dissolved	U		0.000380	0.00200	1	05/02/2017 02:28	WG974740
Sodium	U		0.110	1.00	1	05/04/2017 16:48	WG974743

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
TPH (GC/FID) Low Fraction	U		0.0314	0.100	1	04/28/2017 16:03	WG974800
(S) a,a,a-Trifluorotoluene(FID)	*103*			*77.0-122*		*04/28/2017 16:03*	WG974800

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		0.0100	0.0500	1	04/29/2017 08:09	WG975021
Benzene	U		0.000331	0.00100	1	04/29/2017 08:09	WG975021
Bromodichloromethane	U		0.000380	0.00100	1	04/29/2017 08:09	WG975021
Bromoform	U		0.000469	0.00100	1	04/29/2017 08:09	WG975021
Bromomethane	U		0.000866	0.00500	1	04/29/2017 08:09	WG975021
n-Butylbenzene	U		0.000361	0.00100	1	04/29/2017 08:09	WG975021
sec-Butylbenzene	U		0.000365	0.00100	1	04/29/2017 08:09	WG975021
Carbon disulfide	U		0.000275	0.00100	1	04/29/2017 08:09	WG975021
Carbon tetrachloride	U		0.000379	0.00100	1	04/29/2017 08:09	WG975021

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chlorobenzene	U		0.000348	0.00100	1	04/29/2017 08:09	WG975021
Chlorodibromomethane	U		0.000327	0.00100	1	04/29/2017 08:09	WG975021
Chloroethane	U		0.000453	0.00500	1	04/29/2017 08:09	WG975021
Chloroform	U		0.000324	0.00500	1	04/29/2017 08:09	WG975021
Chloromethane	U		0.000276	0.00250	1	04/29/2017 08:09	WG975021
1,2-Dibromoethane	U		0.000381	0.00100	1	04/29/2017 08:09	WG975021
1,1-Dichloroethane	U		0.000259	0.00100	1	04/29/2017 08:09	WG975021
1,2-Dichloroethane	U		0.000361	0.00100	1	04/29/2017 08:09	WG975021
1,1-Dichloroethene	U		0.000398	0.00100	1	04/29/2017 08:09	WG975021
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	04/29/2017 08:09	WG975021
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	04/29/2017 08:09	WG975021
1,2-Dichloropropane	U		0.000306	0.00100	1	04/29/2017 08:09	WG975021
cis-1,3-Dichloropropene	U		0.000418	0.00100	1	04/29/2017 08:09	WG975021
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	04/29/2017 08:09	WG975021
Ethylbenzene	U		0.000384	0.00100	1	04/29/2017 08:09	WG975021
Isopropylbenzene	U		0.000326	0.00100	1	04/29/2017 08:09	WG975021
p-Isopropyltoluene	U		0.000350	0.00100	1	04/29/2017 08:09	WG975021
2-Butanone (MEK)	U		0.00393	0.0100	1	04/29/2017 08:09	WG975021
2-Hexanone	U		0.00382	0.0100	1	04/29/2017 08:09	WG975021
Methylene Chloride	U		0.00100	0.00500	1	04/29/2017 08:09	WG975021
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	04/29/2017 08:09	WG975021
Methyl tert-butyl ether	U		0.000367	0.00100	1	04/29/2017 08:09	WG975021
Naphthalene	U		0.00100	0.00500	1	04/29/2017 08:09	WG975021
n-Propylbenzene	U		0.000349	0.00100	1	04/29/2017 08:09	WG975021
Styrene	U		0.000307	0.00100	1	04/29/2017 08:09	WG975021
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	04/29/2017 08:09	WG975021
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	04/29/2017 08:09	WG975021
Tetrachloroethene	U		0.000372	0.00100	1	04/29/2017 08:09	WG975021
Toluene	0.000632	J	0.000412	0.00100	1	04/29/2017 08:09	WG975021
1,1,1-Trichloroethane	U		0.000319	0.00100	1	04/29/2017 08:09	WG975021
1,1,2-Trichloroethane	U		0.000383	0.00100	1	04/29/2017 08:09	WG975021
Trichloroethene	U		0.000398	0.00100	1	04/29/2017 08:09	WG975021
1,2,4-Trimethylbenzene	U		0.000373	0.00100	1	04/29/2017 08:09	WG975021
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	04/29/2017 08:09	WG975021
Vinyl chloride	U		0.000259	0.00100	1	04/29/2017 08:09	WG975021
o-Xylene	U		0.000341	0.00100	1	04/29/2017 08:09	WG975021
m&p-Xylene	U		0.000719	0.00200	1	04/29/2017 08:09	WG975021
Xylenes, Total	U		0.00106	0.00300	1	04/29/2017 08:09	WG975021
(S) Toluene-d8	*102*			*80.0-120*		*04/29/2017 08:09*	WG975021
(S) Dibromofluoromethane	*98.0*			*76.0-123*		*04/29/2017 08:09*	WG975021
(S) 4-Bromofluorobenzene	*99.9*			*80.0-120*		*04/29/2017 08:09*	WG975021

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	04/29/2017 05:18	WG974616
(S) o-Terphenyl	*90.8*			*31.0-160*		*04/29/2017 05:18*	WG974616

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Dissolved Solids	10.0	J	2.82	10.0	1	04/30/2017 12:15	WG974888

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	U		0.0197	0.100	1	05/01/2017 16:10	WG974945

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	0.170	J	0.0519	1.00	1	04/28/2017 14:24	WG974575
Fluoride	U		0.00990	0.100	1	04/28/2017 14:24	WG974575
Sulfate	0.518	J	0.0774	5.00	1	04/28/2017 14:24	WG974575

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	U		0.000250	0.00200	1	05/04/2017 16:51	WG974743
Arsenic,Dissolved	U		0.000250	0.00200	1	05/02/2017 02:50	WG974740
Barium	U		0.000360	0.00500	1	05/04/2017 16:51	WG974743
Barium,Dissolved	U		0.000360	0.00500	1	05/02/2017 02:50	WG974740
Calcium	U		0.0460	1.00	1	05/04/2017 16:51	WG974743
Chromium	U		0.000540	0.00200	1	05/04/2017 16:51	WG974743
Chromium,Dissolved	U		0.000540	0.00200	1	05/02/2017 02:50	WG974740
Iron	U		0.0150	0.100	1	05/04/2017 16:51	WG974743
Iron,Dissolved	U		0.0150	0.100	1	05/02/2017 02:50	WG974740
Lead	U		0.000240	0.00200	1	05/04/2017 16:51	WG974743
Lead,Dissolved	U		0.000240	0.00200	1	05/02/2017 02:50	WG974740
Manganese	U		0.000250	0.00500	1	05/04/2017 16:51	WG974743
Manganese,Dissolved	0.000255	J	0.000250	0.00500	1	05/02/2017 02:50	WG974740
Potassium	U		0.0370	1.00	1	05/04/2017 16:51	WG974743
Selenium	0.000733	B J	0.000380	0.00200	1	05/04/2017 16:51	WG974743
Selenium,Dissolved	U		0.000380	0.00200	1	05/02/2017 02:50	WG974740
Sodium	U		0.110	1.00	1	05/04/2017 16:51	WG974743

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
TPH (GC/FID) Low Fraction	U		0.0314	0.100	1	04/28/2017 16:24	WG974800
(S) a,a,a-Trifluorotoluene(FID)	*103*			*77.0-122*		*04/28/2017 16:24*	WG974800

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		0.0100	0.0500	1	04/29/2017 08:26	WG975021
Benzene	U		0.000331	0.00100	1	04/29/2017 08:26	WG975021
Bromodichloromethane	U		0.000380	0.00100	1	04/29/2017 08:26	WG975021
Bromoform	U		0.000469	0.00100	1	04/29/2017 08:26	WG975021
Bromomethane	U		0.000866	0.00500	1	04/29/2017 08:26	WG975021
n-Butylbenzene	U		0.000361	0.00100	1	04/29/2017 08:26	WG975021
sec-Butylbenzene	U		0.000365	0.00100	1	04/29/2017 08:26	WG975021
Carbon disulfide	U		0.000275	0.00100	1	04/29/2017 08:26	WG975021
Carbon tetrachloride	U		0.000379	0.00100	1	04/29/2017 08:26	WG975021

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chlorobenzene	U		0.000348	0.00100	1	04/29/2017 08:26	WG975021
Chlorodibromomethane	U		0.000327	0.00100	1	04/29/2017 08:26	WG975021
Chloroethane	U		0.000453	0.00500	1	04/29/2017 08:26	WG975021
Chloroform	U		0.000324	0.00500	1	04/29/2017 08:26	WG975021
Chloromethane	U		0.000276	0.00250	1	04/29/2017 08:26	WG975021
1,2-Dibromoethane	U		0.000381	0.00100	1	04/29/2017 08:26	WG975021
1,1-Dichloroethane	U		0.000259	0.00100	1	04/29/2017 08:26	WG975021
1,2-Dichloroethane	U		0.000361	0.00100	1	04/29/2017 08:26	WG975021
1,1-Dichloroethene	U		0.000398	0.00100	1	04/29/2017 08:26	WG975021
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	04/29/2017 08:26	WG975021
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	04/29/2017 08:26	WG975021
1,2-Dichloropropane	U		0.000306	0.00100	1	04/29/2017 08:26	WG975021
cis-1,3-Dichloropropene	U		0.000418	0.00100	1	04/29/2017 08:26	WG975021
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	04/29/2017 08:26	WG975021
Ethylbenzene	U		0.000384	0.00100	1	04/29/2017 08:26	WG975021
Isopropylbenzene	U		0.000326	0.00100	1	04/29/2017 08:26	WG975021
p-Isopropyltoluene	U		0.000350	0.00100	1	04/29/2017 08:26	WG975021
2-Butanone (MEK)	U		0.00393	0.0100	1	04/29/2017 08:26	WG975021
2-Hexanone	U		0.00382	0.0100	1	04/29/2017 08:26	WG975021
Methylene Chloride	U		0.00100	0.00500	1	04/29/2017 08:26	WG975021
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	04/29/2017 08:26	WG975021
Methyl tert-butyl ether	U		0.000367	0.00100	1	04/29/2017 08:26	WG975021
Naphthalene	U		0.00100	0.00500	1	04/29/2017 08:26	WG975021
n-Propylbenzene	U		0.000349	0.00100	1	04/29/2017 08:26	WG975021
Styrene	U		0.000307	0.00100	1	04/29/2017 08:26	WG975021
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	04/29/2017 08:26	WG975021
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	04/29/2017 08:26	WG975021
Tetrachloroethene	U		0.000372	0.00100	1	04/29/2017 08:26	WG975021
Toluene	0.000746	J	0.000412	0.00100	1	04/29/2017 08:26	WG975021
1,1,1-Trichloroethane	U		0.000319	0.00100	1	04/29/2017 08:26	WG975021
1,1,2-Trichloroethane	U		0.000383	0.00100	1	04/29/2017 08:26	WG975021
Trichloroethene	U		0.000398	0.00100	1	04/29/2017 08:26	WG975021
1,2,4-Trimethylbenzene	U		0.000373	0.00100	1	04/29/2017 08:26	WG975021
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	04/29/2017 08:26	WG975021
Vinyl chloride	U		0.000259	0.00100	1	04/29/2017 08:26	WG975021
o-Xylene	U		0.000341	0.00100	1	04/29/2017 08:26	WG975021
m&p-Xylene	U		0.000719	0.00200	1	04/29/2017 08:26	WG975021
Xylenes, Total	U		0.00106	0.00300	1	04/29/2017 08:26	WG975021
(S) Toluene-d8	*99.2*			*80.0-120*		*04/29/2017 08:26*	WG975021
(S) Dibromofluoromethane	*98.0*			*76.0-123*		*04/29/2017 08:26*	WG975021
(S) 4-Bromofluorobenzene	*95.2*			*80.0-120*		*04/29/2017 08:26*	WG975021

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	04/29/2017 03:52	WG974616
(S) o-Terphenyl	*89.4*			*31.0-160*		*04/29/2017 03:52*	WG974616

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Dissolved Solids	7.00	J	2.82	10.0	1	04/30/2017 12:15	WG974888

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	0.0200	J P1	0.0197	0.100	1	05/01/2017 16:11	WG974945

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	0.369	J P1	0.0519	1.00	1	04/30/2017 22:54	WG975157
Fluoride	U		0.00990	0.100	1	04/30/2017 22:54	WG975157
Sulfate	0.490	J P1	0.0774	5.00	1	04/30/2017 22:54	WG975157

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	U		0.000250	0.00200	1	05/04/2017 16:55	WG974743
Arsenic,Dissolved	U		0.000250	0.00200	1	05/02/2017 02:53	WG974740
Barium	U		0.000360	0.00500	1	05/04/2017 16:55	WG974743
Barium,Dissolved	U		0.000360	0.00500	1	05/02/2017 02:53	WG974740
Calcium	U		0.0460	1.00	1	05/04/2017 16:55	WG974743
Chromium	U		0.000540	0.00200	1	05/04/2017 16:55	WG974743
Chromium,Dissolved	U		0.000540	0.00200	1	05/02/2017 02:53	WG974740
Iron	U		0.0150	0.100	1	05/04/2017 16:55	WG974743
Iron,Dissolved	U		0.0150	0.100	1	05/02/2017 02:53	WG974740
Lead	U		0.000240	0.00200	1	05/04/2017 16:55	WG974743
Lead,Dissolved	U		0.000240	0.00200	1	05/02/2017 02:53	WG974740
Manganese	U		0.000250	0.00500	1	05/04/2017 16:55	WG974743
Manganese,Dissolved	U		0.000250	0.00500	1	05/02/2017 02:53	WG974740
Potassium	U		0.0370	1.00	1	05/04/2017 16:55	WG974743
Selenium	0.000544	B J	0.000380	0.00200	1	05/04/2017 16:55	WG974743
Selenium,Dissolved	U		0.000380	0.00200	1	05/02/2017 02:53	WG974740
Sodium	U		0.110	1.00	1	05/04/2017 16:55	WG974743

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
TPH (GC/FID) Low Fraction	U		0.0314	0.100	1	04/28/2017 16:45	WG974800
(S) a,a,a-Trifluorotoluene(FID)	*103*			*77.0-122*		*04/28/2017 16:45*	WG974800

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		0.0100	0.0500	1	04/29/2017 08:42	WG975021
Benzene	U		0.000331	0.00100	1	04/29/2017 08:42	WG975021
Bromodichloromethane	U		0.000380	0.00100	1	04/29/2017 08:42	WG975021
Bromoform	U		0.000469	0.00100	1	04/29/2017 08:42	WG975021
Bromomethane	U		0.000866	0.00500	1	04/29/2017 08:42	WG975021
n-Butylbenzene	U		0.000361	0.00100	1	04/29/2017 08:42	WG975021
sec-Butylbenzene	U		0.000365	0.00100	1	04/29/2017 08:42	WG975021
Carbon disulfide	U		0.000275	0.00100	1	04/29/2017 08:42	WG975021
Carbon tetrachloride	U		0.000379	0.00100	1	04/29/2017 08:42	WG975021

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chlorobenzene	U		0.000348	0.00100	1	04/29/2017 08:42	WG975021
Chlorodibromomethane	U		0.000327	0.00100	1	04/29/2017 08:42	WG975021
Chloroethane	U		0.000453	0.00500	1	04/29/2017 08:42	WG975021
Chloroform	U		0.000324	0.00500	1	04/29/2017 08:42	WG975021
Chloromethane	U		0.000276	0.00250	1	04/29/2017 08:42	WG975021
1,2-Dibromoethane	U		0.000381	0.00100	1	04/29/2017 08:42	WG975021
1,1-Dichloroethane	U		0.000259	0.00100	1	04/29/2017 08:42	WG975021
1,2-Dichloroethane	U		0.000361	0.00100	1	04/29/2017 08:42	WG975021
1,1-Dichloroethene	U		0.000398	0.00100	1	04/29/2017 08:42	WG975021
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	04/29/2017 08:42	WG975021
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	04/29/2017 08:42	WG975021
1,2-Dichloropropane	U		0.000306	0.00100	1	04/29/2017 08:42	WG975021
cis-1,3-Dichloropropene	U		0.000418	0.00100	1	04/29/2017 08:42	WG975021
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	04/29/2017 08:42	WG975021
Ethylbenzene	U		0.000384	0.00100	1	04/29/2017 08:42	WG975021
Isopropylbenzene	U		0.000326	0.00100	1	04/29/2017 08:42	WG975021
p-Isopropyltoluene	U		0.000350	0.00100	1	04/29/2017 08:42	WG975021
2-Butanone (MEK)	U		0.00393	0.0100	1	04/29/2017 08:42	WG975021
2-Hexanone	U		0.00382	0.0100	1	04/29/2017 08:42	WG975021
Methylene Chloride	U		0.00100	0.00500	1	04/29/2017 08:42	WG975021
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	04/29/2017 08:42	WG975021
Methyl tert-butyl ether	U		0.000367	0.00100	1	04/29/2017 08:42	WG975021
Naphthalene	U		0.00100	0.00500	1	04/29/2017 08:42	WG975021
n-Propylbenzene	U		0.000349	0.00100	1	04/29/2017 08:42	WG975021
Styrene	U		0.000307	0.00100	1	04/29/2017 08:42	WG975021
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	04/29/2017 08:42	WG975021
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	04/29/2017 08:42	WG975021
Tetrachloroethene	U		0.000372	0.00100	1	04/29/2017 08:42	WG975021
Toluene	0.000494	J	0.000412	0.00100	1	04/29/2017 08:42	WG975021
1,1,1-Trichloroethane	U		0.000319	0.00100	1	04/29/2017 08:42	WG975021
1,1,2-Trichloroethane	U		0.000383	0.00100	1	04/29/2017 08:42	WG975021
Trichloroethene	U		0.000398	0.00100	1	04/29/2017 08:42	WG975021
1,2,4-Trimethylbenzene	U		0.000373	0.00100	1	04/29/2017 08:42	WG975021
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	04/29/2017 08:42	WG975021
Vinyl chloride	U		0.000259	0.00100	1	04/29/2017 08:42	WG975021
o-Xylene	U		0.000341	0.00100	1	04/29/2017 08:42	WG975021
m&p-Xylene	U		0.000719	0.00200	1	04/29/2017 08:42	WG975021
Xylenes, Total	U		0.00106	0.00300	1	04/29/2017 08:42	WG975021
(S) Toluene-d8	*101*			*80.0-120*		*04/29/2017 08:42*	WG975021
(S) Dibromofluoromethane	*97.9*			*76.0-123*		*04/29/2017 08:42*	WG975021
(S) 4-Bromofluorobenzene	*98.9*			*80.0-120*		*04/29/2017 08:42*	WG975021

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	04/29/2017 17:33	WG974616
(S) o-Terphenyl	*89.4*			*31.0-160*		*04/29/2017 17:33*	WG974616

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		0.0100	0.0500	1	04/29/2017 03:22	WG975021
Benzene	U		0.000331	0.00100	1	04/29/2017 03:22	WG975021
Bromodichloromethane	U		0.000380	0.00100	1	04/29/2017 03:22	WG975021
Bromoform	U		0.000469	0.00100	1	04/29/2017 03:22	WG975021
Bromomethane	U		0.000866	0.00500	1	04/29/2017 03:22	WG975021
n-Butylbenzene	U		0.000361	0.00100	1	04/29/2017 03:22	WG975021
sec-Butylbenzene	U		0.000365	0.00100	1	04/29/2017 03:22	WG975021
Carbon disulfide	U		0.000275	0.00100	1	04/29/2017 03:22	WG975021
Carbon tetrachloride	U		0.000379	0.00100	1	04/29/2017 03:22	WG975021
Chlorobenzene	U		0.000348	0.00100	1	04/29/2017 03:22	WG975021
Chlorodibromomethane	U		0.000327	0.00100	1	04/29/2017 03:22	WG975021
Chloroethane	U		0.000453	0.00500	1	04/29/2017 03:22	WG975021
Chloroform	U		0.000324	0.00500	1	04/29/2017 03:22	WG975021
Chloromethane	U		0.000276	0.00250	1	04/29/2017 03:22	WG975021
1,2-Dibromoethane	U		0.000381	0.00100	1	04/29/2017 03:22	WG975021
1,1-Dichloroethane	U		0.000259	0.00100	1	04/29/2017 03:22	WG975021
1,2-Dichloroethane	U		0.000361	0.00100	1	04/29/2017 03:22	WG975021
1,1-Dichloroethene	U		0.000398	0.00100	1	04/29/2017 03:22	WG975021
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	04/29/2017 03:22	WG975021
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	04/29/2017 03:22	WG975021
1,2-Dichloropropane	U		0.000306	0.00100	1	04/29/2017 03:22	WG975021
cis-1,3-Dichloropropene	U		0.000418	0.00100	1	04/29/2017 03:22	WG975021
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	04/29/2017 03:22	WG975021
Ethylbenzene	U		0.000384	0.00100	1	04/29/2017 03:22	WG975021
Isopropylbenzene	U		0.000326	0.00100	1	04/29/2017 03:22	WG975021
p-Isopropyltoluene	U		0.000350	0.00100	1	04/29/2017 03:22	WG975021
2-Butanone (MEK)	U		0.00393	0.0100	1	04/29/2017 03:22	WG975021
2-Hexanone	U		0.00382	0.0100	1	04/29/2017 03:22	WG975021
Methylene Chloride	U		0.00100	0.00500	1	04/29/2017 03:22	WG975021
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	04/29/2017 03:22	WG975021
Methyl tert-butyl ether	U		0.000367	0.00100	1	04/29/2017 03:22	WG975021
Naphthalene	U		0.00100	0.00500	1	04/29/2017 03:22	WG975021
n-Propylbenzene	U		0.000349	0.00100	1	04/29/2017 03:22	WG975021
Styrene	U		0.000307	0.00100	1	04/29/2017 03:22	WG975021
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	04/29/2017 03:22	WG975021
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	04/29/2017 03:22	WG975021
Tetrachloroethene	U		0.000372	0.00100	1	04/29/2017 03:22	WG975021
Toluene	U		0.000412	0.00100	1	04/29/2017 03:22	WG975021
1,1,1-Trichloroethane	U		0.000319	0.00100	1	04/29/2017 03:22	WG975021
1,1,2-Trichloroethane	U		0.000383	0.00100	1	04/29/2017 03:22	WG975021
Trichloroethene	U		0.000398	0.00100	1	04/29/2017 03:22	WG975021
1,2,4-Trimethylbenzene	U		0.000373	0.00100	1	04/29/2017 03:22	WG975021
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	04/29/2017 03:22	WG975021
Vinyl chloride	U		0.000259	0.00100	1	04/29/2017 03:22	WG975021
o-Xylene	U		0.000341	0.00100	1	04/29/2017 03:22	WG975021
m&p-Xylene	U		0.000719	0.00200	1	04/29/2017 03:22	WG975021
Xylenes, Total	U		0.00106	0.00300	1	04/29/2017 03:22	WG975021
(S) Toluene-d8	*101*			*80.0-120*		*04/29/2017 03:22*	WG975021
(S) Dibromofluoromethane	*96.5*			*76.0-123*		*04/29/2017 03:22*	WG975021
(S) 4-Bromofluorobenzene	*98.2*			*80.0-120*		*04/29/2017 03:22*	WG975021

Method Blank (MB)

(MB) R3214533-1 04/28/17 14:27

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	mg/l		mg/l	mg/l
Dissolved Solids	U		2.82	10.0

L905300-01 Original Sample (OS) • Duplicate (DUP)

(OS) L905300-01 04/28/17 14:27 • (DUP) R3214533-4 04/28/17 14:27

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	mg/l	mg/l		%		%
Dissolved Solids	5630	5670	1	0.708		5

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

(LCS) R3214533-2 04/28/17 14:27 • (LCSD) R3214533-3 04/28/17 14:27

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	mg/l	mg/l	mg/l	%	%	%			%	%
Dissolved Solids	8800	8590	8580	97.6	97.5	85.0-115			0.116	5

Method Blank (MB)

(MB) R3215013-1 04/30/17 11:49

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Dissolved Solids	U		2.82	10.0

L905226-01 Original Sample (OS) • Duplicate (DUP)

(OS) L905226-01 04/30/17 11:49 • (DUP) R3215013-4 04/30/17 11:49

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Dissolved Solids	1770	1760	1	0.567		5

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

(LCS) R3215013-2 04/30/17 11:49 • (LCSD) R3215013-3 04/30/17 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 %
Dissolved Solids	8800	8610	8590	97.8	97.6	85.0-115			0.233	5

Method Blank (MB)

(MB) R3215048-1 04/30/17 12:15

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	mg/l		mg/l	mg/l
Dissolved Solids	U		2.82	10.0

L905302-02 Original Sample (OS) • Duplicate (DUP)

(OS) L905302-02 04/30/17 12:15 • (DUP) R3215048-4 04/30/17 12:15

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	mg/l	mg/l		%		%
Dissolved Solids	1800	1860	1	3.56		5

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

(LCS) R3215048-2 04/30/17 12:15 • (LCSD) R3215048-3 04/30/17 12:15

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	mg/l	mg/l	mg/l	%	%	%			%	%
Dissolved Solids	8800	8620	8600	98.0	97.7	85.0-115			0.232	5

Method Blank (MB)

(MB) R3214395-1 04/28/17 11:40

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	mg/l		mg/l	mg/l
Nitrate-Nitrite	U		0.0197	0.100

L904920-01 Original Sample (OS) • Duplicate (DUP)

(OS) L904920-01 04/28/17 11:44 • (DUP) R3214395-4 04/28/17 11:45

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	mg/l	mg/l		%		%
Nitrate-Nitrite	1.13	1.12	1	1		20

L905115-01 Original Sample (OS) • Duplicate (DUP)

(OS) L905115-01 04/28/17 12:00 • (DUP) R3214395-6 04/28/17 12:01

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	mg/l	mg/l		%		%
Nitrate-Nitrite	ND	0.0580	1	0		20

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

(LCS) R3214395-2 04/28/17 11:41 • (LCSD) R3214395-3 04/28/17 11:42

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	mg/l	mg/l	mg/l	%	%	%			%	%
Nitrate-Nitrite	5.00	5.09	4.94	102	99	90-110			3	20

L905093-01 Original Sample (OS) • Matrix Spike (MS)

(OS) L905093-01 04/28/17 11:55 • (MS) R3214395-5 04/28/17 11:56

Analyte	Spike Amount	Original Result	MS Result	MS Rec.	Dilution	Rec. Limits	MS Qualifier
	mg/l	mg/l	mg/l	%		%	
Nitrate-Nitrite	5.00	1.08	5.89	96	1	90-110	

L905206-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L905206-01 04/28/17 12:08 • (MS) R3214395-7 04/28/17 12:09 • (MSD) R3214395-8 04/28/17 12:10

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
	mg/l	mg/l	mg/l	mg/l	%	%		%			%	%
Nitrate-Nitrite	5.00	2.04	6.72	6.79	94	95	1	90-110			1	20

Method Blank (MB)

(MB) R3214791-1 05/01/17 15:02

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Nitrate-Nitrite	U		0.0197	0.100

L904709-04 Original Sample (OS) • Duplicate (DUP)

(OS) L904709-04 05/01/17 15:05 • (DUP) R3214791-4 05/01/17 15:06

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Nitrate-Nitrite	0.704	0.675	1	4		20

L905300-04 Original Sample (OS) • Duplicate (DUP)

(OS) L905300-04 05/01/17 15:21 • (DUP) R3214791-6 05/01/17 15:22

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Nitrate-Nitrite	1.56	1.53	1	2		20

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

(LCS) R3214791-2 05/01/17 15:03 • (LCSD) R3214791-3 05/01/17 15:04

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Nitrate-Nitrite	5.00	5.24	5.06	105	101	90-110			4	20

L904709-06 Original Sample (OS) • Matrix Spike (MS)

(OS) L904709-06 05/01/17 15:08 • (MS) R3214791-5 05/01/17 15:09

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Nitrate-Nitrite	5.00	0.578	5.12	91	1	90-110	

L905300-11 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L905300-11 05/01/17 15:34 • (MS) R3214791-7 05/01/17 15:35 • (MSD) R3214791-8 05/01/17 15:40

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 %
Nitrate-Nitrite	5.00	0.0360	5.02	5.00	100	99	1	90-110			0	20

Method Blank (MB)

(MB) R3214792-1 05/01/17 15:54

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	mg/l		mg/l	mg/l
Nitrate-Nitrite	U		0.0197	0.100

L905300-15 Original Sample (OS) • Duplicate (DUP)

(OS) L905300-15 05/01/17 15:57 • (DUP) R3214792-4 05/01/17 15:58

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	mg/l	mg/l		%		%
Nitrate-Nitrite	U	0.000	1	0		20

L905300-23 Original Sample (OS) • Duplicate (DUP)

(OS) L905300-23 05/01/17 16:11 • (DUP) R3214792-6 05/01/17 16:13

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	mg/l	mg/l		%		%
Nitrate-Nitrite	0.0200	0.000	1	200	P1	20

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

(LCS) R3214792-2 05/01/17 15:55 • (LCSD) R3214792-3 05/01/17 15:56

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	mg/l	mg/l	mg/l	%	%	%			%	%
Nitrate-Nitrite	5.00	5.29	5.16	106	103	90-110			3	20

L905300-17 Original Sample (OS) • Matrix Spike (MS)

(OS) L905300-17 05/01/17 16:00 • (MS) R3214792-5 05/01/17 16:01

Analyte	Spike Amount	Original Result	MS Result	MS Rec.	Dilution	Rec. Limits	MS Qualifier
	mg/l	mg/l	mg/l	%		%	
Nitrate-Nitrite	5.00	U	4.76	95	1	90-110	

L905302-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L905302-01 05/01/17 16:14 • (MS) R3214792-7 05/01/17 16:19 • (MSD) R3214792-8 05/01/17 16:20

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
	mg/l	mg/l	mg/l	mg/l	%	%		%			%	%
Nitrate-Nitrite	5.00	0.0270	4.88	5.00	97	99	1	90-110			2	20

Method Blank (MB)

(MB) R3214896-1 05/02/17 09:16

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	mg/l		mg/l	mg/l
Cyanide	U		0.0018	0.00500

L905300-13 Original Sample (OS) • Duplicate (DUP)

(OS) L905300-13 05/02/17 09:21 • (DUP) R3214896-4 05/02/17 09:22

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	mg/l	mg/l		%		%
Cyanide	U	0.000	1	0		20

L905437-01 Original Sample (OS) • Duplicate (DUP)

(OS) L905437-01 05/02/17 09:48 • (DUP) R3214896-7 05/02/17 09:51

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	mg/l	mg/l		%		%
Cyanide	ND	0.000	1	0		20

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

(LCS) R3214896-2 05/02/17 09:17 • (LCSD) R3214896-3 05/02/17 09:18

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	mg/l	mg/l	mg/l	%	%	%			%	%
Cyanide	0.100	0.0936	0.101	94	101	85-115			8	20

L905307-18 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L905307-18 05/02/17 09:36 • (MS) R3214896-5 05/02/17 09:37 • (MSD) R3214896-6 05/02/17 09:40

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
	mg/l	mg/l	mg/l	mg/l	%	%		%			%	%
Cyanide	0.100	U	0.195	0.177	195	177	1	75-125	J5	J5	10	20

Method Blank (MB)

(MB) R3214421-1 04/28/17 07:04

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	mg/l		mg/l	mg/l
Chloride	U		0.0519	1.00
Fluoride	U		0.0099	0.100
Sulfate	U		0.0774	5.00

L905233-01 Original Sample (OS) • Duplicate (DUP)

(OS) L905233-01 04/28/17 16:26 • (DUP) R3214421-4 04/28/17 16:43

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	mg/l	mg/l		%		%
Chloride	40.5	40.4	1	0		15
Fluoride	0.152	0.151	1	0		15
Sulfate	27.6	27.5	1	1		15

L905233-02 Original Sample (OS) • Duplicate (DUP)

(OS) L905233-02 04/28/17 17:01 • (DUP) R3214421-5 04/28/17 18:45

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	mg/l	mg/l		%		%
Chloride	20.5	20.2	1	1		15
Fluoride	0.261	0.259	1	1		15
Sulfate	12.7	12.9	1	1		15

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

(LCS) R3214421-2 04/28/17 07:22 • (LCSD) R3214421-3 04/28/17 07:39

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	mg/l	mg/l	mg/l	%	%	%			%	%
Chloride	40.0	39.3	39.7	98	99	80-120			1	15
Fluoride	8.00	7.93	7.98	99	100	80-120			1	15
Sulfate	40.0	39.8	40.1	100	100	80-120			1	15

L905300-12 Original Sample (OS) • Matrix Spike (MS)

(OS) L905300-12 04/28/17 17:53 • (MS) R3214421-6 04/28/17 19:20

Analyte	Spike Amount	Original Result	MS Result	MS Rec.	Dilution	Rec. Limits	MS Qualifier
	mg/l	mg/l	mg/l	%		%	
Fluoride	5.00	0.966	5.36	88	1	80-120	

L905300-14 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L905300-14 04/28/17 22:31 • (MS) R3214421-7 04/28/17 23:06 • (MSD) R3214421-8 04/28/17 23:24

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Fluoride	5.00	0.925	5.12	5.15	84	84	1	80-120			1	15

Method Blank (MB)

(MB) R3214490-2 04/28/17 06:41

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	mg/l		mg/l	mg/l
Chloride	U		0.0519	1.00
Fluoride	U		0.0099	0.100
Sulfate	U		0.0774	5.00

L905300-21 Original Sample (OS) • Duplicate (DUP)

(OS) L905300-21 04/28/17 11:18 • (DUP) R3214490-5 04/28/17 11:29

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	mg/l	mg/l		%		%
Chloride	0.282	0.415	1	38	J P1	15
Fluoride	U	0.000	1	0		15
Sulfate	0.463	0.167	1	94	J P1	15

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

(LCS) R3214490-3 04/28/17 06:53 • (LCSD) R3214490-4 04/28/17 07:05

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	mg/l	mg/l	mg/l	%	%	%			%	%
Chloride	40.0	39.6	39.6	99	99	80-120			0	15
Fluoride	8.00	8.18	8.13	102	102	80-120			1	15
Sulfate	40.0	38.9	38.7	97	97	80-120			1	15

L905300-22 Original Sample (OS) • Matrix Spike (MS)

(OS) L905300-22 04/28/17 14:24 • (MS) R3214490-6 04/28/17 14:59

Analyte	Spike Amount	Original Result	MS Result	MS Rec.	Dilution	Rec. Limits	MS Qualifier
	mg/l	mg/l	mg/l	%		%	
Chloride	50.0	0.170	50.8	101	1	80-120	
Fluoride	5.00	U	5.17	103	1	80-120	
Sulfate	50.0	0.518	50.5	100	1	80-120	

L905307-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L905307-01 04/28/17 17:30 • (MS) R3214490-7 04/28/17 18:29 • (MSD) R3214490-8 04/28/17 18:40

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
	mg/l	mg/l	mg/l	mg/l	%	%		%			%	%
Fluoride	5.00	0.623	5.58	4.90	99	85	1	80-120			13	15

Method Blank (MB)

(MB) R3214601-1 04/30/17 19:54

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Chloride	U		0.0519	1.00
Fluoride	U		0.0099	0.100
Sulfate	U		0.0774	5.00

L905300-23 Original Sample (OS) • Duplicate (DUP)

(OS) L905300-23 04/30/17 22:54 • (DUP) R3214601-5 04/30/17 23:06

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	0.369	0.474	1	25	J P1	15
Fluoride	U	0.000	1	0		15
Sulfate	0.490	0.000	1	200	P1	15

L905358-09 Original Sample (OS) • Duplicate (DUP)

(OS) L905358-09 05/01/17 03:23 • (DUP) R3214601-6 05/01/17 03:35

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	0.301	0.455	1	41	J P1	15
Fluoride	U	0.000	1	0		15
Sulfate	U	0.000	1	0		15

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

(LCS) R3214601-2 04/30/17 20:06 • (LCSD) R3214601-3 04/30/17 20:18

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 %
Chloride	40.0	39.4	39.4	98	99	80-120			0	15
Fluoride	8.00	7.94	7.94	99	99	80-120			0	15
Sulfate	40.0	39.3	39.4	98	98	80-120			0	15

L905024-09 Original Sample (OS) • Matrix Spike (MS)

(OS) L905024-09 04/30/17 21:09 • (MS) R3214601-4 04/30/17 21:21

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Chloride	50.0	ND	50.9	101	1	80-120	
Fluoride	5.00	ND	5.05	101	1	80-120	

L905024-09 Original Sample (OS) • Matrix Spike (MS)

(OS) L905024-09 04/30/17 21:09 • (MS) R3214601-4 04/30/17 21:21

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Sulfate	50.0	ND	52.5	105	1	80-120	

Method Blank (MB)

(MB) R3214382-1 04/28/17 15:00

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	mg/l		mg/l	mg/l
Mercury	U		0.000049	0.000200

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

(LCS) R3214382-2 04/28/17 15:02 • (LCSD) R3214382-3 04/28/17 15:05

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	mg/l	mg/l	mg/l	%	%	%			%	%
Mercury	0.00300	0.00286	0.00287	95	96	80-120			1	20

L905146-05 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L905146-05 04/28/17 15:12 • (MS) R3214382-4 04/28/17 15:14 • (MSD) R3214382-5 04/28/17 15:16

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
	mg/l	mg/l	mg/l	mg/l	%	%		%			%	%
Mercury	0.00300	U	0.00288	0.00306	96	102	1	75-125			6	20

Method Blank (MB)

(MB) R3214376-1 04/28/17 13:04

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Mercury,Dissolved	U		0.000049	0.000200

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

(LCS) R3214376-2 04/28/17 13:06 • (LCSD) R3214376-3 04/28/17 13:08

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 %
Mercury,Dissolved	0.00300	0.00300	0.00291	100	97	80-120			3	20

L904651-05 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L904651-05 04/28/17 13:11 • (MS) R3214376-4 04/28/17 13:13 • (MSD) R3214376-5 04/28/17 13:20

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 %
Mercury,Dissolved	0.00300	U	0.00295	0.00290	98	97	1	75-125			2	20

Method Blank (MB)

(MB) R3214559-2 04/30/17 20:32

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	mg/l		mg/l	mg/l
Arsenic	U		0.00025	0.00200
Barium	U		0.00036	0.00500
Boron	U		0.0015	0.0200
Cadmium	U		0.00016	0.00100
Calcium	U		0.046	1.00
Chromium	U		0.00054	0.00200
Cobalt	U		0.00026	0.00200
Iron	U		0.015	0.100
Lead	U		0.00024	0.00200
Manganese	U		0.00025	0.00500
Nickel	U		0.00035	0.00200
Potassium	0.0595	J	0.037	1.00
Selenium	U		0.00038	0.00200
Sodium	U		0.11	1.00
Uranium	U		0.00033	0.0100
Vanadium	U		0.00018	0.00500

Method Blank (MB)

(MB) R3215025-1 05/02/17 12:00

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	mg/l		mg/l	mg/l
Lead	U		0.00024	0.00200

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

(LCS) R3214559-7 04/30/17 21:33 • (LCSD) R3214559-3 04/30/17 20:39

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	mg/l	mg/l	mg/l	%	%	%			%	%
Arsenic	0.0500	0.0456	0.0466	91	93	80-120			2	20
Barium	0.0500	0.0490	0.0486	98	97	80-120			1	20
Boron	0.0500	0.0477	0.0401	95	80	80-120			17	20
Cadmium	0.0500	0.0479	0.0510	96	102	80-120			6	20
Calcium	5.00	4.82	4.79	96	96	80-120			1	20
Chromium	0.0500	0.0487	0.0486	97	97	80-120			0	20
Cobalt	0.0500	0.0489	0.0502	98	100	80-120			3	20
Iron	5.00	4.92	4.81	98	96	80-120			2	20
Lead	0.0500	0.0482	0.0492	96	98	80-120			2	20
Manganese	0.0500	0.0480	0.0467	96	93	80-120			3	20

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

(LCS) R3214559-7 04/30/17 21:33 • (LCSD) R3214559-3 04/30/17 20:39

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 %
Nickel	0.0500	0.0485	0.0492	97	98	80-120			1	20
Potassium	5.00	4.93	4.95	99	99	80-120			0	20
Selenium	0.0500	0.0465	0.0485	93	97	80-120			4	20
Sodium	5.00	5.14	5.19	103	104	80-120			1	20
Uranium	0.0500	0.0478	0.0483	96	97	80-120			1	20
Vanadium	0.0500	0.0482	0.0474	96	95	80-120			2	20

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

(LCS) R3215025-2 05/02/17 12:04 • (LCSD) R3215025-3 05/02/17 12:08

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 %
Lead	0.0500	0.0493	0.0496	99	99	80-120			0	20

L905300-20 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L905300-20 04/30/17 20:43 • (MS) R3214559-6 04/30/17 20:50 • (MSD) R3214559-8 04/30/17 20:53

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Arsenic	0.0500	0.0195	0.0633	0.0631	88	87	1	75-125			0	20
Barium	0.0500	0.0154	0.0624	0.0660	94	101	1	75-125			6	20
Boron	0.0500	0.726	0.817	0.830	182	207	1	75-125	V	V	2	20
Cadmium	0.0500	U	0.0463	0.0461	93	92	1	75-125			0	20
Calcium	5.00	370	375	379	100	171	1	75-125		V	1	20
Chromium	0.0500	0.000720	0.0470	0.0461	93	91	1	75-125			2	20
Cobalt	0.0500	0.00253	0.0488	0.0482	92	91	1	75-125			1	20
Potassium	5.00	3.89	8.56	8.79	93	98	1	75-125			3	20
Iron	5.00	3.07	7.80	7.61	94	91	1	75-125			2	20
Lead	0.0500	U	0.0480	0.0480	96	96	1	75-125			0	20
Manganese	0.0500	0.521	0.565	0.555	87	66	1	75-125		V	2	20
Nickel	0.0500	0.0140	0.0593	0.0580	91	88	1	75-125			2	20
Selenium	0.0500	U	0.0496	0.0488	99	98	1	75-125			2	20
Uranium	0.0500	0.000615	0.0496	0.0500	98	99	1	75-125			1	20
Vanadium	0.0500	0.000275	0.0471	0.0462	94	92	1	75-125			2	20

L905300-20 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L905300-20 05/02/17 12:11 • (MS) R3215025-5 05/02/17 12:18 • (MSD) R3215025-6 05/02/17 12:22

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Lead	0.00500	U	0.0485	0.0510	97	102	10	75-125			5	20

Method Blank (MB)

(MB) R3214826-1 05/01/17 21:48

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Arsenic,Dissolved	U		0.00025	0.00200
Barium,Dissolved	U		0.00036	0.00500
Boron,Dissolved	U		0.0015	0.0200
Cadmium,Dissolved	U		0.00016	0.00100
Chromium,Dissolved	U		0.00054	0.00200
Cobalt,Dissolved	U		0.00026	0.00200
Iron,Dissolved	U		0.015	0.100
Lead,Dissolved	U		0.00024	0.00200
Manganese,Dissolved	U		0.00025	0.00500
Nickel,Dissolved	U		0.00035	0.00200
Selenium,Dissolved	U		0.00038	0.00200
Uranium,Dissolved	U		0.00033	0.0100
Vanadium,Dissolved	U		0.00018	0.00500

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

(LCS) R3214826-2 05/01/17 21:52 • (LCSD) R3214826-3 05/01/17 21:55

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 %
Arsenic,Dissolved	0.0500	0.0485	0.0479	97	96	80-120			1	20
Barium,Dissolved	0.0500	0.0519	0.0486	104	97	80-120			6	20
Boron,Dissolved	0.0500	0.0443	0.0453	89	91	80-120			2	20
Cadmium,Dissolved	0.0500	0.0495	0.0481	99	96	80-120			3	20
Chromium,Dissolved	0.0500	0.0489	0.0482	98	96	80-120			1	20
Cobalt,Dissolved	0.0500	0.0494	0.0498	99	100	80-120			1	20
Iron,Dissolved	5.00	4.77	4.76	95	95	80-120			0	20
Lead,Dissolved	0.0500	0.0492	0.0484	98	97	80-120			2	20
Manganese,Dissolved	0.0500	0.0479	0.0488	96	98	80-120			2	20
Nickel,Dissolved	0.0500	0.0496	0.0486	99	97	80-120			2	20
Selenium,Dissolved	0.0500	0.0513	0.0483	103	97	80-120			6	20
Uranium,Dissolved	0.0500	0.0487	0.0481	97	96	80-120			1	20
Vanadium,Dissolved	0.0500	0.0491	0.0488	98	98	80-120			1	20

L905300-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L905300-01 05/01/17 21:59 • (MS) R3214826-5 05/01/17 22:06 • (MSD) R3214826-6 05/01/17 22:09

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Arsenic,Dissolved	0.0500	0.0326	0.0813	0.0804	98	96	1	75-125			1	20
Barium,Dissolved	0.0500	0.0260	0.0740	0.0730	96	94	1	75-125			1	20
Boron,Dissolved	0.0500	0.487	0.552	0.577	129	180	1	75-125	V	V	5	20
Cadmium,Dissolved	0.0500	U	0.0473	0.0467	95	93	1	75-125			1	20
Chromium,Dissolved	0.0500	U	0.0490	0.0482	98	96	1	75-125			2	20
Cobalt,Dissolved	0.0500	0.000775	0.0494	0.0489	97	96	1	75-125			1	20
Iron,Dissolved	5.00	0.0479	4.81	4.79	95	95	1	75-125			0	20
Lead,Dissolved	0.0500	U	0.0482	0.0476	96	95	1	75-125			1	20
Manganese,Dissolved	0.0500	1.97	2.07	2.09	210	239	1	75-125	V	V	1	20
Nickel,Dissolved	0.0500	0.00866	0.0565	0.0549	96	92	1	75-125			3	20
Selenium,Dissolved	0.0500	0.00125	0.0529	0.0505	103	99	1	75-125			5	20
Uranium,Dissolved	0.0500	U	0.0497	0.0494	99	99	1	75-125			1	20
Vanadium,Dissolved	0.0500	0.000956	0.0509	0.0506	100	99	1	75-125			1	20

Method Blank (MB)

(MB) R3214899-1 05/02/17 02:18

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	mg/l		mg/l	mg/l
Arsenic,Dissolved	U		0.00025	0.00200
Barium,Dissolved	U		0.00036	0.00500
Chromium,Dissolved	U		0.00054	0.00200
Iron,Dissolved	U		0.015	0.100
Lead,Dissolved	U		0.00024	0.00200
Manganese,Dissolved	U		0.00025	0.00500
Selenium,Dissolved	U		0.00038	0.00200

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

(LCS) R3214899-2 05/02/17 02:21 • (LCSD) R3214899-3 05/02/17 02:25

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	mg/l	mg/l	mg/l	%	%	%			%	%
Arsenic,Dissolved	0.0500	0.0485	0.0482	97	96	80-120			1	20
Barium,Dissolved	0.0500	0.0483	0.0483	97	97	80-120			0	20
Chromium,Dissolved	0.0500	0.0498	0.0494	100	99	80-120			1	20
Iron,Dissolved	5.00	5.00	4.94	100	99	80-120			1	20
Lead,Dissolved	0.0500	0.0497	0.0496	99	99	80-120			0	20
Manganese,Dissolved	0.0500	0.0508	0.0498	102	100	80-120			2	20
Selenium,Dissolved	0.0500	0.0484		97		80-120				

L905300-21 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L905300-21 05/02/17 02:28 • (MS) R3214899-5 05/02/17 02:35 • (MSD) R3214899-6 05/02/17 02:39

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
	mg/l	mg/l	mg/l	mg/l	%	%		%			%	%
Arsenic,Dissolved	0.0500	U	0.0496	0.0483	99	97	1	75-125			3	20
Barium,Dissolved	0.0500	U	0.0489	0.0481	98	96	1	75-125			2	20
Chromium,Dissolved	0.0500	U	0.0516	0.0499	103	100	1	75-125			3	20
Iron,Dissolved	5.00	U	5.10	4.95	102	99	1	75-125			3	20
Lead,Dissolved	0.0500	U	0.0492	0.0492	98	98	1	75-125			0	20
Manganese,Dissolved	0.0500	0.000400	0.0508	0.0494	101	98	1	75-125			3	20
Selenium,Dissolved	0.0500	U	0.0478	0.0475	96	95	1	75-125			1	20

Method Blank (MB)

(MB) R3215691-1 05/04/17 15:41

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Arsenic	U		0.00025	0.00200
Barium	U		0.00036	0.00500
Calcium	U		0.046	1.00
Chromium	U		0.00054	0.00200
Iron	U		0.015	0.100
Lead	U		0.00024	0.00200
Manganese	U		0.00025	0.00500
Potassium	U		0.037	1.00
Selenium	0.00135	J	0.00038	0.00200
Sodium	U		0.11	1.00

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

(LCS) R3215691-2 05/04/17 15:44 • (LCSD) R3215691-3 05/04/17 15:48

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 %
Arsenic	0.0500	0.0500	0.0490	100	98	80-120			2	20
Barium	0.0500	0.0515	0.0499	103	100	80-120			3	20
Calcium	5.00	5.14	4.98	103	100	80-120			3	20
Chromium	0.0500	0.0498	0.0492	100	98	80-120			1	20
Iron	5.00	5.09	4.97	102	99	80-120			3	20
Lead	0.0500	0.0493	0.0490	99	98	80-120			1	20
Manganese	0.0500	0.0490	0.0479	98	96	80-120			2	20
Potassium	5.00	4.95	4.90	99	98	80-120			1	20
Selenium	0.0500	0.0498	0.0468	100	94	80-120			6	20
Sodium	5.00	5.02	4.95	100	99	80-120			1	20

L905307-31 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L905307-31 05/04/17 15:52 • (MS) R3215691-5 05/04/17 15:59 • (MSD) R3215691-6 05/04/17 16:02

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 %
Arsenic	0.0500	0.0570	0.106	0.104	99	94	1	75-125			2	20
Barium	0.0500	0.0451	0.0950	0.0946	100	99	1	75-125			1	20
Calcium	5.00	197	199	198	40	21	1	75-125	V	V	0	20
Chromium	0.0500	U	0.0485	0.0473	97	95	1	75-125			2	20
Potassium	5.00	5.20	10.2	10.1	99	98	1	75-125			1	20
Iron	5.00	U	4.94	4.86	99	97	1	75-125			2	20
Lead	0.0500	U	0.0505	0.0504	101	101	1	75-125			0	20

L905307-31 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L905307-31 05/04/17 15:52 • (MS) R3215691-5 05/04/17 15:59 • (MSD) R3215691-6 05/04/17 16:02

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 %
Manganese	0.0500	0.00134	0.0499	0.0480	97	93	1	75-125			4	20
Selenium	0.0500	0.00166	0.0454	0.0469	88	90	1	75-125			3	20
Sodium	5.00	48.7	52.3	52.0	71	67	1	75-125	V	V	0	20

Method Blank (MB)

(MB) R3214521-3 04/27/17 23:24

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	mg/l		mg/l	mg/l
TPH (GC/FID) Low Fraction	U		0.0314	0.100
(S) a,a,a-Trifluorotoluene(FID)	*112*			*77.0-122*

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

(LCS) R3214521-1 04/27/17 22:11 • (LCSD) R3214521-2 04/27/17 22:35

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	mg/l	mg/l	mg/l	%	%	%			%	%
TPH (GC/FID) Low Fraction	5.50	5.91	5.80	107	105	71.0-136			1.85	20
(S) a,a,a-Trifluorotoluene(FID)				*113*	*112*	*77.0-122*				

L905100-04 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L905100-04 04/28/17 01:00 • (MS) R3214521-4 04/27/17 23:48 • (MSD) R3214521-5 04/28/17 00:12

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
	mg/l	mg/l	mg/l	mg/l	%	%		%			%	%
TPH (GC/FID) Low Fraction	5.50	ND	5.78	5.84	104	105	1	18.0-160			1.07	20
(S) a,a,a-Trifluorotoluene(FID)					*112*	*112*		*77.0-122*				

Method Blank (MB)

(MB) R3215621-3 04/28/17 14:18

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	mg/l		mg/l	mg/l
TPH (GC/FID) Low Fraction	U		0.0314	0.100
(S) a,a,a-Trifluorotoluene(FID)	*102*			*77.0-122*

Method Blank (MB)

(MB) R3215632-3 04/28/17 17:49

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	mg/l		mg/l	mg/l
TPH (GC/FID) Low Fraction	U		0.0314	0.100
(S) a,a,a-Trifluorotoluene(FID)	*99.0*			*77.0-122*

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

(LCS) R3215621-1 04/28/17 13:16 • (LCSD) R3215621-2 04/28/17 13:36

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	mg/l	mg/l	mg/l	%	%	%			%	%
TPH (GC/FID) Low Fraction	5.50	5.34	5.24	97.1	95.2	71.0-136			1.92	20
(S) a,a,a-Trifluorotoluene(FID)				*105*	*105*	*77.0-122*				

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

(LCS) R3215632-1 04/28/17 16:38 • (LCSD) R3215632-2 04/28/17 17:02

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	mg/l	mg/l	mg/l	%	%	%			%	%
TPH (GC/FID) Low Fraction	5.50	5.13	5.06	93.3	91.9	71.0-136			1.45	20
(S) a,a,a-Trifluorotoluene(FID)				*99.7*	*100*	*77.0-122*				

L905300-20 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L905300-20 04/28/17 14:39 • (MS) R3215621-4 04/28/17 15:00 • (MSD) R3215621-5 04/28/17 15:21

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
	mg/l	mg/l	mg/l	mg/l	%	%		%			%	%
TPH (GC/FID) Low Fraction	5.50	0.402	5.77	5.81	97.6	98.3	1	18.0-160			0.700	20
(S) a,a,a-Trifluorotoluene(FID)					*105*	*104*		*77.0-122*				

Method Blank (MB)

(MB) R3215095-3 04/28/17 20:04

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Acetone	U		0.0100	0.0500
Benzene	U		0.000331	0.00100
Bromodichloromethane	U		0.000380	0.00100
Bromoform	U		0.000469	0.00100
Bromomethane	U		0.000866	0.00500
n-Butylbenzene	U		0.000361	0.00100
sec-Butylbenzene	U		0.000365	0.00100
Carbon disulfide	U		0.000275	0.00100
Carbon tetrachloride	U		0.000379	0.00100
Chlorobenzene	U		0.000348	0.00100
Chlorodibromomethane	U		0.000327	0.00100
Chloroethane	U		0.000453	0.00500
Chloroform	U		0.000324	0.00500
Chloromethane	U		0.000276	0.00250
1,2-Dibromoethane	U		0.000381	0.00100
1,1-Dichloroethane	U		0.000259	0.00100
1,2-Dichloroethane	U		0.000361	0.00100
1,1-Dichloroethene	U		0.000398	0.00100
cis-1,2-Dichloroethene	U		0.000260	0.00100
trans-1,2-Dichloroethene	U		0.000396	0.00100
1,2-Dichloropropane	U		0.000306	0.00100
cis-1,3-Dichloropropene	U		0.000418	0.00100
trans-1,3-Dichloropropene	U		0.000419	0.00100
Ethylbenzene	U		0.000384	0.00100
2-Hexanone	U		0.00382	0.0100
Isopropylbenzene	U		0.000326	0.00100
p-Isopropyltoluene	U		0.000350	0.00100
2-Butanone (MEK)	U		0.00393	0.0100
Methylene Chloride	U		0.00100	0.00500
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100
Methyl tert-butyl ether	U		0.000367	0.00100
Naphthalene	U		0.00100	0.00500
n-Propylbenzene	U		0.000349	0.00100
Styrene	U		0.000307	0.00100
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100
Tetrachloroethene	U		0.000372	0.00100
Toluene	U		0.000412	0.00100
1,1,1-Trichloroethane	U		0.000319	0.00100
1,1,2-Trichloroethane	U		0.000383	0.00100

Method Blank (MB)

(MB) R3215095-3 04/28/17 20:04

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	mg/l		mg/l	mg/l
Trichloroethene	U		0.000398	0.00100
1,2,4-Trimethylbenzene	U		0.000373	0.00100
1,3,5-Trimethylbenzene	U		0.000387	0.00100
Vinyl chloride	U		0.000259	0.00100
Xylenes, Total	U		0.00106	0.00300
o-Xylene	U		0.000341	0.00100
m&p-Xylenes	U		0.000719	0.00200
(S) Toluene-d8	*100*			*80.0-120*
(S) Dibromofluoromethane	*94.5*			*76.0-123*
(S) 4-Bromofluorobenzene	*99.8*			*80.0-120*

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

(LCS) R3215095-1 04/28/17 19:14 • (LCSD) R3215095-2 04/28/17 19:31

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	mg/l	mg/l	mg/l	%	%	%			%	%
Acetone	0.125	0.169	0.170	135	136	10.0-160			0.500	23
Benzene	0.0250	0.0199	0.0208	79.5	83.1	69.0-123			4.36	20
Bromodichloromethane	0.0250	0.0226	0.0243	90.6	97.1	76.0-120			6.92	20
Bromoform	0.0250	0.0194	0.0195	77.7	77.9	67.0-132			0.320	20
Bromomethane	0.0250	0.0165	0.0176	65.9	70.5	18.0-160			6.84	20
n-Butylbenzene	0.0250	0.0198	0.0209	79.0	83.4	72.0-126			5.43	20
sec-Butylbenzene	0.0250	0.0218	0.0217	87.2	87.0	74.0-121			0.250	20
Carbon disulfide	0.0250	0.0237	0.0246	94.7	98.5	55.0-127			3.96	20
Carbon tetrachloride	0.0250	0.0183	0.0176	73.0	70.5	63.0-122			3.45	20
Chlorobenzene	0.0250	0.0258	0.0259	103	104	79.0-121			0.370	20
Chlorodibromomethane	0.0250	0.0233	0.0237	93.1	94.8	75.0-125			1.75	20
Chloroethane	0.0250	0.0205	0.0203	82.2	81.4	47.0-152			0.930	20
Chloroform	0.0250	0.0223	0.0235	89.2	94.0	72.0-121			5.22	20
Chloromethane	0.0250	0.0259	0.0269	104	108	48.0-139			3.63	20
1,2-Dibromoethane	0.0250	0.0244	0.0239	97.6	95.5	77.0-123			2.10	20
1,1-Dichloroethane	0.0250	0.0220	0.0230	88.0	92.1	70.0-126			4.56	20
1,2-Dichloroethane	0.0250	0.0234	0.0246	93.8	98.5	67.0-126			4.93	20
1,1-Dichloroethene	0.0250	0.0244	0.0251	97.7	100	64.0-129			2.82	20
cis-1,2-Dichloroethene	0.0250	0.0225	0.0236	90.1	94.3	73.0-120			4.63	20
trans-1,2-Dichloroethene	0.0250	0.0227	0.0237	90.8	94.9	71.0-121			4.40	20
1,2-Dichloropropane	0.0250	0.0225	0.0237	90.2	94.8	75.0-125			4.96	20
cis-1,3-Dichloropropene	0.0250	0.0238	0.0251	95.1	100	79.0-123			5.39	20
trans-1,3-Dichloropropene	0.0250	0.0232	0.0236	93.0	94.5	74.0-127			1.60	20

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

(LCS) R3215095-1 04/28/17 19:14 • (LCSD) R3215095-2 04/28/17 19:31

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 %
Ethylbenzene	0.0250	0.0227	0.0223	90.9	89.2	77.0-120			1.89	20
2-Hexanone	0.125	0.128	0.122	102	97.7	58.0-147			4.62	20
Isopropylbenzene	0.0250	0.0218	0.0216	87.3	86.5	75.0-120			0.910	20
p-Isopropyltoluene	0.0250	0.0223	0.0222	89.2	88.8	74.0-126			0.510	20
2-Butanone (MEK)	0.125	0.0946	0.0947	75.7	75.8	37.0-158			0.160	20
Methylene Chloride	0.0250	0.0213	0.0229	85.2	91.7	66.0-121			7.32	20
4-Methyl-2-pentanone (MIBK)	0.125	0.102	0.105	81.8	83.8	59.0-143			2.38	20
Methyl tert-butyl ether	0.0250	0.0209	0.0217	83.6	87.0	64.0-123			4.01	20
Naphthalene	0.0250	0.0152	0.0165	60.7	66.0	62.0-128	J4		8.29	20
n-Propylbenzene	0.0250	0.0211	0.0210	84.4	84.0	79.0-120			0.490	20
Styrene	0.0250	0.0227	0.0230	90.8	91.8	78.0-124			1.08	20
1,1,1,2-Tetrachloroethane	0.0250	0.0241	0.0242	96.6	96.8	75.0-122			0.180	20
1,1,2,2-Tetrachloroethane	0.0250	0.0226	0.0223	90.5	89.2	71.0-122			1.41	20
Tetrachloroethene	0.0250	0.0277	0.0263	111	105	70.0-127			5.17	20
Toluene	0.0250	0.0216	0.0225	86.2	90.1	77.0-120			4.43	20
1,1,1-Trichloroethane	0.0250	0.0234	0.0241	93.7	96.4	68.0-122			2.88	20
1,1,2-Trichloroethane	0.0250	0.0256	0.0241	102	96.4	78.0-120			5.97	20
Trichloroethene	0.0250	0.0265	0.0273	106	109	78.0-120			2.92	20
1,2,4-Trimethylbenzene	0.0250	0.0230	0.0230	92.1	91.9	75.0-120			0.250	20
1,3,5-Trimethylbenzene	0.0250	0.0225	0.0230	90.0	91.8	75.0-120			2.00	20
Vinyl chloride	0.0250	0.0223	0.0227	89.1	90.8	64.0-133			1.92	20
Xylenes, Total	0.0750	0.0666	0.0665	88.8	88.7	77.0-120			0.150	20
o-Xylene	0.0250	0.0222	0.0221	88.8	88.5	78.0-120			0.250	20
m&p-Xylenes	0.0500	0.0444	0.0444	88.9	88.8	77.0-120			0.0900	20
(S) Toluene-d8				*100*	*101*	*80.0-120*				
(S) Dibromofluoromethane				*92.8*	*94.0*	*76.0-123*				
(S) 4-Bromofluorobenzene				*104*	*99.5*	*80.0-120*				

Method Blank (MB)

(MB) R3215657-3 04/29/17 03:05

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Acetone	U		0.0100	0.0500
Benzene	U		0.000331	0.00100
Bromodichloromethane	U		0.000380	0.00100
Bromoform	U		0.000469	0.00100
Bromomethane	U		0.000866	0.00500
n-Butylbenzene	U		0.000361	0.00100
sec-Butylbenzene	U		0.000365	0.00100
Carbon disulfide	U		0.000275	0.00100
Carbon tetrachloride	U		0.000379	0.00100
Chlorobenzene	U		0.000348	0.00100
Chlorodibromomethane	U		0.000327	0.00100
Chloroethane	U		0.000453	0.00500
Chloroform	U		0.000324	0.00500
Chloromethane	U		0.000276	0.00250
1,2-Dibromoethane	U		0.000381	0.00100
1,1-Dichloroethane	U		0.000259	0.00100
1,2-Dichloroethane	U		0.000361	0.00100
1,1-Dichloroethene	U		0.000398	0.00100
cis-1,2-Dichloroethene	U		0.000260	0.00100
trans-1,2-Dichloroethene	U		0.000396	0.00100
1,2-Dichloropropane	U		0.000306	0.00100
cis-1,3-Dichloropropene	U		0.000418	0.00100
trans-1,3-Dichloropropene	U		0.000419	0.00100
Ethylbenzene	U		0.000384	0.00100
2-Hexanone	U		0.00382	0.0100
Isopropylbenzene	U		0.000326	0.00100
p-Isopropyltoluene	U		0.000350	0.00100
2-Butanone (MEK)	U		0.00393	0.0100
Methylene Chloride	U		0.00100	0.00500
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100
Methyl tert-butyl ether	U		0.000367	0.00100
Naphthalene	U		0.00100	0.00500
n-Propylbenzene	U		0.000349	0.00100
Styrene	U		0.000307	0.00100
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100
Tetrachloroethene	U		0.000372	0.00100
Toluene	U		0.000412	0.00100
1,1,1-Trichloroethane	U		0.000319	0.00100
1,1,2-Trichloroethane	U		0.000383	0.00100

Method Blank (MB)

(MB) R3215657-3 04/29/17 03:05

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	mg/l		mg/l	mg/l
Trichloroethene	U		0.000398	0.00100
1,2,4-Trimethylbenzene	U		0.000373	0.00100
1,3,5-Trimethylbenzene	U		0.000387	0.00100
Vinyl chloride	U		0.000259	0.00100
Xylenes, Total	U		0.00106	0.00300
o-Xylene	U		0.000341	0.00100
m&p-Xylenes	U		0.000719	0.00200
(S) Toluene-d8	*102*			*80.0-120*
(S) Dibromofluoromethane	*97.1*			*76.0-123*
(S) 4-Bromofluorobenzene	*96.7*			*80.0-120*

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

(LCS) R3215657-1 04/29/17 02:15 • (LCSD) R3215657-2 04/29/17 02:32

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	mg/l	mg/l	mg/l	%	%	%			%	%
Acetone	0.125	0.188	0.167	151	134	10.0-160			11.7	23
Benzene	0.0250	0.0232	0.0205	92.7	82.0	69.0-123			12.3	20
Bromodichloromethane	0.0250	0.0245	0.0246	98.0	98.5	76.0-120			0.550	20
Bromoform	0.0250	0.0248	0.0217	99.0	86.7	67.0-132			13.2	20
Bromomethane	0.0250	0.0142	0.0147	56.9	58.8	18.0-160			3.44	20
n-Butylbenzene	0.0250	0.0210	0.0203	83.8	81.3	72.0-126			3.04	20
sec-Butylbenzene	0.0250	0.0231	0.0220	92.5	88.1	74.0-121			4.95	20
Carbon disulfide	0.0250	0.0255	0.0253	102	101	55.0-127			0.740	20
Carbon tetrachloride	0.0250	0.0225	0.0191	90.0	76.5	63.0-122			16.2	20
Chlorobenzene	0.0250	0.0250	0.0253	100	101	79.0-121			0.970	20
Chlorodibromomethane	0.0250	0.0239	0.0248	95.7	99.0	75.0-125			3.40	20
Chloroethane	0.0250	0.0210	0.0201	84.0	80.4	47.0-152			4.37	20
Chloroform	0.0250	0.0235	0.0237	94.2	95.0	72.0-121			0.820	20
Chloromethane	0.0250	0.0237	0.0246	94.6	98.4	48.0-139			3.85	20
1,2-Dibromoethane	0.0250	0.0247	0.0244	98.8	97.5	77.0-123			1.37	20
1,1-Dichloroethane	0.0250	0.0232	0.0232	92.7	92.8	70.0-126			0.0200	20
1,2-Dichloroethane	0.0250	0.0248	0.0247	99.4	98.7	67.0-126			0.650	20
1,1-Dichloroethene	0.0250	0.0244	0.0249	97.7	99.7	64.0-129			2.03	20
cis-1,2-Dichloroethene	0.0250	0.0238	0.0230	95.2	91.8	73.0-120			3.65	20
trans-1,2-Dichloroethene	0.0250	0.0233	0.0233	93.3	93.2	71.0-121			0.110	20
1,2-Dichloropropane	0.0250	0.0236	0.0235	94.5	93.9	75.0-125			0.640	20
cis-1,3-Dichloropropene	0.0250	0.0233	0.0252	93.4	101	79.0-123			7.61	20
trans-1,3-Dichloropropene	0.0250	0.0245	0.0249	98.1	99.4	74.0-127			1.40	20

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

(LCS) R3215657-1 04/29/17 02:15 • (LCSD) R3215657-2 04/29/17 02:32

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 %
Ethylbenzene	0.0250	0.0246	0.0219	98.3	87.5	77.0-120			11.7	20
2-Hexanone	0.125	0.142	0.128	113	103	58.0-147			10.0	20
Isopropylbenzene	0.0250	0.0249	0.0216	99.7	86.4	75.0-120			14.3	20
p-Isopropyltoluene	0.0250	0.0231	0.0229	92.4	91.4	74.0-126			1.12	20
2-Butanone (MEK)	0.125	0.108	0.0984	86.1	78.7	37.0-158			8.94	20
Methylene Chloride	0.0250	0.0240	0.0238	96.0	95.3	66.0-121			0.750	20
4-Methyl-2-pentanone (MIBK)	0.125	0.115	0.109	92.3	87.0	59.0-143			5.91	20
Methyl tert-butyl ether	0.0250	0.0230	0.0219	92.1	87.7	64.0-123			4.89	20
Naphthalene	0.0250	0.0182	0.0162	72.8	64.6	62.0-128			11.8	20
n-Propylbenzene	0.0250	0.0237	0.0211	94.6	84.4	79.0-120			11.4	20
Styrene	0.0250	0.0247	0.0227	99.0	90.9	78.0-124			8.48	20
1,1,1,2-Tetrachloroethane	0.0250	0.0250	0.0245	100	98.1	75.0-122			1.94	20
1,1,2,2-Tetrachloroethane	0.0250	0.0236	0.0218	94.6	87.3	71.0-122			8.06	20
Tetrachloroethene	0.0250	0.0266	0.0263	107	105	70.0-127			1.13	20
Toluene	0.0250	0.0251	0.0222	100	88.8	77.0-120			12.2	20
1,1,1-Trichloroethane	0.0250	0.0244	0.0246	97.8	98.2	68.0-122			0.480	20
1,1,2-Trichloroethane	0.0250	0.0245	0.0240	97.9	96.0	78.0-120			1.99	20
Trichloroethene	0.0250	0.0271	0.0278	108	111	78.0-120			2.59	20
1,2,4-Trimethylbenzene	0.0250	0.0241	0.0237	96.3	94.9	75.0-120			1.47	20
1,3,5-Trimethylbenzene	0.0250	0.0239	0.0233	95.6	93.2	75.0-120			2.51	20
Vinyl chloride	0.0250	0.0233	0.0233	93.1	93.1	64.0-133			0.000	20
Xylenes, Total	0.0750	0.0732	0.0651	97.6	86.8	77.0-120			11.7	20
o-Xylene	0.0250	0.0246	0.0217	98.3	86.9	78.0-120			12.3	20
m&p-Xylenes	0.0500	0.0486	0.0434	97.2	86.8	77.0-120			11.3	20
(S) Toluene-d8				*102*	*101*	*80.0-120*				
(S) Dibromofluoromethane				*96.2*	*97.5*	*76.0-123*				
(S) 4-Bromofluorobenzene				*103*	*102*	*80.0-120*				

Method Blank (MB)

(MB) R3214509-1 04/28/17 14:33

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	mg/l		mg/l	mg/l
TPH (GC/FID) High Fraction	U		0.0247	0.100
(S) o-Terphenyl	*85.7*			*31.0-160*

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

(LCS) R3214509-2 04/28/17 14:50 • (LCSD) R3214509-3 04/28/17 15:07

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	mg/l	mg/l	mg/l	%	%	%			%	%
TPH (GC/FID) High Fraction	1.50	1.82	1.70	121	114	50.0-150			6.47	20
(S) o-Terphenyl				*97.0*	*97.2*	*31.0-160*				

Method Blank (MB)

(MB) R3214510-1 04/28/17 15:26

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	mg/l		mg/l	mg/l
TPH (GC/FID) High Fraction	U		0.0247	0.100
(S) o-Terphenyl	*87.9*			*31.0-160*

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

(LCS) R3214510-2 04/28/17 15:43 • (LCSD) R3214510-3 04/28/17 16:00

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	mg/l	mg/l	mg/l	%	%	%			%	%
TPH (GC/FID) High Fraction	1.50	1.76	1.80	117	120	50.0-150			2.54	20
(S) o-Terphenyl				*95.8*	*96.9*	*31.0-160*				

Abbreviations and Definitions

SDG	Sample Delivery Group.
MDL	Method Detection Limit.
RDL	Reported Detection Limit.
ND	Not detected at the Reporting Limit (or MDL where applicable).
U	Not detected at the Reporting Limit (or MDL where applicable).
RPD	Relative Percent Difference.
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.
(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.
Rec.	Recovery.

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.
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.
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.
V	The sample concentration is too high to evaluate accurate spike recoveries.

ESC Lab Sciences is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our "one location" design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be **YOUR LAB OF CHOICE.**
* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

State Accreditations

Alabama	40660	Nevada	TN-03-2002-34
Alaska	UST-080	New Hampshire	2975
Arizona	AZ0612	New Jersey–NELAP	TN002
Arkansas	88-0469	New Mexico	TN00003
California	01157CA	New York	11742
Colorado	TN00003	North Carolina	Env375
Conneticut	PH-0197	North Carolina [1]	DW21704
Florida	E87487	North Carolina [2]	41
Georgia	NELAP	North Dakota	R-140
Georgia [1]	923	Ohio–VAP	CL0069
Idaho	TN00003	Oklahoma	9915
Illinois	200008	Oregon	TN200002
Indiana	C-TN-01	Pennsylvania	68-02979
Iowa	364	Rhode Island	221
Kansas	E-10277	South Carolina	84004
Kentucky [1]	90010	South Dakota	n/a
Kentucky [2]	16	Tennessee [1 4]	2006
Louisiana	AI30792	Texas	T 104704245-07-TX
Maine	TN0002	Texas [5]	LAB0152
Maryland	324	Utah	6157585858
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	109
Minnesota	047-999-395	Washington	C1915
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	9980939910
Montana	CERT0086	Wyoming	A2LA
Nebraska	NE-OS-15-05		

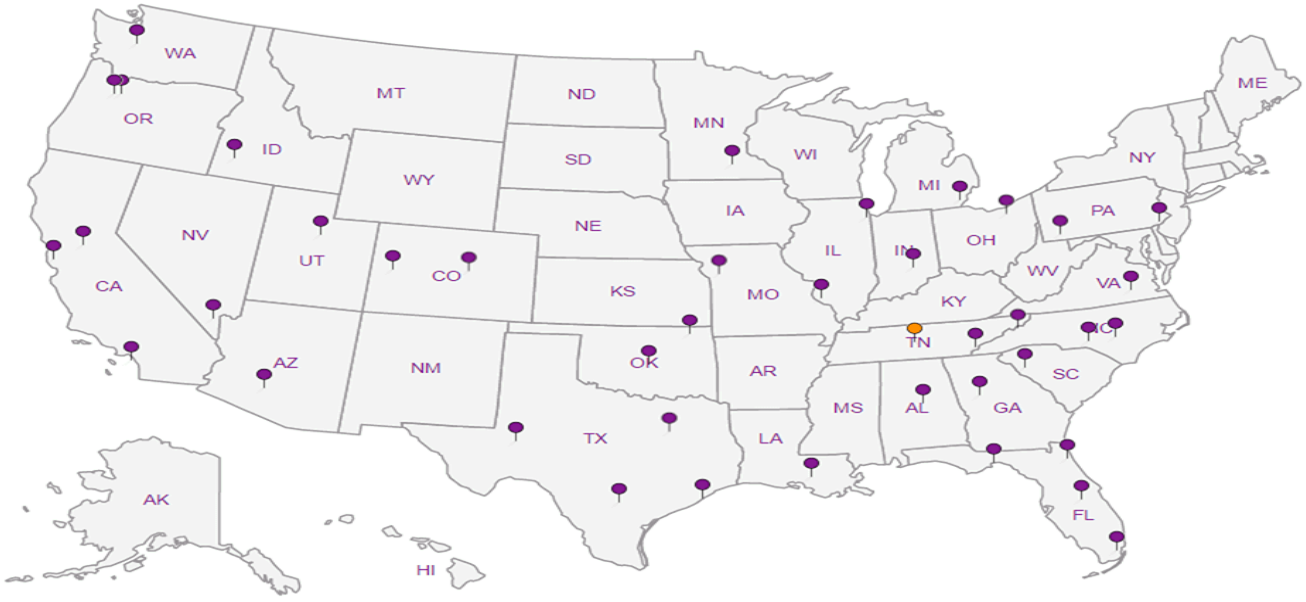
Third Party & Federal Accreditations

A2LA – ISO 17025	1461.01	AIHA-LAP,LLC	100789
A2LA – ISO 17025 [5]	1461.02	DOD	1461.01
Canada	1461.01	USDA	S-67674
EPA–Crypto	TN00003		

[1] Drinking Water [2] Underground Storage Tanks [3] Aquatic Toxicity [4] Chemical/Microbiological [5] Mold [n/a] Accreditation not applicable

Our Locations

ESC Lab Sciences has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. **ESC Lab Sciences performs all testing at our central laboratory.**



MDB 2

Company Name/Address:	Billing Information:
TRC Solutions - Austin, TX **505 E. Huntland Dr, Ste 250** **Austin, TX 78752**	**Accounts Payable** **21 Griffin Road North** **Windsor, CT 06095**
Report to: Julie Speer	Email To: jspeer@trcwsolutions.com
Project Description: **EP Spring 2017**	City/State Collected: NM
Phone: 512-684-3170 Fax:	Client Project #	Lab Project #
Collected by (print): **Scott Ude/HMI Team**	Site/Facility ID #: EP (Navajo - Artesia)	P.O. #: 107027
Collected by (signature): Scott Ude Immediately Packed on Ice N ___ Y ✓	***Rush?*** (Lab MUST Be Notified) ___ Same Day ....200% ___ Next Day ....100% ___ Two Day ....50% ___ Three Day 25%	Date Results Needed Email? ___No ✓Yes FAX? ___No ___Yes

Analysis / Container / Preservative

Chain of Custody Page 1 of 20

ESC LABORATORY SCIENCES
YOUR LAB OF CHOICE
12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

L# L905300

G136

Acctnum: TRCATX
Template:
Prelogin:
TSR: **Chris McCord**
Cooler:
Shipped Via:

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	VOC	DRO	GRO	Short List Metals (Total & Dissolved)	Cations (from "total metals" bottle) (2)	Anions	NO2NO3, TDS (2)	Long List Metals (Total & Dissolved)	Cyanide	Rem./Contaminant	Sample # (lab only)
~~MW-79~~	Grab	GW					X	X	X	X	X	X	X				
MW-82	Grab	GW		4/25/17	1605	10	X	X	X	X	X	X	X				-01
MW-74	Grab	GW		4/25/17	1450	10	X	X	X	X	X	X	X				02
MW-73	Grab	GW		4/25/17	1405	10	X	X	X	X	X	X	X				03
~~MW-2A~~	Grab	GW					X	X	X	X	X	X	X				
MW-72	Grab	GW		4/25/17	1255	10	X	X	X	X	X	X	X				04
OCD-6	Grab	GW		4/25/17	1005	10	X	X	X	X	X	X	X				05
OCD-7AR	Grab	GW		4/25/17	1055	10	X	X	X	X	X	X	X				06
OCD-7B	Grab	GW		4/25/17	1150	10	X	X	X	X	X	X	X				07
	Grab	GW															

* Matrix: **SS** - Soil **GW** - Groundwater **WW** - WasteWater **DW** - Drinking Water **OT** - Other_____

pH _____ Temp _____

Flow _____ Other _____

7283 8327 3350

Remarks: **Dissolved metals field-filtered.** This COC represents shipment 1. Project is continuing. 7283 8327 4184

Hold #

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Scott Ude	4/26/17	0800	
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)
			MWL

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

Temp: 1.5 °C Bottles Received: 23

Date: 4-27-17 Time: 900

Condition: (lab use only)

COC Seal Intact: ✓ Y ___N ___NA

pH Checked: 2,7,12 NCF:

2

SCD 2

Company Name/Address:
TRC Solutions - Austin, TX
505 E. Huntland Dr, Ste 250
Austin, TX 78752

Billing Information:
Accounts Payable
21 Griffin Road North
Windsor, CT 06095

Report to: Julie Speer
Email To: jspeer@trcwsolutions.com

Project Description: **EP Spring 2017**
City/State Collected: NM

Phone: 512-684-3170
Fax:
Client Project #
Lab Project #

Collected by (print): **Scott Ude/HMI Team**
Site/Facility ID #: EP (Navajo - Artesia)
P.O. # 107027

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

Rush? (Lab MUST Be Notified)
___ Same Day 200%
___ Next Day 100%
___ Two Day 50%
___ Three Day 25%

Date Results Needed

Email? ___No ✓Yes
FAX? ___No ___Yes

Analysis / Container / Preservative

Chain of Custody Page 2 of 20

ESC LAB SCIENCES
YOUR LAB OF CHOICE
12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

L# L905300

Table #

Acctnum: TRCATX
Template:
Prelogin:
TSR: **Chris McCord**
Cooler:
Shipped Via:

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	VOC	DRO	GRO	Short List Metals (Total & Dissolved)	Cations (from "total metals" bottle) (2)	Anions	NO2NO3, TDS (2)	Long List Metals (Total & Dissolved)	Cyanide (TR)	Rem./Contaminant	Sample # (lab only)
~~MW-123~~	Grab	GW					X	X	X	X	X	X	X				
~~MW-4A~~	Grab	GW					X	X	X	X	X	X	X				
~~MW-4B~~	Grab	GW					X	X	X	X	X	X	X				
MW-5A	Grab	GW		4/25/17	1235	10	X	X	X	X	X	X	X				08
MW-5B	Grab	GW		4/25/17	1330	10	X	X	X	X	X	X	X				09
MW-5C	Grab	GW		4/25/17	1415	10	X	X	X	X	X	X	X				10
MW-7A	Grab	GW		4/25/17	1055	10	X	X	X	X	X	X	X				11
MW-7B	Grab	GW		4/25/17	1150	10	X	X	X	X	X	X	X				12
OCD-8A	Grab	GW		4/25/17	1010	11	X	X	X		X	X	X	X	X		13
OCD-8B	Grab	GW		4/25/17	925	10	X	X	X	X	X	X	X				14

* Matrix: **SS** - Soil **GW** - Groundwater **WW** - WasteWater **DW** - Drinking Water **OT** - Other_____

pH _____ Temp _____
Flow _____ Other _____

Remarks: **Dissolved metals field-filtered.**

Hold #

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Scott Ude	4/26/17	0800	
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)
			MW

Samples returned via: ☐ UPS ✓ FedEx ☐ Courier ☐ _____
Temp: 1.5 °C Bottles Received: 231
Date: 4-27-17 Time: 900

Condition: (lab use only)
COC Seal Intact: ___Y ___N ___NA
pH Checked: NCF:

4

BRH 2

Company Name/Address: **TRC Solutions - Austin, TX** 505 E. Huntland Dr, Ste 250 Austin, TX 78752	Billing Information: **Accounts Payable** 21 Griffin Road North Windsor, CT 06095
Report to: Julie Speer	Email To: jspeer@trcwsolutions.com
Project Description: **EP Spring 2017**	City/State Collected: NM
Phone: 512-684-3170 Fax:	Client Project #	Lab Project #
Collected by (print): **Scott Ude/HMI Team**	Site/Facility ID #: EP (Navajo - Artesia)	P.O. #: 107027
Collected by (signature): Scott Ude Immediately Packed on Ice N ___ Y ✓	***Rush?*** (Lab MUST Be Notified) ___ Same Day .....200% ___ Next Day .....100% ___ Two Day .....50% ___ Three Day 25%	Date Results Needed Email? ___No ✓Yes FAX? ___No ___Yes

Chain of Custody Page 3 of 20

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

L# L905300

Table #

Acctnum: TRCATX

Template:

Prelogin:

TSR: **Chris McCord**

Cooler:

Shipped Via:

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	VOC	DRO	GRO	Short List Metals (Total & Dissolved)	Cations (from "total metals" bottle)	Anions	NO2NO3, TDS	Long List Metals (Total & Dissolved)	Cyanide		Rem./Contaminant	Sample # (lab only)
~~MW-1R~~	Grab	GW					X	X		X	X	X	X					
~~MW-15~~	Grab	GW					X	X	X	X	X	X	X					
~~OCD-1R~~	Grab	GW					X	X	X	X	X	X	X					
~~OCD-2A~~	Grab	GW					X	X	X	X	X	X	X					
~~OCD-3~~	Grab	GW					X	X	X	X	X	X	X					
~~OCD-4~~	Grab	GW					X	X	X	X	X	X	X					
~~MW-11A~~	Grab	GW					X	X	X	X	X	X	X					
~~MW-11B~~	Grab	GW					X	X	X	X	X	X	X					
~~OCD-5~~	Grab	GW					X	X	X	X	X	X	X					
MW-87	Grab	GW		4/25/17	1720	10	X	X	X	X	X	X	X					15

* Matrix: **SS** - Soil **GW** - Groundwater **WW** - WasteWater **DW** - Drinking Water **OT** - Other_____

Remarks: **Dissolved metals field-filtered.**

pH _____ Temp _____

Flow _____ Other _____

Hold #

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Scott Ude	4/26/17	0800	
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)
			MWL

Samples returned via: ☐ UPS ☑ FedEx ☐ Courier ☐ _____

Temp: 1.6 °C Bottles Received: 231

Date: 4-27-17 Time: 900

Condition: (lab use only)

COC Seal Intact: ___Y ___N ___NA

pH Checked: NCF:

5

BRH 3

Page 4 of 20

Company Name/Address:	Billing Information:
TRC Solutions - Austin, TX **505 E. Huntland Dr, Ste 250** **Austin, TX 78752**	**Accounts Payable** **21 Griffin Road North** **Windsor, CT 06095**
Report to: Julie Speer	Email To: jspeer@trcwsolutions.com
Project Description: **EP Spring 2017**	City/State Collected: NM
Phone: 512-684-3170 Fax:	Client Project #	Lab Project #
Collected by (print): **Scott Ude/HMI Team**	Site/Facility ID #: EP (Navajo - Artesia)	P.O. #: 107027
Collected by (signature): Scott Ude Immediately Packed on Ice N ___ Y ✓	***Rush?*** (Lab MUST Be Notified) ___ Same Day .....200% ___ Next Day .....100% ___ Two Day .....50% ___ Three Day 25%	Date Results Needed Email? ___No ✓Yes FAX? ___No ___Yes

Chain of Custody

ESC LABORATORY SCIENCES
YOUR LAB OF CHOICE
12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

L# L905300

Table #

Acctnum: TRCATX

Template:

Prelogin:

TSR: **Chris McCord**

Cooler:

Shipped Via:

Analysis / Container / Preservative

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	VOC	DRO	GRO	Short List Metals (Total & Dissolved)	Cations (from "total metals" bottle) (12)	Anions	NO2NO3, TDS (12)	Long List Metals (Total & Dissolved)	Cyanide (7)	Rem./Contaminant	Sample # (lab only)
MW-18A	Grab	GW		4/25/17	1330	9	X	X			X	X	X	X	X		16
MW-18B	Grab	GW		4/25/17	1420	10	X	X	X	X	X	X	X				17
MW-70	Grab	GW		4/25/17	1520	10	X	X	X	X	X	X	X				18
MW-124	Grab	GW		4/25/17	1620	10	X	X	X	X	X	X	X				19
	Grab	GW															
	Grab	GW															
	Grab	GW															
	Grab	GW															
	Grab	GW															
	Grab	GW															

* Matrix: **SS** - Soil **GW** - Groundwater **WW** - WasteWater **DW** - Drinking Water **OT** - Other_____

pH _____ Temp _____

Flow _____ Other _____

Remarks: **Dissolved metals field-filtered.**

Hold #

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Scott Ude	4/26/17	0800	
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)
			Mark

Samples returned via: ☐ UPS ☑ FedEx ☐ Courier ☐ _____

Temp: 1.3 °C Bottles Received: 23

Date: 4-27-17 Time: 900

Condition: (lab use only)

COC Seal Intact: ___Y ___N ___NA

pH Checked: NCF:

6

QA/QC 1

Chain of Custody Page 5 of 20

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

L# L905300

Table #

Acctnum: TRCATX

Template:

Prelogin:

TSR: Chris McCord

Cooler:

Shipped Via:

Company Name/Address:	Billing Information:
TRC Solutions - Austin, TX 505 E. Huntland Dr, Ste 250 Austin, TX 78752	**Accounts Payable** 21 Griffin Road North Windsor, CT 06095
Report to: Julie Speer	Email To: jspeer@trcwsolutions.com
Project Description: **EP Spring 2017**	City/State Collected: NM
Phone: 512-684-3170 Fax:	Client Project #	Lab Project #
Collected by (print): **Scott Ude/HMI Team**	Site/Facility ID # EP (Navajo - Artesia)	P.O. # 107027
Collected by (signature): Scott Ude Immediately Packed on Ice N ___ Y ✓	***Rush?*** (Lab MUST Be Notified) ___ Same Day ....200% ___ Next Day ....100% ___ Two Day ....50% ___ Three Day 25%	Date Results Needed Email? ___No ✓Yes FAX? ___No ___Yes

Analysis / Container / Preservative

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	VOC	DRO	GRO	Short List Metals (Total & Dissolved)	Cations (from "total metals" bottle) LL	Anions	NO2NO3, TDS LL	Long List Metals (Total & Dissolved)	Cyanide		Rem./Contaminant	Sample # (lab only)
DUP-EP-01	Grab	GW		4/25/17	1000	10	X	X	X	X	X	X	X					20
~~DUP-EP-02~~	Grab	GW					X	X	X	X	X	X	X					
~~DUP-EP-03~~	Grab	GW					X	X	X	X	X	X	X					
EB-EP-01	Grab	GW		4/25/17	1505	10	X	X	X	X	X	X	X					21
EB-EP-02	Grab	GW		4/25/17	1640	10	X	X	X	X	X	X	X					22
EB-EP-03	Grab	GW		4/25/17	1250	10	X	X	X	X	X	X	X					23
~~EB-EP-04~~	Grab	GW					X	X	X	X	X	X	X					
~~Trip Blank-EP-01~~	Grab	GW					X											
Trip Blank-EP-02	Grab	GW		4/25/17	—	1	X											24
~~Trip Blank-EP-03~~	Grab	GW					X											

* Matrix: **SS** - Soil **GW** - Groundwater **WW** - WasteWater **DW** - Drinking Water **OT** - Other _____

pH _____ Temp _____

Remarks: **Dissolved metals field-filtered.**

Flow _____ Other _____

Hold #

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Scott Ude	4/26/17	0800	
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)
			Mwk

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

Temp: 1.4 °C Bottles Received: 23

Date: 4-27-17 Time: 900

Condition: (lab use only)

COC Seal Intact: ___Y ___N ___NA

pH Checked: NCF:

7

ESC LAB SCIENCES
Cooler Receipt Form

Client: TRCATX		SDG#	L905300
Cooler Received/Opened On: 4/ 27 /17	Temperature:	1.5	
Received By: MICHAEL WITHERSPOON			
Signature:			

Receipt Check List	4/27/17 NP	Yes	No
COC Seal Present / Intact?	N		
COC Signed / Accurate?			
Bottles arrive intact?			
Correct bottles used?			
Sufficient volume sent?			
If Applicable			
VOA Zero headspace?			
Preservation Correct / Checked?			

ANALYTICAL REPORT

May 04, 2017

TRC Solutions - Austin, TX

Sample Delivery Group:	L905302
Samples Received:	04/27/2017
Project Number:	249545.0000.0000 000
Description:	NCL Spring 2017
Site:	NCL - NAVAJO-ARTESIA
Report To:	Julie Speer 505 E. Huntland Dr, Ste 250 Austin, TX 78752

Entire Report Reviewed By:

Jason Romer
Technical Service Representative

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 ESC is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.



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MW-45 L905302-01 GW

Collected by | Collected date/time 04/25/17 18:20 | Received date/time 04/27/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG974888	1	04/30/17 11:38	04/30/17 12:15	MMF
Wet Chemistry by Method 353.2	WG974945	1	05/01/17 16:14	05/01/17 16:14	DR
Wet Chemistry by Method 4500CN E-2011	WG974960	1	04/28/17 16:29	05/02/17 09:24	DR
Wet Chemistry by Method 9056A	WG974575	1	04/28/17 15:10	04/28/17 15:10	SAM
Wet Chemistry by Method 9056A	WG974575	100	04/28/17 15:57	04/28/17 15:57	SAM
Mercury by Method 7470A	WG974464	1	04/27/17 13:20	04/28/17 15:32	TRB
Mercury by Method 7470A	WG974524	1	04/27/17 13:18	04/28/17 14:22	TRB
Metals (ICPMS) by Method 6020	WG974692	1	04/28/17 10:43	04/29/17 14:16	JPD
Metals (ICPMS) by Method 6020	WG974692	1	04/28/17 10:43	04/29/17 17:25	VSS
Metals (ICPMS) by Method 6020	WG974692	1	04/28/17 10:43	04/30/17 19:49	VSS
Metals (ICPMS) by Method 6020	WG974745	1	05/01/17 10:10	05/01/17 16:44	VSS
Metals (ICPMS) by Method 6020	WG974745	1	05/01/17 10:10	05/01/17 21:22	VSS
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975213	1	04/30/17 00:31	04/30/17 00:31	LRL
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975213	1	05/02/17 19:43	05/02/17 19:43	LRL
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG974616	1	04/27/17 18:36	04/29/17 05:35	DMG

MW-54A L905302-02 GW

Collected by | Collected date/time 04/25/17 11:15 | Received date/time 04/27/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG974888	1	04/30/17 11:38	04/30/17 12:15	MMF
Wet Chemistry by Method 353.2	WG974945	1	05/01/17 16:21	05/01/17 16:21	DR
Wet Chemistry by Method 9056A	WG974575	1	04/28/17 15:22	04/28/17 15:22	SAM
Wet Chemistry by Method 9056A	WG974575	20	04/28/17 16:09	04/28/17 16:09	SAM
Metals (ICPMS) by Method 6020	WG974692	1	04/28/17 10:43	04/29/17 14:19	JPD
Metals (ICPMS) by Method 6020	WG974692	1	04/28/17 10:43	04/29/17 17:29	VSS
Metals (ICPMS) by Method 6020	WG974745	1	05/01/17 10:10	05/01/17 16:47	VSS
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975213	1	04/30/17 00:47	04/30/17 00:47	LRL
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG974616	1	04/27/17 18:36	04/29/17 05:52	DMG

MW-54B L905302-03 GW

Collected by | Collected date/time 04/25/17 10:35 | Received date/time 04/27/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG974889	1	04/30/17 12:08	04/30/17 13:12	MMF
Wet Chemistry by Method 353.2	WG974945	1	05/01/17 16:22	05/01/17 16:22	DR
Wet Chemistry by Method 9056A	WG974575	1	04/28/17 15:34	04/28/17 15:34	SAM
Wet Chemistry by Method 9056A	WG974575	50	04/28/17 16:20	04/28/17 16:20	SAM
Metals (ICPMS) by Method 6020	WG974692	1	04/28/17 10:43	04/29/17 14:22	JPD
Metals (ICPMS) by Method 6020	WG974692	1	04/28/17 10:43	04/29/17 17:32	VSS
Metals (ICPMS) by Method 6020	WG974745	1	05/01/17 10:10	05/01/17 17:34	VSS
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG974800	1	04/28/17 17:06	04/28/17 17:06	DWR
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975213	1	04/30/17 01:02	04/30/17 01:02	LRL
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG974616	1	04/27/17 18:36	04/29/17 06:27	DMG

NCL-49 L905302-04 GW

Collected by | Collected date/time 04/25/17 09:45 | Received date/time 04/27/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG974889	1	04/30/17 12:08	04/30/17 13:12	MMF
Wet Chemistry by Method 353.2	WG974945	5	05/01/17 16:23	05/01/17 16:23	DR
Wet Chemistry by Method 9056A	WG974575	1	04/28/17 15:45	04/28/17 15:45	SAM

NCL-49 L905302-04 GW

Collected by | Collected date/time 04/25/17 09:45 | Received date/time 04/27/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Wet Chemistry by Method 9056A	WG974575	50	04/28/17 16:32	04/28/17 16:32	SAM
Metals (ICPMS) by Method 6020	WG974692	1	04/28/17 10:43	04/29/17 14:26	JPD
Metals (ICPMS) by Method 6020	WG974692	1	04/28/17 10:43	04/29/17 17:36	VSS
Metals (ICPMS) by Method 6020	WG974745	1	05/01/17 10:10	05/01/17 17:38	VSS
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975213	1	04/30/17 01:18	04/30/17 01:18	LRL
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG974616	1	04/27/17 18:36	04/29/17 03:34	DMG

MW-53 L905302-05 GW

Collected by | Collected date/time 04/25/17 09:05 | Received date/time 04/27/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG974889	1	04/30/17 12:08	04/30/17 13:12	MMF
Wet Chemistry by Method 353.2	WG974945	5	05/01/17 16:24	05/01/17 16:24	DR
Wet Chemistry by Method 9056A	WG974575	1	04/28/17 17:07	04/28/17 17:07	SAM
Wet Chemistry by Method 9056A	WG974575	50	04/28/17 17:54	04/28/17 17:54	SAM
Metals (ICPMS) by Method 6020	WG974692	1	04/28/17 10:43	04/29/17 14:29	JPD
Metals (ICPMS) by Method 6020	WG974692	1	04/28/17 10:43	04/29/17 17:39	VSS
Metals (ICPMS) by Method 6020	WG974745	1	05/01/17 10:10	05/01/17 17:41	VSS
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975213	1	04/30/17 01:33	04/30/17 01:33	LRL
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG974616	1	04/27/17 18:36	04/29/17 03:00	DMG

DUP-NCL-01 L905302-06 GW

Collected by | Collected date/time 04/25/17 09:00 | Received date/time 04/27/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG974889	1	04/30/17 12:08	04/30/17 13:12	MMF
Wet Chemistry by Method 353.2	WG974945	5	05/01/17 16:25	05/01/17 16:25	DR
Wet Chemistry by Method 9056A	WG974575	1	04/28/17 17:19	04/28/17 17:19	SAM
Wet Chemistry by Method 9056A	WG974575	50	04/28/17 18:05	04/28/17 18:05	SAM
Metals (ICPMS) by Method 6020	WG974692	1	04/28/17 10:43	04/29/17 14:33	JPD
Metals (ICPMS) by Method 6020	WG974692	1	04/28/17 10:43	04/29/17 17:43	VSS
Metals (ICPMS) by Method 6020	WG974745	1	05/01/17 10:10	05/01/17 17:45	VSS
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975213	1	04/30/17 01:49	04/30/17 01:49	LRL
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG974616	1	04/27/17 18:36	04/29/17 03:17	DMG

TRIP BLANK-NCL-01 L905302-07 GW

Collected by | Collected date/time 04/25/17 00:00 | Received date/time 04/27/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975213	1	04/29/17 22:42	04/29/17 22:42	LRL

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times. 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.



Jason Romer
Technical Service Representative

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Dissolved Solids	5410		2.82	10.0	1	04/30/2017 12:15	WG974888

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	0.0270	J	0.0197	0.100	1	05/01/2017 16:14	WG974945

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	05/02/2017 09:24	WG974960

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	545		5.19	100	100	04/28/2017 15:57	WG974575
Fluoride	1.27		0.00990	0.100	1	04/28/2017 15:10	WG974575
Sulfate	2840		7.74	500	100	04/28/2017 15:57	WG974575

Mercury by Method 7470A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Mercury	U		0.0000490	0.000200	1	04/28/2017 15:32	WG974464
Mercury,Dissolved	U		0.0000490	0.000200	1	04/28/2017 14:22	WG974524

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.00404		0.000250	0.00200	1	05/01/2017 16:44	WG974745
Arsenic,Dissolved	0.00343		0.000250	0.00200	1	04/29/2017 14:16	WG974692
Barium	0.0162		0.000360	0.00500	1	05/01/2017 16:44	WG974745
Barium,Dissolved	0.0174		0.000360	0.00500	1	04/29/2017 14:16	WG974692
Boron	0.514		0.00150	0.0200	1	05/01/2017 16:44	WG974745
Boron,Dissolved	0.549		0.00150	0.0200	1	04/30/2017 19:49	WG974692
Cadmium	U		0.000160	0.00100	1	05/01/2017 16:44	WG974745
Cadmium,Dissolved	U		0.000160	0.00100	1	04/29/2017 14:16	WG974692
Calcium	625		0.0460	1.00	1	05/01/2017 16:44	WG974745
Chromium	U		0.000540	0.00200	1	05/01/2017 16:44	WG974745
Chromium,Dissolved	U		0.000540	0.00200	1	04/29/2017 14:16	WG974692
Cobalt	U		0.000260	0.00200	1	05/01/2017 16:44	WG974745
Cobalt,Dissolved	U		0.000260	0.00200	1	04/29/2017 14:16	WG974692
Iron	1.29		0.0150	0.100	1	05/01/2017 16:44	WG974745
Iron,Dissolved	0.153		0.0150	0.100	1	04/29/2017 14:16	WG974692
Lead	U		0.000240	0.00200	1	05/01/2017 16:44	WG974745
Lead,Dissolved	U		0.000240	0.00200	1	04/29/2017 17:25	WG974692
Manganese	0.582		0.000250	0.00500	1	05/01/2017 16:44	WG974745
Manganese,Dissolved	0.572		0.000250	0.00500	1	04/29/2017 14:16	WG974692
Nickel	0.00558		0.000350	0.00200	1	05/01/2017 16:44	WG974745
Nickel,Dissolved	0.00333		0.000350	0.00200	1	04/29/2017 14:16	WG974692
Potassium	5.69		0.0370	1.00	1	05/01/2017 16:44	WG974745
Selenium	U		0.000380	0.00200	1	05/01/2017 16:44	WG974745
Selenium,Dissolved	0.000382	J	0.000380	0.00200	1	04/29/2017 14:16	WG974692
Sodium	394		0.110	1.00	1	05/01/2017 16:44	WG974745

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Uranium	0.00109	J	0.000330	0.0100	1	05/01/2017 21:22	WG974745
Uranium,Dissolved	0.00110	J	0.000330	0.0100	1	04/29/2017 17:25	WG974692
Vanadium	0.000466	J	0.000180	0.00500	1	05/01/2017 16:44	WG974745
Vanadium,Dissolved	0.000300	J	0.000180	0.00500	1	04/29/2017 14:16	WG974692

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	J4	0.0100	0.0500	1	04/30/2017 00:31	WG975213
Benzene	U		0.000331	0.00100	1	04/30/2017 00:31	WG975213
Bromodichloromethane	U		0.000380	0.00100	1	04/30/2017 00:31	WG975213
Bromoform	U		0.000469	0.00100	1	04/30/2017 00:31	WG975213
Bromomethane	U		0.000866	0.00500	1	04/30/2017 00:31	WG975213
n-Butylbenzene	U		0.000361	0.00100	1	04/30/2017 00:31	WG975213
sec-Butylbenzene	U		0.000365	0.00100	1	04/30/2017 00:31	WG975213
Carbon disulfide	U		0.000275	0.00100	1	04/30/2017 00:31	WG975213
Carbon tetrachloride	U		0.000379	0.00100	1	04/30/2017 00:31	WG975213
Chlorobenzene	U		0.000348	0.00100	1	04/30/2017 00:31	WG975213
Chlorodibromomethane	U		0.000327	0.00100	1	04/30/2017 00:31	WG975213
Chloroethane	U		0.000453	0.00500	1	04/30/2017 00:31	WG975213
Chloroform	U		0.000324	0.00500	1	04/30/2017 00:31	WG975213
Chloromethane	U		0.000276	0.00250	1	04/30/2017 00:31	WG975213
1,2-Dibromoethane	U		0.000381	0.00100	1	04/30/2017 00:31	WG975213
1,1-Dichloroethane	U		0.000259	0.00100	1	04/30/2017 00:31	WG975213
1,2-Dichloroethane	U		0.000361	0.00100	1	04/30/2017 00:31	WG975213
1,1-Dichloroethene	U		0.000398	0.00100	1	04/30/2017 00:31	WG975213
cis-1,2-Dichloroethene	0.00152		0.000260	0.00100	1	04/30/2017 00:31	WG975213
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	04/30/2017 00:31	WG975213
1,2-Dichloropropane	U		0.000306	0.00100	1	04/30/2017 00:31	WG975213
cis-1,3-Dichloropropene	U		0.000418	0.00100	1	04/30/2017 00:31	WG975213
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	04/30/2017 00:31	WG975213
Ethylbenzene	U		0.000384	0.00100	1	04/30/2017 00:31	WG975213
Isopropylbenzene	U		0.000326	0.00100	1	04/30/2017 00:31	WG975213
p-Isopropyltoluene	U		0.000350	0.00100	1	04/30/2017 00:31	WG975213
2-Butanone (MEK)	U		0.00393	0.0100	1	04/30/2017 00:31	WG975213
2-Hexanone	U		0.00382	0.0100	1	04/30/2017 00:31	WG975213
Methylene Chloride	U		0.00100	0.00500	1	04/30/2017 00:31	WG975213
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	04/30/2017 00:31	WG975213
Methyl tert-butyl ether	0.00316		0.000367	0.00100	1	04/30/2017 00:31	WG975213
Naphthalene	U		0.00100	0.00500	1	04/30/2017 00:31	WG975213
n-Propylbenzene	U		0.000349	0.00100	1	04/30/2017 00:31	WG975213
Styrene	U		0.000307	0.00100	1	04/30/2017 00:31	WG975213
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	04/30/2017 00:31	WG975213
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	04/30/2017 00:31	WG975213
Tetrachloroethene	U		0.000372	0.00100	1	04/30/2017 00:31	WG975213
Toluene	U		0.000412	0.00100	1	04/30/2017 00:31	WG975213
1,1,1-Trichloroethane	U		0.000319	0.00100	1	04/30/2017 00:31	WG975213
1,1,2-Trichloroethane	U		0.000383	0.00100	1	04/30/2017 00:31	WG975213
Trichloroethene	U		0.000398	0.00100	1	04/30/2017 00:31	WG975213
1,2,4-Trimethylbenzene	U		0.000373	0.00100	1	04/30/2017 00:31	WG975213
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	04/30/2017 00:31	WG975213
Vinyl chloride	U		0.000259	0.00100	1	05/02/2017 19:43	WG975213
o-Xylene	U		0.000341	0.00100	1	04/30/2017 00:31	WG975213
m&p-Xylene	U		0.000719	0.00200	1	04/30/2017 00:31	WG975213
Xylenes, Total	U		0.00106	0.00300	1	04/30/2017 00:31	WG975213
(S) Toluene-d8	*104*			*80.0-120*		*04/30/2017 00:31*	WG975213

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) Toluene-d8	*105*			*80.0-120*		*05/02/2017 19:43*	WG975213
(S) Dibromofluoromethane	*101*			*76.0-123*		*05/02/2017 19:43*	WG975213
(S) Dibromofluoromethane	*104*			*76.0-123*		*04/30/2017 00:31*	WG975213
(S) 4-Bromofluorobenzene	*99.1*			*80.0-120*		*04/30/2017 00:31*	WG975213
(S) 4-Bromofluorobenzene	*103*			*80.0-120*		*05/02/2017 19:43*	WG975213

Semi-Volatile Organic Compounds (GC) by 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	04/29/2017 05:35	WG974616
(S) o-Terphenyl	*97.5*			*31.0-160*		*04/29/2017 05:35*	WG974616

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	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Dissolved Solids	1800		2.82	10.0	1	04/30/2017 12:15	WG974888

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	0.0860	J	0.0197	0.100	1	05/01/2017 16:21	WG974945

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	193		1.04	20.0	20	04/28/2017 16:09	WG974575
Fluoride	0.987		0.00990	0.100	1	04/28/2017 15:22	WG974575
Sulfate	797		1.55	100	20	04/28/2017 16:09	WG974575

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.00464		0.000250	0.00200	1	05/01/2017 16:47	WG974745
Arsenic,Dissolved	0.00274		0.000250	0.00200	1	04/29/2017 14:19	WG974692
Barium	0.0147		0.000360	0.00500	1	05/01/2017 16:47	WG974745
Barium,Dissolved	0.0164		0.000360	0.00500	1	04/29/2017 14:19	WG974692
Calcium	330		0.0460	1.00	1	05/01/2017 16:47	WG974745
Chromium	U		0.000540	0.00200	1	05/01/2017 16:47	WG974745
Chromium,Dissolved	U		0.000540	0.00200	1	04/29/2017 14:19	WG974692
Iron	0.227		0.0150	0.100	1	05/01/2017 16:47	WG974745
Iron,Dissolved	U		0.0150	0.100	1	04/29/2017 14:19	WG974692
Lead	U		0.000240	0.00200	1	05/01/2017 16:47	WG974745
Lead,Dissolved	U		0.000240	0.00200	1	04/29/2017 17:29	WG974692
Manganese	0.456		0.000250	0.00500	1	05/01/2017 16:47	WG974745
Manganese,Dissolved	0.450		0.000250	0.00500	1	04/29/2017 14:19	WG974692
Potassium	0.289	J	0.0370	1.00	1	05/01/2017 16:47	WG974745
Selenium	U		0.000380	0.00200	1	05/01/2017 16:47	WG974745
Selenium,Dissolved	U		0.000380	0.00200	1	04/29/2017 14:19	WG974692
Sodium	59.8		0.110	1.00	1	05/01/2017 16:47	WG974745

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	J4	0.0100	0.0500	1	04/30/2017 00:47	WG975213
Benzene	U		0.000331	0.00100	1	04/30/2017 00:47	WG975213
Bromodichloromethane	U		0.000380	0.00100	1	04/30/2017 00:47	WG975213
Bromoform	U		0.000469	0.00100	1	04/30/2017 00:47	WG975213
Bromomethane	U		0.000866	0.00500	1	04/30/2017 00:47	WG975213
n-Butylbenzene	U		0.000361	0.00100	1	04/30/2017 00:47	WG975213
sec-Butylbenzene	U		0.000365	0.00100	1	04/30/2017 00:47	WG975213
Carbon disulfide	U		0.000275	0.00100	1	04/30/2017 00:47	WG975213
Carbon tetrachloride	U		0.000379	0.00100	1	04/30/2017 00:47	WG975213
Chlorobenzene	U		0.000348	0.00100	1	04/30/2017 00:47	WG975213
Chlorodibromomethane	U		0.000327	0.00100	1	04/30/2017 00:47	WG975213
Chloroethane	U		0.000453	0.00500	1	04/30/2017 00:47	WG975213
Chloroform	U		0.000324	0.00500	1	04/30/2017 00:47	WG975213
Chloromethane	U		0.000276	0.00250	1	04/30/2017 00:47	WG975213
1,2-Dibromoethane	U		0.000381	0.00100	1	04/30/2017 00:47	WG975213
1,1-Dichloroethane	U		0.000259	0.00100	1	04/30/2017 00:47	WG975213

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
1,2-Dichloroethane	U		0.000361	0.00100	1	04/30/2017 00:47	WG975213
1,1-Dichloroethene	U		0.000398	0.00100	1	04/30/2017 00:47	WG975213
cis-1,2-Dichloroethene	0.000888	J	0.000260	0.00100	1	04/30/2017 00:47	WG975213
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	04/30/2017 00:47	WG975213
1,2-Dichloropropane	U		0.000306	0.00100	1	04/30/2017 00:47	WG975213
cis-1,3-Dichloropropene	U		0.000418	0.00100	1	04/30/2017 00:47	WG975213
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	04/30/2017 00:47	WG975213
Ethylbenzene	U		0.000384	0.00100	1	04/30/2017 00:47	WG975213
Isopropylbenzene	U		0.000326	0.00100	1	04/30/2017 00:47	WG975213
p-Isopropyltoluene	U		0.000350	0.00100	1	04/30/2017 00:47	WG975213
2-Butanone (MEK)	U		0.00393	0.0100	1	04/30/2017 00:47	WG975213
2-Hexanone	U		0.00382	0.0100	1	04/30/2017 00:47	WG975213
Methylene Chloride	U		0.00100	0.00500	1	04/30/2017 00:47	WG975213
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	04/30/2017 00:47	WG975213
Methyl tert-butyl ether	U		0.000367	0.00100	1	04/30/2017 00:47	WG975213
Naphthalene	U		0.00100	0.00500	1	04/30/2017 00:47	WG975213
n-Propylbenzene	U		0.000349	0.00100	1	04/30/2017 00:47	WG975213
Styrene	U		0.000307	0.00100	1	04/30/2017 00:47	WG975213
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	04/30/2017 00:47	WG975213
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	04/30/2017 00:47	WG975213
Tetrachloroethene	U		0.000372	0.00100	1	04/30/2017 00:47	WG975213
Toluene	U		0.000412	0.00100	1	04/30/2017 00:47	WG975213
1,1,1-Trichloroethane	U		0.000319	0.00100	1	04/30/2017 00:47	WG975213
1,1,2-Trichloroethane	U		0.000383	0.00100	1	04/30/2017 00:47	WG975213
Trichloroethene	U		0.000398	0.00100	1	04/30/2017 00:47	WG975213
1,2,4-Trimethylbenzene	U		0.000373	0.00100	1	04/30/2017 00:47	WG975213
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	04/30/2017 00:47	WG975213
Vinyl chloride	U		0.000259	0.00100	1	04/30/2017 00:47	WG975213
o-Xylene	U		0.000341	0.00100	1	04/30/2017 00:47	WG975213
m&p-Xylene	U		0.000719	0.00200	1	04/30/2017 00:47	WG975213
Xylenes, Total	U		0.00106	0.00300	1	04/30/2017 00:47	WG975213
(S) Toluene-d8	*103*			*80.0-120*		*04/30/2017 00:47*	WG975213
(S) Dibromofluoromethane	*106*			*76.0-123*		*04/30/2017 00:47*	WG975213
(S) 4-Bromofluorobenzene	*98.8*			*80.0-120*		*04/30/2017 00:47*	WG975213

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	2.55		0.0247	0.100	1	04/29/2017 05:52	WG974616
(S) o-Terphenyl	*99.3*			*31.0-160*		*04/29/2017 05:52*	WG974616

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Dissolved Solids	1840		2.82	10.0	1	04/30/2017 13:12	WG974889

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	0.100	J	0.0197	0.100	1	05/01/2017 16:22	WG974945

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	127		2.60	50.0	50	04/28/2017 16:20	WG974575
Fluoride	0.617		0.00990	0.100	1	04/28/2017 15:34	WG974575
Sulfate	1040		3.87	250	50	04/28/2017 16:20	WG974575

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.00181	J	0.000250	0.00200	1	05/01/2017 17:34	WG974745
Arsenic,Dissolved	0.00173	J	0.000250	0.00200	1	04/29/2017 14:22	WG974692
Barium	0.0158		0.000360	0.00500	1	05/01/2017 17:34	WG974745
Barium,Dissolved	0.0168		0.000360	0.00500	1	04/29/2017 14:22	WG974692
Calcium	317		0.0460	1.00	1	05/01/2017 17:34	WG974745
Chromium	U		0.000540	0.00200	1	05/01/2017 17:34	WG974745
Chromium,Dissolved	U		0.000540	0.00200	1	04/29/2017 14:22	WG974692
Iron	U		0.0150	0.100	1	05/01/2017 17:34	WG974745
Iron,Dissolved	U		0.0150	0.100	1	04/29/2017 14:22	WG974692
Lead	U		0.000240	0.00200	1	05/01/2017 17:34	WG974745
Lead,Dissolved	U		0.000240	0.00200	1	04/29/2017 17:32	WG974692
Manganese	0.253		0.000250	0.00500	1	05/01/2017 17:34	WG974745
Manganese,Dissolved	0.246		0.000250	0.00500	1	04/29/2017 14:22	WG974692
Potassium	1.18		0.0370	1.00	1	05/01/2017 17:34	WG974745
Selenium	0.000720	J	0.000380	0.00200	1	05/01/2017 17:34	WG974745
Selenium,Dissolved	0.000795	J	0.000380	0.00200	1	04/29/2017 14:22	WG974692
Sodium	54.5		0.110	1.00	1	05/01/2017 17:34	WG974745

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
TPH (GC/FID) Low Fraction	U		0.0314	0.100	1	04/28/2017 17:06	WG974800
(S) a,a,a-Trifluorotoluene(FID)	*103*			*77.0-122*		*04/28/2017 17:06*	WG974800

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	J4	0.0100	0.0500	1	04/30/2017 01:02	WG975213
Benzene	U		0.000331	0.00100	1	04/30/2017 01:02	WG975213
Bromodichloromethane	U		0.000380	0.00100	1	04/30/2017 01:02	WG975213
Bromoform	U		0.000469	0.00100	1	04/30/2017 01:02	WG975213
Bromomethane	U		0.000866	0.00500	1	04/30/2017 01:02	WG975213
n-Butylbenzene	U		0.000361	0.00100	1	04/30/2017 01:02	WG975213
sec-Butylbenzene	U		0.000365	0.00100	1	04/30/2017 01:02	WG975213
Carbon disulfide	U		0.000275	0.00100	1	04/30/2017 01:02	WG975213
Carbon tetrachloride	U		0.000379	0.00100	1	04/30/2017 01:02	WG975213

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		0.000348	0.00100	1	04/30/2017 01:02	WG975213
Chlorodibromomethane	U		0.000327	0.00100	1	04/30/2017 01:02	WG975213
Chloroethane	U		0.000453	0.00500	1	04/30/2017 01:02	WG975213
Chloroform	U		0.000324	0.00500	1	04/30/2017 01:02	WG975213
Chloromethane	U		0.000276	0.00250	1	04/30/2017 01:02	WG975213
1,2-Dibromoethane	U		0.000381	0.00100	1	04/30/2017 01:02	WG975213
1,1-Dichloroethane	U		0.000259	0.00100	1	04/30/2017 01:02	WG975213
1,2-Dichloroethane	U		0.000361	0.00100	1	04/30/2017 01:02	WG975213
1,1-Dichloroethene	U		0.000398	0.00100	1	04/30/2017 01:02	WG975213
cis-1,2-Dichloroethene	0.000616	J	0.000260	0.00100	1	04/30/2017 01:02	WG975213
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	04/30/2017 01:02	WG975213
1,2-Dichloropropane	U		0.000306	0.00100	1	04/30/2017 01:02	WG975213
cis-1,3-Dichloropropene	U		0.000418	0.00100	1	04/30/2017 01:02	WG975213
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	04/30/2017 01:02	WG975213
Ethylbenzene	U		0.000384	0.00100	1	04/30/2017 01:02	WG975213
Isopropylbenzene	U		0.000326	0.00100	1	04/30/2017 01:02	WG975213
p-Isopropyltoluene	U		0.000350	0.00100	1	04/30/2017 01:02	WG975213
2-Butanone (MEK)	U		0.00393	0.0100	1	04/30/2017 01:02	WG975213
2-Hexanone	U		0.00382	0.0100	1	04/30/2017 01:02	WG975213
Methylene Chloride	U		0.00100	0.00500	1	04/30/2017 01:02	WG975213
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	04/30/2017 01:02	WG975213
Methyl tert-butyl ether	U		0.000367	0.00100	1	04/30/2017 01:02	WG975213
Naphthalene	U		0.00100	0.00500	1	04/30/2017 01:02	WG975213
n-Propylbenzene	U		0.000349	0.00100	1	04/30/2017 01:02	WG975213
Styrene	U		0.000307	0.00100	1	04/30/2017 01:02	WG975213
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	04/30/2017 01:02	WG975213
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	04/30/2017 01:02	WG975213
Tetrachloroethene	U		0.000372	0.00100	1	04/30/2017 01:02	WG975213
Toluene	U		0.000412	0.00100	1	04/30/2017 01:02	WG975213
1,1,1-Trichloroethane	U		0.000319	0.00100	1	04/30/2017 01:02	WG975213
1,1,2-Trichloroethane	U		0.000383	0.00100	1	04/30/2017 01:02	WG975213
Trichloroethene	U		0.000398	0.00100	1	04/30/2017 01:02	WG975213
1,2,4-Trimethylbenzene	U		0.000373	0.00100	1	04/30/2017 01:02	WG975213
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	04/30/2017 01:02	WG975213
Vinyl chloride	U		0.000259	0.00100	1	04/30/2017 01:02	WG975213
o-Xylene	U		0.000341	0.00100	1	04/30/2017 01:02	WG975213
m&p-Xylene	U		0.000719	0.00200	1	04/30/2017 01:02	WG975213
Xylenes, Total	U		0.00106	0.00300	1	04/30/2017 01:02	WG975213
(S) Toluene-d8	*102*			*80.0-120*		*04/30/2017 01:02*	WG975213
(S) Dibromofluoromethane	*106*			*76.0-123*		*04/30/2017 01:02*	WG975213
(S) 4-Bromofluorobenzene	*98.9*			*80.0-120*		*04/30/2017 01:02*	WG975213

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	0.881		0.0247	0.100	1	04/29/2017 06:27	WG974616
(S) o-Terphenyl	*98.8*			*31.0-160*		*04/29/2017 06:27*	WG974616

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Dissolved Solids	3070		2.82	10.0	1	04/30/2017 13:12	WG974889

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	9.84		0.0985	0.500	5	05/01/2017 16:23	WG974945

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	172		2.60	50.0	50	04/28/2017 16:32	WG974575
Fluoride	0.576		0.00990	0.100	1	04/28/2017 15:45	WG974575
Sulfate	2010		3.87	250	50	04/28/2017 16:32	WG974575

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.00151	J	0.000250	0.00200	1	05/01/2017 17:38	WG974745
Arsenic,Dissolved	0.00143	J	0.000250	0.00200	1	04/29/2017 14:26	WG974692
Barium	0.0118		0.000360	0.00500	1	05/01/2017 17:38	WG974745
Barium,Dissolved	0.0123		0.000360	0.00500	1	04/29/2017 14:26	WG974692
Calcium	451		0.0460	1.00	1	05/01/2017 17:38	WG974745
Chromium	U		0.000540	0.00200	1	05/01/2017 17:38	WG974745
Chromium,Dissolved	U		0.000540	0.00200	1	04/29/2017 14:26	WG974692
Iron	U		0.0150	0.100	1	05/01/2017 17:38	WG974745
Iron,Dissolved	U		0.0150	0.100	1	04/29/2017 14:26	WG974692
Lead	U		0.000240	0.00200	1	05/01/2017 17:38	WG974745
Lead,Dissolved	U		0.000240	0.00200	1	04/29/2017 17:36	WG974692
Manganese	0.000320	J	0.000250	0.00500	1	05/01/2017 17:38	WG974745
Manganese,Dissolved	U		0.000250	0.00500	1	04/29/2017 14:26	WG974692
Potassium	0.632	J	0.0370	1.00	1	05/01/2017 17:38	WG974745
Selenium	0.00871		0.000380	0.00200	1	05/01/2017 17:38	WG974745
Selenium,Dissolved	0.00904		0.000380	0.00200	1	04/29/2017 14:26	WG974692
Sodium	133		0.110	1.00	1	05/01/2017 17:38	WG974745

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	J4	0.0100	0.0500	1	04/30/2017 01:18	WG975213
Benzene	U		0.000331	0.00100	1	04/30/2017 01:18	WG975213
Bromodichloromethane	U		0.000380	0.00100	1	04/30/2017 01:18	WG975213
Bromoform	U		0.000469	0.00100	1	04/30/2017 01:18	WG975213
Bromomethane	U		0.000866	0.00500	1	04/30/2017 01:18	WG975213
n-Butylbenzene	U		0.000361	0.00100	1	04/30/2017 01:18	WG975213
sec-Butylbenzene	U		0.000365	0.00100	1	04/30/2017 01:18	WG975213
Carbon disulfide	U		0.000275	0.00100	1	04/30/2017 01:18	WG975213
Carbon tetrachloride	U		0.000379	0.00100	1	04/30/2017 01:18	WG975213
Chlorobenzene	U		0.000348	0.00100	1	04/30/2017 01:18	WG975213
Chlorodibromomethane	U		0.000327	0.00100	1	04/30/2017 01:18	WG975213
Chloroethane	U		0.000453	0.00500	1	04/30/2017 01:18	WG975213
Chloroform	U		0.000324	0.00500	1	04/30/2017 01:18	WG975213
Chloromethane	U		0.000276	0.00250	1	04/30/2017 01:18	WG975213
1,2-Dibromoethane	U		0.000381	0.00100	1	04/30/2017 01:18	WG975213
1,1-Dichloroethane	U		0.000259	0.00100	1	04/30/2017 01:18	WG975213

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		0.000361	0.00100	1	04/30/2017 01:18	WG975213
1,1-Dichloroethene	U		0.000398	0.00100	1	04/30/2017 01:18	WG975213
cis-1,2-Dichloroethene	0.000449	J	0.000260	0.00100	1	04/30/2017 01:18	WG975213
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	04/30/2017 01:18	WG975213
1,2-Dichloropropane	U		0.000306	0.00100	1	04/30/2017 01:18	WG975213
cis-1,3-Dichloropropene	U		0.000418	0.00100	1	04/30/2017 01:18	WG975213
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	04/30/2017 01:18	WG975213
Ethylbenzene	U		0.000384	0.00100	1	04/30/2017 01:18	WG975213
Isopropylbenzene	U		0.000326	0.00100	1	04/30/2017 01:18	WG975213
p-Isopropyltoluene	U		0.000350	0.00100	1	04/30/2017 01:18	WG975213
2-Butanone (MEK)	U		0.00393	0.0100	1	04/30/2017 01:18	WG975213
2-Hexanone	U		0.00382	0.0100	1	04/30/2017 01:18	WG975213
Methylene Chloride	U		0.00100	0.00500	1	04/30/2017 01:18	WG975213
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	04/30/2017 01:18	WG975213
Methyl tert-butyl ether	U		0.000367	0.00100	1	04/30/2017 01:18	WG975213
Naphthalene	U		0.00100	0.00500	1	04/30/2017 01:18	WG975213
n-Propylbenzene	U		0.000349	0.00100	1	04/30/2017 01:18	WG975213
Styrene	U		0.000307	0.00100	1	04/30/2017 01:18	WG975213
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	04/30/2017 01:18	WG975213
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	04/30/2017 01:18	WG975213
Tetrachloroethene	U		0.000372	0.00100	1	04/30/2017 01:18	WG975213
Toluene	U		0.000412	0.00100	1	04/30/2017 01:18	WG975213
1,1,1-Trichloroethane	U		0.000319	0.00100	1	04/30/2017 01:18	WG975213
1,1,2-Trichloroethane	U		0.000383	0.00100	1	04/30/2017 01:18	WG975213
Trichloroethene	U		0.000398	0.00100	1	04/30/2017 01:18	WG975213
1,2,4-Trimethylbenzene	U		0.000373	0.00100	1	04/30/2017 01:18	WG975213
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	04/30/2017 01:18	WG975213
Vinyl chloride	U		0.000259	0.00100	1	04/30/2017 01:18	WG975213
o-Xylene	U		0.000341	0.00100	1	04/30/2017 01:18	WG975213
m&p-Xylene	U		0.000719	0.00200	1	04/30/2017 01:18	WG975213
Xylenes, Total	U		0.00106	0.00300	1	04/30/2017 01:18	WG975213
(S) Toluene-d8	*104*			*80.0-120*		*04/30/2017 01:18*	WG975213
(S) Dibromofluoromethane	*105*			*76.0-123*		*04/30/2017 01:18*	WG975213
(S) 4-Bromofluorobenzene	*98.9*			*80.0-120*		*04/30/2017 01:18*	WG975213

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	0.0515	J	0.0247	0.100	1	04/29/2017 03:34	WG974616
(S) o-Terphenyl	*85.1*			*31.0-160*		*04/29/2017 03:34*	WG974616

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Dissolved Solids	2290		2.82	10.0	1	04/30/2017 13:12	WG974889

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	15.6		0.0985	0.500	5	05/01/2017 16:24	WG974945

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	222		2.60	50.0	50	04/28/2017 17:54	WG974575
Fluoride	0.904		0.00990	0.100	1	04/28/2017 17:07	WG974575
Sulfate	1330		3.87	250	50	04/28/2017 17:54	WG974575

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.00166	J	0.000250	0.00200	1	05/01/2017 17:41	WG974745
Arsenic,Dissolved	0.00162	J	0.000250	0.00200	1	04/29/2017 14:29	WG974692
Barium	0.0201		0.000360	0.00500	1	05/01/2017 17:41	WG974745
Barium,Dissolved	0.0210		0.000360	0.00500	1	04/29/2017 14:29	WG974692
Calcium	340		0.0460	1.00	1	05/01/2017 17:41	WG974745
Chromium	U		0.000540	0.00200	1	05/01/2017 17:41	WG974745
Chromium,Dissolved	U		0.000540	0.00200	1	04/29/2017 14:29	WG974692
Iron	U		0.0150	0.100	1	05/01/2017 17:41	WG974745
Iron,Dissolved	U		0.0150	0.100	1	04/29/2017 14:29	WG974692
Lead	U		0.000240	0.00200	1	05/01/2017 17:41	WG974745
Lead,Dissolved	U		0.000240	0.00200	1	04/29/2017 17:39	WG974692
Manganese	1.60		0.000250	0.00500	1	05/01/2017 17:41	WG974745
Manganese,Dissolved	1.50		0.000250	0.00500	1	04/29/2017 14:29	WG974692
Potassium	1.12		0.0370	1.00	1	05/01/2017 17:41	WG974745
Selenium	0.00281		0.000380	0.00200	1	05/01/2017 17:41	WG974745
Selenium,Dissolved	0.00293		0.000380	0.00200	1	04/29/2017 14:29	WG974692
Sodium	130		0.110	1.00	1	05/01/2017 17:41	WG974745

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	J4	0.0100	0.0500	1	04/30/2017 01:33	WG975213
Benzene	U		0.000331	0.00100	1	04/30/2017 01:33	WG975213
Bromodichloromethane	U		0.000380	0.00100	1	04/30/2017 01:33	WG975213
Bromoform	U		0.000469	0.00100	1	04/30/2017 01:33	WG975213
Bromomethane	U		0.000866	0.00500	1	04/30/2017 01:33	WG975213
n-Butylbenzene	U		0.000361	0.00100	1	04/30/2017 01:33	WG975213
sec-Butylbenzene	U		0.000365	0.00100	1	04/30/2017 01:33	WG975213
Carbon disulfide	U		0.000275	0.00100	1	04/30/2017 01:33	WG975213
Carbon tetrachloride	U		0.000379	0.00100	1	04/30/2017 01:33	WG975213
Chlorobenzene	U		0.000348	0.00100	1	04/30/2017 01:33	WG975213
Chlorodibromomethane	U		0.000327	0.00100	1	04/30/2017 01:33	WG975213
Chloroethane	U		0.000453	0.00500	1	04/30/2017 01:33	WG975213
Chloroform	U		0.000324	0.00500	1	04/30/2017 01:33	WG975213
Chloromethane	U		0.000276	0.00250	1	04/30/2017 01:33	WG975213
1,2-Dibromoethane	U		0.000381	0.00100	1	04/30/2017 01:33	WG975213
1,1-Dichloroethane	U		0.000259	0.00100	1	04/30/2017 01:33	WG975213

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
1,2-Dichloroethane	U		0.000361	0.00100	1	04/30/2017 01:33	WG975213
1,1-Dichloroethene	U		0.000398	0.00100	1	04/30/2017 01:33	WG975213
cis-1,2-Dichloroethene	0.000391	J	0.000260	0.00100	1	04/30/2017 01:33	WG975213
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	04/30/2017 01:33	WG975213
1,2-Dichloropropane	U		0.000306	0.00100	1	04/30/2017 01:33	WG975213
cis-1,3-Dichloropropene	U		0.000418	0.00100	1	04/30/2017 01:33	WG975213
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	04/30/2017 01:33	WG975213
Ethylbenzene	U		0.000384	0.00100	1	04/30/2017 01:33	WG975213
Isopropylbenzene	U		0.000326	0.00100	1	04/30/2017 01:33	WG975213
p-Isopropyltoluene	U		0.000350	0.00100	1	04/30/2017 01:33	WG975213
2-Butanone (MEK)	U		0.00393	0.0100	1	04/30/2017 01:33	WG975213
2-Hexanone	U		0.00382	0.0100	1	04/30/2017 01:33	WG975213
Methylene Chloride	U		0.00100	0.00500	1	04/30/2017 01:33	WG975213
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	04/30/2017 01:33	WG975213
Methyl tert-butyl ether	U		0.000367	0.00100	1	04/30/2017 01:33	WG975213
Naphthalene	U		0.00100	0.00500	1	04/30/2017 01:33	WG975213
n-Propylbenzene	U		0.000349	0.00100	1	04/30/2017 01:33	WG975213
Styrene	U		0.000307	0.00100	1	04/30/2017 01:33	WG975213
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	04/30/2017 01:33	WG975213
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	04/30/2017 01:33	WG975213
Tetrachloroethene	U		0.000372	0.00100	1	04/30/2017 01:33	WG975213
Toluene	U		0.000412	0.00100	1	04/30/2017 01:33	WG975213
1,1,1-Trichloroethane	U		0.000319	0.00100	1	04/30/2017 01:33	WG975213
1,1,2-Trichloroethane	U		0.000383	0.00100	1	04/30/2017 01:33	WG975213
Trichloroethene	U		0.000398	0.00100	1	04/30/2017 01:33	WG975213
1,2,4-Trimethylbenzene	U		0.000373	0.00100	1	04/30/2017 01:33	WG975213
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	04/30/2017 01:33	WG975213
Vinyl chloride	U		0.000259	0.00100	1	04/30/2017 01:33	WG975213
o-Xylene	U		0.000341	0.00100	1	04/30/2017 01:33	WG975213
m&p-Xylene	U		0.000719	0.00200	1	04/30/2017 01:33	WG975213
Xylenes, Total	U		0.00106	0.00300	1	04/30/2017 01:33	WG975213
(S) Toluene-d8	*103*			*80.0-120*		*04/30/2017 01:33*	WG975213
(S) Dibromofluoromethane	*107*			*76.0-123*		*04/30/2017 01:33*	WG975213
(S) 4-Bromofluorobenzene	*98.1*			*80.0-120*		*04/30/2017 01:33*	WG975213

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	0.258		0.0247	0.100	1	04/29/2017 03:00	WG974616
(S) o-Terphenyl	*94.5*			*31.0-160*		*04/29/2017 03:00*	WG974616

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Dissolved Solids	2990		2.82	10.0	1	04/30/2017 13:12	WG974889

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	9.78		0.0985	0.500	5	05/01/2017 16:25	WG974945

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	159		2.60	50.0	50	04/28/2017 18:05	WG974575
Fluoride	0.575		0.00990	0.100	1	04/28/2017 17:19	WG974575
Sulfate	1970		3.87	250	50	04/28/2017 18:05	WG974575

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.00149	J	0.000250	0.00200	1	05/01/2017 17:45	WG974745
Arsenic,Dissolved	0.00145	J	0.000250	0.00200	1	04/29/2017 14:33	WG974692
Barium	0.0115		0.000360	0.00500	1	05/01/2017 17:45	WG974745
Barium,Dissolved	0.0133		0.000360	0.00500	1	04/29/2017 14:33	WG974692
Calcium	452		0.0460	1.00	1	05/01/2017 17:45	WG974745
Chromium	U		0.000540	0.00200	1	05/01/2017 17:45	WG974745
Chromium,Dissolved	U		0.000540	0.00200	1	04/29/2017 14:33	WG974692
Iron	U		0.0150	0.100	1	05/01/2017 17:45	WG974745
Iron,Dissolved	U		0.0150	0.100	1	04/29/2017 14:33	WG974692
Lead	U		0.000240	0.00200	1	05/01/2017 17:45	WG974745
Lead,Dissolved	U		0.000240	0.00200	1	04/29/2017 17:43	WG974692
Manganese	0.000263	J	0.000250	0.00500	1	05/01/2017 17:45	WG974745
Manganese,Dissolved	U		0.000250	0.00500	1	04/29/2017 14:33	WG974692
Potassium	0.633	J	0.0370	1.00	1	05/01/2017 17:45	WG974745
Selenium	0.00924		0.000380	0.00200	1	05/01/2017 17:45	WG974745
Selenium,Dissolved	0.00921		0.000380	0.00200	1	04/29/2017 14:33	WG974692
Sodium	133		0.110	1.00	1	05/01/2017 17:45	WG974745

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	J4	0.0100	0.0500	1	04/30/2017 01:49	WG975213
Benzene	U		0.000331	0.00100	1	04/30/2017 01:49	WG975213
Bromodichloromethane	U		0.000380	0.00100	1	04/30/2017 01:49	WG975213
Bromoform	U		0.000469	0.00100	1	04/30/2017 01:49	WG975213
Bromomethane	U		0.000866	0.00500	1	04/30/2017 01:49	WG975213
n-Butylbenzene	U		0.000361	0.00100	1	04/30/2017 01:49	WG975213
sec-Butylbenzene	U		0.000365	0.00100	1	04/30/2017 01:49	WG975213
Carbon disulfide	U		0.000275	0.00100	1	04/30/2017 01:49	WG975213
Carbon tetrachloride	U		0.000379	0.00100	1	04/30/2017 01:49	WG975213
Chlorobenzene	U		0.000348	0.00100	1	04/30/2017 01:49	WG975213
Chlorodibromomethane	U		0.000327	0.00100	1	04/30/2017 01:49	WG975213
Chloroethane	U		0.000453	0.00500	1	04/30/2017 01:49	WG975213
Chloroform	U		0.000324	0.00500	1	04/30/2017 01:49	WG975213
Chloromethane	U		0.000276	0.00250	1	04/30/2017 01:49	WG975213
1,2-Dibromoethane	U		0.000381	0.00100	1	04/30/2017 01:49	WG975213
1,1-Dichloroethane	U		0.000259	0.00100	1	04/30/2017 01:49	WG975213

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
1,2-Dichloroethane	U		0.000361	0.00100	1	04/30/2017 01:49	WG975213
1,1-Dichloroethene	U		0.000398	0.00100	1	04/30/2017 01:49	WG975213
cis-1,2-Dichloroethene	0.000303	J	0.000260	0.00100	1	04/30/2017 01:49	WG975213
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	04/30/2017 01:49	WG975213
1,2-Dichloropropane	U		0.000306	0.00100	1	04/30/2017 01:49	WG975213
cis-1,3-Dichloropropene	U		0.000418	0.00100	1	04/30/2017 01:49	WG975213
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	04/30/2017 01:49	WG975213
Ethylbenzene	U		0.000384	0.00100	1	04/30/2017 01:49	WG975213
Isopropylbenzene	U		0.000326	0.00100	1	04/30/2017 01:49	WG975213
p-Isopropyltoluene	U		0.000350	0.00100	1	04/30/2017 01:49	WG975213
2-Butanone (MEK)	U		0.00393	0.0100	1	04/30/2017 01:49	WG975213
2-Hexanone	U		0.00382	0.0100	1	04/30/2017 01:49	WG975213
Methylene Chloride	U		0.00100	0.00500	1	04/30/2017 01:49	WG975213
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	04/30/2017 01:49	WG975213
Methyl tert-butyl ether	U		0.000367	0.00100	1	04/30/2017 01:49	WG975213
Naphthalene	U		0.00100	0.00500	1	04/30/2017 01:49	WG975213
n-Propylbenzene	U		0.000349	0.00100	1	04/30/2017 01:49	WG975213
Styrene	U		0.000307	0.00100	1	04/30/2017 01:49	WG975213
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	04/30/2017 01:49	WG975213
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	04/30/2017 01:49	WG975213
Tetrachloroethene	U		0.000372	0.00100	1	04/30/2017 01:49	WG975213
Toluene	U		0.000412	0.00100	1	04/30/2017 01:49	WG975213
1,1,1-Trichloroethane	U		0.000319	0.00100	1	04/30/2017 01:49	WG975213
1,1,2-Trichloroethane	U		0.000383	0.00100	1	04/30/2017 01:49	WG975213
Trichloroethene	U		0.000398	0.00100	1	04/30/2017 01:49	WG975213
1,2,4-Trimethylbenzene	U		0.000373	0.00100	1	04/30/2017 01:49	WG975213
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	04/30/2017 01:49	WG975213
Vinyl chloride	U		0.000259	0.00100	1	04/30/2017 01:49	WG975213
o-Xylene	U		0.000341	0.00100	1	04/30/2017 01:49	WG975213
m&p-Xylene	U		0.000719	0.00200	1	04/30/2017 01:49	WG975213
Xylenes, Total	U		0.00106	0.00300	1	04/30/2017 01:49	WG975213
(S) Toluene-d8	*105*			*80.0-120*		*04/30/2017 01:49*	WG975213
(S) Dibromofluoromethane	*104*			*76.0-123*		*04/30/2017 01:49*	WG975213
(S) 4-Bromofluorobenzene	*97.4*			*80.0-120*		*04/30/2017 01:49*	WG975213

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	0.0582	J	0.0247	0.100	1	04/29/2017 03:17	WG974616
(S) o-Terphenyl	*88.2*			*31.0-160*		*04/29/2017 03:17*	WG974616

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	J4	0.0100	0.0500	1	04/29/2017 22:42	WG975213
Benzene	U		0.000331	0.00100	1	04/29/2017 22:42	WG975213
Bromodichloromethane	U		0.000380	0.00100	1	04/29/2017 22:42	WG975213
Bromoform	U		0.000469	0.00100	1	04/29/2017 22:42	WG975213
Bromomethane	U		0.000866	0.00500	1	04/29/2017 22:42	WG975213
n-Butylbenzene	U		0.000361	0.00100	1	04/29/2017 22:42	WG975213
sec-Butylbenzene	U		0.000365	0.00100	1	04/29/2017 22:42	WG975213
Carbon disulfide	U		0.000275	0.00100	1	04/29/2017 22:42	WG975213
Carbon tetrachloride	U		0.000379	0.00100	1	04/29/2017 22:42	WG975213
Chlorobenzene	U		0.000348	0.00100	1	04/29/2017 22:42	WG975213
Chlorodibromomethane	U		0.000327	0.00100	1	04/29/2017 22:42	WG975213
Chloroethane	U		0.000453	0.00500	1	04/29/2017 22:42	WG975213
Chloroform	U		0.000324	0.00500	1	04/29/2017 22:42	WG975213
Chloromethane	U		0.000276	0.00250	1	04/29/2017 22:42	WG975213
1,2-Dibromoethane	U		0.000381	0.00100	1	04/29/2017 22:42	WG975213
1,1-Dichloroethane	U		0.000259	0.00100	1	04/29/2017 22:42	WG975213
1,2-Dichloroethane	U		0.000361	0.00100	1	04/29/2017 22:42	WG975213
1,1-Dichloroethene	U		0.000398	0.00100	1	04/29/2017 22:42	WG975213
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	04/29/2017 22:42	WG975213
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	04/29/2017 22:42	WG975213
1,2-Dichloropropane	U		0.000306	0.00100	1	04/29/2017 22:42	WG975213
cis-1,3-Dichloropropene	U		0.000418	0.00100	1	04/29/2017 22:42	WG975213
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	04/29/2017 22:42	WG975213
Ethylbenzene	U		0.000384	0.00100	1	04/29/2017 22:42	WG975213
Isopropylbenzene	U		0.000326	0.00100	1	04/29/2017 22:42	WG975213
p-Isopropyltoluene	U		0.000350	0.00100	1	04/29/2017 22:42	WG975213
2-Butanone (MEK)	U		0.00393	0.0100	1	04/29/2017 22:42	WG975213
2-Hexanone	U		0.00382	0.0100	1	04/29/2017 22:42	WG975213
Methylene Chloride	U		0.00100	0.00500	1	04/29/2017 22:42	WG975213
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	04/29/2017 22:42	WG975213
Methyl tert-butyl ether	U		0.000367	0.00100	1	04/29/2017 22:42	WG975213
Naphthalene	U		0.00100	0.00500	1	04/29/2017 22:42	WG975213
n-Propylbenzene	U		0.000349	0.00100	1	04/29/2017 22:42	WG975213
Styrene	U		0.000307	0.00100	1	04/29/2017 22:42	WG975213
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	04/29/2017 22:42	WG975213
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	04/29/2017 22:42	WG975213
Tetrachloroethene	U		0.000372	0.00100	1	04/29/2017 22:42	WG975213
Toluene	U		0.000412	0.00100	1	04/29/2017 22:42	WG975213
1,1,1-Trichloroethane	U		0.000319	0.00100	1	04/29/2017 22:42	WG975213
1,1,2-Trichloroethane	U		0.000383	0.00100	1	04/29/2017 22:42	WG975213
Trichloroethene	U		0.000398	0.00100	1	04/29/2017 22:42	WG975213
1,2,4-Trimethylbenzene	U		0.000373	0.00100	1	04/29/2017 22:42	WG975213
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	04/29/2017 22:42	WG975213
Vinyl chloride	U		0.000259	0.00100	1	04/29/2017 22:42	WG975213
o-Xylene	U		0.000341	0.00100	1	04/29/2017 22:42	WG975213
m&p-Xylene	U		0.000719	0.00200	1	04/29/2017 22:42	WG975213
Xylenes, Total	U		0.00106	0.00300	1	04/29/2017 22:42	WG975213
(S) Toluene-d8	*104*			*80.0-120*		*04/29/2017 22:42*	WG975213
(S) Dibromofluoromethane	*102*			*76.0-123*		*04/29/2017 22:42*	WG975213
(S) 4-Bromofluorobenzene	*97.7*			*80.0-120*		*04/29/2017 22:42*	WG975213

Method Blank (MB)

(MB) R3215048-1 04/30/17 12:15

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	mg/l		mg/l	mg/l
Dissolved Solids	U		2.82	10.0

L905302-02 Original Sample (OS) • Duplicate (DUP)

(OS) L905302-02 04/30/17 12:15 • (DUP) R3215048-4 04/30/17 12:15

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	mg/l	mg/l		%		%
Dissolved Solids	1800	1860	1	3.56		5

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

(LCS) R3215048-2 04/30/17 12:15 • (LCSD) R3215048-3 04/30/17 12:15

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	mg/l	mg/l	mg/l	%	%	%			%	%
Dissolved Solids	8800	8620	8600	98.0	97.7	85.0-115			0.232	5

Method Blank (MB)

(MB) R3215055-1 04/30/17 13:12

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Dissolved Solids	U		2.82	10.0

L905302-03 Original Sample (OS) • Duplicate (DUP)

(OS) L905302-03 04/30/17 13:12 • (DUP) R3215055-4 04/30/17 13:12

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Dissolved Solids	1840	1880	1	2.28		5

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

(LCS) R3215055-2 04/30/17 13:12 • (LCSD) R3215055-3 04/30/17 13:12

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 %
Dissolved Solids	8800	8650	8600	98.3	97.7	85.0-115			0.580	5

Method Blank (MB)

(MB) R3214792-1 05/01/17 15:54

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	mg/l		mg/l	mg/l
Nitrate-Nitrite	U		0.0197	0.100

L905300-15 Original Sample (OS) • Duplicate (DUP)

(OS) L905300-15 05/01/17 15:57 • (DUP) R3214792-4 05/01/17 15:58

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	mg/l	mg/l		%		%
Nitrate-Nitrite	U	0.000	1	0		20

L905300-23 Original Sample (OS) • Duplicate (DUP)

(OS) L905300-23 05/01/17 16:11 • (DUP) R3214792-6 05/01/17 16:13

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	mg/l	mg/l		%		%
Nitrate-Nitrite	0.0200	0.000	1	200	P1	20

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

(LCS) R3214792-2 05/01/17 15:55 • (LCSD) R3214792-3 05/01/17 15:56

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	mg/l	mg/l	mg/l	%	%	%			%	%
Nitrate-Nitrite	5.00	5.29	5.16	106	103	90-110			3	20

L905300-17 Original Sample (OS) • Matrix Spike (MS)

(OS) L905300-17 05/01/17 16:00 • (MS) R3214792-5 05/01/17 16:01

Analyte	Spike Amount	Original Result	MS Result	MS Rec.	Dilution	Rec. Limits	MS Qualifier
	mg/l	mg/l	mg/l	%		%	
Nitrate-Nitrite	5.00	U	4.76	95	1	90-110	

L905302-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L905302-01 05/01/17 16:14 • (MS) R3214792-7 05/01/17 16:19 • (MSD) R3214792-8 05/01/17 16:20

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
	mg/l	mg/l	mg/l	mg/l	%	%		%			%	%
Nitrate-Nitrite	5.00	0.0270	4.88	5.00	97	99	1	90-110			2	20

Method Blank (MB)

(MB) R3214896-1 05/02/17 09:16

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	mg/l		mg/l	mg/l
Cyanide	U		0.0018	0.00500

L905300-13 Original Sample (OS) • Duplicate (DUP)

(OS) L905300-13 05/02/17 09:21 • (DUP) R3214896-4 05/02/17 09:22

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	mg/l	mg/l		%		%
Cyanide	U	0.000	1	0		20

L905437-01 Original Sample (OS) • Duplicate (DUP)

(OS) L905437-01 05/02/17 09:48 • (DUP) R3214896-7 05/02/17 09:51

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	mg/l	mg/l		%		%
Cyanide	ND	0.000	1	0		20

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

(LCS) R3214896-2 05/02/17 09:17 • (LCSD) R3214896-3 05/02/17 09:18

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	mg/l	mg/l	mg/l	%	%	%			%	%
Cyanide	0.100	0.0936	0.101	94	101	85-115			8	20

L905307-18 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L905307-18 05/02/17 09:36 • (MS) R3214896-5 05/02/17 09:37 • (MSD) R3214896-6 05/02/17 09:40

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
	mg/l	mg/l	mg/l	mg/l	%	%		%			%	%
Cyanide	0.100	U	0.195	0.177	195	177	1	75-125	J5	J5	10	20

Method Blank (MB)

(MB) R3214490-2 04/28/17 06:41

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	mg/l		mg/l	mg/l
Chloride	U		0.0519	1.00
Fluoride	U		0.0099	0.100
Sulfate	U		0.0774	5.00

L905300-21 Original Sample (OS) • Duplicate (DUP)

(OS) L905300-21 04/28/17 11:18 • (DUP) R3214490-5 04/28/17 11:29

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	mg/l	mg/l		%		%
Chloride	0.282	0.415	1	38	J P1	15
Fluoride	U	0.000	1	0		15
Sulfate	0.463	0.167	1	94	J P1	15

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

(LCS) R3214490-3 04/28/17 06:53 • (LCSD) R3214490-4 04/28/17 07:05

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	mg/l	mg/l	mg/l	%	%	%			%	%
Chloride	40.0	39.6	39.6	99	99	80-120			0	15
Fluoride	8.00	8.18	8.13	102	102	80-120			1	15
Sulfate	40.0	38.9	38.7	97	97	80-120			1	15

L905300-22 Original Sample (OS) • Matrix Spike (MS)

(OS) L905300-22 04/28/17 14:24 • (MS) R3214490-6 04/28/17 14:59

Analyte	Spike Amount	Original Result	MS Result	MS Rec.	Dilution	Rec. Limits	MS Qualifier
	mg/l	mg/l	mg/l	%		%	
Chloride	50.0	0.170	50.8	101	1	80-120	
Fluoride	5.00	U	5.17	103	1	80-120	
Sulfate	50.0	0.518	50.5	100	1	80-120	

L905307-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L905307-01 04/28/17 17:30 • (MS) R3214490-7 04/28/17 18:29 • (MSD) R3214490-8 04/28/17 18:40

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
	mg/l	mg/l	mg/l	mg/l	%	%		%			%	%
Fluoride	5.00	0.623	5.58	4.90	99	85	1	80-120			13	15

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Method Blank (MB)

(MB) R3214382-1 04/28/17 15:00

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	mg/l		mg/l	mg/l
Mercury	U		0.000049	0.000200

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

(LCS) R3214382-2 04/28/17 15:02 • (LCSD) R3214382-3 04/28/17 15:05

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	mg/l	mg/l	mg/l	%	%	%			%	%
Mercury	0.00300	0.00286	0.00287	95	96	80-120			1	20

L905146-05 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L905146-05 04/28/17 15:12 • (MS) R3214382-4 04/28/17 15:14 • (MSD) R3214382-5 04/28/17 15:16

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
	mg/l	mg/l	mg/l	mg/l	%	%		%			%	%
Mercury	0.00300	U	0.00288	0.00306	96	102	1	75-125			6	20

Method Blank (MB)

(MB) R3214376-1 04/28/17 13:04

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Mercury,Dissolved	U		0.000049	0.000200

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

(LCS) R3214376-2 04/28/17 13:06 • (LCSD) R3214376-3 04/28/17 13:08

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 %
Mercury,Dissolved	0.00300	0.00300	0.00291	100	97	80-120			3	20

L904651-05 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L904651-05 04/28/17 13:11 • (MS) R3214376-4 04/28/17 13:13 • (MSD) R3214376-5 04/28/17 13:20

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 %
Mercury,Dissolved	0.00300	U	0.00295	0.00290	98	97	1	75-125			2	20

Method Blank (MB)

(MB) R3214511-1 04/29/17 11:48

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Arsenic,Dissolved	U		0.00025	0.00200
Barium,Dissolved	U		0.00036	0.00500
Cadmium,Dissolved	U		0.00016	0.00100
Chromium,Dissolved	U		0.00054	0.00200
Cobalt,Dissolved	U		0.00026	0.00200
Iron,Dissolved	U		0.015	0.100
Manganese,Dissolved	U		0.00025	0.00500
Nickel,Dissolved	0.000641	J	0.00035	0.00200
Selenium,Dissolved	U		0.00038	0.00200
Vanadium,Dissolved	U		0.00018	0.00500

Method Blank (MB)

(MB) R3214547-1 04/29/17 15:57

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Lead,Dissolved	U		0.00024	0.00200
Uranium,Dissolved	U		0.00033	0.0100

Method Blank (MB)

(MB) R3214555-3 04/30/17 19:25

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Boron,Dissolved	U		0.0015	0.0200

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

(LCS) R3214511-2 04/29/17 11:52 • (LCSD) R3214511-3 04/29/17 11:55

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 %
Arsenic,Dissolved	0.0500	0.0470	0.0466	94	93	80-120			1	20
Barium,Dissolved	0.0500	0.0484	0.0466	97	93	80-120			4	20
Cadmium,Dissolved	0.0500	0.0523	0.0523	105	105	80-120			0	20
Chromium,Dissolved	0.0500	0.0476	0.0462	95	92	80-120			3	20
Cobalt,Dissolved	0.0500	0.0503	0.0510	101	102	80-120			1	20
Iron,Dissolved	5.00	4.73	4.74	95	95	80-120			0	20
Manganese,Dissolved	0.0500	0.0461	0.0456	92	91	80-120			1	20
Nickel,Dissolved	0.0500	0.0506	0.0504	101	101	80-120			0	20

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

(LCS) R3214511-2 04/29/17 11:52 • (LCSD) R3214511-3 04/29/17 11:55

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	mg/l	mg/l	mg/l	%	%	%			%	%
Selenium,Dissolved	0.0500	0.0469	0.0467	94	93	80-120			0	20
Vanadium,Dissolved	0.0500	0.0462	0.0466	92	93	80-120			1	20

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

(LCS) R3214547-2 04/29/17 16:00 • (LCSD) R3214547-3 04/29/17 16:04

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	mg/l	mg/l	mg/l	%	%	%			%	%
Lead,Dissolved	0.0500	0.0490	0.0486	98	97	80-120			1	20
Uranium,Dissolved	0.0500	0.0482	0.0479	96	96	80-120			1	20

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

(LCS) R3214555-7 04/30/17 20:06 • (LCSD) R3214555-8 04/30/17 20:10

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	mg/l	mg/l	mg/l	%	%	%			%	%
Boron,Dissolved	0.0500	0.0466	0.0455	93	91	80-120			2	20

L904651-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L904651-01 04/29/17 11:59 • (MS) R3214511-5 04/29/17 12:06 • (MSD) R3214511-6 04/29/17 12:09

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
	mg/l	mg/l	mg/l	mg/l	%	%		%			%	%
Arsenic,Dissolved	0.0500	0.000856	0.0486	0.0466	95	92	1	75-125			4	20
Barium,Dissolved	0.0500	0.00374	0.0501	0.0504	93	93	1	75-125			0	20
Cadmium,Dissolved	0.0500	U	0.0530	0.0515	106	103	1	75-125			3	20
Chromium,Dissolved	0.0500	U	0.0470	0.0441	94	88	1	75-125			6	20
Cobalt,Dissolved	0.0500	0.000646	0.0501	0.0484	99	96	1	75-125			3	20
Iron,Dissolved	5.00	2.58	7.19	7.01	92	89	1	75-125			2	20
Manganese,Dissolved	0.0500	0.695	0.742	0.731	95	72	1	75-125		V	2	20
Nickel,Dissolved	0.0500	0.00262	0.0517	0.0501	98	95	1	75-125			3	20
Selenium,Dissolved	0.0500	U	0.0479	0.0470	96	94	1	75-125			2	20
Vanadium,Dissolved	0.0500	0.00217	0.0493	0.0466	94	89	1	75-125			6	20

L904651-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L904651-01 04/29/17 16:08 • (MS) R3214547-5 04/29/17 16:15 • (MSD) R3214547-6 04/29/17 16:18

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 %
Lead,Dissolved	0.0500	U	0.0493	0.0482	99	96	1	75-125			2	20
Uranium,Dissolved	0.0500	0.000460	0.0499	0.0488	99	97	1	75-125			2	20

Method Blank (MB)

(MB) R3214797-1 05/01/17 16:15

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Arsenic	U		0.00025	0.00200
Barium	U		0.00036	0.00500
Boron	U		0.0015	0.0200
Cadmium	U		0.00016	0.00100
Calcium	U		0.046	1.00
Chromium	U		0.00054	0.00200
Cobalt	U		0.00026	0.00200
Iron	U		0.015	0.100
Lead	U		0.00024	0.00200
Manganese	U		0.00025	0.00500
Nickel	U		0.00035	0.00200
Potassium	U		0.037	1.00
Selenium	U		0.00038	0.00200
Sodium	U		0.11	1.00
Vanadium	U		0.00018	0.00500

Method Blank (MB)

(MB) R3214813-1 05/01/17 20:57

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Uranium	U		0.00033	0.0100

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

(LCS) R3214797-2 05/01/17 16:18 • (LCSD) R3214797-3 05/01/17 16:22

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 %
Arsenic	0.0500	0.0484	0.0489	97	98	80-120			1	20
Barium	0.0500	0.0428	0.0438	86	88	80-120			2	20
Boron	0.0500	0.0423	0.0421	85	84	80-120			0	20
Cadmium	0.0500	0.0529	0.0542	106	108	80-120			3	20
Calcium	5.00	4.64	4.74	93	95	80-120			2	20
Chromium	0.0500	0.0517	0.0519	103	104	80-120			0	20
Cobalt	0.0500	0.0536	0.0542	107	108	80-120			1	20
Iron	5.00	5.13	5.08	103	102	80-120			1	20
Lead	0.0500	0.0488	0.0488	98	98	80-120			0	20
Manganese	0.0500	0.0479	0.0478	96	96	80-120			0	20
Nickel	0.0500	0.0534	0.0542	107	108	80-120			1	20

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

(LCS) R3214797-2 05/01/17 16:18 • (LCSD) R3214797-3 05/01/17 16:22

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 %
Potassium	5.00	4.71	4.69	94	94	80-120			0	20
Selenium	0.0500	0.0471	0.0471	94	94	80-120			0	20
Sodium	5.00	5.17	5.19	103	104	80-120			0	20
Vanadium	0.0500	0.0499	0.0504	100	101	80-120			1	20

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

(LCS) R3214813-2 05/01/17 21:00 • (LCSD) R3214813-3 05/01/17 21:04

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Uranium	0.0500	0.0476	0.0484	95	97	80-120			2	20

L904598-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L904598-01 05/01/17 16:26 • (MS) R3214797-5 05/01/17 16:33 • (MSD) R3214797-6 05/01/17 16:37

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Arsenic	0.0500	ND	0.0484	0.0479	97	96	1	75-125			1	20
Barium	0.0500	0.0101	0.0525	0.0518	85	83	1	75-125			1	20
Boron	0.0500	0.0256	0.0684	0.0678	86	84	1	75-125			1	20
Cadmium	0.0500	ND	0.0519	0.0538	104	108	1	75-125			4	20
Calcium	5.00	2.49	7.09	7.02	92	91	1	75-125			1	20
Chromium	0.0500	0.0183	0.0693	0.0688	102	101	1	75-125			1	20
Cobalt	0.0500	ND	0.0537	0.0538	107	108	1	75-125			0	20
Potassium	5.00	ND	5.12	5.07	92	91	1	75-125			1	20
Iron	5.00	ND	5.13	5.10	103	102	1	75-125			1	20
Lead	0.0500	ND	0.0501	0.0503	96	97	1	75-125			0	20
Manganese	0.0500	ND	0.0481	0.0496	95	98	1	75-125			3	20
Nickel	0.0500	ND	0.0538	0.0540	107	107	1	75-125			0	20
Selenium	0.0500	ND	0.0476	0.0457	95	91	1	75-125			4	20
Sodium	5.00	6.69	11.7	11.6	100	98	1	75-125			1	20
Vanadium	0.0500	ND	0.0506	0.0501	101	100	1	75-125			1	20

Method Blank (MB)

(MB) R3215621-3 04/28/17 14:18

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	mg/l		mg/l	mg/l
TPH (GC/FID) Low Fraction	U		0.0314	0.100
(S) a,a,a-Trifluorotoluene(FID)	*102*			*77.0-122*

Method Blank (MB)

(MB) R3215632-3 04/28/17 17:49

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	mg/l		mg/l	mg/l
TPH (GC/FID) Low Fraction	U		0.0314	0.100
(S) a,a,a-Trifluorotoluene(FID)	*99.0*			*77.0-122*

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

(LCS) R3215621-1 04/28/17 13:16 • (LCSD) R3215621-2 04/28/17 13:36

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	mg/l	mg/l	mg/l	%	%	%			%	%
TPH (GC/FID) Low Fraction	5.50	5.34	5.24	97.1	95.2	71.0-136			1.92	20
(S) a,a,a-Trifluorotoluene(FID)				*105*	*105*	*77.0-122*				

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

(LCS) R3215632-1 04/28/17 16:38 • (LCSD) R3215632-2 04/28/17 17:02

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	mg/l	mg/l	mg/l	%	%	%			%	%
TPH (GC/FID) Low Fraction	5.50	5.13	5.06	93.3	91.9	71.0-136			1.45	20
(S) a,a,a-Trifluorotoluene(FID)				*99.7*	*100*	*77.0-122*				

L905300-20 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L905300-20 04/28/17 14:39 • (MS) R3215621-4 04/28/17 15:00 • (MSD) R3215621-5 04/28/17 15:21

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
	mg/l	mg/l	mg/l	mg/l	%	%		%			%	%
TPH (GC/FID) Low Fraction	5.50	0.402	5.77	5.81	97.6	98.3	1	18.0-160			0.700	20
(S) a,a,a-Trifluorotoluene(FID)					*105*	*104*		*77.0-122*				

Method Blank (MB)

(MB) R3214910-4 04/29/17 21:41

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Acetone	U		0.0100	0.0500
Benzene	U		0.000331	0.00100
Bromodichloromethane	U		0.000380	0.00100
Bromoform	U		0.000469	0.00100
Bromomethane	U		0.000866	0.00500
n-Butylbenzene	U		0.000361	0.00100
sec-Butylbenzene	U		0.000365	0.00100
Carbon disulfide	U		0.000275	0.00100
Carbon tetrachloride	U		0.000379	0.00100
Chlorobenzene	U		0.000348	0.00100
Chlorodibromomethane	U		0.000327	0.00100
Chloroethane	U		0.000453	0.00500
Chloroform	U		0.000324	0.00500
Chloromethane	U		0.000276	0.00250
1,2-Dibromoethane	U		0.000381	0.00100
1,1-Dichloroethane	U		0.000259	0.00100
1,2-Dichloroethane	U		0.000361	0.00100
1,1-Dichloroethene	U		0.000398	0.00100
cis-1,2-Dichloroethene	U		0.000260	0.00100
trans-1,2-Dichloroethene	U		0.000396	0.00100
1,2-Dichloropropane	U		0.000306	0.00100
cis-1,3-Dichloropropene	U		0.000418	0.00100
trans-1,3-Dichloropropene	U		0.000419	0.00100
Ethylbenzene	U		0.000384	0.00100
2-Hexanone	U		0.00382	0.0100
Isopropylbenzene	U		0.000326	0.00100
p-Isopropyltoluene	U		0.000350	0.00100
2-Butanone (MEK)	U		0.00393	0.0100
Methylene Chloride	U		0.00100	0.00500
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100
Methyl tert-butyl ether	U		0.000367	0.00100
Naphthalene	U		0.00100	0.00500
n-Propylbenzene	U		0.000349	0.00100
Styrene	U		0.000307	0.00100
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100
Tetrachloroethene	U		0.000372	0.00100
Toluene	U		0.000412	0.00100
1,1,1-Trichloroethane	U		0.000319	0.00100
1,1,2-Trichloroethane	U		0.000383	0.00100

Method Blank (MB)

(MB) R3214910-4 04/29/17 21:41

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	mg/l		mg/l	mg/l
Trichloroethene	U		0.000398	0.00100
1,2,4-Trimethylbenzene	U		0.000373	0.00100
1,3,5-Trimethylbenzene	U		0.000387	0.00100
Vinyl chloride	U		0.000259	0.00100
Xylenes, Total	U		0.00106	0.00300
o-Xylene	U		0.000341	0.00100
m&p-Xylenes	U		0.000719	0.00200
(S) Toluene-d8	*104*			*80.0-120*
(S) Dibromofluoromethane	*100*			*76.0-123*
(S) 4-Bromofluorobenzene	*98.4*			*80.0-120*

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

(LCS) R3214910-1 04/29/17 20:39 • (LCSD) R3214910-3 04/29/17 21:10

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	mg/l	mg/l	mg/l	%	%	%			%	%
Acetone	0.125	0.191	0.201	153	161	10.0-160		J4	5.15	23
Benzene	0.0250	0.0213	0.0214	85.1	85.6	69.0-123			0.590	20
Bromodichloromethane	0.0250	0.0217	0.0218	86.8	87.2	76.0-120			0.560	20
Bromoform	0.0250	0.0239	0.0240	95.6	96.2	67.0-132			0.580	20
Bromomethane	0.0250	0.0233	0.0237	93.2	94.9	18.0-160			1.80	20
n-Butylbenzene	0.0250	0.0192	0.0194	76.8	77.6	72.0-126			0.940	20
sec-Butylbenzene	0.0250	0.0208	0.0211	83.2	84.5	74.0-121			1.57	20
Carbon disulfide	0.0250	0.0194	0.0194	77.6	77.8	55.0-127			0.200	20
Carbon tetrachloride	0.0250	0.0256	0.0239	102	95.6	63.0-122			6.75	20
Chlorobenzene	0.0250	0.0211	0.0211	84.3	84.5	79.0-121			0.320	20
Chlorodibromomethane	0.0250	0.0222	0.0222	89.0	88.8	75.0-125			0.160	20
Chloroethane	0.0250	0.0217	0.0235	86.7	94.0	47.0-152			8.12	20
Chloroform	0.0250	0.0209	0.0210	83.7	83.9	72.0-121			0.270	20
Chloromethane	0.0250	0.0239	0.0246	95.7	98.3	48.0-139			2.68	20
1,2-Dibromoethane	0.0250	0.0220	0.0218	87.9	87.1	77.0-123			0.870	20
1,1-Dichloroethane	0.0250	0.0207	0.0208	82.8	83.1	70.0-126			0.330	20
1,2-Dichloroethane	0.0250	0.0209	0.0208	83.6	83.1	67.0-126			0.700	20
1,1-Dichloroethene	0.0250	0.0202	0.0204	80.8	81.6	64.0-129			0.910	20
cis-1,2-Dichloroethene	0.0250	0.0206	0.0205	82.5	82.2	73.0-120			0.360	20
trans-1,2-Dichloroethene	0.0250	0.0199	0.0202	79.5	81.0	71.0-121			1.76	20
1,2-Dichloropropane	0.0250	0.0223	0.0222	89.1	88.7	75.0-125			0.460	20
cis-1,3-Dichloropropene	0.0250	0.0219	0.0221	87.8	88.5	79.0-123			0.900	20
trans-1,3-Dichloropropene	0.0250	0.0224	0.0223	89.6	89.4	74.0-127			0.220	20

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

(LCS) R3214910-1 04/29/17 20:39 • (LCSD) R3214910-3 04/29/17 21:10

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 %
Ethylbenzene	0.0250	0.0218	0.0219	87.2	87.7	77.0-120			0.520	20
2-Hexanone	0.125	0.152	0.154	122	123	58.0-147			1.12	20
Isopropylbenzene	0.0250	0.0210	0.0212	84.1	84.7	75.0-120			0.690	20
p-Isopropyltoluene	0.0250	0.0210	0.0214	84.2	85.7	74.0-126			1.80	20
2-Butanone (MEK)	0.125	0.155	0.158	124	126	37.0-158			1.95	20
Methylene Chloride	0.0250	0.0205	0.0205	81.9	82.1	66.0-121			0.240	20
4-Methyl-2-pentanone (MIBK)	0.125	0.132	0.133	105	106	59.0-143			0.860	20
Methyl tert-butyl ether	0.0250	0.0223	0.0226	89.3	90.6	64.0-123			1.48	20
Naphthalene	0.0250	0.0173	0.0179	69.0	71.5	62.0-128			3.46	20
n-Propylbenzene	0.0250	0.0209	0.0211	83.8	84.5	79.0-120			0.840	20
Styrene	0.0250	0.0221	0.0221	88.2	88.2	78.0-124			0.0100	20
1,1,1,2-Tetrachloroethane	0.0250	0.0215	0.0214	86.0	85.7	75.0-122			0.360	20
1,1,2,2-Tetrachloroethane	0.0250	0.0211	0.0215	84.3	86.0	71.0-122			1.98	20
Tetrachloroethene	0.0250	0.0221	0.0224	88.6	89.4	70.0-127			0.950	20
Toluene	0.0250	0.0220	0.0220	87.9	88.0	77.0-120			0.160	20
1,1,1-Trichloroethane	0.0250	0.0205	0.0204	81.8	81.8	68.0-122			0.0400	20
1,1,2-Trichloroethane	0.0250	0.0226	0.0226	90.6	90.4	78.0-120			0.190	20
Trichloroethene	0.0250	0.0215	0.0219	86.2	87.5	78.0-120			1.54	20
1,2,4-Trimethylbenzene	0.0250	0.0206	0.0208	82.5	83.4	75.0-120			0.990	20
1,3,5-Trimethylbenzene	0.0250	0.0207	0.0210	82.8	83.8	75.0-120			1.25	20
Vinyl chloride	0.0250	0.0239	0.0242	95.7	96.6	64.0-133			0.960	20
Xylenes, Total	0.0750	0.0654	0.0658	87.2	87.7	77.0-120			0.610	20
o-Xylene	0.0250	0.0215	0.0217	86.1	86.8	78.0-120			0.770	20
m&p-Xylenes	0.0500	0.0439	0.0441	87.8	88.2	77.0-120			0.420	20
(S) Toluene-d8				*104*	*104*	*80.0-120*				
(S) Dibromofluoromethane				*99.6*	*100*	*76.0-123*				
(S) 4-Bromofluorobenzene				*99.2*	*99.8*	*80.0-120*				

L905118-05 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L905118-05 04/30/17 00:00 • (MS) R3214910-5 04/30/17 02:51 • (MSD) R3214910-6 04/30/17 03:07

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 %
Acetone	0.125	19.3	0.824	0.828	659	663	1	10.0-139	V	V	0.510	25
Benzene	0.0250	0.0153	0.0203	0.0203	81.3	81.0	1	34.0-147			0.290	20
Bromodichloromethane	0.0250	U	0.0225	0.0225	90.2	90.0	1	52.0-135			0.240	20
Bromoform	0.0250	U	0.0204	0.0209	81.8	83.7	1	50.0-146			2.33	20
Bromomethane	0.0250	U	0.0230	0.0228	91.9	91.2	1	10.0-160			0.760	23
n-Butylbenzene	0.0250	U	0.0194	0.0203	77.6	81.1	1	50.0-144			4.40	20

L905118-05 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L905118-05 04/30/17 00:00 • (MS) R3214910-5 04/30/17 02:51 • (MSD) R3214910-6 04/30/17 03:07

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 %
sec-Butylbenzene	0.0250	U	0.0213	0.0213	85.3	85.0	1	48.0-143			0.320	20
Carbon disulfide	0.0250	U	0.0208	0.0207	83.3	83.0	1	10.0-147			0.350	20
Carbon tetrachloride	0.0250	U	0.0202	0.0203	80.9	81.3	1	41.0-138			0.370	20
Chlorobenzene	0.0250	U	0.0213	0.0216	85.3	86.3	1	52.0-141			1.27	20
Chlorodibromomethane	0.0250	U	0.0223	0.0228	89.2	91.1	1	54.0-142			2.13	20
Chloroethane	0.0250	0.187	0.0304	0.0294	122	118	1	23.0-160			3.20	20
Chloroform	0.0250	U	0.0214	0.0215	85.7	86.0	1	50.0-139			0.370	20
Chloromethane	0.0250	U	0.0233	0.0232	93.3	92.7	1	14.0-151			0.690	20
1,2-Dibromoethane	0.0250	U	0.0219	0.0221	87.6	88.5	1	54.0-140			1.02	20
1,1-Dichloroethane	0.0250	U	0.755	0.753	3020	3010	1	47.0-143	E V	E V	0.290	20
1,2-Dichloroethane	0.0250	0.356	0.0352	0.0348	141	139	1	47.0-141			1.00	20
1,1-Dichloroethene	0.0250	0.519	0.0421	0.0420	169	168	1	31.0-148	V	V	0.240	20
cis-1,2-Dichloroethene	0.0250	U	ND	ND	0.000	0.000	1	43.0-142	J6	J6	0.000	20
trans-1,2-Dichloroethene	0.0250	1.27	0.0679	0.0682	272	273	1	36.0-141	V	V	0.400	20
1,2-Dichloropropane	0.0250	U	0.0229	0.0229	91.5	91.7	1	51.0-141			0.260	20
cis-1,3-Dichloropropene	0.0250	U	0.0247	0.0249	98.7	99.4	1	53.0-139			0.720	20
trans-1,3-Dichloropropene	0.0250	U	0.0236	0.0239	94.3	95.7	1	51.0-143			1.47	20
Ethylbenzene	0.0250	0.0632	0.0222	0.0223	88.7	89.1	1	42.0-147			0.430	20
2-Hexanone	0.125	U	0.126	0.128	101	103	1	36.0-145			1.59	23
Isopropylbenzene	0.0250	U	0.0190	0.0191	75.9	76.3	1	48.0-141			0.600	20
p-Isopropyltoluene	0.0250	U	0.0220	0.0222	88.2	88.8	1	49.0-146			0.670	20
2-Butanone (MEK)	0.125	U	1.56	1.55	1250	1240	1	12.0-149	E V	E V	0.610	24
Methylene Chloride	0.0250	U	0.217	0.217	869	867	1	42.0-135	E V	E V	0.220	20
4-Methyl-2-pentanone (MIBK)	0.125	4.11	0.303	0.303	242	243	1	44.0-160	V	V	0.150	22
Methyl tert-butyl ether	0.0250	U	0.0232	0.0228	92.9	91.4	1	42.0-142			1.68	20
Naphthalene	0.0250	U	0.0160	0.0178	64.1	71.1	1	42.0-146			10.4	24
n-Propylbenzene	0.0250	U	0.0195	0.0196	77.8	78.2	1	47.0-144			0.500	20
Styrene	0.0250	U	0.0207	0.0208	82.9	83.3	1	47.0-147			0.510	20
1,1,1,2-Tetrachloroethane	0.0250	U	0.0214	0.0215	85.6	86.2	1	52.0-140			0.710	20
1,1,2,2-Tetrachloroethane	0.0250	U	0.0226	0.0227	90.4	91.0	1	46.0-149			0.660	20
Tetrachloroethene	0.0250	U	0.0224	0.0224	89.6	89.6	1	38.0-147			0.0100	20
Toluene	0.0250	0.716	0.0466	0.0471	186	188	1	42.0-141	V	V	1.12	20
1,1,1-Trichloroethane	0.0250	U	0.368	0.368	1470	1470	1	46.0-140	E V	E V	0.0300	20
1,1,2-Trichloroethane	0.0250	0.101	0.0266	0.0264	106	106	1	54.0-139			0.740	20
Trichloroethene	0.0250	U	0.0217	0.0217	86.7	86.9	1	32.0-156			0.170	20
1,2,4-Trimethylbenzene	0.0250	U	0.0212	0.0213	84.8	85.1	1	41.0-146			0.350	20
1,3,5-Trimethylbenzene	0.0250	U	0.0206	0.0209	82.4	83.7	1	44.0-143			1.61	20
Vinyl chloride	0.0250	U	1.48	1.50	5930	6010	1	24.0-153	E V	E V	1.34	20
Xylenes, Total	0.0750	0.237	0.0686	0.0691	91.5	92.1	1	41.0-148			0.730	20
o-Xylene	0.0250	0.0510	0.0216	0.0216	86.3	86.3	1	44.0-146			0.0100	20

L905118-05 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L905118-05 04/30/17 00:00 • (MS) R3214910-5 04/30/17 02:51 • (MSD) R3214910-6 04/30/17 03:07

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 %
m&p-Xylenes	0.0500	0.186	0.0470	0.0475	93.9	95.0	1	41.0-147			1.11	20
(S) Toluene-d8					*105*	*106*		*80.0-120*				
(S) Dibromofluoromethane					*101*	*100*		*76.0-123*				
(S) 4-Bromofluorobenzene					*97.6*	*98.5*		*80.0-120*				

Method Blank (MB)

(MB) R3214510-1 04/28/17 15:26

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	mg/l		mg/l	mg/l
TPH (GC/FID) High Fraction	U		0.0247	0.100
(S) o-Terphenyl	*87.9*			*31.0-160*

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

(LCS) R3214510-2 04/28/17 15:43 • (LCSD) R3214510-3 04/28/17 16:00

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	mg/l	mg/l	mg/l	%	%	%			%	%
TPH (GC/FID) High Fraction	1.50	1.76	1.80	117	120	50.0-150			2.54	20
(S) o-Terphenyl				*95.8*	*96.9*	*31.0-160*				

Abbreviations and Definitions

SDG	Sample Delivery Group.
MDL	Method Detection Limit.
RDL	Reported Detection Limit.
ND	Not detected at the Reporting Limit (or MDL where applicable).
U	Not detected at the Reporting Limit (or MDL where applicable).
RPD	Relative Percent Difference.
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.
(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.
Rec.	Recovery.

Qualifier	Description
E	The analyte concentration exceeds the upper limit of the calibration range of the instrument established by the initial calibration (ICAL).
J	The identification of the analyte is acceptable; the reported value is an estimate.
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.

ESC Lab Sciences is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our "one location" design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be **YOUR LAB OF CHOICE.**
* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

State Accreditations

Alabama	40660	Nevada	TN-03-2002-34
Alaska	UST-080	New Hampshire	2975
Arizona	AZ0612	New Jersey–NELAP	TN002
Arkansas	88-0469	New Mexico	TN00003
California	01157CA	New York	11742
Colorado	TN00003	North Carolina	Env375
Conneticut	PH-0197	North Carolina [1]	DW21704
Florida	E87487	North Carolina [2]	41
Georgia	NELAP	North Dakota	R-140
Georgia [1]	923	Ohio–VAP	CL0069
Idaho	TN00003	Oklahoma	9915
Illinois	200008	Oregon	TN200002
Indiana	C-TN-01	Pennsylvania	68-02979
Iowa	364	Rhode Island	221
Kansas	E-10277	South Carolina	84004
Kentucky [1]	90010	South Dakota	n/a
Kentucky [2]	16	Tennessee [1 4]	2006
Louisiana	AI30792	Texas	T 104704245-07-TX
Maine	TN0002	Texas [5]	LAB0152
Maryland	324	Utah	6157585858
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	109
Minnesota	047-999-395	Washington	C1915
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	9980939910
Montana	CERT0086	Wyoming	A2LA
Nebraska	NE-OS-15-05		

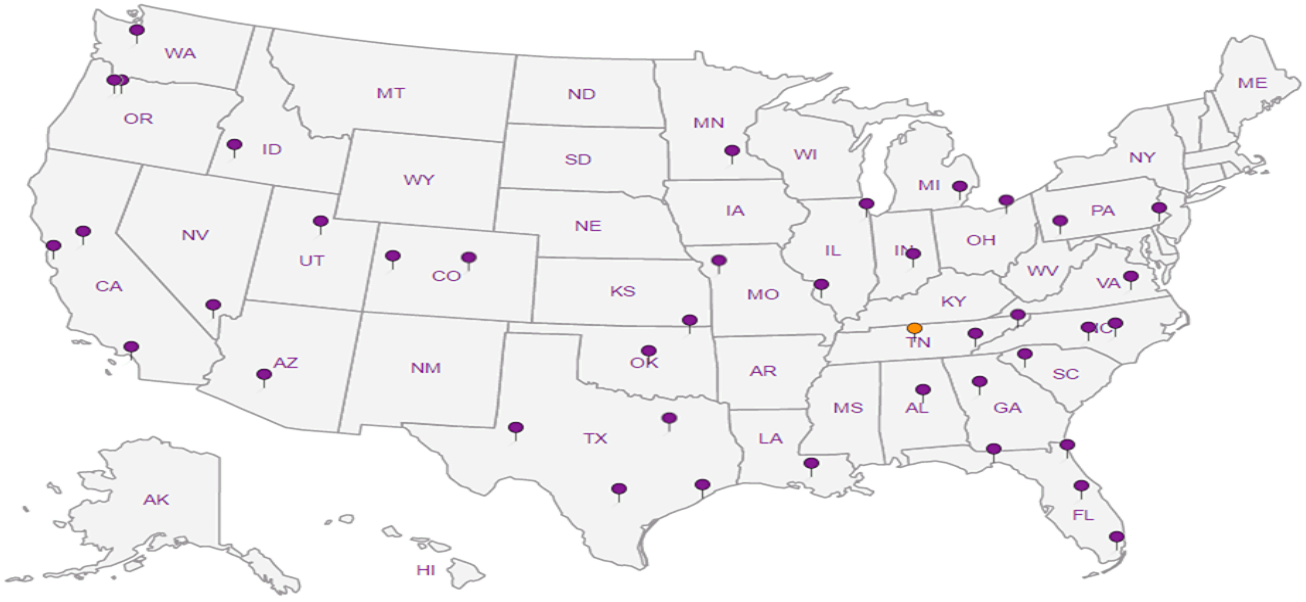
Third Party & Federal Accreditations

A2LA – ISO 17025	1461.01	AIHA-LAP,LLC	100789
A2LA – ISO 17025 [5]	1461.02	DOD	1461.01
Canada	1461.01	USDA	S-67674
EPA–Crypto	TN00003		

[1.] Drinking Water [2.] Underground Storage Tanks [3.] Aquatic Toxicity [4.] Chemical/Microbiological [5.] Mold [n/a] Accreditation not applicable

Our Locations

ESC Lab Sciences has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. **ESC Lab Sciences performs all testing at our central laboratory.**



TAB 4

Chain of Custody Page 6 of 20

ESC LABORATORIES — YOUR LAB OF CHOICE
12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

L# 1905302

G137

Company Name/Address:	TRC Solutions - Austin, TX 505 E. Huntland Dr, Ste 250 Austin, TX 78752
Billing Information:	Accounts Payable 21 Griffin Road North Windsor, CT 06095
Report to:	Julie Speer
Email To:	jspeer@trcwsolutions.com
Project Description:	NCL Spring 2017
City/State Collected:	NM
Phone:	512-684-3170
Fax:	
Client Project #	
Lab Project #	
Collected by (print):	Scott Ude/HMI Team
Site/Facility ID #	NCL (Navajo - Artesia)
P.O. #	107027
Collected by (signature):	Scott Ude
Immediately Packed on Ice N ___ Y ✓	
Rush? (Lab MUST Be Notified)	___ Same Day ....200% ___ Next Day ....100% ___ Two Day ....50% ___ Three Day 25%
Date Results Needed	
Email? ___No ✓Yes FAX? ___No ___Yes	

Acctnum: TRCATX
Template:
Prelogin:
TSR: Chris McCord
Cooler:
Shipped Via:

Analysis / Container / Preservative

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	VOC	DRO	GRO	Short List Metals (Total & Dissolved)	Cations (from "total metals" bottle) 22	Anions	NO2NO3, TDS 22	Long List Metals (Total & Dissolved)	Cyanide 7T2		Rem./Contaminant	Sample # (lab only)
~~MW-56~~	Grab	GW					X	X		X	X	X	X					
MW-45	Grab	GW		4/25/17	1820	9	X	X			X	X	X	X	X			-01
	Grab	GW																
	Grab	GW																
	Grab	GW																
	Grab	GW																
	Grab	GW																
	Grab	GW																
	Grab	GW																
	Grab	GW																

* Matrix: SS - Soil GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other _____

Remarks: Dissolved metals field-filtered.

7283 8327 4092

7283 8327 4107

pH _____ Temp _____
Flow _____ Other _____

Hold #

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Scott Ude	4/26/17	0800	
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)
			MW

Samples returned via: ☐ UPS ✓ FedEx ☐ Courier ☐ _____
Temp: 1.5 °C Bottles Received: 52
Date: 4-27-17 Time: 900

Condition: (lab use only) OK
COC Seal Intact: ___ Y ___ N ___ NA
pH Checked: C2,T2 NCF:

8

CJH 3

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Company Name/Address:	Billing Information:
TRC Solutions - Austin, TX 505 E. Huntland Dr, Ste 250 Austin, TX 78752	**Accounts Payable** 21 Griffin Road North Windsor, CT 06095
Report to: Julie Speer	Email To: jspeer@trcwsolutions.com
Project Description: **NCL Spring 2017**	City/State Collected: NM
Phone: 512-684-3170 Fax:	Client Project #	Lab Project #
Collected by (print): **Scott Ude/HMI Team**	Site/Facility ID #: NCL (Navajo - Artesia)	P.O. #: 107027
Collected by (signature): Scott Ude Immediately Packed on Ice N ___ Y ✓	***Rush?*** (Lab MUST Be Notified) ___ Same Day .....200% ___ Next Day .....100% ___ Two Day .....50% ___ Three Day 25%	Date Results Needed Email? ___No ✓Yes FAX? ___No ___Yes

Chain of Custody

ESC LAB SCIENCES

YOUR LAB OF CHOICE

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

L# 1905302

Table #

Acctnum: TRCATX

Template:

Prelogin:

TSR: **Chris McCord**

Cooler:

Shipped Via:

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	VOC	DRO	GRO	Short List Metals (Total & Dissolved)	Cations (from "total metals" bottle) 12	Anions	NO2NO3, TDS 12	Long List Metals (Total & Dissolved)	Cyanide	Rem./Contaminant	Sample # (lab only)
~~NCL-34A~~	Grab	GW					X	X		X	X	X	X				
~~NCL-33~~	Grab	GW					X	X		X	X	X	X				
~~NCL-44~~	Grab	GW					X	X		X	X	X	X				
~~NCL-32~~	Grab	GW					X	X		X	X	X	X				
~~MW-108~~	Grab	GW					X	X		X	X	X	X				
~~NCL-31~~	Grab	GW					X	X		X	X	X	X				
~~MW-55~~	Grab	GW					X	X	X		X	X	X	X	X		
~~MW-18~~	Grab	GW					X	X			X	X	X	X	X		
MW-54A	Grab	GW		4/25/17	1115	8	X	X		X	X	X	X				-02
MW-54B	Grab	GW		4/25/17	1035	10	X	X	X	X	X	X	X				-03

* Matrix: **SS** - Soil **GW** - Groundwater **WW** - WasteWater **DW** - Drinking Water **OT** - Other _____

Remarks: **Dissolved metals field-filtered.**

pH _____ Temp _____

Flow _____ Other _____

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Scott Ude	4/26/17	0800	
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)
			Mark

Samples returned via: ☐ UPS ☑ FedEx ☐ Courier ☐ _____

Temp: 1.5 °C Bottles Received: 52

Date: 4-27-17 Time: 900

Hold #

Condition: (lab use only) OK

COC Seal Intact: 1 ___Y ___N ___NA

pH Checked: C2,7R NCF:

9

CJ+ 4

Page 8 of 20

Company Name/Address:	Billing Information:
TRC Solutions - Austin, TX **505 E. Huntland Dr, Ste 250** **Austin, TX 78752**	**Accounts Payable** **21 Griffin Road North** **Windsor, CT 06095**
Report to: Julie Speer	Email To: jspeer@trcwsolutions.com
Project Description: **NCL Spring 2017**	City/State Collected: NM
Phone: 512-684-3170 Fax:	Client Project #	Lab Project #
Collected by (print): **Scott Ude/HMI Team**	Site/Facility ID #: NCL (Navajo - Artesia)	P.O. #: 107027
Collected by (signature): Scott Ude Immediately Packed on Ice N ___ Y ✓	***Rush?*** (Lab MUST Be Notified) ___ Same Day .....200% ___ Next Day .....100% ___ Two Day .....50% ___ Three Day 25%	Date Results Needed Email? ___No ✓Yes FAX? ___No ___Yes

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	VOC	DRO	GRO	Short List Metals (Total & Dissolved)	Cations (from "total metals" bottle)	Anions	NO2NO3, TDS	Long List Metals (Total & Dissolved)	Cyanide	Rem./Contaminant	Sample # (lab only)
NCL-49	Grab	GW		4/25/17	~~905~~ 945	5	X	X		X	X	X	X				-04
MW-53	Grab	GW		4/25/17	905	5	X	X		X	X	X	X				-05
	Grab	GW															
	Grab	GW															
	Grab	GW															
	Grab	GW															
	Grab	GW															
	Grab	GW															
	Grab	GW															
	Grab	GW															

* Matrix: **SS** - Soil **GW** - Groundwater **WW** - WasteWater **DW** - Drinking Water **OT** - Other_____

Remarks: **Dissolved metals field-filtered.**

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Scott Ude	4/26/17	0800	
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)
			Mark

pH _____ Temp _____

Flow _____ Other _____

Samples returned via: ☐ UPS ☑ FedEx ☐ Courier ☐ _____

Temp: 1.3 °C Bottles Received: 52

Date: 4-27-17 Time: 900

Chain of Custody

ESC LABORATORY SCIENCES

YOUR LAB OF CHOICE

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

L# 190530Z

Table #

Acctnum: TRCATX

Template:

Prelogin:

TSR: **Chris McCord**

Cooler:

Shipped Via:

Hold #

Condition: (lab use only) OK

COC Seal Intact: ✓ Y ___N ___NA

pH Checked: NCF:

10

QA/QC 2

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Company Name/Address:	Billing Information:
TRC Solutions - Austin, TX **505 E. Huntland Dr, Ste 250** **Austin, TX 78752**	**Accounts Payable** **21 Griffin Road North** **Windsor, CT 06095**
Report to: Julie Speer	Email To: jspeer@trcwsolutions.com
Project Description: **NCL Spring 2017**	City/State Collected: NM
Phone: 512-684-3170 Fax:	Client Project #	Lab Project #
Collected by (print): **Scott Ude/HMI Team**	Site/Facility ID #: NCL (Navajo - Artesia)	P.O. #: 107027
Collected by (signature): Scott Ude Immediately Packed on Ice N ___ Y ✓	***Rush?*** (Lab MUST Be Notified) ___ Same Day ....200% ___ Next Day ....100% ___ Two Day ....50% ___ Three Day 25%	Date Results Needed Email? ___No ✓Yes FAX? ___No ___Yes

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	VOC	DRO	GRO	Short List Metals (Total & Dissolved)	Cations (from "total metals" bottle) C2	Anions	NO2NO3, TDS C7	Long List Metals (Total & Dissolved)	Cyanide		Rem./Contaminant	Sample # (lab only)
DUP-NCL-01	Grab	GW		4/25/17	900	3	X	X		X	X	X	X					-06
~~EB-NCL-01~~	Grab	GW					X	X		X	X	X	X					
~~Trip Blank-NCL-01~~	Grab	GW				1	X											-07
	Grab	GW																
	Grab	GW																
	Grab	GW																
	Grab	GW																
	Grab	GW																
	Grab	GW																
	Grab	GW																

* Matrix: **SS** - Soil **GW** - Groundwater **WW** - WasteWater **DW** - Drinking Water **OT** - Other_____

pH _____ Temp _____

Remarks: **Dissolved metals field-filtered.**

Flow _____ Other _____

Hold #

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Scott Ude	4/26/17	0800	
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)

Samples returned via: ☐ UPS ☑ FedEx ☐ Courier ☐ _____

Temp: 1.5 °C Bottles Received: 52

Date: 4-27-17 Time: 900

Condition: (lab use only) OK

COC Seal Intact: ✓ Y ___N ___NA

pH Checked: NCF:

Chain of Custody

ESC LAB SCIENCES

YOUR LAB OF CHOICE

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

L# L905302

Table #

Acctnum: TRCATX

Template:

Prelogin:

TSR: **Chris McCord**

Cooler:

Shipped Via:

11

ESC LAB SCIENCES
Cooler Receipt Form

Client: TRCA1X	SDG#	L905302
Cooler Received/Opened On: 4/ 27 /17	Temperature:	1.5
Received By: MICHAEL WITHERSPOON		
Signature:		

Receipt Check List	NP	Yes	No
COC Seal Present / Intact?		✓	
COC Signed / Accurate?		✓	
Bottles arrive intact?		✓	
Correct bottles used?		✓	
Sufficient volume sent?		✓	
If Applicable			
VOA Zero headspace?		✓	
Preservation Correct / Checked?		✓	

ANALYTICAL REPORT

May 10, 2017

TRC Solutions - Austin, TX

Sample Delivery Group:	L905307
Samples Received:	04/27/2017
Project Number:	249545.0000.0000 000
Description:	REST Spring 2017
Site:	REST - NAVAJO-ARTESIA
Report To:	Julie Speer 505 E. Huntland Dr, Ste 250 Austin, TX 78752

Entire Report Reviewed By:

Chris McCord
Technical Service Representative

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 ESC is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.



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KWB-8 L905307-01 GW

Collected by: Scott Ude-HMI Team
Collected date/time: 04/25/17 17:35
Received date/time: 04/27/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG974889	1	04/30/17 12:08	04/30/17 13:12	MMF
Wet Chemistry by Method 353.2	WG974945	1	05/01/17 16:26	05/01/17 16:26	DR
Wet Chemistry by Method 4500CN E-2011	WG974960	1	04/28/17 16:29	05/02/17 09:25	DR
Wet Chemistry by Method 9056A	WG974575	1	04/28/17 17:30	04/28/17 17:30	SAM
Wet Chemistry by Method 9056A	WG974575	50	04/28/17 18:17	04/28/17 18:17	SAM
Mercury by Method 7470A	WG974464	1	04/27/17 13:20	04/28/17 15:41	TRB
Mercury by Method 7470A	WG974524	1	04/27/17 13:18	04/28/17 14:24	TRB
Metals (ICPMS) by Method 6020	WG974738	1	05/01/17 14:40	05/01/17 20:09	VSS
Metals (ICPMS) by Method 6020	WG974738	1	05/01/17 14:40	05/02/17 06:33	LAT
Metals (ICPMS) by Method 6020	WG974741	1	04/28/17 13:50	05/01/17 18:24	VSS
Volatile Organic Compounds (GC/MS) by Method 8260B	WG976754	100	05/04/17 23:10	05/04/17 23:10	DWR
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG975178	1	04/30/17 18:27	05/01/17 12:11	TRF

KWB-7 L905307-02 GW

Collected by: Scott Ude-HMI Team
Collected date/time: 04/25/17 18:20
Received date/time: 04/27/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG974889	1	04/30/17 12:08	04/30/17 13:12	MMF
Wet Chemistry by Method 353.2	WG974945	1	05/01/17 16:31	05/01/17 16:31	DR
Wet Chemistry by Method 4500CN E-2011	WG974960	1	04/28/17 16:29	05/02/17 09:28	DR
Wet Chemistry by Method 9056A	WG975157	1	04/30/17 23:17	04/30/17 23:17	KCF
Wet Chemistry by Method 9056A	WG975157	20	04/30/17 23:54	04/30/17 23:54	KCF
Mercury by Method 7470A	WG974464	1	04/27/17 13:20	04/28/17 15:44	TRB
Mercury by Method 7470A	WG974524	1	04/27/17 13:18	04/28/17 14:26	TRB
Metals (ICPMS) by Method 6020	WG974738	1	05/01/17 14:40	05/01/17 20:12	VSS
Metals (ICPMS) by Method 6020	WG974738	1	05/01/17 14:40	05/02/17 06:36	LAT
Metals (ICPMS) by Method 6020	WG974741	1	04/28/17 13:50	05/01/17 18:28	VSS
Volatile Organic Compounds (GC/MS) by Method 8260B	WG976754	1	05/04/17 19:58	05/04/17 19:58	DWR
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG975178	1	04/30/17 18:27	05/01/17 12:27	TRF

KWB-11A L905307-03 GW

Collected by: Scott Ude-HMI Team
Collected date/time: 04/25/17 19:10
Received date/time: 04/27/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG974889	1	04/30/17 12:08	04/30/17 13:12	MMF
Wet Chemistry by Method 353.2	WG974945	20	05/01/17 16:33	05/01/17 16:33	DR
Wet Chemistry by Method 4500CN E-2011	WG974960	1	04/28/17 16:29	05/02/17 09:29	DR
Wet Chemistry by Method 9056A	WG975157	1	04/30/17 23:29	04/30/17 23:29	KCF
Wet Chemistry by Method 9056A	WG975157	50	05/01/17 00:05	05/01/17 00:05	KCF
Mercury by Method 7470A	WG974464	1	04/27/17 13:20	04/28/17 15:46	TRB
Mercury by Method 7470A	WG974524	1	04/27/17 13:18	04/28/17 14:28	TRB
Metals (ICPMS) by Method 6020	WG974738	1	05/01/17 14:40	05/01/17 20:16	VSS
Metals (ICPMS) by Method 6020	WG974738	1	05/01/17 14:40	05/02/17 06:40	LAT
Metals (ICPMS) by Method 6020	WG974741	1	04/28/17 13:50	05/01/17 18:31	VSS
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG974800	1	04/28/17 17:27	04/28/17 17:27	DWR
Volatile Organic Compounds (GC/MS) by Method 8260B	WG976754	1	05/04/17 20:13	05/04/17 20:13	DWR
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG975178	1	04/30/17 18:27	05/01/17 12:44	TRF

KWB-11B L905307-04 GW

Collected by: Scott Ude-HMI Team | Collected date/time: 04/25/17 20:00 | Received date/time: 04/27/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG974889	1	04/30/17 12:08	04/30/17 13:12	MMF
Wet Chemistry by Method 353.2	WG974945	1	05/01/17 16:34	05/01/17 16:34	DR
Wet Chemistry by Method 4500CN E-2011	WG974960	1	04/28/17 16:29	05/02/17 09:30	DR
Wet Chemistry by Method 9056A	WG975157	1	04/30/17 23:41	04/30/17 23:41	KCF
Wet Chemistry by Method 9056A	WG975157	50	05/01/17 00:17	05/01/17 00:17	KCF
Mercury by Method 7470A	WG974464	1	04/27/17 13:20	04/28/17 15:48	TRB
Mercury by Method 7470A	WG974524	1	04/27/17 13:18	04/28/17 14:31	TRB
Metals (ICPMS) by Method 6020	WG974738	1	05/01/17 14:40	05/01/17 20:19	VSS
Metals (ICPMS) by Method 6020	WG974738	1	05/01/17 14:40	05/02/17 06:43	LAT
Metals (ICPMS) by Method 6020	WG974741	1	04/28/17 13:50	05/01/17 18:35	VSS
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG974800	1	04/28/17 17:48	04/28/17 17:48	DWR
Volatile Organic Compounds (GC/MS) by Method 8260B	WG976754	1	05/04/17 20:27	05/04/17 20:27	DWR
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG975178	1	04/30/17 18:27	05/01/17 13:01	TRF

NP-5 L905307-05 GW

Collected by: Scott Ude-HMI Team | Collected date/time: 04/25/17 14:10 | Received date/time: 04/27/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG974889	1	04/30/17 12:08	04/30/17 13:12	MMF
Wet Chemistry by Method 353.2	WG974945	1	05/01/17 16:35	05/01/17 16:35	DR
Wet Chemistry by Method 9056A	WG975157	1	05/01/17 00:52	05/01/17 00:52	KCF
Wet Chemistry by Method 9056A	WG975157	100	05/01/17 01:03	05/01/17 01:03	KCF
Metals (ICPMS) by Method 6020	WG974738	1	05/01/17 14:40	05/01/17 22:28	VSS
Metals (ICPMS) by Method 6020	WG974741	1	04/28/17 13:50	05/01/17 19:54	VSS
Volatile Organic Compounds (GC/MS) by Method 8260B	WG976754	1	05/04/17 20:42	05/04/17 20:42	DWR
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG975178	1	04/30/17 18:27	05/01/17 15:33	TRF

MW-136 L905307-06 GW

Collected by: Scott Ude-HMI Team | Collected date/time: 04/25/17 13:20 | Received date/time: 04/27/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG974889	1	04/30/17 12:08	04/30/17 13:12	MMF
Wet Chemistry by Method 353.2	WG974946	5	05/01/17 16:45	05/01/17 16:45	DR
Wet Chemistry by Method 4500CN E-2011	WG974960	1	04/28/17 16:29	05/02/17 09:31	DR
Wet Chemistry by Method 9056A	WG974576	1	04/28/17 12:16	04/28/17 12:16	SAM
Wet Chemistry by Method 9056A	WG974576	100	04/28/17 12:30	04/28/17 12:30	SAM
Mercury by Method 7470A	WG974464	1	04/27/17 13:20	04/28/17 15:50	TRB
Mercury by Method 7470A	WG974524	1	04/27/17 13:18	04/28/17 14:33	TRB
Metals (ICPMS) by Method 6020	WG974738	1	05/01/17 14:40	05/01/17 20:23	VSS
Metals (ICPMS) by Method 6020	WG974738	1	05/01/17 14:40	05/02/17 06:47	LAT
Metals (ICPMS) by Method 6020	WG974741	1	04/28/17 13:50	05/01/17 18:38	VSS
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG974800	1	04/28/17 18:09	04/28/17 18:09	DWR
Volatile Organic Compounds (GC/MS) by Method 8260B	WG976754	1	05/04/17 20:57	05/04/17 20:57	DWR
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG975178	1	04/30/17 18:27	05/01/17 15:50	TRF

RW-#18A L905307-07 GW

Collected by: Scott Ude-HMI Team | Collected date/time: 04/25/17 12:35 | Received date/time: 04/27/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG974890	1	05/01/17 08:18	05/01/17 09:04	MMF
Wet Chemistry by Method 353.2	WG974946	1	05/01/17 16:46	05/01/17 16:46	DR
Wet Chemistry by Method 9056A	WG974576	1	04/28/17 12:45	04/28/17 12:45	SAM

RW-#18A L905307-07 GW

Collected by: Scott Ude-HMI Team
Collected date/time: 04/25/17 12:35
Received date/time: 04/27/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Wet Chemistry by Method 9056A	WG974576	50	04/28/17 13:00	04/28/17 13:00	SAM
Metals (ICPMS) by Method 6020	WG974738	1	05/01/17 14:40	05/01/17 22:32	VSS
Metals (ICPMS) by Method 6020	WG974741	1	04/28/17 13:50	05/01/17 19:58	VSS
Volatile Organic Compounds (GC/MS) by Method 8260B	WG976754	1	05/04/17 21:12	05/04/17 21:12	DWR

KWB-1A L905307-08 GW

Collected by: Scott Ude-HMI Team
Collected date/time: 04/25/17 11:15
Received date/time: 04/27/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG974890	1	05/01/17 08:18	05/01/17 09:04	MMF
Wet Chemistry by Method 353.2	WG974946	1	05/01/17 16:47	05/01/17 16:47	DR
Wet Chemistry by Method 4500CN E-2011	WG974960	1	04/28/17 16:29	05/02/17 09:32	DR
Wet Chemistry by Method 9056A	WG974576	1	04/28/17 13:15	04/28/17 13:15	SAM
Wet Chemistry by Method 9056A	WG974576	100	04/28/17 13:30	04/28/17 13:30	SAM
Mercury by Method 7470A	WG974464	1	04/27/17 13:20	04/28/17 15:53	TRB
Mercury by Method 7470A	WG974524	1	04/27/17 13:18	04/28/17 14:35	TRB
Metals (ICPMS) by Method 6020	WG974738	1	05/01/17 14:40	05/01/17 20:26	VSS
Metals (ICPMS) by Method 6020	WG974738	1	05/01/17 14:40	05/02/17 06:51	LAT
Metals (ICPMS) by Method 6020	WG974741	1	04/28/17 13:50	05/01/17 18:42	VSS
Volatile Organic Compounds (GC/MS) by Method 8260B	WG976754	1	05/04/17 21:26	05/04/17 21:26	DWR
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG975178	1	04/30/17 18:27	05/01/17 16:06	TRF

KWB-1C L905307-09 GW

Collected by: Scott Ude-HMI Team
Collected date/time: 04/25/17 11:50
Received date/time: 04/27/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG974890	1	05/01/17 08:18	05/01/17 09:04	MMF
Wet Chemistry by Method 353.2	WG974946	1	05/01/17 16:48	05/01/17 16:48	DR
Wet Chemistry by Method 9056A	WG974576	1	04/29/17 11:12	04/29/17 11:12	SAM
Wet Chemistry by Method 9056A	WG974576	100	04/29/17 11:27	04/29/17 11:27	SAM
Metals (ICPMS) by Method 6020	WG974738	1	05/01/17 14:40	05/01/17 22:35	VSS
Metals (ICPMS) by Method 6020	WG974741	1	04/28/17 13:50	05/01/17 20:05	VSS
Volatile Organic Compounds (GC/MS) by Method 8260B	WG976754	1	05/04/17 21:41	05/04/17 21:41	DWR
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG975178	1	04/30/17 18:27	05/01/17 16:23	TRF

KWB-10R L905307-10 GW

Collected by: Scott Ude-HMI Team
Collected date/time: 04/25/17 10:30
Received date/time: 04/27/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG974890	1	05/01/17 08:18	05/01/17 09:04	MMF
Wet Chemistry by Method 353.2	WG974946	1	05/01/17 16:55	05/01/17 16:55	DR
Wet Chemistry by Method 9056A	WG974576	1	04/29/17 11:42	04/29/17 11:42	SAM
Wet Chemistry by Method 9056A	WG974576	100	04/29/17 11:57	04/29/17 11:57	SAM
Metals (ICPMS) by Method 6020	WG974738	1	05/01/17 14:40	05/01/17 22:39	VSS
Metals (ICPMS) by Method 6020	WG974741	1	04/28/17 13:50	05/01/17 20:08	VSS
Volatile Organic Compounds (GC/MS) by Method 8260B	WG976754	50	05/04/17 23:24	05/04/17 23:24	DWR
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG975178	1	04/30/17 18:27	05/01/17 16:39	TRF

KWB-2R L905307-11 GW

Collected by: Scott Ude-HMI Team
Collected date/time: 04/25/17 17:15
Received date/time: 04/27/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG974890	1	05/01/17 08:18	05/01/17 09:04	MMF
Wet Chemistry by Method 353.2	WG974946	1	05/01/17 16:56	05/01/17 16:56	DR
Wet Chemistry by Method 9056A	WG974576	1	04/29/17 12:57	04/29/17 12:57	SAM
Wet Chemistry by Method 9056A	WG974576	100	04/29/17 12:12	04/29/17 12:12	SAM
Metals (ICPMS) by Method 6020	WG974738	1	05/01/17 14:40	05/01/17 22:42	VSS
Metals (ICPMS) by Method 6020	WG974741	1	04/28/17 13:50	05/01/17 20:12	VSS
Volatile Organic Compounds (GC/MS) by Method 8260B	WG976754	1	05/04/17 21:56	05/04/17 21:56	DWR
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG975178	1	04/30/17 18:27	05/01/17 16:56	TRF

MW-58 L905307-12 GW

Collected by: Scott Ude-HMI Team
Collected date/time: 04/25/17 16:30
Received date/time: 04/27/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG974890	1	05/01/17 08:18	05/01/17 09:04	MMF
Wet Chemistry by Method 353.2	WG974946	1	05/01/17 16:57	05/01/17 16:57	DR
Wet Chemistry by Method 4500CN E-2011	WG974960	1	04/28/17 16:29	05/02/17 09:33	DR
Wet Chemistry by Method 9056A	WG974576	1	04/28/17 20:10	04/28/17 20:10	SAM
Wet Chemistry by Method 9056A	WG974576	100	04/29/17 15:11	04/29/17 15:11	SAM
Wet Chemistry by Method 9056A	WG975172	5	04/29/17 17:42	04/29/17 17:42	KCF
Mercury by Method 7470A	WG974464	1	04/27/17 13:20	04/28/17 15:55	TRB
Mercury by Method 7470A	WG974524	1	04/27/17 13:18	04/28/17 14:38	TRB
Metals (ICPMS) by Method 6020	WG974738	1	05/01/17 14:40	05/01/17 20:30	VSS
Metals (ICPMS) by Method 6020	WG974738	1	05/01/17 14:40	05/01/17 23:19	VSS
Metals (ICPMS) by Method 6020	WG974738	1	05/01/17 14:40	05/02/17 06:54	LAT
Metals (ICPMS) by Method 6020	WG974741	1	04/28/17 13:50	05/01/17 18:45	VSS
Volatile Organic Compounds (GC/MS) by Method 8260B	WG976754	100	05/04/17 23:39	05/04/17 23:39	DWR
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG975178	1	04/30/17 18:27	05/01/17 17:13	TRF

MW-103 L905307-13 GW

Collected by: Scott Ude-HMI Team
Collected date/time: 04/25/17 14:45
Received date/time: 04/27/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG974890	1	05/01/17 08:18	05/01/17 09:04	MMF
Wet Chemistry by Method 353.2	WG974946	1	05/01/17 16:58	05/01/17 16:58	DR
Wet Chemistry by Method 9056A	WG974576	1	04/28/17 20:25	04/28/17 20:25	SAM
Wet Chemistry by Method 9056A	WG975172	500	04/29/17 17:57	04/29/17 17:57	KCF
Metals (ICPMS) by Method 6020	WG974738	1	05/01/17 14:40	05/01/17 22:46	VSS
Metals (ICPMS) by Method 6020	WG974738	100	05/01/17 14:40	05/01/17 23:30	VSS
Metals (ICPMS) by Method 6020	WG974741	20	04/28/17 13:50	05/10/17 14:45	JDG
Metals (ICPMS) by Method 6020	WG974741	20	04/28/17 13:50	05/10/17 16:11	JPD
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG974800	10	04/28/17 18:30	04/28/17 18:30	DWR
Volatile Organic Compounds (GC/MS) by Method 8260B	WG976754	50	05/04/17 23:54	05/04/17 23:54	DWR
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG975178	1	04/30/17 18:27	05/01/17 17:29	TRF

MW-104 L905307-14 GW

Collected by: Scott Ude-HMI Team
Collected date/time: 04/25/17 15:35
Received date/time: 04/27/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG974890	1	05/01/17 08:18	05/01/17 09:04	MMF
Wet Chemistry by Method 353.2	WG974946	1	05/01/17 16:59	05/01/17 16:59	DR
Wet Chemistry by Method 9056A	WG974576	1	04/28/17 20:54	04/28/17 20:54	SAM
Wet Chemistry by Method 9056A	WG974576	50	04/28/17 21:09	04/28/17 21:09	SAM

MW-104 L905307-14 GW

Collected by: Scott Ude-HMI Team
Collected date/time: 04/25/17 15:35
Received date/time: 04/27/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Wet Chemistry by Method 9056A	WG975172	5	04/29/17 18:12	04/29/17 18:12	KCF
Metals (ICPMS) by Method 6020	WG974738	1	05/01/17 14:40	05/01/17 22:49	VSS
Metals (ICPMS) by Method 6020	WG974741	1	04/28/17 13:50	05/01/17 20:19	VSS
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG974800	10	04/28/17 18:51	04/28/17 18:51	DWR
Volatile Organic Compounds (GC/MS) by Method 8260B	WG976754	10	05/05/17 00:09	05/05/17 00:09	DWR
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG975178	1	04/30/17 18:27	05/01/17 17:46	TRF

MW-64 L905307-15 GW

Collected by: Scott Ude-HMI Team
Collected date/time: 04/25/17 13:00
Received date/time: 04/27/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG974890	1	05/01/17 08:18	05/01/17 09:04	MMF
Wet Chemistry by Method 353.2	WG974946	1	05/01/17 17:01	05/01/17 17:01	DR
Wet Chemistry by Method 9056A	WG974576	1	04/28/17 21:54	04/28/17 21:54	SAM
Wet Chemistry by Method 9056A	WG974576	100	04/28/17 21:24	04/28/17 21:24	SAM
Metals (ICPMS) by Method 6020	WG974738	1	05/01/17 14:40	05/01/17 22:53	VSS
Metals (ICPMS) by Method 6020	WG974741	1	04/28/17 13:50	05/01/17 20:22	VSS
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG974800	25	04/28/17 19:12	04/28/17 19:12	DWR
Volatile Organic Compounds (GC/MS) by Method 8260B	WG976754	250	05/05/17 00:23	05/05/17 00:23	DWR
Volatile Organic Compounds (GC/MS) by Method 8260B	WG976754	500	05/08/17 14:46	05/08/17 14:46	LRL
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG975178	1	04/30/17 18:27	05/01/17 18:03	TRF

MW-65 L905307-16 GW

Collected by: Scott Ude-HMI Team
Collected date/time: 04/25/17 13:50
Received date/time: 04/27/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG974890	1	05/01/17 08:18	05/01/17 09:04	MMF
Wet Chemistry by Method 353.2	WG974946	1	05/01/17 17:02	05/01/17 17:02	DR
Wet Chemistry by Method 9056A	WG974576	1	04/28/17 23:09	04/28/17 23:09	SAM
Wet Chemistry by Method 9056A	WG974576	100	04/28/17 22:09	04/28/17 22:09	SAM
Metals (ICPMS) by Method 6020	WG974738	1	05/01/17 14:40	05/01/17 22:56	VSS
Metals (ICPMS) by Method 6020	WG974741	1	04/28/17 13:50	05/01/17 20:27	VSS
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG974800	5	04/28/17 19:33	04/28/17 19:33	DWR
Volatile Organic Compounds (GC/MS) by Method 8260B	WG976754	100	05/05/17 00:38	05/05/17 00:38	DWR
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG975178	1	04/30/17 18:27	05/01/17 18:20	TRF

UG-2 L905307-17 GW

Collected by: Scott Ude-HMI Team
Collected date/time: 04/25/17 12:10
Received date/time: 04/27/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG974898	1	04/29/17 11:41	04/29/17 13:05	MMF
Wet Chemistry by Method 353.2	WG975894	10	05/03/17 14:38	05/03/17 14:38	DR
Wet Chemistry by Method 4500CN E-2011	WG974960	1	04/28/17 16:29	05/02/17 09:35	DR
Wet Chemistry by Method 9056A	WG974576	1	04/28/17 23:24	04/28/17 23:24	SAM
Wet Chemistry by Method 9056A	WG974576	100	04/28/17 22:24	04/28/17 22:24	SAM
Wet Chemistry by Method 9056A	WG975534	1	05/02/17 15:29	05/02/17 15:29	KCF
Mercury by Method 7470A	WG974464	1	04/27/17 13:20	04/28/17 15:57	TRB
Mercury by Method 7470A	WG974524	1	04/27/17 13:18	04/28/17 14:44	TRB
Metals (ICPMS) by Method 6020	WG974738	1	05/01/17 14:40	05/01/17 20:37	VSS
Metals (ICPMS) by Method 6020	WG974738	1	05/01/17 14:40	05/02/17 06:58	LAT
Metals (ICPMS) by Method 6020	WG974741	1	04/28/17 13:50	05/01/17 18:49	VSS
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG974800	1	04/28/17 19:54	04/28/17 19:54	DWR

UG-2 L905307-17 GW

Collected by: Scott Ude-HMI Team
Collected date/time: 04/25/17 12:10
Received date/time: 04/27/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG976754	1	05/04/17 22:11	05/04/17 22:11	DWR
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG975178	1	04/30/17 18:27	05/01/17 18:37	TRF

UG-3R L905307-18 GW

Collected by: Scott Ude-HMI Team
Collected date/time: 04/25/17 09:40
Received date/time: 04/27/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG974898	1	04/29/17 11:41	04/29/17 13:05	MMF
Wet Chemistry by Method 353.2	WG975894	10	05/03/17 14:40	05/03/17 14:40	DR
Wet Chemistry by Method 4500CN E-2011	WG974960	1	04/28/17 16:29	05/02/17 09:36	DR
Wet Chemistry by Method 9056A	WG974576	1	04/29/17 10:13	04/29/17 10:13	SAM
Wet Chemistry by Method 9056A	WG974576	100	04/29/17 10:28	04/29/17 10:28	SAM
Mercury by Method 7470A	WG974464	1	04/27/17 13:20	04/28/17 16:00	TRB
Mercury by Method 7470A	WG974524	1	04/27/17 13:18	04/28/17 14:47	TRB
Metals (ICPMS) by Method 6020	WG974738	1	05/01/17 14:40	05/01/17 20:40	VSS
Metals (ICPMS) by Method 6020	WG974738	1	05/01/17 14:40	05/01/17 23:23	VSS
Metals (ICPMS) by Method 6020	WG974738	1	05/01/17 14:40	05/02/17 07:02	LAT
Metals (ICPMS) by Method 6020	WG974741	1	04/28/17 13:50	05/01/17 18:52	VSS
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG974800	1	04/28/17 20:15	04/28/17 20:15	DWR
Volatile Organic Compounds (GC/MS) by Method 8260B	WG976754	1	05/04/17 22:25	05/04/17 22:25	DWR
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG975178	1	04/30/17 18:27	05/01/17 18:54	TRF

UG-1 L905307-19 GW

Collected by: Scott Ude-HMI Team
Collected date/time: 04/25/17 11:20
Received date/time: 04/27/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG974898	1	04/29/17 11:41	04/29/17 13:05	MMF
Wet Chemistry by Method 353.2	WG975894	10	05/03/17 14:41	05/03/17 14:41	DR
Wet Chemistry by Method 4500CN E-2011	WG974960	1	04/28/17 16:29	05/02/17 09:41	DR
Wet Chemistry by Method 9056A	WG974576	1	04/29/17 13:12	04/29/17 13:12	SAM
Wet Chemistry by Method 9056A	WG974576	100	04/29/17 13:27	04/29/17 13:27	SAM
Mercury by Method 7470A	WG974524	1	04/27/17 13:18	04/28/17 14:49	TRB
Mercury by Method 7470A	WG974554	1	04/28/17 10:01	04/29/17 07:31	TRB
Metals (ICPMS) by Method 6020	WG974738	1	05/01/17 14:40	05/01/17 20:44	VSS
Metals (ICPMS) by Method 6020	WG974738	1	05/01/17 14:40	05/01/17 23:26	VSS
Metals (ICPMS) by Method 6020	WG974738	1	05/01/17 14:40	05/02/17 07:05	LAT
Metals (ICPMS) by Method 6020	WG974741	1	04/28/17 13:50	05/01/17 18:56	VSS
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG974800	1	04/28/17 20:36	04/28/17 20:36	DWR
Volatile Organic Compounds (GC/MS) by Method 8260B	WG976754	1	05/04/17 22:40	05/04/17 22:40	DWR
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG975178	1	04/30/17 18:27	05/01/17 19:11	TRF

UG-4 L905307-20 GW

Collected by: Scott Ude-HMI Team
Collected date/time: 04/25/17 10:25
Received date/time: 04/27/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG974898	1	04/29/17 11:41	04/29/17 13:05	MMF
Wet Chemistry by Method 353.2	WG975894	10	05/03/17 14:42	05/03/17 14:42	DR
Wet Chemistry by Method 4500CN E-2011	WG974960	1	04/28/17 16:29	05/02/17 09:42	DR
Wet Chemistry by Method 9056A	WG974576	1	04/29/17 14:11	04/29/17 14:11	SAM
Wet Chemistry by Method 9056A	WG974576	100	04/29/17 14:56	04/29/17 14:56	SAM
Mercury by Method 7470A	WG974524	1	04/27/17 13:18	04/28/17 14:51	TRB
Mercury by Method 7470A	WG974554	1	04/28/17 10:01	04/29/17 07:33	TRB

UG-4 L905307-20 GW

Collected by: Scott Ude-HMI Team
Collected date/time: 04/25/17 10:25
Received date/time: 04/27/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICPMS) by Method 6020	WG974738	1	05/01/17 14:40	05/01/17 19:40	VSS
Metals (ICPMS) by Method 6020	WG974738	1	05/01/17 14:40	05/02/17 06:11	LAT
Metals (ICPMS) by Method 6020	WG974741	1	04/28/17 13:50	05/01/17 17:47	VSS
Metals (ICPMS) by Method 6020	WG974741	2	04/28/17 13:50	05/01/17 19:23	VSS
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG974800	1	04/28/17 20:57	04/28/17 20:57	DWR
Volatile Organic Compounds (GC/MS) by Method 8260B	WG976754	1	05/04/17 22:55	05/04/17 22:55	DWR
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG975178	1	04/30/17 18:27	05/01/17 19:28	TRF

MW-43 L905307-21 GW

Collected by: Scott Ude-HMI Team
Collected date/time: 04/25/17 11:25
Received date/time: 04/27/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG974898	1	04/29/17 11:41	04/29/17 13:05	MMF
Wet Chemistry by Method 353.2	WG975894	10	05/03/17 14:47	05/03/17 14:47	DR
Wet Chemistry by Method 4500CN E-2011	WG974960	2	04/28/17 16:29	05/02/17 10:16	DR
Wet Chemistry by Method 9056A	WG974576	1	04/29/17 01:53	04/29/17 01:53	SAM
Wet Chemistry by Method 9056A	WG974576	100	04/29/17 02:23	04/29/17 02:23	SAM
Wet Chemistry by Method 9056A	WG975534	100	05/02/17 16:04	05/02/17 16:04	KCF
Mercury by Method 7470A	WG974524	1	04/27/17 13:18	04/28/17 14:53	TRB
Mercury by Method 7470A	WG974554	1	04/28/17 10:01	04/29/17 07:35	TRB
Metals (ICPMS) by Method 6020	WG974740	1	05/01/17 18:51	05/02/17 02:57	LAT
Metals (ICPMS) by Method 6020	WG974740	2	05/01/17 18:51	05/02/17 14:03	LAT
Metals (ICPMS) by Method 6020	WG974743	1	05/03/17 17:36	05/03/17 21:53	LAT
Metals (ICPMS) by Method 6020	WG974743	1	05/03/17 17:36	05/04/17 16:59	LAT
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG974800	50	04/28/17 21:18	04/28/17 21:18	DWR
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975213	200	05/02/17 20:04	05/02/17 20:04	LRL
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975213	50	04/30/17 02:04	04/30/17 02:04	LRL
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG975178	1	04/30/17 18:27	05/01/17 19:45	TRF

MW-137 L905307-22 GW

Collected by: Scott Ude-HMI Team
Collected date/time: 04/25/17 13:25
Received date/time: 04/27/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG974898	1	04/29/17 11:41	04/29/17 13:05	MMF
Wet Chemistry by Method 353.2	WG975894	10	05/03/17 14:48	05/03/17 14:48	DR
Wet Chemistry by Method 4500CN E-2011	WG974960	10	04/28/17 16:29	05/02/17 10:18	DR
Wet Chemistry by Method 9056A	WG974576	1	04/28/17 23:39	04/28/17 23:39	SAM
Wet Chemistry by Method 9056A	WG974576	100	04/28/17 23:53	04/28/17 23:53	SAM
Mercury by Method 7470A	WG974524	1	04/27/17 13:18	04/28/17 14:56	TRB
Mercury by Method 7470A	WG974554	1	04/28/17 10:01	04/29/17 07:42	TRB
Metals (ICPMS) by Method 6020	WG974740	1	05/01/17 18:51	05/02/17 03:01	LAT
Metals (ICPMS) by Method 6020	WG974743	1	05/03/17 17:36	05/03/17 21:56	LAT
Metals (ICPMS) by Method 6020	WG974743	1	05/03/17 17:36	05/04/17 17:02	LAT
Metals (ICPMS) by Method 6020	WG974743	5	05/03/17 17:36	05/04/17 18:15	VSS
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG974800	200	04/28/17 21:39	04/28/17 21:39	DWR
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975213	200	04/30/17 02:20	04/30/17 02:20	LRL
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG975181	10	04/30/17 18:33	05/01/17 18:19	TH

MW-138 L905307-23 GW

Collected by: Scott Ude-HMI Team | Collected date/time: 04/25/17 12:25 | Received date/time: 04/27/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG974898	1	04/29/17 11:41	04/29/17 13:05	MMF
Wet Chemistry by Method 353.2	WG975894	10	05/03/17 14:49	05/03/17 14:49	DR
Wet Chemistry by Method 4500CN E-2011	WG974960	1	04/28/17 16:29	05/02/17 09:45	DR
Wet Chemistry by Method 9056A	WG974576	1	04/29/17 00:08	04/29/17 00:08	SAM
Wet Chemistry by Method 9056A	WG974576	100	04/29/17 00:53	04/29/17 00:53	SAM
Mercury by Method 7470A	WG974524	1	04/27/17 13:18	04/28/17 14:58	TRB
Mercury by Method 7470A	WG974554	1	04/28/17 10:01	04/29/17 07:44	TRB
Metals (ICPMS) by Method 6020	WG974740	1	05/01/17 18:51	05/02/17 03:04	LAT
Metals (ICPMS) by Method 6020	WG974743	1	05/03/17 17:36	05/03/17 22:00	LAT
Metals (ICPMS) by Method 6020	WG974743	1	05/03/17 17:36	05/04/17 17:06	LAT
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG974800	10	04/28/17 22:00	04/28/17 22:00	DWR
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975213	10	04/30/17 02:36	04/30/17 02:36	LRL
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG975181	5	04/30/17 18:33	05/01/17 17:26	TH

MW-98 L905307-24 GW

Collected by: Scott Ude-HMI Team | Collected date/time: 04/25/17 10:25 | Received date/time: 04/27/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG974898	1	04/29/17 11:41	04/29/17 13:05	MMF
Wet Chemistry by Method 353.2	WG975894	10	05/03/17 14:50	05/03/17 14:50	DR
Wet Chemistry by Method 9056A	WG974576	1	04/29/17 00:23	04/29/17 00:23	SAM
Wet Chemistry by Method 9056A	WG974576	100	04/29/17 01:08	04/29/17 01:08	SAM
Metals (ICPMS) by Method 6020	WG974740	1	05/01/17 18:51	05/02/17 03:08	LAT
Metals (ICPMS) by Method 6020	WG974743	1	05/03/17 17:36	05/04/17 17:09	LAT
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG974800	100	04/28/17 22:21	04/28/17 22:21	GLN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975223	100	04/30/17 00:46	04/30/17 00:46	JAH
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG975181	10	04/30/17 18:33	05/01/17 18:36	TH

MW-106 L905307-25 GW

Collected by: Scott Ude-HMI Team | Collected date/time: 04/25/17 09:25 | Received date/time: 04/27/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG974898	1	04/29/17 11:41	04/29/17 13:05	MMF
Wet Chemistry by Method 353.2	WG975894	10	05/03/17 14:52	05/03/17 14:52	DR
Wet Chemistry by Method 9056A	WG974576	1	04/29/17 00:38	04/29/17 00:38	SAM
Wet Chemistry by Method 9056A	WG974576	100	04/29/17 02:08	04/29/17 02:08	SAM
Metals (ICPMS) by Method 6020	WG974740	1	05/01/17 18:51	05/02/17 03:11	LAT
Metals (ICPMS) by Method 6020	WG974743	1	05/03/17 17:36	05/04/17 17:13	LAT
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG974807	5	05/03/17 15:15	05/03/17 15:15	ACG
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975223	50	04/30/17 01:07	04/30/17 01:07	JAH
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG975181	10	04/30/17 18:33	05/01/17 18:54	TH

MW-50 L905307-26 GW

Collected by: Scott Ude-HMI Team | Collected date/time: 04/25/17 12:00 | Received date/time: 04/27/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG974898	1	04/29/17 11:41	04/29/17 13:05	MMF
Wet Chemistry by Method 353.2	WG974947	50	05/02/17 12:34	05/02/17 12:34	DR
Wet Chemistry by Method 9056A	WG974924	1	04/29/17 15:59	04/29/17 15:59	MCG
Wet Chemistry by Method 9056A	WG974924	100	04/29/17 16:34	04/29/17 16:34	MCG
Metals (ICPMS) by Method 6020	WG974740	1	05/01/17 18:51	05/02/17 03:15	LAT
Metals (ICPMS) by Method 6020	WG974743	1	05/03/17 17:36	05/04/17 17:16	LAT

MW-50 L905307-26 GW

Collected by: Scott Ude-HMI Team
Collected date/time: 04/25/17 12:00
Received date/time: 04/27/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975223	1	04/30/17 01:27	04/30/17 01:27	JAH
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG975181	1	04/30/17 18:33	05/01/17 13:00	TH

RW-1 L905307-27 GW

Collected by: Scott Ude-HMI Team
Collected date/time: 04/25/17 13:05
Received date/time: 04/27/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG974899	1	04/29/17 11:48	04/29/17 13:57	MMF
Wet Chemistry by Method 353.2	WG974947	10	05/02/17 12:35	05/02/17 12:35	DR
Wet Chemistry by Method 9056A	WG974924	1	04/29/17 16:11	04/29/17 16:11	MCG
Wet Chemistry by Method 9056A	WG974924	100	04/29/17 16:23	04/29/17 16:23	MCG
Wet Chemistry by Method 9056A	WG975534	10	05/02/17 16:22	05/02/17 16:22	KCF
Metals (ICPMS) by Method 6020	WG974740	1	05/01/17 18:51	05/02/17 03:19	LAT
Metals (ICPMS) by Method 6020	WG974743	1	05/03/17 17:36	05/04/17 18:01	VSS
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG974807	1	05/03/17 15:37	05/03/17 15:37	ACG
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975223	10	04/30/17 01:48	04/30/17 01:48	JAH
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG975181	20	04/30/17 18:33	05/01/17 19:29	TH

MW-91 L905307-28 GW

Collected by: Scott Ude-HMI Team
Collected date/time: 04/25/17 13:50
Received date/time: 04/27/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG974899	1	04/29/17 11:48	04/29/17 13:57	MMF
Wet Chemistry by Method 353.2	WG974947	10	05/02/17 12:36	05/02/17 12:36	DR
Wet Chemistry by Method 9056A	WG974924	1	04/29/17 17:09	04/29/17 17:09	MCG
Wet Chemistry by Method 9056A	WG974924	100	04/29/17 18:08	04/29/17 18:08	MCG
Metals (ICPMS) by Method 6020	WG974740	1	05/01/17 18:51	05/02/17 03:22	LAT
Metals (ICPMS) by Method 6020	WG974743	1	05/03/17 17:36	05/04/17 18:04	VSS
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG974807	5	05/03/17 15:59	05/03/17 15:59	ACG
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975227	100	04/29/17 21:04	04/29/17 21:04	BMB
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG975181	10	04/30/17 18:33	05/01/17 19:11	TH

MW-90 L905307-29 GW

Collected by: Scott Ude-HMI Team
Collected date/time: 04/25/17 14:30
Received date/time: 04/27/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG974899	1	04/29/17 11:48	04/29/17 13:57	MMF
Wet Chemistry by Method 353.2	WG974947	10	05/02/17 12:37	05/02/17 12:37	DR
Wet Chemistry by Method 9056A	WG974924	1	04/29/17 17:21	04/29/17 17:21	MCG
Wet Chemistry by Method 9056A	WG974924	100	04/29/17 18:19	04/29/17 18:19	MCG
Metals (ICPMS) by Method 6020	WG974740	1	05/01/17 18:51	05/02/17 03:33	LAT
Metals (ICPMS) by Method 6020	WG974743	1	05/03/17 17:36	05/04/17 18:08	VSS
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG974807	1	04/28/17 15:35	04/28/17 15:35	LRL
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975227	1	04/29/17 21:20	04/29/17 21:20	BMB
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG975181	5	04/30/17 18:33	05/01/17 17:08	TH

MW-96 L905307-30 GW

Collected by: Scott Ude-HMI Team
Collected date/time: 04/25/17 15:10
Received date/time: 04/27/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG974899	1	04/29/17 11:48	04/29/17 13:57	MMF
Wet Chemistry by Method 353.2	WG974947	10	05/02/17 12:38	05/02/17 12:38	DR
Wet Chemistry by Method 9056A	WG974924	1	04/29/17 17:33	04/29/17 17:33	MCG
Wet Chemistry by Method 9056A	WG974924	100	04/29/17 18:31	04/29/17 18:31	MCG
Wet Chemistry by Method 9056A	WG975534	10	05/02/17 17:14	05/02/17 17:14	KCF
Metals (ICPMS) by Method 6020	WG974740	1	05/01/17 18:51	05/02/17 03:36	LAT
Metals (ICPMS) by Method 6020	WG974743	1	05/03/17 17:36	05/04/17 18:11	VSS
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG974807	5	05/03/17 16:21	05/03/17 16:21	ACG
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975227	1000	05/05/17 01:13	05/05/17 01:13	JHH
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975227	50	04/29/17 21:37	04/29/17 21:37	BMB
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG975181	10	04/30/17 18:33	05/01/17 18:01	TH

DUP-REST-02 L905307-31 GW

Collected by: Scott Ude-HMI Team
Collected date/time: 04/25/17 12:00
Received date/time: 04/27/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG974899	1	04/29/17 11:48	04/29/17 13:57	MMF
Wet Chemistry by Method 353.2	WG974947	10	05/02/17 12:39	05/02/17 12:39	DR
Wet Chemistry by Method 9056A	WG974924	1	04/29/17 17:44	04/29/17 17:44	MCG
Wet Chemistry by Method 9056A	WG974924	100	04/29/17 18:43	04/29/17 18:43	MCG
Wet Chemistry by Method 9056A	WG975534	10	05/02/17 17:31	05/02/17 17:31	KCF
Metals (ICPMS) by Method 6020	WG974740	1	05/01/17 18:51	05/02/17 03:40	LAT
Metals (ICPMS) by Method 6020	WG974743	1	05/03/17 17:36	05/04/17 15:52	LAT
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG974807	1	05/03/17 16:48	05/03/17 16:48	ACG
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975227	5	04/29/17 21:54	04/29/17 21:54	BMB
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG975181	10	04/30/17 18:33	05/01/17 17:43	TH

EB-REST-02 L905307-32 GW

Collected by: Scott Ude-HMI Team
Collected date/time: 04/25/17 15:50
Received date/time: 04/27/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG974899	1	04/29/17 11:48	04/29/17 13:57	MMF
Wet Chemistry by Method 353.2	WG974947	10	05/02/17 12:40	05/02/17 12:40	DR
Wet Chemistry by Method 9056A	WG974924	1	04/29/17 17:56	04/29/17 17:56	MCG
Wet Chemistry by Method 9056A	WG975534	1	05/02/17 17:49	05/02/17 17:49	KCF
Metals (ICPMS) by Method 6020	WG974740	1	05/01/17 18:51	05/02/17 03:44	LAT
Metals (ICPMS) by Method 6020	WG976346	1	05/04/17 13:20	05/05/17 05:56	LAT
Metals (ICPMS) by Method 6020	WG976346	1	05/04/17 13:20	05/05/17 13:27	LAT
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG974807	1	04/28/17 20:03	04/28/17 20:03	LRL
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975239	1	04/30/17 22:37	04/30/17 22:37	LRL
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG975181	1	04/30/17 18:33	05/01/17 13:18	TH

TRIP BLANK-REST-04 L905307-34 GW

Collected by: Scott Ude-HMI Team
Collected date/time: 04/25/17 00:00
Received date/time: 04/27/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975237	1	04/30/17 13:04	04/30/17 13:04	JHH

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
Technical Service Representative

Sample Handling and Receiving

The following analysis were performed from an unpreserved, insufficiently or inadequately preserved sample.

ESC Sample ID	Project Sample ID	Method
L905307-03	KWB-11A	4500CN E-2011

VOC pH outside of method requirement.

ESC Sample ID	Project Sample ID	Method
L905307-06	MW-136	8015D/GRO
L905307-14	MW-104	8015D/GRO
L905307-21	MW-43	8015D/GRO
L905307-22	MW-137	8015D/GRO

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Dissolved Solids	2400		2.82	10.0	1	04/30/2017 13:12	WG974889

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	0.0510	J	0.0197	0.100	1	05/01/2017 16:26	WG974945

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	05/02/2017 09:25	WG974960

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	574		2.60	50.0	50	04/28/2017 18:17	WG974575
Fluoride	0.623		0.00990	0.100	1	04/28/2017 17:30	WG974575
Sulfate	442		3.87	250	50	04/28/2017 18:17	WG974575

Mercury by Method 7470A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Mercury	U		0.0000490	0.000200	1	04/28/2017 15:41	WG974464
Mercury,Dissolved	U		0.0000490	0.000200	1	04/28/2017 14:24	WG974524

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.00129	J	0.000250	0.00200	1	05/01/2017 18:24	WG974741
Arsenic,Dissolved	0.000904	J	0.000250	0.00200	1	05/01/2017 20:09	WG974738
Barium	0.106		0.000360	0.00500	1	05/01/2017 18:24	WG974741
Barium,Dissolved	0.0870		0.000360	0.00500	1	05/01/2017 20:09	WG974738
Boron	0.632		0.00150	0.0200	1	05/01/2017 18:24	WG974741
Boron,Dissolved	0.600		0.00150	0.0200	1	05/01/2017 20:09	WG974738
Cadmium	U		0.000160	0.00100	1	05/01/2017 18:24	WG974741
Cadmium,Dissolved	U		0.000160	0.00100	1	05/01/2017 20:09	WG974738
Calcium	237		0.0460	1.00	1	05/01/2017 18:24	WG974741
Chromium	0.000851	J	0.000540	0.00200	1	05/01/2017 18:24	WG974741
Chromium,Dissolved	U		0.000540	0.00200	1	05/01/2017 20:09	WG974738
Cobalt	0.000264	J	0.000260	0.00200	1	05/01/2017 18:24	WG974741
Cobalt,Dissolved	U		0.000260	0.00200	1	05/01/2017 20:09	WG974738
Iron	1.07		0.0150	0.100	1	05/01/2017 18:24	WG974741
Iron,Dissolved	0.0772	J	0.0150	0.100	1	05/01/2017 20:09	WG974738
Lead	0.00495		0.000240	0.00200	1	05/01/2017 18:24	WG974741
Lead,Dissolved	0.000556	J	0.000240	0.00200	1	05/01/2017 20:09	WG974738
Manganese	1.83		0.000250	0.00500	1	05/01/2017 18:24	WG974741
Manganese,Dissolved	1.77		0.000250	0.00500	1	05/01/2017 20:09	WG974738
Nickel	0.00120	J	0.000350	0.00200	1	05/01/2017 18:24	WG974741
Nickel,Dissolved	0.000663	J	0.000350	0.00200	1	05/01/2017 20:09	WG974738
Potassium	0.414	J	0.0370	1.00	1	05/01/2017 18:24	WG974741
Selenium	U		0.000380	0.00200	1	05/01/2017 18:24	WG974741
Selenium,Dissolved	U		0.000380	0.00200	1	05/01/2017 20:09	WG974738
Sodium	320		0.110	1.00	1	05/01/2017 18:24	WG974741

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Uranium	U		0.000330	0.0100	1	05/01/2017 18:24	WG974741
Uranium,Dissolved	U		0.000330	0.0100	1	05/02/2017 06:33	WG974738
Vanadium	0.00157	J	0.000180	0.00500	1	05/01/2017 18:24	WG974741
Vanadium,Dissolved	0.00112	J	0.000180	0.00500	1	05/01/2017 20:09	WG974738

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		1.00	5.00	100	05/04/2017 23:10	WG976754
Benzene	5.62		0.0331	0.100	100	05/04/2017 23:10	WG976754
Bromodichloromethane	U		0.0380	0.100	100	05/04/2017 23:10	WG976754
Bromoform	U		0.0469	0.100	100	05/04/2017 23:10	WG976754
Bromomethane	U		0.0866	0.500	100	05/04/2017 23:10	WG976754
n-Butylbenzene	U		0.0361	0.100	100	05/04/2017 23:10	WG976754
sec-Butylbenzene	U		0.0365	0.100	100	05/04/2017 23:10	WG976754
Carbon disulfide	U		0.0275	0.100	100	05/04/2017 23:10	WG976754
Carbon tetrachloride	U		0.0379	0.100	100	05/04/2017 23:10	WG976754
Chlorobenzene	U		0.0348	0.100	100	05/04/2017 23:10	WG976754
Chlorodibromomethane	U		0.0327	0.100	100	05/04/2017 23:10	WG976754
Chloroethane	U		0.0453	0.500	100	05/04/2017 23:10	WG976754
Chloroform	U		0.0324	0.500	100	05/04/2017 23:10	WG976754
Chloromethane	U		0.0276	0.250	100	05/04/2017 23:10	WG976754
1,2-Dibromoethane	U		0.0381	0.100	100	05/04/2017 23:10	WG976754
1,1-Dichloroethane	U		0.0259	0.100	100	05/04/2017 23:10	WG976754
1,2-Dichloroethane	U		0.0361	0.100	100	05/04/2017 23:10	WG976754
1,1-Dichloroethene	U		0.0398	0.100	100	05/04/2017 23:10	WG976754
cis-1,2-Dichloroethene	U		0.0260	0.100	100	05/04/2017 23:10	WG976754
trans-1,2-Dichloroethene	U		0.0396	0.100	100	05/04/2017 23:10	WG976754
1,2-Dichloropropane	U		0.0306	0.100	100	05/04/2017 23:10	WG976754
cis-1,3-Dichloropropene	U		0.0418	0.100	100	05/04/2017 23:10	WG976754
trans-1,3-Dichloropropene	U		0.0419	0.100	100	05/04/2017 23:10	WG976754
Ethylbenzene	1.24		0.0384	0.100	100	05/04/2017 23:10	WG976754
Isopropylbenzene	0.0467	J	0.0326	0.100	100	05/04/2017 23:10	WG976754
p-Isopropyltoluene	U		0.0350	0.100	100	05/04/2017 23:10	WG976754
2-Butanone (MEK)	U		0.393	1.00	100	05/04/2017 23:10	WG976754
2-Hexanone	U		0.382	1.00	100	05/04/2017 23:10	WG976754
Methylene Chloride	U		0.100	0.500	100	05/04/2017 23:10	WG976754
4-Methyl-2-pentanone (MIBK)	U		0.214	1.00	100	05/04/2017 23:10	WG976754
Methyl tert-butyl ether	0.129		0.0367	0.100	100	05/04/2017 23:10	WG976754
Naphthalene	0.141	J	0.100	0.500	100	05/04/2017 23:10	WG976754
n-Propylbenzene	0.0852	J	0.0349	0.100	100	05/04/2017 23:10	WG976754
Styrene	U		0.0307	0.100	100	05/04/2017 23:10	WG976754
1,1,1,2-Tetrachloroethane	U		0.0385	0.100	100	05/04/2017 23:10	WG976754
1,1,2,2-Tetrachloroethane	U		0.0130	0.100	100	05/04/2017 23:10	WG976754
Tetrachloroethene	U		0.0372	0.100	100	05/04/2017 23:10	WG976754
Toluene	0.747		0.0412	0.100	100	05/04/2017 23:10	WG976754
1,1,1-Trichloroethane	U		0.0319	0.100	100	05/04/2017 23:10	WG976754
1,1,2-Trichloroethane	U		0.0383	0.100	100	05/04/2017 23:10	WG976754
Trichloroethene	U		0.0398	0.100	100	05/04/2017 23:10	WG976754
1,2,4-Trimethylbenzene	0.380		0.0373	0.100	100	05/04/2017 23:10	WG976754
1,3,5-Trimethylbenzene	0.0863	J	0.0387	0.100	100	05/04/2017 23:10	WG976754
Vinyl chloride	U		0.0259	0.100	100	05/04/2017 23:10	WG976754
o-Xylene	0.145		0.0341	0.100	100	05/04/2017 23:10	WG976754
m&p-Xylene	1.92		0.0719	0.200	100	05/04/2017 23:10	WG976754
Xylenes, Total	2.07		0.106	0.300	100	05/04/2017 23:10	WG976754
(S) Toluene-d8	*95.3*			*80.0-120*		*05/04/2017 23:10*	WG976754

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) Dibromofluoromethane	*80.9*			*76.0-123*		*05/04/2017 23:10*	WG976754
(S) 4-Bromofluorobenzene	*95.2*			*80.0-120*		*05/04/2017 23:10*	WG976754

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	3.41		0.0247	0.100	1	05/01/2017 12:11	WG975178
(S) o-Terphenyl	*136*			*31.0-160*		*05/01/2017 12:11*	WG975178

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Dissolved Solids	2540		2.82	10.0	1	04/30/2017 13:12	WG974889

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	0.0600	J	0.0197	0.100	1	05/01/2017 16:31	WG974945

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	05/02/2017 09:28	WG974960

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	305		1.04	20.0	20	04/30/2017 23:54	WG975157
Fluoride	0.822		0.00990	0.100	1	04/30/2017 23:17	WG975157
Sulfate	1070		1.55	100	20	04/30/2017 23:54	WG975157

Mercury by Method 7470A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Mercury	U		0.0000490	0.000200	1	04/28/2017 15:44	WG974464
Mercury,Dissolved	U		0.0000490	0.000200	1	04/28/2017 14:26	WG974524

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.00307		0.000250	0.00200	1	05/01/2017 18:28	WG974741
Arsenic,Dissolved	0.00204		0.000250	0.00200	1	05/01/2017 20:12	WG974738
Barium	0.0650		0.000360	0.00500	1	05/01/2017 18:28	WG974741
Barium,Dissolved	0.0440		0.000360	0.00500	1	05/01/2017 20:12	WG974738
Boron	0.436		0.00150	0.0200	1	05/01/2017 18:28	WG974741
Boron,Dissolved	0.405		0.00150	0.0200	1	05/01/2017 20:12	WG974738
Cadmium	U		0.000160	0.00100	1	05/01/2017 18:28	WG974741
Cadmium,Dissolved	U		0.000160	0.00100	1	05/01/2017 20:12	WG974738
Calcium	306		0.0460	1.00	1	05/01/2017 18:28	WG974741
Chromium	U		0.000540	0.00200	1	05/01/2017 18:28	WG974741
Chromium,Dissolved	U		0.000540	0.00200	1	05/01/2017 20:12	WG974738
Cobalt	0.00206		0.000260	0.00200	1	05/01/2017 18:28	WG974741
Cobalt,Dissolved	U		0.000260	0.00200	1	05/01/2017 20:12	WG974738
Iron	1.47		0.0150	0.100	1	05/01/2017 18:28	WG974741
Iron,Dissolved	U		0.0150	0.100	1	05/01/2017 20:12	WG974738
Lead	0.000707	J	0.000240	0.00200	1	05/01/2017 18:28	WG974741
Lead,Dissolved	U		0.000240	0.00200	1	05/01/2017 20:12	WG974738
Manganese	3.44		0.000250	0.00500	1	05/01/2017 18:28	WG974741
Manganese,Dissolved	3.25		0.000250	0.00500	1	05/01/2017 20:12	WG974738
Nickel	0.00746		0.000350	0.00200	1	05/01/2017 18:28	WG974741
Nickel,Dissolved	0.00101	J	0.000350	0.00200	1	05/01/2017 20:12	WG974738
Potassium	0.225	J	0.0370	1.00	1	05/01/2017 18:28	WG974741
Selenium	U		0.000380	0.00200	1	05/01/2017 18:28	WG974741
Selenium,Dissolved	U		0.000380	0.00200	1	05/01/2017 20:12	WG974738
Sodium	230		0.110	1.00	1	05/01/2017 18:28	WG974741

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Uranium	0.00159	J	0.000330	0.0100	1	05/01/2017 18:28	WG974741
Uranium,Dissolved	0.00167	J	0.000330	0.0100	1	05/02/2017 06:36	WG974738
Vanadium	0.00102	J	0.000180	0.00500	1	05/01/2017 18:28	WG974741
Vanadium,Dissolved	0.000930	J	0.000180	0.00500	1	05/01/2017 20:12	WG974738

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		0.0100	0.0500	1	05/04/2017 19:58	WG976754
Benzene	0.0135		0.000331	0.00100	1	05/04/2017 19:58	WG976754
Bromodichloromethane	U		0.000380	0.00100	1	05/04/2017 19:58	WG976754
Bromoform	U		0.000469	0.00100	1	05/04/2017 19:58	WG976754
Bromomethane	U		0.000866	0.00500	1	05/04/2017 19:58	WG976754
n-Butylbenzene	U		0.000361	0.00100	1	05/04/2017 19:58	WG976754
sec-Butylbenzene	0.00714		0.000365	0.00100	1	05/04/2017 19:58	WG976754
Carbon disulfide	U		0.000275	0.00100	1	05/04/2017 19:58	WG976754
Carbon tetrachloride	U		0.000379	0.00100	1	05/04/2017 19:58	WG976754
Chlorobenzene	U		0.000348	0.00100	1	05/04/2017 19:58	WG976754
Chlorodibromomethane	U		0.000327	0.00100	1	05/04/2017 19:58	WG976754
Chloroethane	U		0.000453	0.00500	1	05/04/2017 19:58	WG976754
Chloroform	U		0.000324	0.00500	1	05/04/2017 19:58	WG976754
Chloromethane	U		0.000276	0.00250	1	05/04/2017 19:58	WG976754
1,2-Dibromoethane	U		0.000381	0.00100	1	05/04/2017 19:58	WG976754
1,1-Dichloroethane	U		0.000259	0.00100	1	05/04/2017 19:58	WG976754
1,2-Dichloroethane	U		0.000361	0.00100	1	05/04/2017 19:58	WG976754
1,1-Dichloroethene	U		0.000398	0.00100	1	05/04/2017 19:58	WG976754
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	05/04/2017 19:58	WG976754
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	05/04/2017 19:58	WG976754
1,2-Dichloropropane	U		0.000306	0.00100	1	05/04/2017 19:58	WG976754
cis-1,3-Dichloropropene	U		0.000418	0.00100	1	05/04/2017 19:58	WG976754
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	05/04/2017 19:58	WG976754
Ethylbenzene	0.00858		0.000384	0.00100	1	05/04/2017 19:58	WG976754
Isopropylbenzene	0.0136		0.000326	0.00100	1	05/04/2017 19:58	WG976754
p-Isopropyltoluene	U		0.000350	0.00100	1	05/04/2017 19:58	WG976754
2-Butanone (MEK)	0.0161		0.00393	0.0100	1	05/04/2017 19:58	WG976754
2-Hexanone	U		0.00382	0.0100	1	05/04/2017 19:58	WG976754
Methylene Chloride	U		0.00100	0.00500	1	05/04/2017 19:58	WG976754
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	05/04/2017 19:58	WG976754
Methyl tert-butyl ether	0.00678		0.000367	0.00100	1	05/04/2017 19:58	WG976754
Naphthalene	0.00409	J	0.00100	0.00500	1	05/04/2017 19:58	WG976754
n-Propylbenzene	0.00992		0.000349	0.00100	1	05/04/2017 19:58	WG976754
Styrene	U		0.000307	0.00100	1	05/04/2017 19:58	WG976754
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	05/04/2017 19:58	WG976754
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	05/04/2017 19:58	WG976754
Tetrachloroethene	U		0.000372	0.00100	1	05/04/2017 19:58	WG976754
Toluene	U		0.000412	0.00100	1	05/04/2017 19:58	WG976754
1,1,1-Trichloroethane	U		0.000319	0.00100	1	05/04/2017 19:58	WG976754
1,1,2-Trichloroethane	U		0.000383	0.00100	1	05/04/2017 19:58	WG976754
Trichloroethene	U		0.000398	0.00100	1	05/04/2017 19:58	WG976754
1,2,4-Trimethylbenzene	0.0115		0.000373	0.00100	1	05/04/2017 19:58	WG976754
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	05/04/2017 19:58	WG976754
Vinyl chloride	U		0.000259	0.00100	1	05/04/2017 19:58	WG976754
o-Xylene	0.000576	J	0.000341	0.00100	1	05/04/2017 19:58	WG976754
m&p-Xylene	0.00700		0.000719	0.00200	1	05/04/2017 19:58	WG976754
Xylenes, Total	0.00757		0.00106	0.00300	1	05/04/2017 19:58	WG976754
(S) Toluene-d8	*98.4*			*80.0-120*		*05/04/2017 19:58*	WG976754

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) Dibromofluoromethane	*80.3*			*76.0-123*		*05/04/2017 19:58*	WG976754
(S) 4-Bromofluorobenzene	*84.2*			*80.0-120*		*05/04/2017 19:58*	WG976754

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	1.40		0.0247	0.100	1	05/01/2017 12:27	WG975178
(S) o-Terphenyl	*110*			*31.0-160*		*05/01/2017 12:27*	WG975178

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Dissolved Solids	4960		2.82	10.0	1	04/30/2017 13:12	WG974889

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	33.9		0.394	2.00	20	05/01/2017 16:33	WG974945

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	05/02/2017 09:29	WG974960

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	1310		2.60	50.0	50	05/01/2017 00:05	WG975157
Fluoride	0.487		0.00990	0.100	1	04/30/2017 23:29	WG975157
Sulfate	1540		3.87	250	50	05/01/2017 00:05	WG975157

Mercury by Method 7470A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Mercury	U		0.0000490	0.000200	1	04/28/2017 15:46	WG974464
Mercury,Dissolved	U		0.0000490	0.000200	1	04/28/2017 14:28	WG974524

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.00183	J	0.000250	0.00200	1	05/01/2017 18:31	WG974741
Arsenic,Dissolved	0.00194	J	0.000250	0.00200	1	05/01/2017 20:16	WG974738
Barium	0.0214		0.000360	0.00500	1	05/01/2017 18:31	WG974741
Barium,Dissolved	0.0205		0.000360	0.00500	1	05/01/2017 20:16	WG974738
Boron	0.412		0.00150	0.0200	1	05/01/2017 18:31	WG974741
Boron,Dissolved	0.386		0.00150	0.0200	1	05/01/2017 20:16	WG974738
Cadmium	U		0.000160	0.00100	1	05/01/2017 18:31	WG974741
Cadmium,Dissolved	U		0.000160	0.00100	1	05/01/2017 20:16	WG974738
Calcium	607		0.0460	1.00	1	05/01/2017 18:31	WG974741
Chromium	U		0.000540	0.00200	1	05/01/2017 18:31	WG974741
Chromium,Dissolved	U		0.000540	0.00200	1	05/01/2017 20:16	WG974738
Cobalt	0.00126	J	0.000260	0.00200	1	05/01/2017 18:31	WG974741
Cobalt,Dissolved	0.00140	J	0.000260	0.00200	1	05/01/2017 20:16	WG974738
Iron	U		0.0150	0.100	1	05/01/2017 18:31	WG974741
Iron,Dissolved	U		0.0150	0.100	1	05/01/2017 20:16	WG974738
Lead	0.00281		0.000240	0.00200	1	05/01/2017 18:31	WG974741
Lead,Dissolved	0.00294		0.000240	0.00200	1	05/01/2017 20:16	WG974738
Manganese	0.243		0.000250	0.00500	1	05/01/2017 18:31	WG974741
Manganese,Dissolved	0.240		0.000250	0.00500	1	05/01/2017 20:16	WG974738
Nickel	0.00431		0.000350	0.00200	1	05/01/2017 18:31	WG974741
Nickel,Dissolved	0.00478		0.000350	0.00200	1	05/01/2017 20:16	WG974738
Potassium	0.903	J	0.0370	1.00	1	05/01/2017 18:31	WG974741
Selenium	0.00536		0.000380	0.00200	1	05/01/2017 18:31	WG974741
Selenium,Dissolved	0.00483		0.000380	0.00200	1	05/01/2017 20:16	WG974738
Sodium	372		0.110	1.00	1	05/01/2017 18:31	WG974741

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Uranium	0.0187		0.000330	0.0100	1	05/01/2017 18:31	WG974741
Uranium,Dissolved	0.0196		0.000330	0.0100	1	05/02/2017 06:40	WG974738
Vanadium	0.0113		0.000180	0.00500	1	05/01/2017 18:31	WG974741
Vanadium,Dissolved	0.0119		0.000180	0.00500	1	05/01/2017 20:16	WG974738

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	0.155		0.0314	0.100	1	04/28/2017 17:27	WG974800
(S) a,a,a-Trifluorotoluene(FID)	*102*			*77.0-122*		*04/28/2017 17:27*	WG974800

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		0.0100	0.0500	1	05/04/2017 20:13	WG976754
Benzene	0.00359		0.000331	0.00100	1	05/04/2017 20:13	WG976754
Bromodichloromethane	U		0.000380	0.00100	1	05/04/2017 20:13	WG976754
Bromoform	U		0.000469	0.00100	1	05/04/2017 20:13	WG976754
Bromomethane	U		0.000866	0.00500	1	05/04/2017 20:13	WG976754
n-Butylbenzene	U		0.000361	0.00100	1	05/04/2017 20:13	WG976754
sec-Butylbenzene	0.00419		0.000365	0.00100	1	05/04/2017 20:13	WG976754
Carbon disulfide	U		0.000275	0.00100	1	05/04/2017 20:13	WG976754
Carbon tetrachloride	U		0.000379	0.00100	1	05/04/2017 20:13	WG976754
Chlorobenzene	U		0.000348	0.00100	1	05/04/2017 20:13	WG976754
Chlorodibromomethane	U		0.000327	0.00100	1	05/04/2017 20:13	WG976754
Chloroethane	U		0.000453	0.00500	1	05/04/2017 20:13	WG976754
Chloroform	U		0.000324	0.00500	1	05/04/2017 20:13	WG976754
Chloromethane	U		0.000276	0.00250	1	05/04/2017 20:13	WG976754
1,2-Dibromoethane	U		0.000381	0.00100	1	05/04/2017 20:13	WG976754
1,1-Dichloroethane	U		0.000259	0.00100	1	05/04/2017 20:13	WG976754
1,2-Dichloroethane	0.000409	J	0.000361	0.00100	1	05/04/2017 20:13	WG976754
1,1-Dichloroethene	U		0.000398	0.00100	1	05/04/2017 20:13	WG976754
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	05/04/2017 20:13	WG976754
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	05/04/2017 20:13	WG976754
1,2-Dichloropropane	U		0.000306	0.00100	1	05/04/2017 20:13	WG976754
cis-1,3-Dichloropropene	U		0.000418	0.00100	1	05/04/2017 20:13	WG976754
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	05/04/2017 20:13	WG976754
Ethylbenzene	U		0.000384	0.00100	1	05/04/2017 20:13	WG976754
Isopropylbenzene	U		0.000326	0.00100	1	05/04/2017 20:13	WG976754
p-Isopropyltoluene	U		0.000350	0.00100	1	05/04/2017 20:13	WG976754
2-Butanone (MEK)	U		0.00393	0.0100	1	05/04/2017 20:13	WG976754
2-Hexanone	U		0.00382	0.0100	1	05/04/2017 20:13	WG976754
Methylene Chloride	U		0.00100	0.00500	1	05/04/2017 20:13	WG976754
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	05/04/2017 20:13	WG976754
Methyl tert-butyl ether	U		0.000367	0.00100	1	05/04/2017 20:13	WG976754
Naphthalene	0.00841		0.00100	0.00500	1	05/04/2017 20:13	WG976754
n-Propylbenzene	U		0.000349	0.00100	1	05/04/2017 20:13	WG976754
Styrene	U		0.000307	0.00100	1	05/04/2017 20:13	WG976754
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	05/04/2017 20:13	WG976754
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	05/04/2017 20:13	WG976754
Tetrachloroethene	U		0.000372	0.00100	1	05/04/2017 20:13	WG976754
Toluene	U		0.000412	0.00100	1	05/04/2017 20:13	WG976754
1,1,1-Trichloroethane	U		0.000319	0.00100	1	05/04/2017 20:13	WG976754
1,1,2-Trichloroethane	U		0.000383	0.00100	1	05/04/2017 20:13	WG976754
Trichloroethene	U		0.000398	0.00100	1	05/04/2017 20:13	WG976754

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
1,2,4-Trimethylbenzene	0.0142		0.000373	0.00100	1	05/04/2017 20:13	WG976754
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	05/04/2017 20:13	WG976754
Vinyl chloride	U		0.000259	0.00100	1	05/04/2017 20:13	WG976754
o-Xylene	U		0.000341	0.00100	1	05/04/2017 20:13	WG976754
m&p-Xylene	U		0.000719	0.00200	1	05/04/2017 20:13	WG976754
Xylenes, Total	U		0.00106	0.00300	1	05/04/2017 20:13	WG976754
(S) Toluene-d8	*96.4*			*80.0-120*		*05/04/2017 20:13*	WG976754
(S) Dibromofluoromethane	*83.7*			*76.0-123*		*05/04/2017 20:13*	WG976754
(S) 4-Bromofluorobenzene	*93.6*			*80.0-120*		*05/04/2017 20:13*	WG976754

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	0.511		0.0247	0.100	1	05/01/2017 12:44	WG975178
(S) o-Terphenyl	*91.0*			*31.0-160*		*05/01/2017 12:44*	WG975178

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Dissolved Solids	2710		2.82	10.0	1	04/30/2017 13:12	WG974889

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	3.48		0.0197	0.100	1	05/01/2017 16:34	WG974945

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	05/02/2017 09:30	WG974960

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	291		2.60	50.0	50	05/01/2017 00:17	WG975157
Fluoride	0.369		0.00990	0.100	1	04/30/2017 23:41	WG975157
Sulfate	1660		3.87	250	50	05/01/2017 00:17	WG975157

Mercury by Method 7470A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Mercury	U		0.0000490	0.000200	1	04/28/2017 15:48	WG974464
Mercury,Dissolved	U		0.0000490	0.000200	1	04/28/2017 14:31	WG974524

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.00126	J	0.000250	0.00200	1	05/01/2017 18:35	WG974741
Arsenic,Dissolved	0.00130	J	0.000250	0.00200	1	05/01/2017 20:19	WG974738
Barium	0.0138		0.000360	0.00500	1	05/01/2017 18:35	WG974741
Barium,Dissolved	0.0123		0.000360	0.00500	1	05/01/2017 20:19	WG974738
Boron	0.121		0.00150	0.0200	1	05/01/2017 18:35	WG974741
Boron,Dissolved	0.0995		0.00150	0.0200	1	05/01/2017 20:19	WG974738
Cadmium	U		0.000160	0.00100	1	05/01/2017 18:35	WG974741
Cadmium,Dissolved	U		0.000160	0.00100	1	05/01/2017 20:19	WG974738
Calcium	479		0.0460	1.00	1	05/01/2017 18:35	WG974741
Chromium	U		0.000540	0.00200	1	05/01/2017 18:35	WG974741
Chromium,Dissolved	0.000579	J	0.000540	0.00200	1	05/01/2017 20:19	WG974738
Cobalt	U		0.000260	0.00200	1	05/01/2017 18:35	WG974741
Cobalt,Dissolved	U		0.000260	0.00200	1	05/01/2017 20:19	WG974738
Iron	U		0.0150	0.100	1	05/01/2017 18:35	WG974741
Iron,Dissolved	U		0.0150	0.100	1	05/01/2017 20:19	WG974738
Lead	U		0.000240	0.00200	1	05/01/2017 18:35	WG974741
Lead,Dissolved	U		0.000240	0.00200	1	05/01/2017 20:19	WG974738
Manganese	0.000954	J	0.000250	0.00500	1	05/01/2017 18:35	WG974741
Manganese,Dissolved	0.000589	J	0.000250	0.00500	1	05/01/2017 20:19	WG974738
Nickel	U		0.000350	0.00200	1	05/01/2017 18:35	WG974741
Nickel,Dissolved	U		0.000350	0.00200	1	05/01/2017 20:19	WG974738
Potassium	2.37		0.0370	1.00	1	05/01/2017 18:35	WG974741
Selenium	0.00959		0.000380	0.00200	1	05/01/2017 18:35	WG974741
Selenium,Dissolved	0.00905		0.000380	0.00200	1	05/01/2017 20:19	WG974738
Sodium	89.5		0.110	1.00	1	05/01/2017 18:35	WG974741

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Uranium	0.0113		0.000330	0.0100	1	05/01/2017 18:35	WG974741
Uranium,Dissolved	0.0114		0.000330	0.0100	1	05/02/2017 06:43	WG974738
Vanadium	0.00846		0.000180	0.00500	1	05/01/2017 18:35	WG974741
Vanadium,Dissolved	0.00855		0.000180	0.00500	1	05/01/2017 20:19	WG974738

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
TPH (GC/FID) Low Fraction	U		0.0314	0.100	1	04/28/2017 17:48	WG974800
(S) α,α,α-Trifluorotoluene(FID)	*103*			*77.0-122*		*04/28/2017 17:48*	WG974800

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		0.0100	0.0500	1	05/04/2017 20:27	WG976754
Benzene	U		0.000331	0.00100	1	05/04/2017 20:27	WG976754
Bromodichloromethane	U		0.000380	0.00100	1	05/04/2017 20:27	WG976754
Bromoform	U		0.000469	0.00100	1	05/04/2017 20:27	WG976754
Bromomethane	U		0.000866	0.00500	1	05/04/2017 20:27	WG976754
n-Butylbenzene	U		0.000361	0.00100	1	05/04/2017 20:27	WG976754
sec-Butylbenzene	U		0.000365	0.00100	1	05/04/2017 20:27	WG976754
Carbon disulfide	U		0.000275	0.00100	1	05/04/2017 20:27	WG976754
Carbon tetrachloride	U		0.000379	0.00100	1	05/04/2017 20:27	WG976754
Chlorobenzene	U		0.000348	0.00100	1	05/04/2017 20:27	WG976754
Chlorodibromomethane	U		0.000327	0.00100	1	05/04/2017 20:27	WG976754
Chloroethane	U		0.000453	0.00500	1	05/04/2017 20:27	WG976754
Chloroform	U		0.000324	0.00500	1	05/04/2017 20:27	WG976754
Chloromethane	U		0.000276	0.00250	1	05/04/2017 20:27	WG976754
1,2-Dibromoethane	U		0.000381	0.00100	1	05/04/2017 20:27	WG976754
1,1-Dichloroethane	U		0.000259	0.00100	1	05/04/2017 20:27	WG976754
1,2-Dichloroethane	U		0.000361	0.00100	1	05/04/2017 20:27	WG976754
1,1-Dichloroethene	U		0.000398	0.00100	1	05/04/2017 20:27	WG976754
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	05/04/2017 20:27	WG976754
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	05/04/2017 20:27	WG976754
1,2-Dichloropropane	U		0.000306	0.00100	1	05/04/2017 20:27	WG976754
cis-1,3-Dichloropropene	U		0.000418	0.00100	1	05/04/2017 20:27	WG976754
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	05/04/2017 20:27	WG976754
Ethylbenzene	U		0.000384	0.00100	1	05/04/2017 20:27	WG976754
Isopropylbenzene	U		0.000326	0.00100	1	05/04/2017 20:27	WG976754
p-Isopropyltoluene	U		0.000350	0.00100	1	05/04/2017 20:27	WG976754
2-Butanone (MEK)	U		0.00393	0.0100	1	05/04/2017 20:27	WG976754
2-Hexanone	U		0.00382	0.0100	1	05/04/2017 20:27	WG976754
Methylene Chloride	U		0.00100	0.00500	1	05/04/2017 20:27	WG976754
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	05/04/2017 20:27	WG976754
Methyl tert-butyl ether	U		0.000367	0.00100	1	05/04/2017 20:27	WG976754
Naphthalene	U		0.00100	0.00500	1	05/04/2017 20:27	WG976754
n-Propylbenzene	U		0.000349	0.00100	1	05/04/2017 20:27	WG976754
Styrene	U		0.000307	0.00100	1	05/04/2017 20:27	WG976754
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	05/04/2017 20:27	WG976754
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	05/04/2017 20:27	WG976754
Tetrachloroethene	U		0.000372	0.00100	1	05/04/2017 20:27	WG976754
Toluene	U		0.000412	0.00100	1	05/04/2017 20:27	WG976754
1,1,1-Trichloroethane	U		0.000319	0.00100	1	05/04/2017 20:27	WG976754
1,1,2-Trichloroethane	U		0.000383	0.00100	1	05/04/2017 20:27	WG976754
Trichloroethene	U		0.000398	0.00100	1	05/04/2017 20:27	WG976754

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
1,2,4-Trimethylbenzene	U		0.000373	0.00100	1	05/04/2017 20:27	WG976754
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	05/04/2017 20:27	WG976754
Vinyl chloride	U		0.000259	0.00100	1	05/04/2017 20:27	WG976754
o-Xylene	U		0.000341	0.00100	1	05/04/2017 20:27	WG976754
m&p-Xylene	U		0.000719	0.00200	1	05/04/2017 20:27	WG976754
Xylenes, Total	U		0.00106	0.00300	1	05/04/2017 20:27	WG976754
(S) Toluene-d8	*94.9*			*80.0-120*		*05/04/2017 20:27*	WG976754
(S) Dibromofluoromethane	*82.1*			*76.0-123*		*05/04/2017 20:27*	WG976754
(S) 4-Bromofluorobenzene	*92.9*			*80.0-120*		*05/04/2017 20:27*	WG976754

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	0.0339	J	0.0247	0.100	1	05/01/2017 13:01	WG975178
(S) o-Terphenyl	*79.7*			*31.0-160*		*05/01/2017 13:01*	WG975178

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Dissolved Solids	4810		2.82	10.0	1	04/30/2017 13:12	WG974889

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	2.22		0.0197	0.100	1	05/01/2017 16:35	WG974945

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	444		5.19	100	100	05/01/2017 01:03	WG975157
Fluoride	1.63		0.00990	0.100	1	05/01/2017 00:52	WG975157
Sulfate	3770		7.74	500	100	05/01/2017 01:03	WG975157

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.00305		0.000250	0.00200	1	05/01/2017 19:54	WG974741
Arsenic,Dissolved	0.00315		0.000250	0.00200	1	05/01/2017 22:28	WG974738
Barium	0.00938		0.000360	0.00500	1	05/01/2017 19:54	WG974741
Barium,Dissolved	0.00738		0.000360	0.00500	1	05/01/2017 22:28	WG974738
Calcium	514		0.0460	1.00	1	05/01/2017 19:54	WG974741
Chromium	U		0.000540	0.00200	1	05/01/2017 19:54	WG974741
Chromium,Dissolved	U		0.000540	0.00200	1	05/01/2017 22:28	WG974738
Iron	0.0632	J	0.0150	0.100	1	05/01/2017 19:54	WG974741
Iron,Dissolved	U		0.0150	0.100	1	05/01/2017 22:28	WG974738
Lead	U		0.000240	0.00200	1	05/01/2017 19:54	WG974741
Lead,Dissolved	U		0.000240	0.00200	1	05/01/2017 22:28	WG974738
Manganese	0.000586	J	0.000250	0.00500	1	05/01/2017 19:54	WG974741
Manganese,Dissolved	U		0.000250	0.00500	1	05/01/2017 22:28	WG974738
Potassium	0.422	J	0.0370	1.00	1	05/01/2017 19:54	WG974741
Selenium	0.0124		0.000380	0.00200	1	05/01/2017 19:54	WG974741
Selenium,Dissolved	0.0125		0.000380	0.00200	1	05/01/2017 22:28	WG974738
Sodium	212		0.110	1.00	1	05/01/2017 19:54	WG974741

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		0.0100	0.0500	1	05/04/2017 20:42	WG976754
Benzene	U		0.000331	0.00100	1	05/04/2017 20:42	WG976754
Bromodichloromethane	U		0.000380	0.00100	1	05/04/2017 20:42	WG976754
Bromoform	U		0.000469	0.00100	1	05/04/2017 20:42	WG976754
Bromomethane	U		0.000866	0.00500	1	05/04/2017 20:42	WG976754
n-Butylbenzene	U		0.000361	0.00100	1	05/04/2017 20:42	WG976754
sec-Butylbenzene	U		0.000365	0.00100	1	05/04/2017 20:42	WG976754
Carbon disulfide	U		0.000275	0.00100	1	05/04/2017 20:42	WG976754
Carbon tetrachloride	U		0.000379	0.00100	1	05/04/2017 20:42	WG976754
Chlorobenzene	U		0.000348	0.00100	1	05/04/2017 20:42	WG976754
Chlorodibromomethane	U		0.000327	0.00100	1	05/04/2017 20:42	WG976754
Chloroethane	U		0.000453	0.00500	1	05/04/2017 20:42	WG976754
Chloroform	U		0.000324	0.00500	1	05/04/2017 20:42	WG976754
Chloromethane	U		0.000276	0.00250	1	05/04/2017 20:42	WG976754
1,2-Dibromoethane	U		0.000381	0.00100	1	05/04/2017 20:42	WG976754
1,1-Dichloroethane	U		0.000259	0.00100	1	05/04/2017 20:42	WG976754

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		0.000361	0.00100	1	05/04/2017 20:42	WG976754
1,1-Dichloroethene	U		0.000398	0.00100	1	05/04/2017 20:42	WG976754
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	05/04/2017 20:42	WG976754
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	05/04/2017 20:42	WG976754
1,2-Dichloropropane	U		0.000306	0.00100	1	05/04/2017 20:42	WG976754
cis-1,3-Dichloropropene	U		0.000418	0.00100	1	05/04/2017 20:42	WG976754
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	05/04/2017 20:42	WG976754
Ethylbenzene	U		0.000384	0.00100	1	05/04/2017 20:42	WG976754
Isopropylbenzene	U		0.000326	0.00100	1	05/04/2017 20:42	WG976754
p-Isopropyltoluene	U		0.000350	0.00100	1	05/04/2017 20:42	WG976754
2-Butanone (MEK)	U		0.00393	0.0100	1	05/04/2017 20:42	WG976754
2-Hexanone	U		0.00382	0.0100	1	05/04/2017 20:42	WG976754
Methylene Chloride	U		0.00100	0.00500	1	05/04/2017 20:42	WG976754
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	05/04/2017 20:42	WG976754
Methyl tert-butyl ether	U		0.000367	0.00100	1	05/04/2017 20:42	WG976754
Naphthalene	U		0.00100	0.00500	1	05/04/2017 20:42	WG976754
n-Propylbenzene	U		0.000349	0.00100	1	05/04/2017 20:42	WG976754
Styrene	U		0.000307	0.00100	1	05/04/2017 20:42	WG976754
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	05/04/2017 20:42	WG976754
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	05/04/2017 20:42	WG976754
Tetrachloroethene	U		0.000372	0.00100	1	05/04/2017 20:42	WG976754
Toluene	U		0.000412	0.00100	1	05/04/2017 20:42	WG976754
1,1,1-Trichloroethane	U		0.000319	0.00100	1	05/04/2017 20:42	WG976754
1,1,2-Trichloroethane	U		0.000383	0.00100	1	05/04/2017 20:42	WG976754
Trichloroethene	U		0.000398	0.00100	1	05/04/2017 20:42	WG976754
1,2,4-Trimethylbenzene	U		0.000373	0.00100	1	05/04/2017 20:42	WG976754
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	05/04/2017 20:42	WG976754
Vinyl chloride	U		0.000259	0.00100	1	05/04/2017 20:42	WG976754
o-Xylene	U		0.000341	0.00100	1	05/04/2017 20:42	WG976754
m&p-Xylene	U		0.000719	0.00200	1	05/04/2017 20:42	WG976754
Xylenes, Total	U		0.00106	0.00300	1	05/04/2017 20:42	WG976754
(S) Toluene-d8	*95.5*			*80.0-120*		*05/04/2017 20:42*	WG976754
(S) Dibromofluoromethane	*82.6*			*76.0-123*		*05/04/2017 20:42*	WG976754
(S) 4-Bromofluorobenzene	*92.3*			*80.0-120*		*05/04/2017 20:42*	WG976754

Semi-Volatile Organic Compounds (GC) by 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	05/01/2017 15:33	WG975178
(S) o-Terphenyl	*70.5*			*31.0-160*		*05/01/2017 15:33*	WG975178

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Dissolved Solids	4360		2.82	10.0	1	04/30/2017 13:12	WG974889

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	17.1		0.0985	0.500	5	05/01/2017 16:45	WG974946

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	05/02/2017 09:31	WG974960

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	401		5.19	100	100	04/28/2017 12:30	WG974576
Fluoride	1.81		0.00990	0.100	1	04/28/2017 12:16	WG974576
Sulfate	2370		7.74	500	100	04/28/2017 12:30	WG974576

Mercury by Method 7470A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Mercury	U		0.0000490	0.000200	1	04/28/2017 15:50	WG974464
Mercury,Dissolved	U		0.0000490	0.000200	1	04/28/2017 14:33	WG974524

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.00237		0.000250	0.00200	1	05/01/2017 18:38	WG974741
Arsenic,Dissolved	0.00248		0.000250	0.00200	1	05/01/2017 20:23	WG974738
Barium	0.0117		0.000360	0.00500	1	05/01/2017 18:38	WG974741
Barium,Dissolved	0.0101		0.000360	0.00500	1	05/01/2017 20:23	WG974738
Boron	0.588		0.00150	0.0200	1	05/01/2017 18:38	WG974741
Boron,Dissolved	0.558		0.00150	0.0200	1	05/01/2017 20:23	WG974738
Cadmium	U		0.000160	0.00100	1	05/01/2017 18:38	WG974741
Cadmium,Dissolved	U		0.000160	0.00100	1	05/01/2017 20:23	WG974738
Calcium	643		0.0460	1.00	1	05/01/2017 18:38	WG974741
Chromium	U		0.000540	0.00200	1	05/01/2017 18:38	WG974741
Chromium,Dissolved	U		0.000540	0.00200	1	05/01/2017 20:23	WG974738
Cobalt	U		0.000260	0.00200	1	05/01/2017 18:38	WG974741
Cobalt,Dissolved	U		0.000260	0.00200	1	05/01/2017 20:23	WG974738
Iron	0.0262	J	0.0150	0.100	1	05/01/2017 18:38	WG974741
Iron,Dissolved	U		0.0150	0.100	1	05/01/2017 20:23	WG974738
Lead	U		0.000240	0.00200	1	05/01/2017 18:38	WG974741
Lead,Dissolved	U		0.000240	0.00200	1	05/01/2017 20:23	WG974738
Manganese	0.00602		0.000250	0.00500	1	05/01/2017 18:38	WG974741
Manganese,Dissolved	0.00136	J	0.000250	0.00500	1	05/01/2017 20:23	WG974738
Nickel	0.00102	J	0.000350	0.00200	1	05/01/2017 18:38	WG974741
Nickel,Dissolved	0.00109	J	0.000350	0.00200	1	05/01/2017 20:23	WG974738
Potassium	2.81		0.0370	1.00	1	05/01/2017 18:38	WG974741
Selenium	0.00563		0.000380	0.00200	1	05/01/2017 18:38	WG974741
Selenium,Dissolved	0.00472		0.000380	0.00200	1	05/01/2017 20:23	WG974738
Sodium	140		0.110	1.00	1	05/01/2017 18:38	WG974741

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Uranium	0.0664		0.000330	0.0100	1	05/01/2017 18:38	WG974741
Uranium,Dissolved	0.0684		0.000330	0.0100	1	05/02/2017 06:47	WG974738
Vanadium	0.0171		0.000180	0.00500	1	05/01/2017 18:38	WG974741
Vanadium,Dissolved	0.0176		0.000180	0.00500	1	05/01/2017 20:23	WG974738

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
TPH (GC/FID) Low Fraction	U		0.0314	0.100	1	04/28/2017 18:09	WG974800
(S) a,a,a-Trifluorotoluene(FID)	*102*			*77.0-122*		*04/28/2017 18:09*	WG974800

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		0.0100	0.0500	1	05/04/2017 20:57	WG976754
Benzene	U		0.000331	0.00100	1	05/04/2017 20:57	WG976754
Bromodichloromethane	U		0.000380	0.00100	1	05/04/2017 20:57	WG976754
Bromoform	U		0.000469	0.00100	1	05/04/2017 20:57	WG976754
Bromomethane	U		0.000866	0.00500	1	05/04/2017 20:57	WG976754
n-Butylbenzene	U		0.000361	0.00100	1	05/04/2017 20:57	WG976754
sec-Butylbenzene	U		0.000365	0.00100	1	05/04/2017 20:57	WG976754
Carbon disulfide	U		0.000275	0.00100	1	05/04/2017 20:57	WG976754
Carbon tetrachloride	U		0.000379	0.00100	1	05/04/2017 20:57	WG976754
Chlorobenzene	U		0.000348	0.00100	1	05/04/2017 20:57	WG976754
Chlorodibromomethane	U		0.000327	0.00100	1	05/04/2017 20:57	WG976754
Chloroethane	U		0.000453	0.00500	1	05/04/2017 20:57	WG976754
Chloroform	U		0.000324	0.00500	1	05/04/2017 20:57	WG976754
Chloromethane	U		0.000276	0.00250	1	05/04/2017 20:57	WG976754
1,2-Dibromoethane	U		0.000381	0.00100	1	05/04/2017 20:57	WG976754
1,1-Dichloroethane	U		0.000259	0.00100	1	05/04/2017 20:57	WG976754
1,2-Dichloroethane	U		0.000361	0.00100	1	05/04/2017 20:57	WG976754
1,1-Dichloroethene	U		0.000398	0.00100	1	05/04/2017 20:57	WG976754
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	05/04/2017 20:57	WG976754
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	05/04/2017 20:57	WG976754
1,2-Dichloropropane	U		0.000306	0.00100	1	05/04/2017 20:57	WG976754
cis-1,3-Dichloropropene	U		0.000418	0.00100	1	05/04/2017 20:57	WG976754
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	05/04/2017 20:57	WG976754
Ethylbenzene	U		0.000384	0.00100	1	05/04/2017 20:57	WG976754
Isopropylbenzene	U		0.000326	0.00100	1	05/04/2017 20:57	WG976754
p-Isopropyltoluene	U		0.000350	0.00100	1	05/04/2017 20:57	WG976754
2-Butanone (MEK)	U		0.00393	0.0100	1	05/04/2017 20:57	WG976754
2-Hexanone	U		0.00382	0.0100	1	05/04/2017 20:57	WG976754
Methylene Chloride	U		0.00100	0.00500	1	05/04/2017 20:57	WG976754
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	05/04/2017 20:57	WG976754
Methyl tert-butyl ether	U		0.000367	0.00100	1	05/04/2017 20:57	WG976754
Naphthalene	U		0.00100	0.00500	1	05/04/2017 20:57	WG976754
n-Propylbenzene	U		0.000349	0.00100	1	05/04/2017 20:57	WG976754
Styrene	U		0.000307	0.00100	1	05/04/2017 20:57	WG976754
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	05/04/2017 20:57	WG976754
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	05/04/2017 20:57	WG976754
Tetrachloroethene	U		0.000372	0.00100	1	05/04/2017 20:57	WG976754
Toluene	U		0.000412	0.00100	1	05/04/2017 20:57	WG976754
1,1,1-Trichloroethane	U		0.000319	0.00100	1	05/04/2017 20:57	WG976754
1,1,2-Trichloroethane	U		0.000383	0.00100	1	05/04/2017 20:57	WG976754
Trichloroethene	U		0.000398	0.00100	1	05/04/2017 20:57	WG976754

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
1,2,4-Trimethylbenzene	U		0.000373	0.00100	1	05/04/2017 20:57	WG976754
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	05/04/2017 20:57	WG976754
Vinyl chloride	U		0.000259	0.00100	1	05/04/2017 20:57	WG976754
o-Xylene	U		0.000341	0.00100	1	05/04/2017 20:57	WG976754
m&p-Xylene	U		0.000719	0.00200	1	05/04/2017 20:57	WG976754
Xylenes, Total	U		0.00106	0.00300	1	05/04/2017 20:57	WG976754
(S) Toluene-d8	*95.1*			*80.0-120*		*05/04/2017 20:57*	WG976754
(S) Dibromofluoromethane	*81.0*			*76.0-123*		*05/04/2017 20:57*	WG976754
(S) 4-Bromofluorobenzene	*91.7*			*80.0-120*		*05/04/2017 20:57*	WG976754

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	0.0731	J	0.0247	0.100	1	05/01/2017 15:50	WG975178
(S) o-Terphenyl	*80.6*			*31.0-160*		*05/01/2017 15:50*	WG975178

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Dissolved Solids	4400		2.82	10.0	1	05/01/2017 09:04	WG974890

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	1.90		0.0197	0.100	1	05/01/2017 16:46	WG974946

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	176		2.60	50.0	50	04/28/2017 13:00	WG974576
Fluoride	2.51		0.00990	0.100	1	04/28/2017 12:45	WG974576
Sulfate	2870		3.87	250	50	04/28/2017 13:00	WG974576

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.00331		0.000250	0.00200	1	05/01/2017 19:58	WG974741
Arsenic,Dissolved	0.00331		0.000250	0.00200	1	05/01/2017 22:32	WG974738
Barium	0.0107		0.000360	0.00500	1	05/01/2017 19:58	WG974741
Barium,Dissolved	0.0105		0.000360	0.00500	1	05/01/2017 22:32	WG974738
Calcium	504		0.0460	1.00	1	05/01/2017 19:58	WG974741
Chromium	U		0.000540	0.00200	1	05/01/2017 19:58	WG974741
Chromium,Dissolved	U		0.000540	0.00200	1	05/01/2017 22:32	WG974738
Iron	U		0.0150	0.100	1	05/01/2017 19:58	WG974741
Iron,Dissolved	0.0200	J	0.0150	0.100	1	05/01/2017 22:32	WG974738
Lead	U		0.000240	0.00200	1	05/01/2017 19:58	WG974741
Lead,Dissolved	U		0.000240	0.00200	1	05/01/2017 22:32	WG974738
Manganese	0.000927	J	0.000250	0.00500	1	05/01/2017 19:58	WG974741
Manganese,Dissolved	0.00103	J	0.000250	0.00500	1	05/01/2017 22:32	WG974738
Potassium	1.09		0.0370	1.00	1	05/01/2017 19:58	WG974741
Selenium	0.00406		0.000380	0.00200	1	05/01/2017 19:58	WG974741
Selenium,Dissolved	0.00340		0.000380	0.00200	1	05/01/2017 22:32	WG974738
Sodium	141		0.110	1.00	1	05/01/2017 19:58	WG974741

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		0.0100	0.0500	1	05/04/2017 21:12	WG976754
Benzene	U		0.000331	0.00100	1	05/04/2017 21:12	WG976754
Bromodichloromethane	U		0.000380	0.00100	1	05/04/2017 21:12	WG976754
Bromoform	U		0.000469	0.00100	1	05/04/2017 21:12	WG976754
Bromomethane	U		0.000866	0.00500	1	05/04/2017 21:12	WG976754
n-Butylbenzene	U		0.000361	0.00100	1	05/04/2017 21:12	WG976754
sec-Butylbenzene	U		0.000365	0.00100	1	05/04/2017 21:12	WG976754
Carbon disulfide	U		0.000275	0.00100	1	05/04/2017 21:12	WG976754
Carbon tetrachloride	U		0.000379	0.00100	1	05/04/2017 21:12	WG976754
Chlorobenzene	U		0.000348	0.00100	1	05/04/2017 21:12	WG976754
Chlorodibromomethane	U		0.000327	0.00100	1	05/04/2017 21:12	WG976754
Chloroethane	U		0.000453	0.00500	1	05/04/2017 21:12	WG976754
Chloroform	U		0.000324	0.00500	1	05/04/2017 21:12	WG976754
Chloromethane	U		0.000276	0.00250	1	05/04/2017 21:12	WG976754
1,2-Dibromoethane	U		0.000381	0.00100	1	05/04/2017 21:12	WG976754
1,1-Dichloroethane	U		0.000259	0.00100	1	05/04/2017 21:12	WG976754

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
1,2-Dichloroethane	U		0.000361	0.00100	1	05/04/2017 21:12	WG976754
1,1-Dichloroethene	U		0.000398	0.00100	1	05/04/2017 21:12	WG976754
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	05/04/2017 21:12	WG976754
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	05/04/2017 21:12	WG976754
1,2-Dichloropropane	U		0.000306	0.00100	1	05/04/2017 21:12	WG976754
cis-1,3-Dichloropropene	U		0.000418	0.00100	1	05/04/2017 21:12	WG976754
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	05/04/2017 21:12	WG976754
Ethylbenzene	U		0.000384	0.00100	1	05/04/2017 21:12	WG976754
Isopropylbenzene	U		0.000326	0.00100	1	05/04/2017 21:12	WG976754
p-Isopropyltoluene	U		0.000350	0.00100	1	05/04/2017 21:12	WG976754
2-Butanone (MEK)	U		0.00393	0.0100	1	05/04/2017 21:12	WG976754
2-Hexanone	U		0.00382	0.0100	1	05/04/2017 21:12	WG976754
Methylene Chloride	U		0.00100	0.00500	1	05/04/2017 21:12	WG976754
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	05/04/2017 21:12	WG976754
Methyl tert-butyl ether	U		0.000367	0.00100	1	05/04/2017 21:12	WG976754
Naphthalene	U		0.00100	0.00500	1	05/04/2017 21:12	WG976754
n-Propylbenzene	U		0.000349	0.00100	1	05/04/2017 21:12	WG976754
Styrene	U		0.000307	0.00100	1	05/04/2017 21:12	WG976754
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	05/04/2017 21:12	WG976754
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	05/04/2017 21:12	WG976754
Tetrachloroethene	U		0.000372	0.00100	1	05/04/2017 21:12	WG976754
Toluene	U		0.000412	0.00100	1	05/04/2017 21:12	WG976754
1,1,1-Trichloroethane	U		0.000319	0.00100	1	05/04/2017 21:12	WG976754
1,1,2-Trichloroethane	U		0.000383	0.00100	1	05/04/2017 21:12	WG976754
Trichloroethene	U		0.000398	0.00100	1	05/04/2017 21:12	WG976754
1,2,4-Trimethylbenzene	U		0.000373	0.00100	1	05/04/2017 21:12	WG976754
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	05/04/2017 21:12	WG976754
Vinyl chloride	U		0.000259	0.00100	1	05/04/2017 21:12	WG976754
o-Xylene	U		0.000341	0.00100	1	05/04/2017 21:12	WG976754
m&p-Xylene	U		0.000719	0.00200	1	05/04/2017 21:12	WG976754
Xylenes, Total	U		0.00106	0.00300	1	05/04/2017 21:12	WG976754
(S) Toluene-d8	*95.1*			*80.0-120*		*05/04/2017 21:12*	WG976754
(S) Dibromofluoromethane	*80.0*			*76.0-123*		*05/04/2017 21:12*	WG976754
(S) 4-Bromofluorobenzene	*92.6*			*80.0-120*		*05/04/2017 21:12*	WG976754

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Dissolved Solids	4930		2.82	10.0	1	05/01/2017 09:04	WG974890

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	1.09		0.0197	0.100	1	05/01/2017 16:47	WG974946

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	05/02/2017 09:32	WG974960

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	530		5.19	100	100	04/28/2017 13:30	WG974576
Fluoride	1.39		0.00990	0.100	1	04/28/2017 13:15	WG974576
Sulfate	2940		7.74	500	100	04/28/2017 13:30	WG974576

Mercury by Method 7470A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Mercury	U		0.0000490	0.000200	1	04/28/2017 15:53	WG974464
Mercury,Dissolved	U		0.0000490	0.000200	1	04/28/2017 14:35	WG974524

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.00319		0.000250	0.00200	1	05/01/2017 18:42	WG974741
Arsenic,Dissolved	0.00344		0.000250	0.00200	1	05/01/2017 20:26	WG974738
Barium	0.00857		0.000360	0.00500	1	05/01/2017 18:42	WG974741
Barium,Dissolved	0.00795		0.000360	0.00500	1	05/01/2017 20:26	WG974738
Boron	0.706		0.00150	0.0200	1	05/01/2017 18:42	WG974741
Boron,Dissolved	0.681		0.00150	0.0200	1	05/01/2017 20:26	WG974738
Cadmium	U		0.000160	0.00100	1	05/01/2017 18:42	WG974741
Cadmium,Dissolved	U		0.000160	0.00100	1	05/01/2017 20:26	WG974738
Calcium	566		0.0460	1.00	1	05/01/2017 18:42	WG974741
Chromium	U		0.000540	0.00200	1	05/01/2017 18:42	WG974741
Chromium,Dissolved	U		0.000540	0.00200	1	05/01/2017 20:26	WG974738
Cobalt	0.00583		0.000260	0.00200	1	05/01/2017 18:42	WG974741
Cobalt,Dissolved	0.00545		0.000260	0.00200	1	05/01/2017 20:26	WG974738
Iron	U		0.0150	0.100	1	05/01/2017 18:42	WG974741
Iron,Dissolved	U		0.0150	0.100	1	05/01/2017 20:26	WG974738
Lead	U		0.000240	0.00200	1	05/01/2017 18:42	WG974741
Lead,Dissolved	U		0.000240	0.00200	1	05/01/2017 20:26	WG974738
Manganese	0.447		0.000250	0.00500	1	05/01/2017 18:42	WG974741
Manganese,Dissolved	0.409		0.000250	0.00500	1	05/01/2017 20:26	WG974738
Nickel	0.00881		0.000350	0.00200	1	05/01/2017 18:42	WG974741
Nickel,Dissolved	0.00948		0.000350	0.00200	1	05/01/2017 20:26	WG974738
Potassium	1.19		0.0370	1.00	1	05/01/2017 18:42	WG974741
Selenium	0.00164	J	0.000380	0.00200	1	05/01/2017 18:42	WG974741
Selenium,Dissolved	0.00130	J	0.000380	0.00200	1	05/01/2017 20:26	WG974738
Sodium	269		0.110	1.00	1	05/01/2017 18:42	WG974741

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Uranium	0.0232		0.000330	0.0100	1	05/01/2017 18:42	WG974741
Uranium,Dissolved	0.0243		0.000330	0.0100	1	05/02/2017 06:51	WG974738
Vanadium	0.0221		0.000180	0.00500	1	05/01/2017 18:42	WG974741
Vanadium,Dissolved	0.0223		0.000180	0.00500	1	05/01/2017 20:26	WG974738

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		0.0100	0.0500	1	05/04/2017 21:26	WG976754
Benzene	U		0.000331	0.00100	1	05/04/2017 21:26	WG976754
Bromodichloromethane	U		0.000380	0.00100	1	05/04/2017 21:26	WG976754
Bromoform	U		0.000469	0.00100	1	05/04/2017 21:26	WG976754
Bromomethane	U		0.000866	0.00500	1	05/04/2017 21:26	WG976754
n-Butylbenzene	U		0.000361	0.00100	1	05/04/2017 21:26	WG976754
sec-Butylbenzene	U		0.000365	0.00100	1	05/04/2017 21:26	WG976754
Carbon disulfide	U		0.000275	0.00100	1	05/04/2017 21:26	WG976754
Carbon tetrachloride	U		0.000379	0.00100	1	05/04/2017 21:26	WG976754
Chlorobenzene	U		0.000348	0.00100	1	05/04/2017 21:26	WG976754
Chlorodibromomethane	U		0.000327	0.00100	1	05/04/2017 21:26	WG976754
Chloroethane	U		0.000453	0.00500	1	05/04/2017 21:26	WG976754
Chloroform	U		0.000324	0.00500	1	05/04/2017 21:26	WG976754
Chloromethane	U		0.000276	0.00250	1	05/04/2017 21:26	WG976754
1,2-Dibromoethane	U		0.000381	0.00100	1	05/04/2017 21:26	WG976754
1,1-Dichloroethane	U		0.000259	0.00100	1	05/04/2017 21:26	WG976754
1,2-Dichloroethane	U		0.000361	0.00100	1	05/04/2017 21:26	WG976754
1,1-Dichloroethene	U		0.000398	0.00100	1	05/04/2017 21:26	WG976754
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	05/04/2017 21:26	WG976754
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	05/04/2017 21:26	WG976754
1,2-Dichloropropane	U		0.000306	0.00100	1	05/04/2017 21:26	WG976754
cis-1,3-Dichloropropene	U		0.000418	0.00100	1	05/04/2017 21:26	WG976754
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	05/04/2017 21:26	WG976754
Ethylbenzene	U		0.000384	0.00100	1	05/04/2017 21:26	WG976754
Isopropylbenzene	U		0.000326	0.00100	1	05/04/2017 21:26	WG976754
p-Isopropyltoluene	U		0.000350	0.00100	1	05/04/2017 21:26	WG976754
2-Butanone (MEK)	U		0.00393	0.0100	1	05/04/2017 21:26	WG976754
2-Hexanone	U		0.00382	0.0100	1	05/04/2017 21:26	WG976754
Methylene Chloride	U		0.00100	0.00500	1	05/04/2017 21:26	WG976754
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	05/04/2017 21:26	WG976754
Methyl tert-butyl ether	U		0.000367	0.00100	1	05/04/2017 21:26	WG976754
Naphthalene	U		0.00100	0.00500	1	05/04/2017 21:26	WG976754
n-Propylbenzene	U		0.000349	0.00100	1	05/04/2017 21:26	WG976754
Styrene	U		0.000307	0.00100	1	05/04/2017 21:26	WG976754
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	05/04/2017 21:26	WG976754
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	05/04/2017 21:26	WG976754
Tetrachloroethene	U		0.000372	0.00100	1	05/04/2017 21:26	WG976754
Toluene	U		0.000412	0.00100	1	05/04/2017 21:26	WG976754
1,1,1-Trichloroethane	U		0.000319	0.00100	1	05/04/2017 21:26	WG976754
1,1,2-Trichloroethane	U		0.000383	0.00100	1	05/04/2017 21:26	WG976754
Trichloroethene	U		0.000398	0.00100	1	05/04/2017 21:26	WG976754
1,2,4-Trimethylbenzene	U		0.000373	0.00100	1	05/04/2017 21:26	WG976754
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	05/04/2017 21:26	WG976754
Vinyl chloride	U		0.000259	0.00100	1	05/04/2017 21:26	WG976754
o-Xylene	U		0.000341	0.00100	1	05/04/2017 21:26	WG976754
m&p-Xylene	U		0.000719	0.00200	1	05/04/2017 21:26	WG976754
Xylenes, Total	U		0.00106	0.00300	1	05/04/2017 21:26	WG976754
(S) Toluene-d8	*94.9*			*80.0-120*		*05/04/2017 21:26*	WG976754

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) Dibromofluoromethane	*82.2*			*76.0-123*		*05/04/2017 21:26*	WG976754
(S) 4-Bromofluorobenzene	*91.4*			*80.0-120*		*05/04/2017 21:26*	WG976754

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	0.102		0.0247	0.100	1	05/01/2017 16:06	WG975178
(S) o-Terphenyl	*81.1*			*31.0-160*		*05/01/2017 16:06*	WG975178

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Dissolved Solids	5000		2.82	10.0	1	05/01/2017 09:04	WG974890

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	0.0350	J P1	0.0197	0.100	1	05/01/2017 16:48	WG974946

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	508		5.19	100	100	04/29/2017 11:27	WG974576
Fluoride	1.25		0.00990	0.100	1	04/29/2017 11:12	WG974576
Sulfate	2860		7.74	500	100	04/29/2017 11:27	WG974576

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.00303		0.000250	0.00200	1	05/01/2017 20:05	WG974741
Arsenic,Dissolved	0.00303		0.000250	0.00200	1	05/01/2017 22:35	WG974738
Barium	0.00955		0.000360	0.00500	1	05/01/2017 20:05	WG974741
Barium,Dissolved	0.00839		0.000360	0.00500	1	05/01/2017 22:35	WG974738
Calcium	560		0.0460	1.00	1	05/01/2017 20:05	WG974741
Chromium	U		0.000540	0.00200	1	05/01/2017 20:05	WG974741
Chromium,Dissolved	U		0.000540	0.00200	1	05/01/2017 22:35	WG974738
Iron	U		0.0150	0.100	1	05/01/2017 20:05	WG974741
Iron,Dissolved	U		0.0150	0.100	1	05/01/2017 22:35	WG974738
Lead	U		0.000240	0.00200	1	05/01/2017 20:05	WG974741
Lead,Dissolved	U		0.000240	0.00200	1	05/01/2017 22:35	WG974738
Manganese	0.501		0.000250	0.00500	1	05/01/2017 20:05	WG974741
Manganese,Dissolved	0.472		0.000250	0.00500	1	05/01/2017 22:35	WG974738
Potassium	1.36		0.0370	1.00	1	05/01/2017 20:05	WG974741
Selenium	U		0.000380	0.00200	1	05/01/2017 20:05	WG974741
Selenium,Dissolved	U		0.000380	0.00200	1	05/01/2017 22:35	WG974738
Sodium	267		0.110	1.00	1	05/01/2017 20:05	WG974741

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		0.0100	0.0500	1	05/04/2017 21:41	WG976754
Benzene	U		0.000331	0.00100	1	05/04/2017 21:41	WG976754
Bromodichloromethane	U		0.000380	0.00100	1	05/04/2017 21:41	WG976754
Bromoform	U		0.000469	0.00100	1	05/04/2017 21:41	WG976754
Bromomethane	U		0.000866	0.00500	1	05/04/2017 21:41	WG976754
n-Butylbenzene	U		0.000361	0.00100	1	05/04/2017 21:41	WG976754
sec-Butylbenzene	U		0.000365	0.00100	1	05/04/2017 21:41	WG976754
Carbon disulfide	U		0.000275	0.00100	1	05/04/2017 21:41	WG976754
Carbon tetrachloride	U		0.000379	0.00100	1	05/04/2017 21:41	WG976754
Chlorobenzene	U		0.000348	0.00100	1	05/04/2017 21:41	WG976754
Chlorodibromomethane	U		0.000327	0.00100	1	05/04/2017 21:41	WG976754
Chloroethane	U		0.000453	0.00500	1	05/04/2017 21:41	WG976754
Chloroform	U		0.000324	0.00500	1	05/04/2017 21:41	WG976754
Chloromethane	U		0.000276	0.00250	1	05/04/2017 21:41	WG976754
1,2-Dibromoethane	U		0.000381	0.00100	1	05/04/2017 21:41	WG976754
1,1-Dichloroethane	U		0.000259	0.00100	1	05/04/2017 21:41	WG976754

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
1,2-Dichloroethane	U		0.000361	0.00100	1	05/04/2017 21:41	WG976754
1,1-Dichloroethene	U		0.000398	0.00100	1	05/04/2017 21:41	WG976754
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	05/04/2017 21:41	WG976754
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	05/04/2017 21:41	WG976754
1,2-Dichloropropane	U		0.000306	0.00100	1	05/04/2017 21:41	WG976754
cis-1,3-Dichloropropene	U		0.000418	0.00100	1	05/04/2017 21:41	WG976754
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	05/04/2017 21:41	WG976754
Ethylbenzene	U		0.000384	0.00100	1	05/04/2017 21:41	WG976754
Isopropylbenzene	U		0.000326	0.00100	1	05/04/2017 21:41	WG976754
p-Isopropyltoluene	U		0.000350	0.00100	1	05/04/2017 21:41	WG976754
2-Butanone (MEK)	U		0.00393	0.0100	1	05/04/2017 21:41	WG976754
2-Hexanone	U		0.00382	0.0100	1	05/04/2017 21:41	WG976754
Methylene Chloride	U		0.00100	0.00500	1	05/04/2017 21:41	WG976754
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	05/04/2017 21:41	WG976754
Methyl tert-butyl ether	U		0.000367	0.00100	1	05/04/2017 21:41	WG976754
Naphthalene	U		0.00100	0.00500	1	05/04/2017 21:41	WG976754
n-Propylbenzene	U		0.000349	0.00100	1	05/04/2017 21:41	WG976754
Styrene	U		0.000307	0.00100	1	05/04/2017 21:41	WG976754
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	05/04/2017 21:41	WG976754
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	05/04/2017 21:41	WG976754
Tetrachloroethene	U		0.000372	0.00100	1	05/04/2017 21:41	WG976754
Toluene	U		0.000412	0.00100	1	05/04/2017 21:41	WG976754
1,1,1-Trichloroethane	U		0.000319	0.00100	1	05/04/2017 21:41	WG976754
1,1,2-Trichloroethane	U		0.000383	0.00100	1	05/04/2017 21:41	WG976754
Trichloroethene	U		0.000398	0.00100	1	05/04/2017 21:41	WG976754
1,2,4-Trimethylbenzene	U		0.000373	0.00100	1	05/04/2017 21:41	WG976754
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	05/04/2017 21:41	WG976754
Vinyl chloride	U		0.000259	0.00100	1	05/04/2017 21:41	WG976754
o-Xylene	U		0.000341	0.00100	1	05/04/2017 21:41	WG976754
m&p-Xylene	U		0.000719	0.00200	1	05/04/2017 21:41	WG976754
Xylenes, Total	U		0.00106	0.00300	1	05/04/2017 21:41	WG976754
(S) Toluene-d8	*95.7*			*80.0-120*		*05/04/2017 21:41*	WG976754
(S) Dibromofluoromethane	*82.4*			*76.0-123*		*05/04/2017 21:41*	WG976754
(S) 4-Bromofluorobenzene	*93.7*			*80.0-120*		*05/04/2017 21:41*	WG976754

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	0.140		0.0247	0.100	1	05/01/2017 16:23	WG975178
(S) o-Terphenyl	*86.2*			*31.0-160*		*05/01/2017 16:23*	WG975178

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Dissolved Solids	1130		2.82	10.0	1	05/01/2017 09:04	WG974890

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	U		0.0197	0.100	1	05/01/2017 16:55	WG974946

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	230		5.19	100	100	04/29/2017 11:57	WG974576
Fluoride	1.57		0.00990	0.100	1	04/29/2017 11:42	WG974576
Sulfate	0.475	J	0.0774	5.00	1	04/29/2017 11:42	WG974576

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.0157		0.000250	0.00200	1	05/01/2017 20:08	WG974741
Arsenic,Dissolved	0.0115		0.000250	0.00200	1	05/01/2017 22:39	WG974738
Barium	3.82		0.000360	0.00500	1	05/01/2017 20:08	WG974741
Barium,Dissolved	3.39		0.000360	0.00500	1	05/01/2017 22:39	WG974738
Calcium	134		0.0460	1.00	1	05/01/2017 20:08	WG974741
Chromium	U		0.000540	0.00200	1	05/01/2017 20:08	WG974741
Chromium,Dissolved	U		0.000540	0.00200	1	05/01/2017 22:39	WG974738
Iron	5.21		0.0150	0.100	1	05/01/2017 20:08	WG974741
Iron,Dissolved	0.281		0.0150	0.100	1	05/01/2017 22:39	WG974738
Lead	0.000971	J	0.000240	0.00200	1	05/01/2017 20:08	WG974741
Lead,Dissolved	0.000478	J	0.000240	0.00200	1	05/01/2017 22:39	WG974738
Manganese	0.157		0.000250	0.00500	1	05/01/2017 20:08	WG974741
Manganese,Dissolved	0.145		0.000250	0.00500	1	05/01/2017 22:39	WG974738
Potassium	0.521	J	0.0370	1.00	1	05/01/2017 20:08	WG974741
Selenium	U		0.000380	0.00200	1	05/01/2017 20:08	WG974741
Selenium,Dissolved	U		0.000380	0.00200	1	05/01/2017 22:39	WG974738
Sodium	131		0.110	1.00	1	05/01/2017 20:08	WG974741

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		0.500	2.50	50	05/04/2017 23:24	WG976754
Benzene	4.95		0.0166	0.0500	50	05/04/2017 23:24	WG976754
Bromodichloromethane	U		0.0190	0.0500	50	05/04/2017 23:24	WG976754
Bromoform	U		0.0234	0.0500	50	05/04/2017 23:24	WG976754
Bromomethane	U		0.0433	0.250	50	05/04/2017 23:24	WG976754
n-Butylbenzene	U		0.0180	0.0500	50	05/04/2017 23:24	WG976754
sec-Butylbenzene	U		0.0182	0.0500	50	05/04/2017 23:24	WG976754
Carbon disulfide	U		0.0138	0.0500	50	05/04/2017 23:24	WG976754
Carbon tetrachloride	U		0.0190	0.0500	50	05/04/2017 23:24	WG976754
Chlorobenzene	U		0.0174	0.0500	50	05/04/2017 23:24	WG976754
Chlorodibromomethane	U		0.0164	0.0500	50	05/04/2017 23:24	WG976754
Chloroethane	U		0.0226	0.250	50	05/04/2017 23:24	WG976754
Chloroform	0.0172	J	0.0162	0.250	50	05/04/2017 23:24	WG976754
Chloromethane	U		0.0138	0.125	50	05/04/2017 23:24	WG976754
1,2-Dibromoethane	U		0.0190	0.0500	50	05/04/2017 23:24	WG976754
1,1-Dichloroethane	U		0.0130	0.0500	50	05/04/2017 23:24	WG976754

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
1,2-Dichloroethane	U		0.0180	0.0500	50	05/04/2017 23:24	WG976754
1,1-Dichloroethene	U		0.0199	0.0500	50	05/04/2017 23:24	WG976754
cis-1,2-Dichloroethene	U		0.0130	0.0500	50	05/04/2017 23:24	WG976754
trans-1,2-Dichloroethene	U		0.0198	0.0500	50	05/04/2017 23:24	WG976754
1,2-Dichloropropane	U		0.0153	0.0500	50	05/04/2017 23:24	WG976754
cis-1,3-Dichloropropene	U		0.0209	0.0500	50	05/04/2017 23:24	WG976754
trans-1,3-Dichloropropene	U		0.0210	0.0500	50	05/04/2017 23:24	WG976754
Ethylbenzene	0.505		0.0192	0.0500	50	05/04/2017 23:24	WG976754
Isopropylbenzene	0.0486	J	0.0163	0.0500	50	05/04/2017 23:24	WG976754
p-Isopropyltoluene	U		0.0175	0.0500	50	05/04/2017 23:24	WG976754
2-Butanone (MEK)	U		0.196	0.500	50	05/04/2017 23:24	WG976754
2-Hexanone	U		0.191	0.500	50	05/04/2017 23:24	WG976754
Methylene Chloride	U		0.0500	0.250	50	05/04/2017 23:24	WG976754
4-Methyl-2-pentanone (MIBK)	U		0.107	0.500	50	05/04/2017 23:24	WG976754
Methyl tert-butyl ether	3.65		0.0184	0.0500	50	05/04/2017 23:24	WG976754
Naphthalene	0.156	J	0.0500	0.250	50	05/04/2017 23:24	WG976754
n-Propylbenzene	0.0714		0.0174	0.0500	50	05/04/2017 23:24	WG976754
Styrene	U		0.0154	0.0500	50	05/04/2017 23:24	WG976754
1,1,1,2-Tetrachloroethane	U		0.0192	0.0500	50	05/04/2017 23:24	WG976754
1,1,2,2-Tetrachloroethane	U		0.00650	0.0500	50	05/04/2017 23:24	WG976754
Tetrachloroethene	U		0.0186	0.0500	50	05/04/2017 23:24	WG976754
Toluene	0.0605		0.0206	0.0500	50	05/04/2017 23:24	WG976754
1,1,1-Trichloroethane	U		0.0160	0.0500	50	05/04/2017 23:24	WG976754
1,1,2-Trichloroethane	U		0.0192	0.0500	50	05/04/2017 23:24	WG976754
Trichloroethene	U		0.0199	0.0500	50	05/04/2017 23:24	WG976754
1,2,4-Trimethylbenzene	0.360		0.0186	0.0500	50	05/04/2017 23:24	WG976754
1,3,5-Trimethylbenzene	0.0907		0.0194	0.0500	50	05/04/2017 23:24	WG976754
Vinyl chloride	U		0.0130	0.0500	50	05/04/2017 23:24	WG976754
o-Xylene	0.198		0.0170	0.0500	50	05/04/2017 23:24	WG976754
m&p-Xylene	0.716		0.0360	0.100	50	05/04/2017 23:24	WG976754
Xylenes, Total	0.914		0.0530	0.150	50	05/04/2017 23:24	WG976754
(S) Toluene-d8	*95.3*			*80.0-120*		*05/04/2017 23:24*	WG976754
(S) Dibromofluoromethane	*80.7*			*76.0-123*		*05/04/2017 23:24*	WG976754
(S) 4-Bromofluorobenzene	*95.4*			*80.0-120*		*05/04/2017 23:24*	WG976754

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
TPH (GC/FID) High Fraction	4.01		0.0247	0.100	1	05/01/2017 16:39	WG975178
(S) o-Terphenyl	*94.3*			*31.0-160*		*05/01/2017 16:39*	WG975178

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Dissolved Solids	2550		2.82	10.0	1	05/01/2017 09:04	WG974890

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	0.0220	J	0.0197	0.100	1	05/01/2017 16:56	WG974946

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	279		5.19	100	100	04/29/2017 12:12	WG974576
Fluoride	0.904		0.00990	0.100	1	04/29/2017 12:57	WG974576
Sulfate	1060		7.74	500	100	04/29/2017 12:12	WG974576

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.00152	J	0.000250	0.00200	1	05/01/2017 20:12	WG974741
Arsenic,Dissolved	0.00326		0.000250	0.00200	1	05/01/2017 22:42	WG974738
Barium	0.0271		0.000360	0.00500	1	05/01/2017 20:12	WG974741
Barium,Dissolved	0.0234		0.000360	0.00500	1	05/01/2017 22:42	WG974738
Calcium	280		0.0460	1.00	1	05/01/2017 20:12	WG974741
Chromium	U		0.000540	0.00200	1	05/01/2017 20:12	WG974741
Chromium,Dissolved	U		0.000540	0.00200	1	05/01/2017 22:42	WG974738
Iron	0.0346	J	0.0150	0.100	1	05/01/2017 20:12	WG974741
Iron,Dissolved	0.517		0.0150	0.100	1	05/01/2017 22:42	WG974738
Lead	0.000273	J	0.000240	0.00200	1	05/01/2017 20:12	WG974741
Lead,Dissolved	0.000733	J	0.000240	0.00200	1	05/01/2017 22:42	WG974738
Manganese	0.564		0.000250	0.00500	1	05/01/2017 20:12	WG974741
Manganese,Dissolved	0.665		0.000250	0.00500	1	05/01/2017 22:42	WG974738
Potassium	0.460	J	0.0370	1.00	1	05/01/2017 20:12	WG974741
Selenium	U		0.000380	0.00200	1	05/01/2017 20:12	WG974741
Selenium,Dissolved	U		0.000380	0.00200	1	05/01/2017 22:42	WG974738
Sodium	286		0.110	1.00	1	05/01/2017 20:12	WG974741

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		0.0100	0.0500	1	05/04/2017 21:56	WG976754
Benzene	0.0260		0.000331	0.00100	1	05/04/2017 21:56	WG976754
Bromodichloromethane	U		0.000380	0.00100	1	05/04/2017 21:56	WG976754
Bromoform	U		0.000469	0.00100	1	05/04/2017 21:56	WG976754
Bromomethane	U		0.000866	0.00500	1	05/04/2017 21:56	WG976754
n-Butylbenzene	U		0.000361	0.00100	1	05/04/2017 21:56	WG976754
sec-Butylbenzene	0.00279		0.000365	0.00100	1	05/04/2017 21:56	WG976754
Carbon disulfide	0.000332	J	0.000275	0.00100	1	05/04/2017 21:56	WG976754
Carbon tetrachloride	U		0.000379	0.00100	1	05/04/2017 21:56	WG976754
Chlorobenzene	U		0.000348	0.00100	1	05/04/2017 21:56	WG976754
Chlorodibromomethane	U		0.000327	0.00100	1	05/04/2017 21:56	WG976754
Chloroethane	U		0.000453	0.00500	1	05/04/2017 21:56	WG976754
Chloroform	0.00360	J	0.000324	0.00500	1	05/04/2017 21:56	WG976754
Chloromethane	U		0.000276	0.00250	1	05/04/2017 21:56	WG976754
1,2-Dibromoethane	U		0.000381	0.00100	1	05/04/2017 21:56	WG976754
1,1-Dichloroethane	U		0.000259	0.00100	1	05/04/2017 21:56	WG976754

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		0.000361	0.00100	1	05/04/2017 21:56	WG976754
1,1-Dichloroethene	U		0.000398	0.00100	1	05/04/2017 21:56	WG976754
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	05/04/2017 21:56	WG976754
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	05/04/2017 21:56	WG976754
1,2-Dichloropropane	U		0.000306	0.00100	1	05/04/2017 21:56	WG976754
cis-1,3-Dichloropropene	U		0.000418	0.00100	1	05/04/2017 21:56	WG976754
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	05/04/2017 21:56	WG976754
Ethylbenzene	0.00543		0.000384	0.00100	1	05/04/2017 21:56	WG976754
Isopropylbenzene	0.00816		0.000326	0.00100	1	05/04/2017 21:56	WG976754
p-Isopropyltoluene	U		0.000350	0.00100	1	05/04/2017 21:56	WG976754
2-Butanone (MEK)	0.0164		0.00393	0.0100	1	05/04/2017 21:56	WG976754
2-Hexanone	U		0.00382	0.0100	1	05/04/2017 21:56	WG976754
Methylene Chloride	U		0.00100	0.00500	1	05/04/2017 21:56	WG976754
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	05/04/2017 21:56	WG976754
Methyl tert-butyl ether	0.0192		0.000367	0.00100	1	05/04/2017 21:56	WG976754
Naphthalene	0.00609		0.00100	0.00500	1	05/04/2017 21:56	WG976754
n-Propylbenzene	0.0121		0.000349	0.00100	1	05/04/2017 21:56	WG976754
Styrene	U		0.000307	0.00100	1	05/04/2017 21:56	WG976754
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	05/04/2017 21:56	WG976754
1,1,2,2-Tetrachloroethane	0.000160	J	0.000130	0.00100	1	05/04/2017 21:56	WG976754
Tetrachloroethene	U		0.000372	0.00100	1	05/04/2017 21:56	WG976754
Toluene	U		0.000412	0.00100	1	05/04/2017 21:56	WG976754
1,1,1-Trichloroethane	U		0.000319	0.00100	1	05/04/2017 21:56	WG976754
1,1,2-Trichloroethane	U		0.000383	0.00100	1	05/04/2017 21:56	WG976754
Trichloroethene	U		0.000398	0.00100	1	05/04/2017 21:56	WG976754
1,2,4-Trimethylbenzene	0.0341		0.000373	0.00100	1	05/04/2017 21:56	WG976754
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	05/04/2017 21:56	WG976754
Vinyl chloride	U		0.000259	0.00100	1	05/04/2017 21:56	WG976754
o-Xylene	0.000772	J	0.000341	0.00100	1	05/04/2017 21:56	WG976754
m&p-Xylene	0.0273		0.000719	0.00200	1	05/04/2017 21:56	WG976754
Xylenes, Total	0.0281		0.00106	0.00300	1	05/04/2017 21:56	WG976754
(S) Toluene-d8	*96.6*			*80.0-120*		*05/04/2017 21:56*	WG976754
(S) Dibromofluoromethane	*82.7*			*76.0-123*		*05/04/2017 21:56*	WG976754
(S) 4-Bromofluorobenzene	*77.1*	J2		*80.0-120*		*05/04/2017 21:56*	WG976754

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	1.35		0.0247	0.100	1	05/01/2017 16:56	WG975178
(S) o-Terphenyl	*97.8*			*31.0-160*		*05/01/2017 16:56*	WG975178

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Dissolved Solids	1550		2.82	10.0	1	05/01/2017 09:04	WG974890

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	0.0380	J	0.0197	0.100	1	05/01/2017 16:57	WG974946

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	05/02/2017 09:33	WG974960

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	280		5.19	100	100	04/29/2017 15:11	WG974576
Fluoride	1.40		0.00990	0.100	1	04/28/2017 20:10	WG974576
Sulfate	106		0.387	25.0	5	04/29/2017 17:42	WG975172

Mercury by Method 7470A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Mercury	U		0.0000490	0.000200	1	04/28/2017 15:55	WG974464
Mercury,Dissolved	U		0.0000490	0.000200	1	04/28/2017 14:38	WG974524

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.0115		0.000250	0.00200	1	05/01/2017 18:45	WG974741
Arsenic,Dissolved	0.0118		0.000250	0.00200	1	05/01/2017 20:30	WG974738
Barium	0.716		0.000360	0.00500	1	05/01/2017 18:45	WG974741
Barium,Dissolved	0.680		0.000360	0.00500	1	05/01/2017 20:30	WG974738
Boron	0.453		0.00150	0.0200	1	05/01/2017 18:45	WG974741
Boron,Dissolved	0.395		0.00150	0.0200	1	05/01/2017 20:30	WG974738
Cadmium	U		0.000160	0.00100	1	05/01/2017 18:45	WG974741
Cadmium,Dissolved	U		0.000160	0.00100	1	05/01/2017 20:30	WG974738
Calcium	229		0.0460	1.00	1	05/01/2017 18:45	WG974741
Chromium	U		0.000540	0.00200	1	05/01/2017 18:45	WG974741
Chromium,Dissolved	U		0.000540	0.00200	1	05/01/2017 20:30	WG974738
Cobalt	U		0.000260	0.00200	1	05/01/2017 18:45	WG974741
Cobalt,Dissolved	U		0.000260	0.00200	1	05/01/2017 20:30	WG974738
Iron	0.521		0.0150	0.100	1	05/01/2017 18:45	WG974741
Iron,Dissolved	0.123		0.0150	0.100	1	05/01/2017 20:30	WG974738
Lead	0.00218		0.000240	0.00200	1	05/01/2017 18:45	WG974741
Lead,Dissolved	0.00131	J	0.000240	0.00200	1	05/01/2017 23:19	WG974738
Manganese	0.333		0.000250	0.00500	1	05/01/2017 18:45	WG974741
Manganese,Dissolved	0.319		0.000250	0.00500	1	05/01/2017 20:30	WG974738
Nickel	0.000637	J	0.000350	0.00200	1	05/01/2017 18:45	WG974741
Nickel,Dissolved	0.000589	J	0.000350	0.00200	1	05/01/2017 20:30	WG974738
Potassium	0.370	J	0.0370	1.00	1	05/01/2017 18:45	WG974741
Selenium	U		0.000380	0.00200	1	05/01/2017 18:45	WG974741
Selenium,Dissolved	U		0.000380	0.00200	1	05/01/2017 20:30	WG974738
Sodium	123		0.110	1.00	1	05/01/2017 18:45	WG974741

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Uranium	U		0.000330	0.0100	1	05/01/2017 18:45	WG974741
Uranium,Dissolved	U		0.000330	0.0100	1	05/02/2017 06:54	WG974738
Vanadium	0.00233	J	0.000180	0.00500	1	05/01/2017 18:45	WG974741
Vanadium,Dissolved	0.00242	J	0.000180	0.00500	1	05/01/2017 20:30	WG974738

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		1.00	5.00	100	05/04/2017 23:39	WG976754
Benzene	3.00		0.0331	0.100	100	05/04/2017 23:39	WG976754
Bromodichloromethane	U		0.0380	0.100	100	05/04/2017 23:39	WG976754
Bromoform	U		0.0469	0.100	100	05/04/2017 23:39	WG976754
Bromomethane	U		0.0866	0.500	100	05/04/2017 23:39	WG976754
n-Butylbenzene	U		0.0361	0.100	100	05/04/2017 23:39	WG976754
sec-Butylbenzene	U		0.0365	0.100	100	05/04/2017 23:39	WG976754
Carbon disulfide	U		0.0275	0.100	100	05/04/2017 23:39	WG976754
Carbon tetrachloride	U		0.0379	0.100	100	05/04/2017 23:39	WG976754
Chlorobenzene	U		0.0348	0.100	100	05/04/2017 23:39	WG976754
Chlorodibromomethane	U		0.0327	0.100	100	05/04/2017 23:39	WG976754
Chloroethane	U		0.0453	0.500	100	05/04/2017 23:39	WG976754
Chloroform	U		0.0324	0.500	100	05/04/2017 23:39	WG976754
Chloromethane	U		0.0276	0.250	100	05/04/2017 23:39	WG976754
1,2-Dibromoethane	U		0.0381	0.100	100	05/04/2017 23:39	WG976754
1,1-Dichloroethane	U		0.0259	0.100	100	05/04/2017 23:39	WG976754
1,2-Dichloroethane	U		0.0361	0.100	100	05/04/2017 23:39	WG976754
1,1-Dichloroethene	U		0.0398	0.100	100	05/04/2017 23:39	WG976754
cis-1,2-Dichloroethene	U		0.0260	0.100	100	05/04/2017 23:39	WG976754
trans-1,2-Dichloroethene	U		0.0396	0.100	100	05/04/2017 23:39	WG976754
1,2-Dichloropropane	U		0.0306	0.100	100	05/04/2017 23:39	WG976754
cis-1,3-Dichloropropene	U		0.0418	0.100	100	05/04/2017 23:39	WG976754
trans-1,3-Dichloropropene	U		0.0419	0.100	100	05/04/2017 23:39	WG976754
Ethylbenzene	0.720		0.0384	0.100	100	05/04/2017 23:39	WG976754
Isopropylbenzene	0.0511	J	0.0326	0.100	100	05/04/2017 23:39	WG976754
p-Isopropyltoluene	U		0.0350	0.100	100	05/04/2017 23:39	WG976754
2-Butanone (MEK)	U		0.393	1.00	100	05/04/2017 23:39	WG976754
2-Hexanone	U		0.382	1.00	100	05/04/2017 23:39	WG976754
Methylene Chloride	U		0.100	0.500	100	05/04/2017 23:39	WG976754
4-Methyl-2-pentanone (MIBK)	U		0.214	1.00	100	05/04/2017 23:39	WG976754
Methyl tert-butyl ether	U		0.0367	0.100	100	05/04/2017 23:39	WG976754
Naphthalene	0.191	J	0.100	0.500	100	05/04/2017 23:39	WG976754
n-Propylbenzene	0.0910	J	0.0349	0.100	100	05/04/2017 23:39	WG976754
Styrene	U		0.0307	0.100	100	05/04/2017 23:39	WG976754
1,1,1,2-Tetrachloroethane	U		0.0385	0.100	100	05/04/2017 23:39	WG976754
1,1,2,2-Tetrachloroethane	U		0.0130	0.100	100	05/04/2017 23:39	WG976754
Tetrachloroethene	U		0.0372	0.100	100	05/04/2017 23:39	WG976754
Toluene	U		0.0412	0.100	100	05/04/2017 23:39	WG976754
1,1,1-Trichloroethane	U		0.0319	0.100	100	05/04/2017 23:39	WG976754
1,1,2-Trichloroethane	U		0.0383	0.100	100	05/04/2017 23:39	WG976754
Trichloroethene	U		0.0398	0.100	100	05/04/2017 23:39	WG976754
1,2,4-Trimethylbenzene	0.517		0.0373	0.100	100	05/04/2017 23:39	WG976754
1,3,5-Trimethylbenzene	U		0.0387	0.100	100	05/04/2017 23:39	WG976754
Vinyl chloride	U		0.0259	0.100	100	05/04/2017 23:39	WG976754
o-Xylene	U		0.0341	0.100	100	05/04/2017 23:39	WG976754
m&p-Xylene	0.533		0.0719	0.200	100	05/04/2017 23:39	WG976754
Xylenes, Total	0.533		0.106	0.300	100	05/04/2017 23:39	WG976754
(S) Toluene-d8	*94.5*			*80.0-120*		*05/04/2017 23:39*	WG976754

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) Dibromofluoromethane	*81.8*			*76.0-123*		*05/04/2017 23:39*	WG976754
(S) 4-Bromofluorobenzene	*92.6*			*80.0-120*		*05/04/2017 23:39*	WG976754

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	7.23		0.0247	0.100	1	05/01/2017 17:13	WG975178
(S) o-Terphenyl	*103*			*31.0-160*		*05/01/2017 17:13*	WG975178

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Dissolved Solids	22300		2.82	10.0	1	05/01/2017 09:04	WG974890

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	0.0530	J	0.0197	0.100	1	05/01/2017 16:58	WG974946

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	12000		26.0	500	500	04/29/2017 17:57	WG975172
Fluoride	1.39		0.00990	0.100	1	04/28/2017 20:25	WG974576
Sulfate	48.0		0.0774	5.00	1	04/28/2017 20:25	WG974576

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.00848	J	0.00500	0.0400	20	05/10/2017 14:45	WG974741
Arsenic,Dissolved	0.00797		0.000250	0.00200	1	05/01/2017 22:46	WG974738
Barium	8.12		0.00720	0.100	20	05/10/2017 14:45	WG974741
Barium,Dissolved	6.62		0.000360	0.00500	1	05/01/2017 22:46	WG974738
Calcium	306		0.920	20.0	20	05/10/2017 14:45	WG974741
Chromium	U		0.0108	0.0400	20	05/10/2017 14:45	WG974741
Chromium,Dissolved	U		0.000540	0.00200	1	05/01/2017 22:46	WG974738
Iron	U		0.300	2.00	20	05/10/2017 14:45	WG974741
Iron,Dissolved	U		0.0150	0.100	1	05/01/2017 22:46	WG974738
Lead	U		0.00480	0.0400	20	05/10/2017 14:45	WG974741
Lead,Dissolved	U		0.0240	0.200	100	05/01/2017 23:30	WG974738
Manganese	0.00689	J	0.00500	0.100	20	05/10/2017 14:45	WG974741
Manganese,Dissolved	0.00621		0.000250	0.00500	1	05/01/2017 22:46	WG974738
Potassium	3.12	J	0.740	20.0	20	05/10/2017 14:45	WG974741
Selenium	U		0.00760	0.0400	20	05/10/2017 16:11	WG974741
Selenium,Dissolved	U		0.000380	0.00200	1	05/01/2017 22:46	WG974738
Sodium	10000		2.20	20.0	20	05/10/2017 14:45	WG974741

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	3.46		0.314	1.00	10	04/28/2017 18:30	WG974800
(S) a,a,a-Trifluorotoluene(FID)	*98.7*			*77.0-122*		*04/28/2017 18:30*	WG974800

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		0.500	2.50	50	05/04/2017 23:54	WG976754
Benzene	1.30		0.0166	0.0500	50	05/04/2017 23:54	WG976754
Bromodichloromethane	U		0.0190	0.0500	50	05/04/2017 23:54	WG976754
Bromoform	U		0.0234	0.0500	50	05/04/2017 23:54	WG976754
Bromomethane	U		0.0433	0.250	50	05/04/2017 23:54	WG976754
n-Butylbenzene	U		0.0180	0.0500	50	05/04/2017 23:54	WG976754
sec-Butylbenzene	U		0.0182	0.0500	50	05/04/2017 23:54	WG976754
Carbon disulfide	U		0.0138	0.0500	50	05/04/2017 23:54	WG976754
Carbon tetrachloride	U		0.0190	0.0500	50	05/04/2017 23:54	WG976754

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		0.0174	0.0500	50	05/04/2017 23:54	WG976754
Chlorodibromomethane	U		0.0164	0.0500	50	05/04/2017 23:54	WG976754
Chloroethane	U		0.0226	0.250	50	05/04/2017 23:54	WG976754
Chloroform	U		0.0162	0.250	50	05/04/2017 23:54	WG976754
Chloromethane	U		0.0138	0.125	50	05/04/2017 23:54	WG976754
1,2-Dibromoethane	U		0.0190	0.0500	50	05/04/2017 23:54	WG976754
1,1-Dichloroethane	U		0.0130	0.0500	50	05/04/2017 23:54	WG976754
1,2-Dichloroethane	U		0.0180	0.0500	50	05/04/2017 23:54	WG976754
1,1-Dichloroethene	U		0.0199	0.0500	50	05/04/2017 23:54	WG976754
cis-1,2-Dichloroethene	U		0.0130	0.0500	50	05/04/2017 23:54	WG976754
trans-1,2-Dichloroethene	U		0.0198	0.0500	50	05/04/2017 23:54	WG976754
1,2-Dichloropropane	U		0.0153	0.0500	50	05/04/2017 23:54	WG976754
cis-1,3-Dichloropropene	U		0.0209	0.0500	50	05/04/2017 23:54	WG976754
trans-1,3-Dichloropropene	U		0.0210	0.0500	50	05/04/2017 23:54	WG976754
Ethylbenzene	U		0.0192	0.0500	50	05/04/2017 23:54	WG976754
Isopropylbenzene	0.0192	J	0.0163	0.0500	50	05/04/2017 23:54	WG976754
p-Isopropyltoluene	U		0.0175	0.0500	50	05/04/2017 23:54	WG976754
2-Butanone (MEK)	U		0.196	0.500	50	05/04/2017 23:54	WG976754
2-Hexanone	U		0.191	0.500	50	05/04/2017 23:54	WG976754
Methylene Chloride	U		0.0500	0.250	50	05/04/2017 23:54	WG976754
4-Methyl-2-pentanone (MIBK)	U		0.107	0.500	50	05/04/2017 23:54	WG976754
Methyl tert-butyl ether	U		0.0184	0.0500	50	05/04/2017 23:54	WG976754
Naphthalene	U		0.0500	0.250	50	05/04/2017 23:54	WG976754
n-Propylbenzene	0.0295	J	0.0174	0.0500	50	05/04/2017 23:54	WG976754
Styrene	U		0.0154	0.0500	50	05/04/2017 23:54	WG976754
1,1,1,2-Tetrachloroethane	U		0.0192	0.0500	50	05/04/2017 23:54	WG976754
1,1,2,2-Tetrachloroethane	U		0.00650	0.0500	50	05/04/2017 23:54	WG976754
Tetrachloroethene	U		0.0186	0.0500	50	05/04/2017 23:54	WG976754
Toluene	U		0.0206	0.0500	50	05/04/2017 23:54	WG976754
1,1,1-Trichloroethane	U		0.0160	0.0500	50	05/04/2017 23:54	WG976754
1,1,2-Trichloroethane	U		0.0192	0.0500	50	05/04/2017 23:54	WG976754
Trichloroethene	U		0.0199	0.0500	50	05/04/2017 23:54	WG976754
1,2,4-Trimethylbenzene	U		0.0186	0.0500	50	05/04/2017 23:54	WG976754
1,3,5-Trimethylbenzene	U		0.0194	0.0500	50	05/04/2017 23:54	WG976754
Vinyl chloride	U		0.0130	0.0500	50	05/04/2017 23:54	WG976754
o-Xylene	U		0.0170	0.0500	50	05/04/2017 23:54	WG976754
m&p-Xylene	U		0.0360	0.100	50	05/04/2017 23:54	WG976754
Xylenes, Total	U		0.0530	0.150	50	05/04/2017 23:54	WG976754
(S) Toluene-d8	*95.9*			*80.0-120*		*05/04/2017 23:54*	WG976754
(S) Dibromofluoromethane	*83.9*			*76.0-123*		*05/04/2017 23:54*	WG976754
(S) 4-Bromofluorobenzene	*91.1*			*80.0-120*		*05/04/2017 23:54*	WG976754

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	6.94		0.0247	0.100	1	05/01/2017 17:29	WG975178
(S) o-Terphenyl	*86.8*			*31.0-160*		*05/01/2017 17:29*	WG975178

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Dissolved Solids	986		2.82	10.0	1	05/01/2017 09:04	WG974890

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	0.0450	J J6	0.0197	0.100	1	05/01/2017 16:59	WG974946

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	209		2.60	50.0	50	04/28/2017 21:09	WG974576
Fluoride	1.94		0.00990	0.100	1	04/28/2017 20:54	WG974576
Sulfate	217		0.387	25.0	5	04/29/2017 18:12	WG975172

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.0551		0.000250	0.00200	1	05/01/2017 20:19	WG974741
Arsenic,Dissolved	0.0540		0.000250	0.00200	1	05/01/2017 22:49	WG974738
Barium	0.0438		0.000360	0.00500	1	05/01/2017 20:19	WG974741
Barium,Dissolved	0.0440		0.000360	0.00500	1	05/01/2017 22:49	WG974738
Calcium	203		0.0460	1.00	1	05/01/2017 20:19	WG974741
Chromium	U		0.000540	0.00200	1	05/01/2017 20:19	WG974741
Chromium,Dissolved	U		0.000540	0.00200	1	05/01/2017 22:49	WG974738
Iron	0.0283	J	0.0150	0.100	1	05/01/2017 20:19	WG974741
Iron,Dissolved	U		0.0150	0.100	1	05/01/2017 22:49	WG974738
Lead	U		0.000240	0.00200	1	05/01/2017 20:19	WG974741
Lead,Dissolved	U		0.000240	0.00200	1	05/01/2017 22:49	WG974738
Manganese	0.00109	J	0.000250	0.00500	1	05/01/2017 20:19	WG974741
Manganese,Dissolved	0.00112	J	0.000250	0.00500	1	05/01/2017 22:49	WG974738
Potassium	5.56		0.0370	1.00	1	05/01/2017 20:19	WG974741
Selenium	U		0.000380	0.00200	1	05/01/2017 20:19	WG974741
Selenium,Dissolved	U		0.000380	0.00200	1	05/01/2017 22:49	WG974738
Sodium	50.9		0.110	1.00	1	05/01/2017 20:19	WG974741

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	1.66		0.314	1.00	10	04/28/2017 18:51	WG974800
(S) a,a,a-Trifluorotoluene(FID)	*102*			*77.0-122*		*04/28/2017 18:51*	WG974800

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		0.100	0.500	10	05/05/2017 00:09	WG976754
Benzene	0.741		0.00331	0.0100	10	05/05/2017 00:09	WG976754
Bromodichloromethane	U		0.00380	0.0100	10	05/05/2017 00:09	WG976754
Bromoform	U		0.00469	0.0100	10	05/05/2017 00:09	WG976754
Bromomethane	U		0.00866	0.0500	10	05/05/2017 00:09	WG976754
n-Butylbenzene	U		0.00361	0.0100	10	05/05/2017 00:09	WG976754
sec-Butylbenzene	0.0327		0.00365	0.0100	10	05/05/2017 00:09	WG976754
Carbon disulfide	U		0.00275	0.0100	10	05/05/2017 00:09	WG976754
Carbon tetrachloride	U		0.00379	0.0100	10	05/05/2017 00:09	WG976754

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		0.00348	0.0100	10	05/05/2017 00:09	WG976754
Chlorodibromomethane	U		0.00327	0.0100	10	05/05/2017 00:09	WG976754
Chloroethane	U		0.00453	0.0500	10	05/05/2017 00:09	WG976754
Chloroform	U		0.00324	0.0500	10	05/05/2017 00:09	WG976754
Chloromethane	U		0.00276	0.0250	10	05/05/2017 00:09	WG976754
1,2-Dibromoethane	U		0.00381	0.0100	10	05/05/2017 00:09	WG976754
1,1-Dichloroethane	U		0.00259	0.0100	10	05/05/2017 00:09	WG976754
1,2-Dichloroethane	U		0.00361	0.0100	10	05/05/2017 00:09	WG976754
1,1-Dichloroethene	U		0.00398	0.0100	10	05/05/2017 00:09	WG976754
cis-1,2-Dichloroethene	U		0.00260	0.0100	10	05/05/2017 00:09	WG976754
trans-1,2-Dichloroethene	U		0.00396	0.0100	10	05/05/2017 00:09	WG976754
1,2-Dichloropropane	U		0.00306	0.0100	10	05/05/2017 00:09	WG976754
cis-1,3-Dichloropropene	U		0.00418	0.0100	10	05/05/2017 00:09	WG976754
trans-1,3-Dichloropropene	U		0.00419	0.0100	10	05/05/2017 00:09	WG976754
Ethylbenzene	0.0244		0.00384	0.0100	10	05/05/2017 00:09	WG976754
Isopropylbenzene	0.0565		0.00326	0.0100	10	05/05/2017 00:09	WG976754
p-Isopropyltoluene	U		0.00350	0.0100	10	05/05/2017 00:09	WG976754
2-Butanone (MEK)	U		0.0393	0.100	10	05/05/2017 00:09	WG976754
2-Hexanone	U		0.0382	0.100	10	05/05/2017 00:09	WG976754
Methylene Chloride	U		0.0100	0.0500	10	05/05/2017 00:09	WG976754
4-Methyl-2-pentanone (MIBK)	U		0.0214	0.100	10	05/05/2017 00:09	WG976754
Methyl tert-butyl ether	U		0.00367	0.0100	10	05/05/2017 00:09	WG976754
Naphthalene	U		0.0100	0.0500	10	05/05/2017 00:09	WG976754
n-Propylbenzene	0.00933	J	0.00349	0.0100	10	05/05/2017 00:09	WG976754
Styrene	U		0.00307	0.0100	10	05/05/2017 00:09	WG976754
1,1,1,2-Tetrachloroethane	U		0.00385	0.0100	10	05/05/2017 00:09	WG976754
1,1,2,2-Tetrachloroethane	U		0.00130	0.0100	10	05/05/2017 00:09	WG976754
Tetrachloroethene	U		0.00372	0.0100	10	05/05/2017 00:09	WG976754
Toluene	U		0.00412	0.0100	10	05/05/2017 00:09	WG976754
1,1,1-Trichloroethane	U		0.00319	0.0100	10	05/05/2017 00:09	WG976754
1,1,2-Trichloroethane	0.00750	J	0.00383	0.0100	10	05/05/2017 00:09	WG976754
Trichloroethene	U		0.00398	0.0100	10	05/05/2017 00:09	WG976754
1,2,4-Trimethylbenzene	U		0.00373	0.0100	10	05/05/2017 00:09	WG976754
1,3,5-Trimethylbenzene	U		0.00387	0.0100	10	05/05/2017 00:09	WG976754
Vinyl chloride	U		0.00259	0.0100	10	05/05/2017 00:09	WG976754
o-Xylene	U		0.00341	0.0100	10	05/05/2017 00:09	WG976754
m&p-Xylene	U		0.00719	0.0200	10	05/05/2017 00:09	WG976754
Xylenes, Total	U		0.0106	0.0300	10	05/05/2017 00:09	WG976754
(S) Toluene-d8	*98.2*			*80.0-120*		*05/05/2017 00:09*	WG976754
(S) Dibromofluoromethane	*82.1*			*76.0-123*		*05/05/2017 00:09*	WG976754
(S) 4-Bromofluorobenzene	*90.0*			*80.0-120*		*05/05/2017 00:09*	WG976754

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	5.36		0.0247	0.100	1	05/01/2017 17:46	WG975178
(S) o-Terphenyl	*95.2*			*31.0-160*		*05/01/2017 17:46*	WG975178

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Dissolved Solids	1760		2.82	10.0	1	05/01/2017 09:04	WG974890

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	0.0400	J	0.0197	0.100	1	05/01/2017 17:01	WG974946

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	382		5.19	100	100	04/28/2017 21:24	WG974576
Fluoride	1.03		0.00990	0.100	1	04/28/2017 21:54	WG974576
Sulfate	3.93	J	0.0774	5.00	1	04/28/2017 21:54	WG974576

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.0346		0.000250	0.00200	1	05/01/2017 20:22	WG974741
Arsenic,Dissolved	0.0382		0.000250	0.00200	1	05/01/2017 22:53	WG974738
Barium	2.00		0.000360	0.00500	1	05/01/2017 20:22	WG974741
Barium,Dissolved	1.88		0.000360	0.00500	1	05/01/2017 22:53	WG974738
Calcium	99.7		0.0460	1.00	1	05/01/2017 20:22	WG974741
Chromium	U		0.000540	0.00200	1	05/01/2017 20:22	WG974741
Chromium,Dissolved	U		0.000540	0.00200	1	05/01/2017 22:53	WG974738
Iron	0.151		0.0150	0.100	1	05/01/2017 20:22	WG974741
Iron,Dissolved	U		0.0150	0.100	1	05/01/2017 22:53	WG974738
Lead	0.000997	J	0.000240	0.00200	1	05/01/2017 20:22	WG974741
Lead,Dissolved	U		0.000240	0.00200	1	05/01/2017 22:53	WG974738
Manganese	0.0515		0.000250	0.00500	1	05/01/2017 20:22	WG974741
Manganese,Dissolved	0.0479		0.000250	0.00500	1	05/01/2017 22:53	WG974738
Potassium	0.774	J	0.0370	1.00	1	05/01/2017 20:22	WG974741
Selenium	0.000642	J	0.000380	0.00200	1	05/01/2017 20:22	WG974741
Selenium,Dissolved	0.000431	J	0.000380	0.00200	1	05/01/2017 22:53	WG974738
Sodium	367		0.110	1.00	1	05/01/2017 20:22	WG974741

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	109		0.785	2.50	25	04/28/2017 19:12	WG974800
(S) a,a,a-Trifluorotoluene(FID)	*82.7*			*77.0-122*		*04/28/2017 19:12*	WG974800

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		2.50	12.5	250	05/05/2017 00:23	WG976754
Benzene	3.22		0.166	0.500	500	05/08/2017 14:46	WG976754
Bromodichloromethane	U		0.0950	0.250	250	05/05/2017 00:23	WG976754
Bromoform	U		0.117	0.250	250	05/05/2017 00:23	WG976754
Bromomethane	U		0.216	1.25	250	05/05/2017 00:23	WG976754
n-Butylbenzene	U		0.0902	0.250	250	05/05/2017 00:23	WG976754
sec-Butylbenzene	U		0.0912	0.250	250	05/05/2017 00:23	WG976754
Carbon disulfide	U		0.0688	0.250	250	05/05/2017 00:23	WG976754
Carbon tetrachloride	U		0.0948	0.250	250	05/05/2017 00:23	WG976754

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		0.0870	0.250	250	05/05/2017 00:23	WG976754
Chlorodibromomethane	U		0.0818	0.250	250	05/05/2017 00:23	WG976754
Chloroethane	U		0.113	1.25	250	05/05/2017 00:23	WG976754
Chloroform	U		0.0810	1.25	250	05/05/2017 00:23	WG976754
Chloromethane	U		0.0690	0.625	250	05/05/2017 00:23	WG976754
1,2-Dibromoethane	U		0.0952	0.250	250	05/05/2017 00:23	WG976754
1,1-Dichloroethane	U		0.0648	0.250	250	05/05/2017 00:23	WG976754
1,2-Dichloroethane	U		0.0902	0.250	250	05/05/2017 00:23	WG976754
1,1-Dichloroethene	U		0.0995	0.250	250	05/05/2017 00:23	WG976754
cis-1,2-Dichloroethene	U		0.0650	0.250	250	05/05/2017 00:23	WG976754
trans-1,2-Dichloroethene	U		0.0990	0.250	250	05/05/2017 00:23	WG976754
1,2-Dichloropropane	U		0.0765	0.250	250	05/05/2017 00:23	WG976754
cis-1,3-Dichloropropene	U		0.104	0.250	250	05/05/2017 00:23	WG976754
trans-1,3-Dichloropropene	U		0.105	0.250	250	05/05/2017 00:23	WG976754
Ethylbenzene	3.35		0.0960	0.250	250	05/05/2017 00:23	WG976754
Isopropylbenzene	0.0986	J	0.0815	0.250	250	05/05/2017 00:23	WG976754
p-Isopropyltoluene	U		0.0875	0.250	250	05/05/2017 00:23	WG976754
2-Butanone (MEK)	U		0.982	2.50	250	05/05/2017 00:23	WG976754
2-Hexanone	U		0.955	2.50	250	05/05/2017 00:23	WG976754
Methylene Chloride	U		0.250	1.25	250	05/05/2017 00:23	WG976754
4-Methyl-2-pentanone (MIBK)	U		0.535	2.50	250	05/05/2017 00:23	WG976754
Methyl tert-butyl ether	0.408		0.0918	0.250	250	05/05/2017 00:23	WG976754
Naphthalene	U		0.250	1.25	250	05/05/2017 00:23	WG976754
n-Propylbenzene	0.146	J	0.0872	0.250	250	05/05/2017 00:23	WG976754
Styrene	U		0.0768	0.250	250	05/05/2017 00:23	WG976754
1,1,1,2-Tetrachloroethane	U		0.0962	0.250	250	05/05/2017 00:23	WG976754
1,1,2,2-Tetrachloroethane	U		0.0325	0.250	250	05/05/2017 00:23	WG976754
Tetrachloroethene	U		0.0930	0.250	250	05/05/2017 00:23	WG976754
Toluene	13.2		0.103	0.250	250	05/05/2017 00:23	WG976754
1,1,1-Trichloroethane	U		0.0798	0.250	250	05/05/2017 00:23	WG976754
1,1,2-Trichloroethane	U		0.0958	0.250	250	05/05/2017 00:23	WG976754
Trichloroethene	U		0.0995	0.250	250	05/05/2017 00:23	WG976754
1,2,4-Trimethylbenzene	0.793		0.0932	0.250	250	05/05/2017 00:23	WG976754
1,3,5-Trimethylbenzene	0.163	J	0.0968	0.250	250	05/05/2017 00:23	WG976754
Vinyl chloride	U		0.0648	0.250	250	05/05/2017 00:23	WG976754
o-Xylene	2.09		0.0852	0.250	250	05/05/2017 00:23	WG976754
m&p-Xylene	5.49		0.180	0.500	250	05/05/2017 00:23	WG976754
Xylenes, Total	7.58		0.265	0.750	250	05/05/2017 00:23	WG976754
(S) Toluene-d8	*94.2*			*80.0-120*		*05/05/2017 00:23*	WG976754
(S) Toluene-d8	*104*			*80.0-120*		*05/08/2017 14:46*	WG976754
(S) Dibromofluoromethane	*82.3*			*76.0-123*		*05/05/2017 00:23*	WG976754
(S) Dibromofluoromethane	*102*			*76.0-123*		*05/08/2017 14:46*	WG976754
(S) 4-Bromofluorobenzene	*94.2*			*80.0-120*		*05/05/2017 00:23*	WG976754
(S) 4-Bromofluorobenzene	*96.2*			*80.0-120*		*05/08/2017 14:46*	WG976754

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	9.88		0.0247	0.100	1	05/01/2017 18:03	WG975178
(S) o-Terphenyl	*78.6*			*31.0-160*		*05/01/2017 18:03*	WG975178

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Dissolved Solids	1430		2.82	10.0	1	05/01/2017 09:04	WG974890

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	0.0330	J	0.0197	0.100	1	05/01/2017 17:02	WG974946

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	354		5.19	100	100	04/28/2017 22:09	WG974576
Fluoride	1.38		0.00990	0.100	1	04/28/2017 23:09	WG974576
Sulfate	0.822	J	0.0774	5.00	1	04/28/2017 23:09	WG974576

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.0108		0.000250	0.00200	1	05/01/2017 20:27	WG974741
Arsenic,Dissolved	0.0107		0.000250	0.00200	1	05/01/2017 22:56	WG974738
Barium	3.01		0.000360	0.00500	1	05/01/2017 20:27	WG974741
Barium,Dissolved	2.81		0.000360	0.00500	1	05/01/2017 22:56	WG974738
Calcium	134		0.0460	1.00	1	05/01/2017 20:27	WG974741
Chromium	U		0.000540	0.00200	1	05/01/2017 20:27	WG974741
Chromium,Dissolved	U		0.000540	0.00200	1	05/01/2017 22:56	WG974738
Iron	1.58		0.0150	0.100	1	05/01/2017 20:27	WG974741
Iron,Dissolved	0.124		0.0150	0.100	1	05/01/2017 22:56	WG974738
Lead	0.000874	J	0.000240	0.00200	1	05/01/2017 20:27	WG974741
Lead,Dissolved	U		0.000240	0.00200	1	05/01/2017 22:56	WG974738
Manganese	0.593		0.000250	0.00500	1	05/01/2017 20:27	WG974741
Manganese,Dissolved	0.547		0.000250	0.00500	1	05/01/2017 22:56	WG974738
Potassium	1.01		0.0370	1.00	1	05/01/2017 20:27	WG974741
Selenium	U		0.000380	0.00200	1	05/01/2017 20:27	WG974741
Selenium,Dissolved	U		0.000380	0.00200	1	05/01/2017 22:56	WG974738
Sodium	279		0.110	1.00	1	05/01/2017 20:27	WG974741

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	18.5		0.157	0.500	5	04/28/2017 19:33	WG974800
(S) a,a,a-Trifluorotoluene(FID)	*89.7*			*77.0-122*		*04/28/2017 19:33*	WG974800

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		1.00	5.00	100	05/05/2017 00:38	WG976754
Benzene	6.70		0.0331	0.100	100	05/05/2017 00:38	WG976754
Bromodichloromethane	U		0.0380	0.100	100	05/05/2017 00:38	WG976754
Bromoform	U		0.0469	0.100	100	05/05/2017 00:38	WG976754
Bromomethane	U		0.0866	0.500	100	05/05/2017 00:38	WG976754
n-Butylbenzene	U		0.0361	0.100	100	05/05/2017 00:38	WG976754
sec-Butylbenzene	U		0.0365	0.100	100	05/05/2017 00:38	WG976754
Carbon disulfide	U		0.0275	0.100	100	05/05/2017 00:38	WG976754
Carbon tetrachloride	U		0.0379	0.100	100	05/05/2017 00:38	WG976754

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		0.0348	0.100	100	05/05/2017 00:38	WG976754
Chlorodibromomethane	U		0.0327	0.100	100	05/05/2017 00:38	WG976754
Chloroethane	U		0.0453	0.500	100	05/05/2017 00:38	WG976754
Chloroform	U		0.0324	0.500	100	05/05/2017 00:38	WG976754
Chloromethane	U		0.0276	0.250	100	05/05/2017 00:38	WG976754
1,2-Dibromoethane	U		0.0381	0.100	100	05/05/2017 00:38	WG976754
1,1-Dichloroethane	U		0.0259	0.100	100	05/05/2017 00:38	WG976754
1,2-Dichloroethane	U		0.0361	0.100	100	05/05/2017 00:38	WG976754
1,1-Dichloroethene	U		0.0398	0.100	100	05/05/2017 00:38	WG976754
cis-1,2-Dichloroethene	U		0.0260	0.100	100	05/05/2017 00:38	WG976754
trans-1,2-Dichloroethene	U		0.0396	0.100	100	05/05/2017 00:38	WG976754
1,2-Dichloropropane	U		0.0306	0.100	100	05/05/2017 00:38	WG976754
cis-1,3-Dichloropropene	U		0.0418	0.100	100	05/05/2017 00:38	WG976754
trans-1,3-Dichloropropene	U		0.0419	0.100	100	05/05/2017 00:38	WG976754
Ethylbenzene	0.0768	J	0.0384	0.100	100	05/05/2017 00:38	WG976754
Isopropylbenzene	0.0479	J	0.0326	0.100	100	05/05/2017 00:38	WG976754
p-Isopropyltoluene	U		0.0350	0.100	100	05/05/2017 00:38	WG976754
2-Butanone (MEK)	U		0.393	1.00	100	05/05/2017 00:38	WG976754
2-Hexanone	U		0.382	1.00	100	05/05/2017 00:38	WG976754
Methylene Chloride	U		0.100	0.500	100	05/05/2017 00:38	WG976754
4-Methyl-2-pentanone (MIBK)	U		0.214	1.00	100	05/05/2017 00:38	WG976754
Methyl tert-butyl ether	2.27		0.0367	0.100	100	05/05/2017 00:38	WG976754
Naphthalene	0.205	J	0.100	0.500	100	05/05/2017 00:38	WG976754
n-Propylbenzene	0.0493	J	0.0349	0.100	100	05/05/2017 00:38	WG976754
Styrene	U		0.0307	0.100	100	05/05/2017 00:38	WG976754
1,1,1,2-Tetrachloroethane	U		0.0385	0.100	100	05/05/2017 00:38	WG976754
1,1,2,2-Tetrachloroethane	U		0.0130	0.100	100	05/05/2017 00:38	WG976754
Tetrachloroethene	U		0.0372	0.100	100	05/05/2017 00:38	WG976754
Toluene	U		0.0412	0.100	100	05/05/2017 00:38	WG976754
1,1,1-Trichloroethane	U		0.0319	0.100	100	05/05/2017 00:38	WG976754
1,1,2-Trichloroethane	U		0.0383	0.100	100	05/05/2017 00:38	WG976754
Trichloroethene	U		0.0398	0.100	100	05/05/2017 00:38	WG976754
1,2,4-Trimethylbenzene	U		0.0373	0.100	100	05/05/2017 00:38	WG976754
1,3,5-Trimethylbenzene	U		0.0387	0.100	100	05/05/2017 00:38	WG976754
Vinyl chloride	U		0.0259	0.100	100	05/05/2017 00:38	WG976754
o-Xylene	U		0.0341	0.100	100	05/05/2017 00:38	WG976754
m&p-Xylene	0.0736	J	0.0719	0.200	100	05/05/2017 00:38	WG976754
Xylenes, Total	U		0.106	0.300	100	05/05/2017 00:38	WG976754
(S) Toluene-d8	*93.3*			*80.0-120*		*05/05/2017 00:38*	WG976754
(S) Dibromofluoromethane	*79.0*			*76.0-123*		*05/05/2017 00:38*	WG976754
(S) 4-Bromofluorobenzene	*93.1*			*80.0-120*		*05/05/2017 00:38*	WG976754

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	8.30		0.0247	0.100	1	05/01/2017 18:20	WG975178
(S) o-Terphenyl	*111*			*31.0-160*		*05/01/2017 18:20*	WG975178

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Dissolved Solids	2270		2.82	10.0	1	04/29/2017 13:05	WG974898

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	16.3		0.197	1.00	10	05/03/2017 14:38	WG975894

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	05/02/2017 09:35	WG974960

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	78.9		0.0519	1.00	1	05/02/2017 15:29	WG975534
Fluoride	1.67		0.00990	0.100	1	04/28/2017 23:24	WG974576
Sulfate	1060		7.74	500	100	04/28/2017 22:24	WG974576

Mercury by Method 7470A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Mercury	U		0.0000490	0.000200	1	04/28/2017 15:57	WG974464
Mercury,Dissolved	U		0.0000490	0.000200	1	04/28/2017 14:44	WG974524

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.00197	J	0.000250	0.00200	1	05/01/2017 18:49	WG974741
Arsenic,Dissolved	0.00206		0.000250	0.00200	1	05/01/2017 20:37	WG974738
Barium	0.0154		0.000360	0.00500	1	05/01/2017 18:49	WG974741
Barium,Dissolved	0.0137		0.000360	0.00500	1	05/01/2017 20:37	WG974738
Boron	0.303		0.00150	0.0200	1	05/01/2017 18:49	WG974741
Boron,Dissolved	0.265		0.00150	0.0200	1	05/01/2017 20:37	WG974738
Cadmium	U		0.000160	0.00100	1	05/01/2017 18:49	WG974741
Cadmium,Dissolved	U		0.000160	0.00100	1	05/01/2017 20:37	WG974738
Calcium	342		0.0460	1.00	1	05/01/2017 18:49	WG974741
Chromium	U		0.000540	0.00200	1	05/01/2017 18:49	WG974741
Chromium,Dissolved	U		0.000540	0.00200	1	05/01/2017 20:37	WG974738
Cobalt	U		0.000260	0.00200	1	05/01/2017 18:49	WG974741
Cobalt,Dissolved	U		0.000260	0.00200	1	05/01/2017 20:37	WG974738
Iron	0.0172	J	0.0150	0.100	1	05/01/2017 18:49	WG974741
Iron,Dissolved	U		0.0150	0.100	1	05/01/2017 20:37	WG974738
Lead	U		0.000240	0.00200	1	05/01/2017 18:49	WG974741
Lead,Dissolved	U		0.000240	0.00200	1	05/01/2017 20:37	WG974738
Manganese	0.0154		0.000250	0.00500	1	05/01/2017 18:49	WG974741
Manganese,Dissolved	0.00390	J	0.000250	0.00500	1	05/01/2017 20:37	WG974738
Nickel	0.00271		0.000350	0.00200	1	05/01/2017 18:49	WG974741
Nickel,Dissolved	0.00342		0.000350	0.00200	1	05/01/2017 20:37	WG974738
Potassium	1.60		0.0370	1.00	1	05/01/2017 18:49	WG974741
Selenium	0.00572		0.000380	0.00200	1	05/01/2017 18:49	WG974741
Selenium,Dissolved	0.00522		0.000380	0.00200	1	05/01/2017 20:37	WG974738
Sodium	94.0		0.110	1.00	1	05/01/2017 18:49	WG974741

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Uranium	0.0153		0.000330	0.0100	1	05/01/2017 18:49	WG974741
Uranium,Dissolved	0.0155		0.000330	0.0100	1	05/02/2017 06:58	WG974738
Vanadium	0.0154		0.000180	0.00500	1	05/01/2017 18:49	WG974741
Vanadium,Dissolved	0.0159		0.000180	0.00500	1	05/01/2017 20:37	WG974738

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0314	0.100	1	04/28/2017 19:54	WG974800
(S) a,a,a-Trifluorotoluene(FID)	*103*			*77.0-122*		*04/28/2017 19:54*	WG974800

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

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0100	0.0500	1	05/04/2017 22:11	WG976754
Benzene	U		0.000331	0.00100	1	05/04/2017 22:11	WG976754
Bromodichloromethane	U		0.000380	0.00100	1	05/04/2017 22:11	WG976754
Bromoform	U		0.000469	0.00100	1	05/04/2017 22:11	WG976754
Bromomethane	U		0.000866	0.00500	1	05/04/2017 22:11	WG976754
n-Butylbenzene	U		0.000361	0.00100	1	05/04/2017 22:11	WG976754
sec-Butylbenzene	U		0.000365	0.00100	1	05/04/2017 22:11	WG976754
Carbon disulfide	U		0.000275	0.00100	1	05/04/2017 22:11	WG976754
Carbon tetrachloride	U		0.000379	0.00100	1	05/04/2017 22:11	WG976754
Chlorobenzene	U		0.000348	0.00100	1	05/04/2017 22:11	WG976754
Chlorodibromomethane	U		0.000327	0.00100	1	05/04/2017 22:11	WG976754
Chloroethane	U		0.000453	0.00500	1	05/04/2017 22:11	WG976754
Chloroform	U		0.000324	0.00500	1	05/04/2017 22:11	WG976754
Chloromethane	U		0.000276	0.00250	1	05/04/2017 22:11	WG976754
1,2-Dibromoethane	U		0.000381	0.00100	1	05/04/2017 22:11	WG976754
1,1-Dichloroethane	U		0.000259	0.00100	1	05/04/2017 22:11	WG976754
1,2-Dichloroethane	U		0.000361	0.00100	1	05/04/2017 22:11	WG976754
1,1-Dichloroethene	U		0.000398	0.00100	1	05/04/2017 22:11	WG976754
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	05/04/2017 22:11	WG976754
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	05/04/2017 22:11	WG976754
1,2-Dichloropropane	U		0.000306	0.00100	1	05/04/2017 22:11	WG976754
cis-1,3-Dichloropropene	U		0.000418	0.00100	1	05/04/2017 22:11	WG976754
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	05/04/2017 22:11	WG976754
Ethylbenzene	U		0.000384	0.00100	1	05/04/2017 22:11	WG976754
Isopropylbenzene	U		0.000326	0.00100	1	05/04/2017 22:11	WG976754
p-Isopropyltoluene	U		0.000350	0.00100	1	05/04/2017 22:11	WG976754
2-Butanone (MEK)	U		0.00393	0.0100	1	05/04/2017 22:11	WG976754
2-Hexanone	U		0.00382	0.0100	1	05/04/2017 22:11	WG976754
Methylene Chloride	U		0.00100	0.00500	1	05/04/2017 22:11	WG976754
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	05/04/2017 22:11	WG976754
Methyl tert-butyl ether	U		0.000367	0.00100	1	05/04/2017 22:11	WG976754
Naphthalene	U		0.00100	0.00500	1	05/04/2017 22:11	WG976754
n-Propylbenzene	U		0.000349	0.00100	1	05/04/2017 22:11	WG976754
Styrene	U		0.000307	0.00100	1	05/04/2017 22:11	WG976754
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	05/04/2017 22:11	WG976754
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	05/04/2017 22:11	WG976754
Tetrachloroethene	U		0.000372	0.00100	1	05/04/2017 22:11	WG976754
Toluene	U		0.000412	0.00100	1	05/04/2017 22:11	WG976754
1,1,1-Trichloroethane	U		0.000319	0.00100	1	05/04/2017 22:11	WG976754
1,1,2-Trichloroethane	U		0.000383	0.00100	1	05/04/2017 22:11	WG976754
Trichloroethene	U		0.000398	0.00100	1	05/04/2017 22:11	WG976754

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
1,2,4-Trimethylbenzene	U		0.000373	0.00100	1	05/04/2017 22:11	WG976754
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	05/04/2017 22:11	WG976754
Vinyl chloride	U		0.000259	0.00100	1	05/04/2017 22:11	WG976754
o-Xylene	U		0.000341	0.00100	1	05/04/2017 22:11	WG976754
m&p-Xylene	U		0.000719	0.00200	1	05/04/2017 22:11	WG976754
Xylenes, Total	U		0.00106	0.00300	1	05/04/2017 22:11	WG976754
(S) Toluene-d8	*94.6*			*80.0-120*		*05/04/2017 22:11*	WG976754
(S) Dibromofluoromethane	*81.9*			*76.0-123*		*05/04/2017 22:11*	WG976754
(S) 4-Bromofluorobenzene	*92.5*			*80.0-120*		*05/04/2017 22:11*	WG976754

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	0.0818	J	0.0247	0.100	1	05/01/2017 18:37	WG975178
(S) o-Terphenyl	*85.3*			*31.0-160*		*05/01/2017 18:37*	WG975178

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Dissolved Solids	2140		2.82	10.0	1	04/29/2017 13:05	WG974898

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	2.60		0.197	1.00	10	05/03/2017 14:40	WG975894

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	J5	0.00180	0.00500	1	05/02/2017 09:36	WG974960

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	61.1		0.0519	1.00	1	04/29/2017 10:13	WG974576
Fluoride	0.707		0.00990	0.100	1	04/29/2017 10:13	WG974576
Sulfate	1310		7.74	500	100	04/29/2017 10:28	WG974576

Mercury by Method 7470A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Mercury	U		0.0000490	0.000200	1	04/28/2017 16:00	WG974464
Mercury,Dissolved	U		0.0000490	0.000200	1	04/28/2017 14:47	WG974524

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	0.000250	0.00200	1	05/01/2017 18:52	WG974741
Arsenic,Dissolved	0.00165	J	0.000250	0.00200	1	05/01/2017 20:40	WG974738
Barium	0.0185		0.000360	0.00500	1	05/01/2017 18:52	WG974741
Barium,Dissolved	0.0167		0.000360	0.00500	1	05/01/2017 20:40	WG974738
Boron	0.256		0.00150	0.0200	1	05/01/2017 18:52	WG974741
Boron,Dissolved	0.219		0.00150	0.0200	1	05/01/2017 20:40	WG974738
Cadmium	U		0.000160	0.00100	1	05/01/2017 18:52	WG974741
Cadmium,Dissolved	U		0.000160	0.00100	1	05/01/2017 20:40	WG974738
Calcium	393		0.0460	1.00	1	05/01/2017 18:52	WG974741
Chromium	U		0.000540	0.00200	1	05/01/2017 18:52	WG974741
Chromium,Dissolved	0.000573	J	0.000540	0.00200	1	05/01/2017 20:40	WG974738
Cobalt	0.000465	J	0.000260	0.00200	1	05/01/2017 18:52	WG974741
Cobalt,Dissolved	0.000421	J	0.000260	0.00200	1	05/01/2017 20:40	WG974738
Iron	0.0316	J	0.0150	0.100	1	05/01/2017 18:52	WG974741
Iron,Dissolved	U		0.0150	0.100	1	05/01/2017 20:40	WG974738
Lead	U		0.000240	0.00200	1	05/01/2017 18:52	WG974741
Lead,Dissolved	U		0.000240	0.00200	1	05/01/2017 23:23	WG974738
Manganese	0.00182	J	0.000250	0.00500	1	05/01/2017 18:52	WG974741
Manganese,Dissolved	0.00217	J	0.000250	0.00500	1	05/01/2017 20:40	WG974738
Nickel	0.00225		0.000350	0.00200	1	05/01/2017 18:52	WG974741
Nickel,Dissolved	0.00316		0.000350	0.00200	1	05/01/2017 20:40	WG974738
Potassium	1.74		0.0370	1.00	1	05/01/2017 18:52	WG974741
Selenium	0.00325		0.000380	0.00200	1	05/01/2017 18:52	WG974741
Selenium,Dissolved	0.00371		0.000380	0.00200	1	05/01/2017 20:40	WG974738
Sodium	70.7		0.110	1.00	1	05/01/2017 18:52	WG974741

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Uranium	0.0129		0.000330	0.0100	1	05/01/2017 18:52	WG974741
Uranium,Dissolved	0.0132		0.000330	0.0100	1	05/02/2017 07:02	WG974738
Vanadium	0.00961		0.000180	0.00500	1	05/01/2017 18:52	WG974741
Vanadium,Dissolved	0.00992		0.000180	0.00500	1	05/01/2017 20:40	WG974738

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
TPH (GC/FID) Low Fraction	U		0.0314	0.100	1	04/28/2017 20:15	WG974800
(S) a,a,a-Trifluorotoluene(FID)	*103*			*77.0-122*		*04/28/2017 20:15*	WG974800

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		0.0100	0.0500	1	05/04/2017 22:25	WG976754
Benzene	U		0.000331	0.00100	1	05/04/2017 22:25	WG976754
Bromodichloromethane	U		0.000380	0.00100	1	05/04/2017 22:25	WG976754
Bromoform	U		0.000469	0.00100	1	05/04/2017 22:25	WG976754
Bromomethane	U		0.000866	0.00500	1	05/04/2017 22:25	WG976754
n-Butylbenzene	U		0.000361	0.00100	1	05/04/2017 22:25	WG976754
sec-Butylbenzene	U		0.000365	0.00100	1	05/04/2017 22:25	WG976754
Carbon disulfide	U		0.000275	0.00100	1	05/04/2017 22:25	WG976754
Carbon tetrachloride	U		0.000379	0.00100	1	05/04/2017 22:25	WG976754
Chlorobenzene	U		0.000348	0.00100	1	05/04/2017 22:25	WG976754
Chlorodibromomethane	U		0.000327	0.00100	1	05/04/2017 22:25	WG976754
Chloroethane	U		0.000453	0.00500	1	05/04/2017 22:25	WG976754
Chloroform	U		0.000324	0.00500	1	05/04/2017 22:25	WG976754
Chloromethane	U		0.000276	0.00250	1	05/04/2017 22:25	WG976754
1,2-Dibromoethane	U		0.000381	0.00100	1	05/04/2017 22:25	WG976754
1,1-Dichloroethane	U		0.000259	0.00100	1	05/04/2017 22:25	WG976754
1,2-Dichloroethane	U		0.000361	0.00100	1	05/04/2017 22:25	WG976754
1,1-Dichloroethene	U		0.000398	0.00100	1	05/04/2017 22:25	WG976754
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	05/04/2017 22:25	WG976754
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	05/04/2017 22:25	WG976754
1,2-Dichloropropane	U		0.000306	0.00100	1	05/04/2017 22:25	WG976754
cis-1,3-Dichloropropene	U		0.000418	0.00100	1	05/04/2017 22:25	WG976754
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	05/04/2017 22:25	WG976754
Ethylbenzene	U		0.000384	0.00100	1	05/04/2017 22:25	WG976754
Isopropylbenzene	U		0.000326	0.00100	1	05/04/2017 22:25	WG976754
p-Isopropyltoluene	U		0.000350	0.00100	1	05/04/2017 22:25	WG976754
2-Butanone (MEK)	U		0.00393	0.0100	1	05/04/2017 22:25	WG976754
2-Hexanone	U		0.00382	0.0100	1	05/04/2017 22:25	WG976754
Methylene Chloride	U		0.00100	0.00500	1	05/04/2017 22:25	WG976754
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	05/04/2017 22:25	WG976754
Methyl tert-butyl ether	U		0.000367	0.00100	1	05/04/2017 22:25	WG976754
Naphthalene	U		0.00100	0.00500	1	05/04/2017 22:25	WG976754
n-Propylbenzene	U		0.000349	0.00100	1	05/04/2017 22:25	WG976754
Styrene	U		0.000307	0.00100	1	05/04/2017 22:25	WG976754
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	05/04/2017 22:25	WG976754
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	05/04/2017 22:25	WG976754
Tetrachloroethene	U		0.000372	0.00100	1	05/04/2017 22:25	WG976754
Toluene	U		0.000412	0.00100	1	05/04/2017 22:25	WG976754
1,1,1-Trichloroethane	U		0.000319	0.00100	1	05/04/2017 22:25	WG976754
1,1,2-Trichloroethane	U		0.000383	0.00100	1	05/04/2017 22:25	WG976754
Trichloroethene	U		0.000398	0.00100	1	05/04/2017 22:25	WG976754

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
1,2,4-Trimethylbenzene	U		0.000373	0.00100	1	05/04/2017 22:25	WG976754
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	05/04/2017 22:25	WG976754
Vinyl chloride	U		0.000259	0.00100	1	05/04/2017 22:25	WG976754
o-Xylene	U		0.000341	0.00100	1	05/04/2017 22:25	WG976754
m&p-Xylene	U		0.000719	0.00200	1	05/04/2017 22:25	WG976754
Xylenes, Total	U		0.00106	0.00300	1	05/04/2017 22:25	WG976754
(S) Toluene-d8	*94.1*			*80.0-120*		*05/04/2017 22:25*	WG976754
(S) Dibromofluoromethane	*82.5*			*76.0-123*		*05/04/2017 22:25*	WG976754
(S) 4-Bromofluorobenzene	*93.0*			*80.0-120*		*05/04/2017 22:25*	WG976754

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	0.0517	J	0.0247	0.100	1	05/01/2017 18:54	WG975178
(S) o-Terphenyl	*85.3*			*31.0-160*		*05/01/2017 18:54*	WG975178

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Dissolved Solids	3390		2.82	10.0	1	04/29/2017 13:05	WG974898

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	15.0		0.197	1.00	10	05/03/2017 14:41	WG975894

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	05/02/2017 09:41	WG974960

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	178		5.19	100	100	04/29/2017 13:27	WG974576
Fluoride	0.928		0.00990	0.100	1	04/29/2017 13:12	WG974576
Sulfate	1830		7.74	500	100	04/29/2017 13:27	WG974576

Mercury by Method 7470A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Mercury	U		0.0000490	0.000200	1	04/29/2017 07:31	WG974554
Mercury,Dissolved	U		0.0000490	0.000200	1	04/28/2017 14:49	WG974524

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.00106	J	0.000250	0.00200	1	05/01/2017 18:56	WG974741
Arsenic,Dissolved	0.00113	J	0.000250	0.00200	1	05/01/2017 20:44	WG974738
Barium	0.0135		0.000360	0.00500	1	05/01/2017 18:56	WG974741
Barium,Dissolved	0.0118		0.000360	0.00500	1	05/01/2017 20:44	WG974738
Boron	0.548		0.00150	0.0200	1	05/01/2017 18:56	WG974741
Boron,Dissolved	0.502		0.00150	0.0200	1	05/01/2017 20:44	WG974738
Cadmium	U		0.000160	0.00100	1	05/01/2017 18:56	WG974741
Cadmium,Dissolved	U		0.000160	0.00100	1	05/01/2017 20:44	WG974738
Calcium	471		0.0460	1.00	1	05/01/2017 18:56	WG974741
Chromium	0.000572	J	0.000540	0.00200	1	05/01/2017 18:56	WG974741
Chromium,Dissolved	0.000688	J	0.000540	0.00200	1	05/01/2017 20:44	WG974738
Cobalt	U		0.000260	0.00200	1	05/01/2017 18:56	WG974741
Cobalt,Dissolved	U		0.000260	0.00200	1	05/01/2017 20:44	WG974738
Iron	0.0561	J	0.0150	0.100	1	05/01/2017 18:56	WG974741
Iron,Dissolved	U		0.0150	0.100	1	05/01/2017 20:44	WG974738
Lead	U		0.000240	0.00200	1	05/01/2017 18:56	WG974741
Lead,Dissolved	U		0.000240	0.00200	1	05/01/2017 23:26	WG974738
Manganese	0.00689		0.000250	0.00500	1	05/01/2017 18:56	WG974741
Manganese,Dissolved	0.00476	J	0.000250	0.00500	1	05/01/2017 20:44	WG974738
Nickel	0.00145	J	0.000350	0.00200	1	05/01/2017 18:56	WG974741
Nickel,Dissolved	0.00225		0.000350	0.00200	1	05/01/2017 20:44	WG974738
Potassium	1.14		0.0370	1.00	1	05/01/2017 18:56	WG974741
Selenium	0.0100		0.000380	0.00200	1	05/01/2017 18:56	WG974741
Selenium,Dissolved	0.00938		0.000380	0.00200	1	05/01/2017 20:44	WG974738
Sodium	99.1		0.110	1.00	1	05/01/2017 18:56	WG974741

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Uranium	0.0262		0.000330	0.0100	1	05/01/2017 18:56	WG974741
Uranium,Dissolved	0.0273		0.000330	0.0100	1	05/02/2017 07:05	WG974738
Vanadium	0.0118		0.000180	0.00500	1	05/01/2017 18:56	WG974741
Vanadium,Dissolved	0.0120		0.000180	0.00500	1	05/01/2017 20:44	WG974738

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	U		0.0314	0.100	1	04/28/2017 20:36	WG974800
(S) a,a,a-Trifluorotoluene(FID)	*103*			*77.0-122*		*04/28/2017 20:36*	WG974800

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

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0100	0.0500	1	05/04/2017 22:40	WG976754
Benzene	U		0.000331	0.00100	1	05/04/2017 22:40	WG976754
Bromodichloromethane	U		0.000380	0.00100	1	05/04/2017 22:40	WG976754
Bromoform	U		0.000469	0.00100	1	05/04/2017 22:40	WG976754
Bromomethane	U		0.000866	0.00500	1	05/04/2017 22:40	WG976754
n-Butylbenzene	U		0.000361	0.00100	1	05/04/2017 22:40	WG976754
sec-Butylbenzene	U		0.000365	0.00100	1	05/04/2017 22:40	WG976754
Carbon disulfide	U		0.000275	0.00100	1	05/04/2017 22:40	WG976754
Carbon tetrachloride	U		0.000379	0.00100	1	05/04/2017 22:40	WG976754
Chlorobenzene	U		0.000348	0.00100	1	05/04/2017 22:40	WG976754
Chlorodibromomethane	U		0.000327	0.00100	1	05/04/2017 22:40	WG976754
Chloroethane	U		0.000453	0.00500	1	05/04/2017 22:40	WG976754
Chloroform	U		0.000324	0.00500	1	05/04/2017 22:40	WG976754
Chloromethane	U		0.000276	0.00250	1	05/04/2017 22:40	WG976754
1,2-Dibromoethane	U		0.000381	0.00100	1	05/04/2017 22:40	WG976754
1,1-Dichloroethane	U		0.000259	0.00100	1	05/04/2017 22:40	WG976754
1,2-Dichloroethane	U		0.000361	0.00100	1	05/04/2017 22:40	WG976754
1,1-Dichloroethene	U		0.000398	0.00100	1	05/04/2017 22:40	WG976754
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	05/04/2017 22:40	WG976754
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	05/04/2017 22:40	WG976754
1,2-Dichloropropane	U		0.000306	0.00100	1	05/04/2017 22:40	WG976754
cis-1,3-Dichloropropene	U		0.000418	0.00100	1	05/04/2017 22:40	WG976754
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	05/04/2017 22:40	WG976754
Ethylbenzene	U		0.000384	0.00100	1	05/04/2017 22:40	WG976754
Isopropylbenzene	U		0.000326	0.00100	1	05/04/2017 22:40	WG976754
p-Isopropyltoluene	U		0.000350	0.00100	1	05/04/2017 22:40	WG976754
2-Butanone (MEK)	U		0.00393	0.0100	1	05/04/2017 22:40	WG976754
2-Hexanone	U		0.00382	0.0100	1	05/04/2017 22:40	WG976754
Methylene Chloride	U		0.00100	0.00500	1	05/04/2017 22:40	WG976754
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	05/04/2017 22:40	WG976754
Methyl tert-butyl ether	U		0.000367	0.00100	1	05/04/2017 22:40	WG976754
Naphthalene	U		0.00100	0.00500	1	05/04/2017 22:40	WG976754
n-Propylbenzene	U		0.000349	0.00100	1	05/04/2017 22:40	WG976754
Styrene	U		0.000307	0.00100	1	05/04/2017 22:40	WG976754
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	05/04/2017 22:40	WG976754
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	05/04/2017 22:40	WG976754
Tetrachloroethene	U		0.000372	0.00100	1	05/04/2017 22:40	WG976754
Toluene	U		0.000412	0.00100	1	05/04/2017 22:40	WG976754
1,1,1-Trichloroethane	U		0.000319	0.00100	1	05/04/2017 22:40	WG976754
1,1,2-Trichloroethane	U		0.000383	0.00100	1	05/04/2017 22:40	WG976754
Trichloroethene	U		0.000398	0.00100	1	05/04/2017 22:40	WG976754

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
1,2,4-Trimethylbenzene	U		0.000373	0.00100	1	05/04/2017 22:40	WG976754
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	05/04/2017 22:40	WG976754
Vinyl chloride	U		0.000259	0.00100	1	05/04/2017 22:40	WG976754
o-Xylene	U		0.000341	0.00100	1	05/04/2017 22:40	WG976754
m&p-Xylene	U		0.000719	0.00200	1	05/04/2017 22:40	WG976754
Xylenes, Total	U		0.00106	0.00300	1	05/04/2017 22:40	WG976754
(S) Toluene-d8	*95.6*			*80.0-120*		*05/04/2017 22:40*	WG976754
(S) Dibromofluoromethane	*81.5*			*76.0-123*		*05/04/2017 22:40*	WG976754
(S) 4-Bromofluorobenzene	*92.5*			*80.0-120*		*05/04/2017 22:40*	WG976754

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	0.0484	J	0.0247	0.100	1	05/01/2017 19:11	WG975178
(S) o-Terphenyl	*84.9*			*31.0-160*		*05/01/2017 19:11*	WG975178

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Dissolved Solids	4350		2.82	10.0	1	04/29/2017 13:05	WG974898

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	0.547	J	0.197	1.00	10	05/03/2017 14:42	WG975894

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	05/02/2017 09:42	WG974960

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	154		5.19	100	100	04/29/2017 14:56	WG974576
Fluoride	0.666		0.00990	0.100	1	04/29/2017 14:11	WG974576
Sulfate	2750		7.74	500	100	04/29/2017 14:56	WG974576

Mercury by Method 7470A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Mercury	U		0.0000490	0.000200	1	04/29/2017 07:33	WG974554
Mercury,Dissolved	U		0.0000490	0.000200	1	04/28/2017 14:51	WG974524

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.00111	J	0.000250	0.00200	1	05/01/2017 17:47	WG974741
Arsenic,Dissolved	0.00103	J	0.000250	0.00200	1	05/01/2017 19:40	WG974738
Barium	0.0164		0.000360	0.00500	1	05/01/2017 17:47	WG974741
Barium,Dissolved	0.0149		0.000360	0.00500	1	05/01/2017 19:40	WG974738
Boron	1.06		0.00300	0.0400	2	05/01/2017 19:23	WG974741
Boron,Dissolved	0.958	O1 V	0.00150	0.0200	1	05/01/2017 19:40	WG974738
Cadmium	U		0.000160	0.00100	1	05/01/2017 17:47	WG974741
Cadmium,Dissolved	U		0.000160	0.00100	1	05/01/2017 19:40	WG974738
Calcium	594	V	0.0460	1.00	1	05/01/2017 17:47	WG974741
Chromium	U		0.000540	0.00200	1	05/01/2017 17:47	WG974741
Chromium,Dissolved	U		0.000540	0.00200	1	05/01/2017 19:40	WG974738
Cobalt	U		0.000260	0.00200	1	05/01/2017 17:47	WG974741
Cobalt,Dissolved	U		0.000260	0.00200	1	05/01/2017 19:40	WG974738
Iron	0.0249	J	0.0150	0.100	1	05/01/2017 17:47	WG974741
Iron,Dissolved	U		0.0150	0.100	1	05/01/2017 19:40	WG974738
Lead	U		0.000240	0.00200	1	05/01/2017 17:47	WG974741
Lead,Dissolved	U		0.000240	0.00200	1	05/01/2017 19:40	WG974738
Manganese	0.00935		0.000250	0.00500	1	05/01/2017 17:47	WG974741
Manganese,Dissolved	0.00620		0.000250	0.00500	1	05/01/2017 19:40	WG974738
Nickel	0.00143	J	0.000350	0.00200	1	05/01/2017 17:47	WG974741
Nickel,Dissolved	0.00255		0.000350	0.00200	1	05/01/2017 19:40	WG974738
Potassium	1.87		0.0370	1.00	1	05/01/2017 17:47	WG974741
Selenium	0.0143		0.000380	0.00200	1	05/01/2017 17:47	WG974741
Selenium,Dissolved	0.0142		0.000380	0.00200	1	05/01/2017 19:40	WG974738
Sodium	202	V	0.110	1.00	1	05/01/2017 17:47	WG974741

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Uranium	0.0361		0.000330	0.0100	1	05/01/2017 17:47	WG974741
Uranium,Dissolved	0.0373		0.000330	0.0100	1	05/02/2017 06:11	WG974738
Vanadium	0.00739		0.000180	0.00500	1	05/01/2017 17:47	WG974741
Vanadium,Dissolved	0.00736		0.000180	0.00500	1	05/01/2017 19:40	WG974738

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
TPH (GC/FID) Low Fraction	U		0.0314	0.100	1	04/28/2017 20:57	WG974800
(S) a,a,a-Trifluorotoluene(FID)	*103*			*77.0-122*		*04/28/2017 20:57*	WG974800

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		0.0100	0.0500	1	05/04/2017 22:55	WG976754
Benzene	U		0.000331	0.00100	1	05/04/2017 22:55	WG976754
Bromodichloromethane	U		0.000380	0.00100	1	05/04/2017 22:55	WG976754
Bromoform	U		0.000469	0.00100	1	05/04/2017 22:55	WG976754
Bromomethane	U		0.000866	0.00500	1	05/04/2017 22:55	WG976754
n-Butylbenzene	U		0.000361	0.00100	1	05/04/2017 22:55	WG976754
sec-Butylbenzene	U		0.000365	0.00100	1	05/04/2017 22:55	WG976754
Carbon disulfide	U		0.000275	0.00100	1	05/04/2017 22:55	WG976754
Carbon tetrachloride	U		0.000379	0.00100	1	05/04/2017 22:55	WG976754
Chlorobenzene	U		0.000348	0.00100	1	05/04/2017 22:55	WG976754
Chlorodibromomethane	U		0.000327	0.00100	1	05/04/2017 22:55	WG976754
Chloroethane	U		0.000453	0.00500	1	05/04/2017 22:55	WG976754
Chloroform	U		0.000324	0.00500	1	05/04/2017 22:55	WG976754
Chloromethane	U		0.000276	0.00250	1	05/04/2017 22:55	WG976754
1,2-Dibromoethane	U		0.000381	0.00100	1	05/04/2017 22:55	WG976754
1,1-Dichloroethane	U		0.000259	0.00100	1	05/04/2017 22:55	WG976754
1,2-Dichloroethane	U		0.000361	0.00100	1	05/04/2017 22:55	WG976754
1,1-Dichloroethene	U		0.000398	0.00100	1	05/04/2017 22:55	WG976754
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	05/04/2017 22:55	WG976754
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	05/04/2017 22:55	WG976754
1,2-Dichloropropane	U		0.000306	0.00100	1	05/04/2017 22:55	WG976754
cis-1,3-Dichloropropene	U		0.000418	0.00100	1	05/04/2017 22:55	WG976754
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	05/04/2017 22:55	WG976754
Ethylbenzene	U		0.000384	0.00100	1	05/04/2017 22:55	WG976754
Isopropylbenzene	U		0.000326	0.00100	1	05/04/2017 22:55	WG976754
p-Isopropyltoluene	U		0.000350	0.00100	1	05/04/2017 22:55	WG976754
2-Butanone (MEK)	U		0.00393	0.0100	1	05/04/2017 22:55	WG976754
2-Hexanone	U		0.00382	0.0100	1	05/04/2017 22:55	WG976754
Methylene Chloride	U		0.00100	0.00500	1	05/04/2017 22:55	WG976754
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	05/04/2017 22:55	WG976754
Methyl tert-butyl ether	U		0.000367	0.00100	1	05/04/2017 22:55	WG976754
Naphthalene	U		0.00100	0.00500	1	05/04/2017 22:55	WG976754
n-Propylbenzene	U		0.000349	0.00100	1	05/04/2017 22:55	WG976754
Styrene	U		0.000307	0.00100	1	05/04/2017 22:55	WG976754
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	05/04/2017 22:55	WG976754
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	05/04/2017 22:55	WG976754
Tetrachloroethene	U		0.000372	0.00100	1	05/04/2017 22:55	WG976754
Toluene	U		0.000412	0.00100	1	05/04/2017 22:55	WG976754
1,1,1-Trichloroethane	U		0.000319	0.00100	1	05/04/2017 22:55	WG976754
1,1,2-Trichloroethane	U		0.000383	0.00100	1	05/04/2017 22:55	WG976754
Trichloroethene	U		0.000398	0.00100	1	05/04/2017 22:55	WG976754

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

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
1,2,4-Trimethylbenzene	U		0.000373	0.00100	1	05/04/2017 22:55	WG976754
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	05/04/2017 22:55	WG976754
Vinyl chloride	U		0.000259	0.00100	1	05/04/2017 22:55	WG976754
o-Xylene	U		0.000341	0.00100	1	05/04/2017 22:55	WG976754
m&p-Xylene	U		0.000719	0.00200	1	05/04/2017 22:55	WG976754
Xylenes, Total	U		0.00106	0.00300	1	05/04/2017 22:55	WG976754
(S) Toluene-d8	*95.6*			*80.0-120*		*05/04/2017 22:55*	WG976754
(S) Dibromofluoromethane	*82.4*			*76.0-123*		*05/04/2017 22:55*	WG976754
(S) 4-Bromofluorobenzene	*91.9*			*80.0-120*		*05/04/2017 22:55*	WG976754

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	0.0463	J	0.0247	0.100	1	05/01/2017 19:28	WG975178
(S) o-Terphenyl	*83.2*			*31.0-160*		*05/01/2017 19:28*	WG975178

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Dissolved Solids	3530		2.82	10.0	1	04/29/2017 13:05	WG974898

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	U		0.197	1.00	10	05/03/2017 14:47	WG975894

Sample Narrative:

353.2 L905307-21 WG975894: Dilution due to matrix

Wet Chemistry by Method 4500CN E-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Cyanide	0.0802		0.00360	0.0100	2	05/02/2017 10:16	WG974960

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	687		5.19	100	100	04/29/2017 02:23	WG974576
Fluoride	2.10		0.00990	0.100	1	04/29/2017 01:53	WG974576
Sulfate	450	J	7.74	500	100	05/02/2017 16:04	WG975534

Mercury by Method 7470A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Mercury	U		0.0000490	0.000200	1	04/29/2017 07:35	WG974554
Mercury,Dissolved	U		0.0000490	0.000200	1	04/28/2017 14:53	WG974524

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.00987		0.000250	0.00200	1	05/04/2017 16:59	WG974743
Arsenic,Dissolved	0.0107		0.000250	0.00200	1	05/02/2017 02:57	WG974740
Barium	0.100		0.000360	0.00500	1	05/04/2017 16:59	WG974743
Barium,Dissolved	0.0928		0.000360	0.00500	1	05/02/2017 02:57	WG974740
Boron	1.21		0.00150	0.0200	1	05/03/2017 21:53	WG974743
Boron,Dissolved	1.20		0.00300	0.0400	2	05/02/2017 14:03	WG974740
Cadmium	U		0.000160	0.00100	1	05/04/2017 16:59	WG974743
Cadmium,Dissolved	U		0.000160	0.00100	1	05/02/2017 02:57	WG974740
Calcium	180		0.0460	1.00	1	05/04/2017 16:59	WG974743
Chromium	U		0.000540	0.00200	1	05/04/2017 16:59	WG974743
Chromium,Dissolved	U		0.000540	0.00200	1	05/02/2017 02:57	WG974740
Cobalt	U		0.000260	0.00200	1	05/04/2017 16:59	WG974743
Cobalt,Dissolved	U		0.000260	0.00200	1	05/02/2017 02:57	WG974740
Iron	U		0.0150	0.100	1	05/04/2017 16:59	WG974743
Iron,Dissolved	0.0170	J	0.0150	0.100	1	05/02/2017 02:57	WG974740
Lead	U		0.000240	0.00200	1	05/04/2017 16:59	WG974743
Lead,Dissolved	U		0.000240	0.00200	1	05/02/2017 02:57	WG974740
Manganese	0.175		0.000250	0.00500	1	05/04/2017 16:59	WG974743
Manganese,Dissolved	0.191		0.000250	0.00500	1	05/02/2017 02:57	WG974740
Nickel	0.00534		0.000350	0.00200	1	05/04/2017 16:59	WG974743
Nickel,Dissolved	0.00955		0.000350	0.00200	1	05/02/2017 02:57	WG974740
Potassium	0.905	J	0.0370	1.00	1	05/04/2017 16:59	WG974743

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Selenium	0.00413	B	0.000380	0.00200	1	05/04/2017 16:59	WG974743
Selenium,Dissolved	0.00152	J	0.000380	0.00200	1	05/02/2017 02:57	WG974740
Sodium	559		0.110	1.00	1	05/04/2017 16:59	WG974743
Uranium	U		0.000330	0.0100	1	05/04/2017 16:59	WG974743
Uranium,Dissolved	U		0.000330	0.0100	1	05/02/2017 02:57	WG974740
Vanadium	0.00200	J	0.000180	0.00500	1	05/04/2017 16:59	WG974743
Vanadium,Dissolved	0.00185	B J	0.000180	0.00500	1	05/02/2017 02:57	WG974740

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	29.6		1.57	5.00	50	04/28/2017 21:18	WG974800
(S) a,a,a-Trifluorotoluene(FID)	*98.6*			*77.0-122*		*04/28/2017 21:18*	WG974800

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

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U	J4	0.500	2.50	50	04/30/2017 02:04	WG975213
Benzene	9.62		0.0662	0.200	200	05/02/2017 20:04	WG975213
Bromodichloromethane	U		0.0190	0.0500	50	04/30/2017 02:04	WG975213
Bromoform	U		0.0234	0.0500	50	04/30/2017 02:04	WG975213
Bromomethane	U		0.0433	0.250	50	04/30/2017 02:04	WG975213
n-Butylbenzene	U		0.0180	0.0500	50	04/30/2017 02:04	WG975213
sec-Butylbenzene	U		0.0182	0.0500	50	04/30/2017 02:04	WG975213
Carbon disulfide	U		0.0138	0.0500	50	04/30/2017 02:04	WG975213
Carbon tetrachloride	U		0.0190	0.0500	50	04/30/2017 02:04	WG975213
Chlorobenzene	U		0.0174	0.0500	50	04/30/2017 02:04	WG975213
Chlorodibromomethane	U		0.0164	0.0500	50	04/30/2017 02:04	WG975213
Chloroethane	U		0.0226	0.250	50	04/30/2017 02:04	WG975213
Chloroform	U		0.0162	0.250	50	04/30/2017 02:04	WG975213
Chloromethane	U		0.0138	0.125	50	04/30/2017 02:04	WG975213
1,2-Dibromoethane	U		0.0190	0.0500	50	04/30/2017 02:04	WG975213
1,1-Dichloroethane	U		0.0130	0.0500	50	04/30/2017 02:04	WG975213
1,2-Dichloroethane	U		0.0180	0.0500	50	04/30/2017 02:04	WG975213
1,1-Dichloroethene	U		0.0199	0.0500	50	04/30/2017 02:04	WG975213
cis-1,2-Dichloroethene	U		0.0130	0.0500	50	04/30/2017 02:04	WG975213
trans-1,2-Dichloroethene	U		0.0198	0.0500	50	04/30/2017 02:04	WG975213
1,2-Dichloropropane	U		0.0153	0.0500	50	04/30/2017 02:04	WG975213
cis-1,3-Dichloropropene	U		0.0209	0.0500	50	04/30/2017 02:04	WG975213
trans-1,3-Dichloropropene	U		0.0210	0.0500	50	04/30/2017 02:04	WG975213
Ethylbenzene	0.445		0.0192	0.0500	50	04/30/2017 02:04	WG975213
Isopropylbenzene	0.0668		0.0163	0.0500	50	04/30/2017 02:04	WG975213
p-Isopropyltoluene	U		0.0175	0.0500	50	04/30/2017 02:04	WG975213
2-Butanone (MEK)	U		0.196	0.500	50	04/30/2017 02:04	WG975213
2-Hexanone	U		0.191	0.500	50	04/30/2017 02:04	WG975213
Methylene Chloride	U		0.0500	0.250	50	04/30/2017 02:04	WG975213
4-Methyl-2-pentanone (MIBK)	U		0.107	0.500	50	04/30/2017 02:04	WG975213
Methyl tert-butyl ether	0.0484	J	0.0184	0.0500	50	04/30/2017 02:04	WG975213
Naphthalene	0.163	J	0.0500	0.250	50	04/30/2017 02:04	WG975213
n-Propylbenzene	0.112		0.0174	0.0500	50	04/30/2017 02:04	WG975213
Styrene	U		0.0154	0.0500	50	04/30/2017 02:04	WG975213
1,1,1,2-Tetrachloroethane	U		0.0192	0.0500	50	04/30/2017 02:04	WG975213
1,1,2,2-Tetrachloroethane	U		0.00650	0.0500	50	04/30/2017 02:04	WG975213
Tetrachloroethene	U		0.0186	0.0500	50	04/30/2017 02:04	WG975213
Toluene	0.519		0.0206	0.0500	50	04/30/2017 02:04	WG975213

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
1,1,1-Trichloroethane	U		0.0160	0.0500	50	04/30/2017 02:04	WG975213
1,1,2-Trichloroethane	U		0.0192	0.0500	50	04/30/2017 02:04	WG975213
Trichloroethene	U		0.0199	0.0500	50	04/30/2017 02:04	WG975213
1,2,4-Trimethylbenzene	0.497		0.0186	0.0500	50	04/30/2017 02:04	WG975213
1,3,5-Trimethylbenzene	0.108		0.0194	0.0500	50	04/30/2017 02:04	WG975213
Vinyl chloride	U		0.0130	0.0500	50	04/30/2017 02:04	WG975213
o-Xylene	0.539		0.0170	0.0500	50	04/30/2017 02:04	WG975213
m&p-Xylene	1.26		0.0360	0.100	50	04/30/2017 02:04	WG975213
Xylenes, Total	1.80		0.0530	0.150	50	04/30/2017 02:04	WG975213
(S) Toluene-d8	*105*			*80.0-120*		*04/30/2017 02:04*	WG975213
(S) Toluene-d8	*106*			*80.0-120*		*05/02/2017 20:04*	WG975213
(S) Dibromofluoromethane	*99.4*			*76.0-123*		*05/02/2017 20:04*	WG975213
(S) Dibromofluoromethane	*100*			*76.0-123*		*04/30/2017 02:04*	WG975213
(S) 4-Bromofluorobenzene	*99.2*			*80.0-120*		*04/30/2017 02:04*	WG975213
(S) 4-Bromofluorobenzene	*103*			*80.0-120*		*05/02/2017 20:04*	WG975213

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
TPH (GC/FID) High Fraction	6.53		0.0247	0.100	1	05/01/2017 19:45	WG975178
(S) o-Terphenyl	*91.6*			*31.0-160*		*05/01/2017 19:45*	WG975178

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Dissolved Solids	4230		2.82	10.0	1	04/29/2017 13:05	WG974898

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	U		0.197	1.00	10	05/03/2017 14:48	WG975894

Sample Narrative:

353.2 L905307-22 WG975894: Dilution due to matrix

Wet Chemistry by Method 4500CN E-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Cyanide	0.116		0.0180	0.0500	10	05/02/2017 10:18	WG974960

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	478		5.19	100	100	04/28/2017 23:53	WG974576
Fluoride	1.54		0.00990	0.100	1	04/28/2017 23:39	WG974576
Sulfate	1050		7.74	500	100	04/28/2017 23:53	WG974576

Mercury by Method 7470A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Mercury	U		0.0000490	0.000200	1	04/29/2017 07:42	WG974554
Mercury,Dissolved	U		0.0000490	0.000200	1	04/28/2017 14:56	WG974524

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.0496		0.000250	0.00200	1	05/04/2017 17:02	WG974743
Arsenic,Dissolved	0.0520		0.000250	0.00200	1	05/02/2017 03:01	WG974740
Barium	0.0564		0.000360	0.00500	1	05/04/2017 17:02	WG974743
Barium,Dissolved	0.0518		0.000360	0.00500	1	05/02/2017 03:01	WG974740
Boron	0.752		0.00150	0.0200	1	05/03/2017 21:56	WG974743
Boron,Dissolved	0.700		0.00150	0.0200	1	05/02/2017 03:01	WG974740
Cadmium	U		0.000160	0.00100	1	05/04/2017 17:02	WG974743
Cadmium,Dissolved	U		0.000160	0.00100	1	05/02/2017 03:01	WG974740
Calcium	139		0.0460	1.00	1	05/04/2017 17:02	WG974743
Chromium	U		0.000540	0.00200	1	05/04/2017 17:02	WG974743
Chromium,Dissolved	U		0.000540	0.00200	1	05/02/2017 03:01	WG974740
Cobalt	U		0.000260	0.00200	1	05/04/2017 17:02	WG974743
Cobalt,Dissolved	U		0.000260	0.00200	1	05/02/2017 03:01	WG974740
Iron	U		0.0150	0.100	1	05/04/2017 17:02	WG974743
Iron,Dissolved	U		0.0150	0.100	1	05/02/2017 03:01	WG974740
Lead	0.00408		0.000240	0.00200	1	05/04/2017 17:02	WG974743
Lead,Dissolved	0.00355		0.000240	0.00200	1	05/02/2017 03:01	WG974740
Manganese	0.113		0.000250	0.00500	1	05/04/2017 17:02	WG974743
Manganese,Dissolved	0.124		0.000250	0.00500	1	05/02/2017 03:01	WG974740
Nickel	0.00689		0.000350	0.00200	1	05/04/2017 17:02	WG974743
Nickel,Dissolved	0.00790		0.000350	0.00200	1	05/02/2017 03:01	WG974740
Potassium	1.53		0.0370	1.00	1	05/04/2017 17:02	WG974743

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Selenium	0.00397	B	0.000380	0.00200	1	05/04/2017 17:02	WG974743
Selenium,Dissolved	0.00196	J	0.000380	0.00200	1	05/02/2017 03:01	WG974740
Sodium	1120		0.550	5.00	5	05/04/2017 18:15	WG974743
Uranium	U		0.000330	0.0100	1	05/04/2017 17:02	WG974743
Uranium,Dissolved	U		0.000330	0.0100	1	05/02/2017 03:01	WG974740
Vanadium	0.00580		0.000180	0.00500	1	05/04/2017 17:02	WG974743
Vanadium,Dissolved	0.00537		0.000180	0.00500	1	05/02/2017 03:01	WG974740

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	14.1	J	6.28	20.0	200	04/28/2017 21:39	WG974800
(S) a,a,a-Trifluorotoluene(FID)	*101*			*77.0-122*		*04/28/2017 21:39*	WG974800

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

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U	J4	2.00	10.0	200	04/30/2017 02:20	WG975213
Benzene	9.69		0.0662	0.200	200	04/30/2017 02:20	WG975213
Bromodichloromethane	U		0.0760	0.200	200	04/30/2017 02:20	WG975213
Bromoform	U		0.0938	0.200	200	04/30/2017 02:20	WG975213
Bromomethane	U		0.173	1.00	200	04/30/2017 02:20	WG975213
n-Butylbenzene	U		0.0722	0.200	200	04/30/2017 02:20	WG975213
sec-Butylbenzene	U		0.0730	0.200	200	04/30/2017 02:20	WG975213
Carbon disulfide	U		0.0550	0.200	200	04/30/2017 02:20	WG975213
Carbon tetrachloride	U		0.0758	0.200	200	04/30/2017 02:20	WG975213
Chlorobenzene	U		0.0696	0.200	200	04/30/2017 02:20	WG975213
Chlorodibromomethane	U		0.0654	0.200	200	04/30/2017 02:20	WG975213
Chloroethane	U		0.0906	1.00	200	04/30/2017 02:20	WG975213
Chloroform	U		0.0648	1.00	200	04/30/2017 02:20	WG975213
Chloromethane	U		0.0552	0.500	200	04/30/2017 02:20	WG975213
1,2-Dibromoethane	U		0.0762	0.200	200	04/30/2017 02:20	WG975213
1,1-Dichloroethane	U		0.0518	0.200	200	04/30/2017 02:20	WG975213
1,2-Dichloroethane	U		0.0722	0.200	200	04/30/2017 02:20	WG975213
1,1-Dichloroethene	U		0.0796	0.200	200	04/30/2017 02:20	WG975213
cis-1,2-Dichloroethene	U		0.0520	0.200	200	04/30/2017 02:20	WG975213
trans-1,2-Dichloroethene	U		0.0792	0.200	200	04/30/2017 02:20	WG975213
1,2-Dichloropropane	U		0.0612	0.200	200	04/30/2017 02:20	WG975213
cis-1,3-Dichloropropene	U		0.0836	0.200	200	04/30/2017 02:20	WG975213
trans-1,3-Dichloropropene	U		0.0838	0.200	200	04/30/2017 02:20	WG975213
Ethylbenzene	1.58		0.0768	0.200	200	04/30/2017 02:20	WG975213
Isopropylbenzene	0.0899	J	0.0652	0.200	200	04/30/2017 02:20	WG975213
p-Isopropyltoluene	U		0.0700	0.200	200	04/30/2017 02:20	WG975213
2-Butanone (MEK)	U		0.786	2.00	200	04/30/2017 02:20	WG975213
2-Hexanone	U		0.764	2.00	200	04/30/2017 02:20	WG975213
Methylene Chloride	U		0.200	1.00	200	04/30/2017 02:20	WG975213
4-Methyl-2-pentanone (MIBK)	U		0.428	2.00	200	04/30/2017 02:20	WG975213
Methyl tert-butyl ether	U		0.0734	0.200	200	04/30/2017 02:20	WG975213
Naphthalene	0.272	J	0.200	1.00	200	04/30/2017 02:20	WG975213
n-Propylbenzene	0.142	J	0.0698	0.200	200	04/30/2017 02:20	WG975213
Styrene	U		0.0614	0.200	200	04/30/2017 02:20	WG975213
1,1,1,2-Tetrachloroethane	U		0.0770	0.200	200	04/30/2017 02:20	WG975213
1,1,2,2-Tetrachloroethane	U		0.0260	0.200	200	04/30/2017 02:20	WG975213
Tetrachloroethene	U		0.0744	0.200	200	04/30/2017 02:20	WG975213
Toluene	2.08		0.0824	0.200	200	04/30/2017 02:20	WG975213

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-Trichloroethane	U		0.0638	0.200	200	04/30/2017 02:20	WG975213
1,1,2-Trichloroethane	U		0.0766	0.200	200	04/30/2017 02:20	WG975213
Trichloroethene	U		0.0796	0.200	200	04/30/2017 02:20	WG975213
1,2,4-Trimethylbenzene	0.414		0.0746	0.200	200	04/30/2017 02:20	WG975213
1,3,5-Trimethylbenzene	0.0969	J	0.0774	0.200	200	04/30/2017 02:20	WG975213
Vinyl chloride	U		0.0518	0.200	200	04/30/2017 02:20	WG975213
o-Xylene	0.427		0.0682	0.200	200	04/30/2017 02:20	WG975213
m&p-Xylene	0.727		0.144	0.400	200	04/30/2017 02:20	WG975213
Xylenes, Total	1.15		0.212	0.600	200	04/30/2017 02:20	WG975213
(S) Toluene-d8	*105*			*80.0-120*		*04/30/2017 02:20*	WG975213
(S) Dibromofluoromethane	*101*			*76.0-123*		*04/30/2017 02:20*	WG975213
(S) 4-Bromofluorobenzene	*97.7*			*80.0-120*		*04/30/2017 02:20*	WG975213

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	12.6		0.247	1.00	10	05/01/2017 18:19	WG975181
(S) o-Terphenyl	*102*			*31.0-160*		*05/01/2017 18:19*	WG975181

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	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Dissolved Solids	1930		2.82	10.0	1	04/29/2017 13:05	WG974898

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	U		0.197	1.00	10	05/03/2017 14:49	WG975894

Sample Narrative:

353.2 L905307-23 WG975894: Dilution due to matrix

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	05/02/2017 09:45	WG974960

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	571		5.19	100	100	04/29/2017 00:53	WG974576
Fluoride	1.14		0.00990	0.100	1	04/29/2017 00:08	WG974576
Sulfate	72.3		0.0774	5.00	1	04/29/2017 00:08	WG974576

Mercury by Method 7470A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Mercury	U		0.0000490	0.000200	1	04/29/2017 07:44	WG974554
Mercury,Dissolved	U		0.0000490	0.000200	1	04/28/2017 14:58	WG974524

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.00569		0.000250	0.00200	1	05/04/2017 17:06	WG974743
Arsenic,Dissolved	0.00553		0.000250	0.00200	1	05/02/2017 03:04	WG974740
Barium	0.130		0.000360	0.00500	1	05/04/2017 17:06	WG974743
Barium,Dissolved	0.129		0.000360	0.00500	1	05/02/2017 03:04	WG974740
Boron	1.01		0.00150	0.0200	1	05/03/2017 22:00	WG974743
Boron,Dissolved	0.945		0.00150	0.0200	1	05/02/2017 03:04	WG974740
Cadmium	U		0.000160	0.00100	1	05/04/2017 17:06	WG974743
Cadmium,Dissolved	U		0.000160	0.00100	1	05/02/2017 03:04	WG974740
Calcium	121		0.0460	1.00	1	05/04/2017 17:06	WG974743
Chromium	U		0.000540	0.00200	1	05/04/2017 17:06	WG974743
Chromium,Dissolved	U		0.000540	0.00200	1	05/02/2017 03:04	WG974740
Cobalt	U		0.000260	0.00200	1	05/04/2017 17:06	WG974743
Cobalt,Dissolved	U		0.000260	0.00200	1	05/02/2017 03:04	WG974740
Iron	U		0.0150	0.100	1	05/04/2017 17:06	WG974743
Iron,Dissolved	U		0.0150	0.100	1	05/02/2017 03:04	WG974740
Lead	U		0.000240	0.00200	1	05/04/2017 17:06	WG974743
Lead,Dissolved	U		0.000240	0.00200	1	05/02/2017 03:04	WG974740
Manganese	0.111		0.000250	0.00500	1	05/04/2017 17:06	WG974743
Manganese,Dissolved	0.105		0.000250	0.00500	1	05/02/2017 03:04	WG974740
Nickel	0.00546		0.000350	0.00200	1	05/04/2017 17:06	WG974743
Nickel,Dissolved	0.00484		0.000350	0.00200	1	05/02/2017 03:04	WG974740
Potassium	1.81		0.0370	1.00	1	05/04/2017 17:06	WG974743

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Selenium	0.00267	B	0.000380	0.00200	1	05/04/2017 17:06	WG974743
Selenium,Dissolved	0.000432	J	0.000380	0.00200	1	05/02/2017 03:04	WG974740
Sodium	424		0.110	1.00	1	05/04/2017 17:06	WG974743
Uranium	U		0.000330	0.0100	1	05/04/2017 17:06	WG974743
Uranium,Dissolved	U		0.000330	0.0100	1	05/02/2017 03:04	WG974740
Vanadium	0.00269	J	0.000180	0.00500	1	05/04/2017 17:06	WG974743
Vanadium,Dissolved	0.00246	J	0.000180	0.00500	1	05/02/2017 03:04	WG974740

Volatile Organic Compounds (GC) by 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		0.314	1.00	10	04/28/2017 22:00	WG974800
(S) a,a,a-Trifluorotoluene(FID)	*97.9*			*77.0-122*		*04/28/2017 22:00*	WG974800

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

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U	J4	0.100	0.500	10	04/30/2017 02:36	WG975213
Benzene	0.484		0.00331	0.0100	10	04/30/2017 02:36	WG975213
Bromodichloromethane	U		0.00380	0.0100	10	04/30/2017 02:36	WG975213
Bromoform	U		0.00469	0.0100	10	04/30/2017 02:36	WG975213
Bromomethane	U		0.00866	0.0500	10	04/30/2017 02:36	WG975213
n-Butylbenzene	0.00404	J	0.00361	0.0100	10	04/30/2017 02:36	WG975213
sec-Butylbenzene	0.0116		0.00365	0.0100	10	04/30/2017 02:36	WG975213
Carbon disulfide	U		0.00275	0.0100	10	04/30/2017 02:36	WG975213
Carbon tetrachloride	U		0.00379	0.0100	10	04/30/2017 02:36	WG975213
Chlorobenzene	U		0.00348	0.0100	10	04/30/2017 02:36	WG975213
Chlorodibromomethane	U		0.00327	0.0100	10	04/30/2017 02:36	WG975213
Chloroethane	U		0.00453	0.0500	10	04/30/2017 02:36	WG975213
Chloroform	U		0.00324	0.0500	10	04/30/2017 02:36	WG975213
Chloromethane	U		0.00276	0.0250	10	04/30/2017 02:36	WG975213
1,2-Dibromoethane	U		0.00381	0.0100	10	04/30/2017 02:36	WG975213
1,1-Dichloroethane	U		0.00259	0.0100	10	04/30/2017 02:36	WG975213
1,2-Dichloroethane	U		0.00361	0.0100	10	04/30/2017 02:36	WG975213
1,1-Dichloroethene	U		0.00398	0.0100	10	04/30/2017 02:36	WG975213
cis-1,2-Dichloroethene	U		0.00260	0.0100	10	04/30/2017 02:36	WG975213
trans-1,2-Dichloroethene	U		0.00396	0.0100	10	04/30/2017 02:36	WG975213
1,2-Dichloropropane	U		0.00306	0.0100	10	04/30/2017 02:36	WG975213
cis-1,3-Dichloropropene	U		0.00418	0.0100	10	04/30/2017 02:36	WG975213
trans-1,3-Dichloropropene	U		0.00419	0.0100	10	04/30/2017 02:36	WG975213
Ethylbenzene	0.0167		0.00384	0.0100	10	04/30/2017 02:36	WG975213
Isopropylbenzene	0.0602		0.00326	0.0100	10	04/30/2017 02:36	WG975213
p-Isopropyltoluene	U		0.00350	0.0100	10	04/30/2017 02:36	WG975213
2-Butanone (MEK)	U		0.0393	0.100	10	04/30/2017 02:36	WG975213
2-Hexanone	U		0.0382	0.100	10	04/30/2017 02:36	WG975213
Methylene Chloride	U		0.0100	0.0500	10	04/30/2017 02:36	WG975213
4-Methyl-2-pentanone (MIBK)	U		0.0214	0.100	10	04/30/2017 02:36	WG975213
Methyl tert-butyl ether	0.125		0.00367	0.0100	10	04/30/2017 02:36	WG975213
Naphthalene	0.0639		0.0100	0.0500	10	04/30/2017 02:36	WG975213
n-Propylbenzene	0.0674		0.00349	0.0100	10	04/30/2017 02:36	WG975213
Styrene	U		0.00307	0.0100	10	04/30/2017 02:36	WG975213
1,1,1,2-Tetrachloroethane	U		0.00385	0.0100	10	04/30/2017 02:36	WG975213
1,1,2,2-Tetrachloroethane	U		0.00130	0.0100	10	04/30/2017 02:36	WG975213
Tetrachloroethene	U		0.00372	0.0100	10	04/30/2017 02:36	WG975213
Toluene	U		0.00412	0.0100	10	04/30/2017 02:36	WG975213

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
1,1,1-Trichloroethane	U		0.00319	0.0100	10	04/30/2017 02:36	WG975213
1,1,2-Trichloroethane	U		0.00383	0.0100	10	04/30/2017 02:36	WG975213
Trichloroethene	U		0.00398	0.0100	10	04/30/2017 02:36	WG975213
1,2,4-Trimethylbenzene	U		0.00373	0.0100	10	04/30/2017 02:36	WG975213
1,3,5-Trimethylbenzene	U		0.00387	0.0100	10	04/30/2017 02:36	WG975213
Vinyl chloride	U		0.00259	0.0100	10	04/30/2017 02:36	WG975213
o-Xylene	U		0.00341	0.0100	10	04/30/2017 02:36	WG975213
m&p-Xylene	U		0.00719	0.0200	10	04/30/2017 02:36	WG975213
Xylenes, Total	U		0.0106	0.0300	10	04/30/2017 02:36	WG975213
(S) Toluene-d8	*105*			*80.0-120*		*04/30/2017 02:36*	WG975213
(S) Dibromofluoromethane	*99.3*			*76.0-123*		*04/30/2017 02:36*	WG975213
(S) 4-Bromofluorobenzene	*99.7*			*80.0-120*		*04/30/2017 02:36*	WG975213

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	14.6		0.124	0.500	5	05/01/2017 17:26	WG975181
(S) o-Terphenyl	*123*			*31.0-160*		*05/01/2017 17:26*	WG975181

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Dissolved Solids	3200		2.82	10.0	1	04/29/2017 13:05	WG974898

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	U		0.197	1.00	10	05/03/2017 14:50	WG975894

Sample Narrative:

353.2 L905307-24 WG975894: 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	93.5		0.0519	1.00	1	04/29/2017 00:23	WG974576
Fluoride	1.68		0.00990	0.100	1	04/29/2017 00:23	WG974576
Sulfate	1850		7.74	500	100	04/29/2017 01:08	WG974576

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.00109	J	0.000250	0.00200	1	05/04/2017 17:09	WG974743
Arsenic,Dissolved	0.00164	J	0.000250	0.00200	1	05/02/2017 03:08	WG974740
Barium	0.0163		0.000360	0.00500	1	05/04/2017 17:09	WG974743
Barium,Dissolved	0.0157		0.000360	0.00500	1	05/02/2017 03:08	WG974740
Calcium	516		0.0460	1.00	1	05/04/2017 17:09	WG974743
Chromium	U		0.000540	0.00200	1	05/04/2017 17:09	WG974743
Chromium,Dissolved	U		0.000540	0.00200	1	05/02/2017 03:08	WG974740
Iron	U		0.0150	0.100	1	05/04/2017 17:09	WG974743
Iron,Dissolved	U		0.0150	0.100	1	05/02/2017 03:08	WG974740
Lead	0.00875		0.000240	0.00200	1	05/04/2017 17:09	WG974743
Lead,Dissolved	0.00758		0.000240	0.00200	1	05/02/2017 03:08	WG974740
Manganese	0.0261		0.000250	0.00500	1	05/04/2017 17:09	WG974743
Manganese,Dissolved	0.0242		0.000250	0.00500	1	05/02/2017 03:08	WG974740
Potassium	0.180	J	0.0370	1.00	1	05/04/2017 17:09	WG974743
Selenium	0.00227	B	0.000380	0.00200	1	05/04/2017 17:09	WG974743
Selenium,Dissolved	U		0.000380	0.00200	1	05/02/2017 03:08	WG974740
Sodium	79.2		0.110	1.00	1	05/04/2017 17:09	WG974743

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	15.9		3.14	10.0	100	04/28/2017 22:21	WG974800
(S) a,a,a-Trifluorotoluene(FID)	*99.7*			*77.0-122*		*04/28/2017 22:21*	WG974800

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		1.00	5.00	100	04/30/2017 00:46	WG975223
Benzene	4.39		0.0331	0.100	100	04/30/2017 00:46	WG975223
Bromodichloromethane	U		0.0380	0.100	100	04/30/2017 00:46	WG975223
Bromoform	U		0.0469	0.100	100	04/30/2017 00:46	WG975223
Bromomethane	U		0.0866	0.500	100	04/30/2017 00:46	WG975223
n-Butylbenzene	U		0.0361	0.100	100	04/30/2017 00:46	WG975223

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		0.0365	0.100	100	04/30/2017 00:46	WG975223
Carbon disulfide	0.0335	J	0.0275	0.100	100	04/30/2017 00:46	WG975223
Carbon tetrachloride	U		0.0379	0.100	100	04/30/2017 00:46	WG975223
Chlorobenzene	U		0.0348	0.100	100	04/30/2017 00:46	WG975223
Chlorodibromomethane	U		0.0327	0.100	100	04/30/2017 00:46	WG975223
Chloroethane	U		0.0453	0.500	100	04/30/2017 00:46	WG975223
Chloroform	U		0.0324	0.500	100	04/30/2017 00:46	WG975223
Chloromethane	U		0.0276	0.250	100	04/30/2017 00:46	WG975223
1,2-Dibromoethane	U		0.0381	0.100	100	04/30/2017 00:46	WG975223
1,1-Dichloroethane	U		0.0259	0.100	100	04/30/2017 00:46	WG975223
1,2-Dichloroethane	U		0.0361	0.100	100	04/30/2017 00:46	WG975223
1,1-Dichloroethene	U		0.0398	0.100	100	04/30/2017 00:46	WG975223
cis-1,2-Dichloroethene	U		0.0260	0.100	100	04/30/2017 00:46	WG975223
trans-1,2-Dichloroethene	U		0.0396	0.100	100	04/30/2017 00:46	WG975223
1,2-Dichloropropane	U		0.0306	0.100	100	04/30/2017 00:46	WG975223
cis-1,3-Dichloropropene	U		0.0418	0.100	100	04/30/2017 00:46	WG975223
trans-1,3-Dichloropropene	U		0.0419	0.100	100	04/30/2017 00:46	WG975223
Ethylbenzene	1.05		0.0384	0.100	100	04/30/2017 00:46	WG975223
Isopropylbenzene	0.0745	J	0.0326	0.100	100	04/30/2017 00:46	WG975223
p-Isopropyltoluene	U		0.0350	0.100	100	04/30/2017 00:46	WG975223
2-Butanone (MEK)	U		0.393	1.00	100	04/30/2017 00:46	WG975223
2-Hexanone	U		0.382	1.00	100	04/30/2017 00:46	WG975223
Methylene Chloride	U		0.100	0.500	100	04/30/2017 00:46	WG975223
4-Methyl-2-pentanone (MIBK)	U		0.214	1.00	100	04/30/2017 00:46	WG975223
Methyl tert-butyl ether	U		0.0367	0.100	100	04/30/2017 00:46	WG975223
Naphthalene	0.239	J	0.100	0.500	100	04/30/2017 00:46	WG975223
n-Propylbenzene	0.111		0.0349	0.100	100	04/30/2017 00:46	WG975223
Styrene	U		0.0307	0.100	100	04/30/2017 00:46	WG975223
1,1,1,2-Tetrachloroethane	U		0.0385	0.100	100	04/30/2017 00:46	WG975223
1,1,2,2-Tetrachloroethane	U		0.0130	0.100	100	04/30/2017 00:46	WG975223
Tetrachloroethene	U		0.0372	0.100	100	04/30/2017 00:46	WG975223
Toluene	0.356		0.0412	0.100	100	04/30/2017 00:46	WG975223
1,1,1-Trichloroethane	U		0.0319	0.100	100	04/30/2017 00:46	WG975223
1,1,2-Trichloroethane	U		0.0383	0.100	100	04/30/2017 00:46	WG975223
Trichloroethene	U		0.0398	0.100	100	04/30/2017 00:46	WG975223
1,2,4-Trimethylbenzene	0.382		0.0373	0.100	100	04/30/2017 00:46	WG975223
1,3,5-Trimethylbenzene	0.0852	J	0.0387	0.100	100	04/30/2017 00:46	WG975223
Vinyl chloride	U		0.0259	0.100	100	04/30/2017 00:46	WG975223
o-Xylene	0.0443	J	0.0341	0.100	100	04/30/2017 00:46	WG975223
m&p-Xylene	1.84		0.0719	0.200	100	04/30/2017 00:46	WG975223
Xylenes, Total	1.88		0.106	0.300	100	04/30/2017 00:46	WG975223
(S) Toluene-d8	*103*			*80.0-120*		*04/30/2017 00:46*	WG975223
(S) Dibromofluoromethane	*94.5*			*76.0-123*		*04/30/2017 00:46*	WG975223
(S) 4-Bromofluorobenzene	*91.9*			*80.0-120*		*04/30/2017 00:46*	WG975223

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	5.94		0.247	1.00	10	05/01/2017 18:36	WG975181
(S) o-Terphenyl	*92.4*			*31.0-160*		*05/01/2017 18:36*	WG975181

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Dissolved Solids	2630		2.82	10.0	1	04/29/2017 13:05	WG974898

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	U		0.197	1.00	10	05/03/2017 14:52	WG975894

Sample Narrative:

353.2 L905307-25 WG975894: 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	302		5.19	100	100	04/29/2017 02:08	WG974576
Fluoride	1.28		0.00990	0.100	1	04/29/2017 00:38	WG974576
Sulfate	1020		7.74	500	100	04/29/2017 02:08	WG974576

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.0114		0.000250	0.00200	1	05/04/2017 17:13	WG974743
Arsenic,Dissolved	0.0120		0.000250	0.00200	1	05/02/2017 03:11	WG974740
Barium	0.0259		0.000360	0.00500	1	05/04/2017 17:13	WG974743
Barium,Dissolved	0.0269		0.000360	0.00500	1	05/02/2017 03:11	WG974740
Calcium	313		0.0460	1.00	1	05/04/2017 17:13	WG974743
Chromium	U		0.000540	0.00200	1	05/04/2017 17:13	WG974743
Chromium,Dissolved	0.00107	J	0.000540	0.00200	1	05/02/2017 03:11	WG974740
Iron	U		0.0150	0.100	1	05/04/2017 17:13	WG974743
Iron,Dissolved	U		0.0150	0.100	1	05/02/2017 03:11	WG974740
Lead	0.00133	J	0.000240	0.00200	1	05/04/2017 17:13	WG974743
Lead,Dissolved	0.00110	J	0.000240	0.00200	1	05/02/2017 03:11	WG974740
Manganese	0.00658		0.000250	0.00500	1	05/04/2017 17:13	WG974743
Manganese,Dissolved	0.00711		0.000250	0.00500	1	05/02/2017 03:11	WG974740
Potassium	2.44		0.0370	1.00	1	05/04/2017 17:13	WG974743
Selenium	0.00216	B	0.000380	0.00200	1	05/04/2017 17:13	WG974743
Selenium,Dissolved	0.000512	J	0.000380	0.00200	1	05/02/2017 03:11	WG974740
Sodium	236		0.110	1.00	1	05/04/2017 17:13	WG974743

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	21.4		0.157	0.500	5	05/03/2017 15:15	WG974807
(S) a,a,a-Trifluorotoluene(FID)	*92.3*			*77.0-122*		*05/03/2017 15:15*	WG974807

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		0.500	2.50	50	04/30/2017 01:07	WG975223
Benzene	9.71		0.0166	0.0500	50	04/30/2017 01:07	WG975223
Bromodichloromethane	U		0.0190	0.0500	50	04/30/2017 01:07	WG975223
Bromoform	U		0.0234	0.0500	50	04/30/2017 01:07	WG975223
Bromomethane	U		0.0433	0.250	50	04/30/2017 01:07	WG975223
n-Butylbenzene	U		0.0180	0.0500	50	04/30/2017 01:07	WG975223

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		0.0182	0.0500	50	04/30/2017 01:07	WG975223
Carbon disulfide	0.0186	J	0.0138	0.0500	50	04/30/2017 01:07	WG975223
Carbon tetrachloride	U		0.0190	0.0500	50	04/30/2017 01:07	WG975223
Chlorobenzene	U		0.0174	0.0500	50	04/30/2017 01:07	WG975223
Chlorodibromomethane	U		0.0164	0.0500	50	04/30/2017 01:07	WG975223
Chloroethane	U		0.0226	0.250	50	04/30/2017 01:07	WG975223
Chloroform	U		0.0162	0.250	50	04/30/2017 01:07	WG975223
Chloromethane	U		0.0138	0.125	50	04/30/2017 01:07	WG975223
1,2-Dibromoethane	U		0.0190	0.0500	50	04/30/2017 01:07	WG975223
1,1-Dichloroethane	U		0.0130	0.0500	50	04/30/2017 01:07	WG975223
1,2-Dichloroethane	U		0.0180	0.0500	50	04/30/2017 01:07	WG975223
1,1-Dichloroethene	U		0.0199	0.0500	50	04/30/2017 01:07	WG975223
cis-1,2-Dichloroethene	U		0.0130	0.0500	50	04/30/2017 01:07	WG975223
trans-1,2-Dichloroethene	U		0.0198	0.0500	50	04/30/2017 01:07	WG975223
1,2-Dichloropropane	U		0.0153	0.0500	50	04/30/2017 01:07	WG975223
cis-1,3-Dichloropropene	U		0.0209	0.0500	50	04/30/2017 01:07	WG975223
trans-1,3-Dichloropropene	U		0.0210	0.0500	50	04/30/2017 01:07	WG975223
Ethylbenzene	0.0301	J	0.0192	0.0500	50	04/30/2017 01:07	WG975223
Isopropylbenzene	0.0344	J	0.0163	0.0500	50	04/30/2017 01:07	WG975223
p-Isopropyltoluene	U		0.0175	0.0500	50	04/30/2017 01:07	WG975223
2-Butanone (MEK)	U		0.196	0.500	50	04/30/2017 01:07	WG975223
2-Hexanone	U		0.191	0.500	50	04/30/2017 01:07	WG975223
Methylene Chloride	U		0.0500	0.250	50	04/30/2017 01:07	WG975223
4-Methyl-2-pentanone (MIBK)	U		0.107	0.500	50	04/30/2017 01:07	WG975223
Methyl tert-butyl ether	0.0832		0.0184	0.0500	50	04/30/2017 01:07	WG975223
Naphthalene	U		0.0500	0.250	50	04/30/2017 01:07	WG975223
n-Propylbenzene	0.0482	J	0.0174	0.0500	50	04/30/2017 01:07	WG975223
Styrene	U		0.0154	0.0500	50	04/30/2017 01:07	WG975223
1,1,1,2-Tetrachloroethane	U		0.0192	0.0500	50	04/30/2017 01:07	WG975223
1,1,2,2-Tetrachloroethane	U		0.00650	0.0500	50	04/30/2017 01:07	WG975223
Tetrachloroethene	U		0.0186	0.0500	50	04/30/2017 01:07	WG975223
Toluene	0.116		0.0206	0.0500	50	04/30/2017 01:07	WG975223
1,1,1-Trichloroethane	U		0.0160	0.0500	50	04/30/2017 01:07	WG975223
1,1,2-Trichloroethane	U		0.0192	0.0500	50	04/30/2017 01:07	WG975223
Trichloroethene	U		0.0199	0.0500	50	04/30/2017 01:07	WG975223
1,2,4-Trimethylbenzene	0.0853		0.0186	0.0500	50	04/30/2017 01:07	WG975223
1,3,5-Trimethylbenzene	U		0.0194	0.0500	50	04/30/2017 01:07	WG975223
Vinyl chloride	U		0.0130	0.0500	50	04/30/2017 01:07	WG975223
o-Xylene	U		0.0170	0.0500	50	04/30/2017 01:07	WG975223
m&p-Xylene	0.236		0.0360	0.100	50	04/30/2017 01:07	WG975223
Xylenes, Total	0.236		0.0530	0.150	50	04/30/2017 01:07	WG975223
(S) Toluene-d8	*102*			*80.0-120*		*04/30/2017 01:07*	WG975223
(S) Dibromofluoromethane	*92.2*			*76.0-123*		*04/30/2017 01:07*	WG975223
(S) 4-Bromofluorobenzene	*93.7*			*80.0-120*		*04/30/2017 01:07*	WG975223

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	17.9		0.247	1.00	10	05/01/2017 18:54	WG975181
(S) o-Terphenyl	*88.9*			*31.0-160*		*05/01/2017 18:54*	WG975181

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Dissolved Solids	6840		2.82	10.0	1	04/29/2017 13:05	WG974898

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	155		0.985	5.00	50	05/02/2017 12:34	WG974947

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	463		5.19	100	100	04/29/2017 16:34	WG974924
Fluoride	2.21		0.00990	0.100	1	04/29/2017 15:59	WG974924
Sulfate	3710		7.74	500	100	04/29/2017 16:34	WG974924

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.00210		0.000250	0.00200	1	05/04/2017 17:16	WG974743
Arsenic,Dissolved	0.00213		0.000250	0.00200	1	05/02/2017 03:15	WG974740
Barium	0.0137		0.000360	0.00500	1	05/04/2017 17:16	WG974743
Barium,Dissolved	0.0130		0.000360	0.00500	1	05/02/2017 03:15	WG974740
Calcium	566		0.0460	1.00	1	05/04/2017 17:16	WG974743
Chromium	U		0.000540	0.00200	1	05/04/2017 17:16	WG974743
Chromium,Dissolved	U		0.000540	0.00200	1	05/02/2017 03:15	WG974740
Iron	0.0253	J	0.0150	0.100	1	05/04/2017 17:16	WG974743
Iron,Dissolved	U		0.0150	0.100	1	05/02/2017 03:15	WG974740
Lead	U		0.000240	0.00200	1	05/04/2017 17:16	WG974743
Lead,Dissolved	U		0.000240	0.00200	1	05/02/2017 03:15	WG974740
Manganese	0.433		0.000250	0.00500	1	05/04/2017 17:16	WG974743
Manganese,Dissolved	0.549		0.000250	0.00500	1	05/02/2017 03:15	WG974740
Potassium	5.90		0.0370	1.00	1	05/04/2017 17:16	WG974743
Selenium	0.0485		0.000380	0.00200	1	05/04/2017 17:16	WG974743
Selenium,Dissolved	0.0427		0.000380	0.00200	1	05/02/2017 03:15	WG974740
Sodium	646		0.110	1.00	1	05/04/2017 17:16	WG974743

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		0.0100	0.0500	1	04/30/2017 01:27	WG975223
Benzene	U		0.000331	0.00100	1	04/30/2017 01:27	WG975223
Bromodichloromethane	U		0.000380	0.00100	1	04/30/2017 01:27	WG975223
Bromoform	U		0.000469	0.00100	1	04/30/2017 01:27	WG975223
Bromomethane	U		0.000866	0.00500	1	04/30/2017 01:27	WG975223
n-Butylbenzene	U		0.000361	0.00100	1	04/30/2017 01:27	WG975223
sec-Butylbenzene	U		0.000365	0.00100	1	04/30/2017 01:27	WG975223
Carbon disulfide	U		0.000275	0.00100	1	04/30/2017 01:27	WG975223
Carbon tetrachloride	U		0.000379	0.00100	1	04/30/2017 01:27	WG975223
Chlorobenzene	U		0.000348	0.00100	1	04/30/2017 01:27	WG975223
Chlorodibromomethane	U		0.000327	0.00100	1	04/30/2017 01:27	WG975223
Chloroethane	U		0.000453	0.00500	1	04/30/2017 01:27	WG975223
Chloroform	U		0.000324	0.00500	1	04/30/2017 01:27	WG975223
Chloromethane	U		0.000276	0.00250	1	04/30/2017 01:27	WG975223
1,2-Dibromoethane	U		0.000381	0.00100	1	04/30/2017 01:27	WG975223
1,1-Dichloroethane	U		0.000259	0.00100	1	04/30/2017 01:27	WG975223

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
1,2-Dichloroethane	U		0.000361	0.00100	1	04/30/2017 01:27	WG975223
1,1-Dichloroethene	U		0.000398	0.00100	1	04/30/2017 01:27	WG975223
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	04/30/2017 01:27	WG975223
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	04/30/2017 01:27	WG975223
1,2-Dichloropropane	U		0.000306	0.00100	1	04/30/2017 01:27	WG975223
cis-1,3-Dichloropropene	U		0.000418	0.00100	1	04/30/2017 01:27	WG975223
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	04/30/2017 01:27	WG975223
Ethylbenzene	U		0.000384	0.00100	1	04/30/2017 01:27	WG975223
Isopropylbenzene	U		0.000326	0.00100	1	04/30/2017 01:27	WG975223
p-Isopropyltoluene	U		0.000350	0.00100	1	04/30/2017 01:27	WG975223
2-Butanone (MEK)	U		0.00393	0.0100	1	04/30/2017 01:27	WG975223
2-Hexanone	U		0.00382	0.0100	1	04/30/2017 01:27	WG975223
Methylene Chloride	U		0.00100	0.00500	1	04/30/2017 01:27	WG975223
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	04/30/2017 01:27	WG975223
Methyl tert-butyl ether	U		0.000367	0.00100	1	04/30/2017 01:27	WG975223
Naphthalene	U		0.00100	0.00500	1	04/30/2017 01:27	WG975223
n-Propylbenzene	U		0.000349	0.00100	1	04/30/2017 01:27	WG975223
Styrene	U		0.000307	0.00100	1	04/30/2017 01:27	WG975223
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	04/30/2017 01:27	WG975223
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	04/30/2017 01:27	WG975223
Tetrachloroethene	U		0.000372	0.00100	1	04/30/2017 01:27	WG975223
Toluene	U		0.000412	0.00100	1	04/30/2017 01:27	WG975223
1,1,1-Trichloroethane	U		0.000319	0.00100	1	04/30/2017 01:27	WG975223
1,1,2-Trichloroethane	U		0.000383	0.00100	1	04/30/2017 01:27	WG975223
Trichloroethene	U		0.000398	0.00100	1	04/30/2017 01:27	WG975223
1,2,4-Trimethylbenzene	U		0.000373	0.00100	1	04/30/2017 01:27	WG975223
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	04/30/2017 01:27	WG975223
Vinyl chloride	U		0.000259	0.00100	1	04/30/2017 01:27	WG975223
o-Xylene	U		0.000341	0.00100	1	04/30/2017 01:27	WG975223
m&p-Xylene	U		0.000719	0.00200	1	04/30/2017 01:27	WG975223
Xylenes, Total	U		0.00106	0.00300	1	04/30/2017 01:27	WG975223
(S) Toluene-d8	*104*			*80.0-120*		*04/30/2017 01:27*	WG975223
(S) Dibromofluoromethane	*97.3*			*76.0-123*		*04/30/2017 01:27*	WG975223
(S) 4-Bromofluorobenzene	*90.4*			*80.0-120*		*04/30/2017 01:27*	WG975223

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	0.835		0.0247	0.100	1	05/01/2017 13:00	WG975181
(S) o-Terphenyl	*88.6*			*31.0-160*		*05/01/2017 13:00*	WG975181

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Dissolved Solids	3690		2.82	10.0	1	04/29/2017 13:57	WG974899

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	U		0.197	1.00	10	05/02/2017 12:35	WG974947

Sample Narrative:

353.2 L905307-27 WG974947: 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	246		0.519	10.0	10	05/02/2017 16:22	WG975534
Fluoride	1.41		0.00990	0.100	1	04/29/2017 16:11	WG974924
Sulfate	1860		7.74	500	100	04/29/2017 16:23	WG974924

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.0359		0.000250	0.00200	1	05/04/2017 18:01	WG974743
Arsenic,Dissolved	0.0234		0.000250	0.00200	1	05/02/2017 03:19	WG974740
Barium	0.0243		0.000360	0.00500	1	05/04/2017 18:01	WG974743
Barium,Dissolved	0.0229		0.000360	0.00500	1	05/02/2017 03:19	WG974740
Calcium	558		0.0460	1.00	1	05/04/2017 18:01	WG974743
Chromium	0.00254		0.000540	0.00200	1	05/04/2017 18:01	WG974743
Chromium,Dissolved	0.00338		0.000540	0.00200	1	05/02/2017 03:19	WG974740
Iron	4.88		0.0150	0.100	1	05/04/2017 18:01	WG974743
Iron,Dissolved	0.184		0.0150	0.100	1	05/02/2017 03:19	WG974740
Lead	0.00492		0.000240	0.00200	1	05/04/2017 18:01	WG974743
Lead,Dissolved	U		0.000240	0.00200	1	05/02/2017 03:19	WG974740
Manganese	0.240		0.000250	0.00500	1	05/04/2017 18:01	WG974743
Manganese,Dissolved	0.218		0.000250	0.00500	1	05/02/2017 03:19	WG974740
Potassium	7.37		0.0370	1.00	1	05/04/2017 18:01	WG974743
Selenium	0.00573	B	0.000380	0.00200	1	05/04/2017 18:01	WG974743
Selenium,Dissolved	0.00286		0.000380	0.00200	1	05/02/2017 03:19	WG974740
Sodium	268		0.110	1.00	1	05/04/2017 18:01	WG974743

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	2.20		0.0314	0.100	1	05/03/2017 15:37	WG974807
(S) a,a,a-Trifluorotoluene(FID)	*93.8*			*77.0-122*		*05/03/2017 15:37*	WG974807

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		0.100	0.500	10	04/30/2017 01:48	WG975223
Benzene	0.696		0.00331	0.0100	10	04/30/2017 01:48	WG975223
Bromodichloromethane	U		0.00380	0.0100	10	04/30/2017 01:48	WG975223
Bromoform	U		0.00469	0.0100	10	04/30/2017 01:48	WG975223
Bromomethane	U		0.00866	0.0500	10	04/30/2017 01:48	WG975223
n-Butylbenzene	0.00401	J	0.00361	0.0100	10	04/30/2017 01:48	WG975223

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	0.00414	J	0.00365	0.0100	10	04/30/2017 01:48	WG975223
Carbon disulfide	0.00277	J	0.00275	0.0100	10	04/30/2017 01:48	WG975223
Carbon tetrachloride	U		0.00379	0.0100	10	04/30/2017 01:48	WG975223
Chlorobenzene	U		0.00348	0.0100	10	04/30/2017 01:48	WG975223
Chlorodibromomethane	U		0.00327	0.0100	10	04/30/2017 01:48	WG975223
Chloroethane	U		0.00453	0.0500	10	04/30/2017 01:48	WG975223
Chloroform	U		0.00324	0.0500	10	04/30/2017 01:48	WG975223
Chloromethane	U		0.00276	0.0250	10	04/30/2017 01:48	WG975223
1,2-Dibromoethane	U		0.00381	0.0100	10	04/30/2017 01:48	WG975223
1,1-Dichloroethane	U		0.00259	0.0100	10	04/30/2017 01:48	WG975223
1,2-Dichloroethane	U		0.00361	0.0100	10	04/30/2017 01:48	WG975223
1,1-Dichloroethene	U		0.00398	0.0100	10	04/30/2017 01:48	WG975223
cis-1,2-Dichloroethene	0.624		0.00260	0.0100	10	04/30/2017 01:48	WG975223
trans-1,2-Dichloroethene	0.0108		0.00396	0.0100	10	04/30/2017 01:48	WG975223
1,2-Dichloropropane	U		0.00306	0.0100	10	04/30/2017 01:48	WG975223
cis-1,3-Dichloropropene	U		0.00418	0.0100	10	04/30/2017 01:48	WG975223
trans-1,3-Dichloropropene	U		0.00419	0.0100	10	04/30/2017 01:48	WG975223
Ethylbenzene	0.0169		0.00384	0.0100	10	04/30/2017 01:48	WG975223
Isopropylbenzene	0.00424	J	0.00326	0.0100	10	04/30/2017 01:48	WG975223
p-Isopropyltoluene	U		0.00350	0.0100	10	04/30/2017 01:48	WG975223
2-Butanone (MEK)	U		0.0393	0.100	10	04/30/2017 01:48	WG975223
2-Hexanone	U		0.0382	0.100	10	04/30/2017 01:48	WG975223
Methylene Chloride	U		0.0100	0.0500	10	04/30/2017 01:48	WG975223
4-Methyl-2-pentanone (MIBK)	U		0.0214	0.100	10	04/30/2017 01:48	WG975223
Methyl tert-butyl ether	0.0441		0.00367	0.0100	10	04/30/2017 01:48	WG975223
Naphthalene	U		0.0100	0.0500	10	04/30/2017 01:48	WG975223
n-Propylbenzene	0.00361	J	0.00349	0.0100	10	04/30/2017 01:48	WG975223
Styrene	U		0.00307	0.0100	10	04/30/2017 01:48	WG975223
1,1,1,2-Tetrachloroethane	U		0.00385	0.0100	10	04/30/2017 01:48	WG975223
1,1,2,2-Tetrachloroethane	U		0.00130	0.0100	10	04/30/2017 01:48	WG975223
Tetrachloroethene	U		0.00372	0.0100	10	04/30/2017 01:48	WG975223
Toluene	0.0102		0.00412	0.0100	10	04/30/2017 01:48	WG975223
1,1,1-Trichloroethane	U		0.00319	0.0100	10	04/30/2017 01:48	WG975223
1,1,2-Trichloroethane	U		0.00383	0.0100	10	04/30/2017 01:48	WG975223
Trichloroethene	0.00896	J	0.00398	0.0100	10	04/30/2017 01:48	WG975223
1,2,4-Trimethylbenzene	U		0.00373	0.0100	10	04/30/2017 01:48	WG975223
1,3,5-Trimethylbenzene	U		0.00387	0.0100	10	04/30/2017 01:48	WG975223
Vinyl chloride	U		0.00259	0.0100	10	04/30/2017 01:48	WG975223
o-Xylene	U		0.00341	0.0100	10	04/30/2017 01:48	WG975223
m&p-Xylene	0.00743	J	0.00719	0.0200	10	04/30/2017 01:48	WG975223
Xylenes, Total	U		0.0106	0.0300	10	04/30/2017 01:48	WG975223
(S) Toluene-d8	*103*			*80.0-120*		*04/30/2017 01:48*	WG975223
(S) Dibromofluoromethane	*94.9*			*76.0-123*		*04/30/2017 01:48*	WG975223
(S) 4-Bromofluorobenzene	*92.8*			*80.0-120*		*04/30/2017 01:48*	WG975223

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	21.5		0.494	2.00	20	05/01/2017 19:29	WG975181
(S) o-Terphenyl	*126*	J7		*31.0-160*		*05/01/2017 19:29*	WG975181

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Dissolved Solids	2120		2.82	10.0	1	04/29/2017 13:57	WG974899

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	U		0.197	1.00	10	05/02/2017 12:36	WG974947

Sample Narrative:

353.2 L905307-28 WG974947: 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	74.8		0.0519	1.00	1	04/29/2017 17:09	WG974924
Fluoride	1.18		0.00990	0.100	1	04/29/2017 17:09	WG974924
Sulfate	790		7.74	500	100	04/29/2017 18:08	WG974924

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.00780		0.000250	0.00200	1	05/04/2017 18:04	WG974743
Arsenic,Dissolved	0.00818		0.000250	0.00200	1	05/02/2017 03:22	WG974740
Barium	0.0532		0.000360	0.00500	1	05/04/2017 18:04	WG974743
Barium,Dissolved	0.0523		0.000360	0.00500	1	05/02/2017 03:22	WG974740
Calcium	362		0.0460	1.00	1	05/04/2017 18:04	WG974743
Chromium	U		0.000540	0.00200	1	05/04/2017 18:04	WG974743
Chromium,Dissolved	U		0.000540	0.00200	1	05/02/2017 03:22	WG974740
Iron	0.0336	J	0.0150	0.100	1	05/04/2017 18:04	WG974743
Iron,Dissolved	U		0.0150	0.100	1	05/02/2017 03:22	WG974740
Lead	0.00352		0.000240	0.00200	1	05/04/2017 18:04	WG974743
Lead,Dissolved	0.00238		0.000240	0.00200	1	05/02/2017 03:22	WG974740
Manganese	0.00138	J	0.000250	0.00500	1	05/04/2017 18:04	WG974743
Manganese,Dissolved	0.00165	J	0.000250	0.00500	1	05/02/2017 03:22	WG974740
Potassium	0.463	J	0.0370	1.00	1	05/04/2017 18:04	WG974743
Selenium	0.00138	B J	0.000380	0.00200	1	05/04/2017 18:04	WG974743
Selenium,Dissolved	U		0.000380	0.00200	1	05/02/2017 03:22	WG974740
Sodium	33.8		0.110	1.00	1	05/04/2017 18:04	WG974743

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	17.0		0.157	0.500	5	05/03/2017 15:59	WG974807
(S) a,a,a-Trifluorotoluene(FID)	*93.2*			*77.0-122*		*05/03/2017 15:59*	WG974807

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		1.00	5.00	100	04/29/2017 21:04	WG975227
Benzene	2.67		0.0331	0.100	100	04/29/2017 21:04	WG975227
Bromodichloromethane	U		0.0380	0.100	100	04/29/2017 21:04	WG975227
Bromoform	U		0.0469	0.100	100	04/29/2017 21:04	WG975227
Bromomethane	U		0.0866	0.500	100	04/29/2017 21:04	WG975227
n-Butylbenzene	U		0.0361	0.100	100	04/29/2017 21:04	WG975227

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		0.0365	0.100	100	04/29/2017 21:04	WG975227
Carbon disulfide	0.0284	J	0.0275	0.100	100	04/29/2017 21:04	WG975227
Carbon tetrachloride	U	J4	0.0379	0.100	100	04/29/2017 21:04	WG975227
Chlorobenzene	U		0.0348	0.100	100	04/29/2017 21:04	WG975227
Chlorodibromomethane	U	J4	0.0327	0.100	100	04/29/2017 21:04	WG975227
Chloroethane	U		0.0453	0.500	100	04/29/2017 21:04	WG975227
Chloroform	U		0.0324	0.500	100	04/29/2017 21:04	WG975227
Chloromethane	U		0.0276	0.250	100	04/29/2017 21:04	WG975227
1,2-Dibromoethane	U		0.0381	0.100	100	04/29/2017 21:04	WG975227
1,1-Dichloroethane	U		0.0259	0.100	100	04/29/2017 21:04	WG975227
1,2-Dichloroethane	U		0.0361	0.100	100	04/29/2017 21:04	WG975227
1,1-Dichloroethene	U		0.0398	0.100	100	04/29/2017 21:04	WG975227
cis-1,2-Dichloroethene	U		0.0260	0.100	100	04/29/2017 21:04	WG975227
trans-1,2-Dichloroethene	U		0.0396	0.100	100	04/29/2017 21:04	WG975227
1,2-Dichloropropane	U		0.0306	0.100	100	04/29/2017 21:04	WG975227
cis-1,3-Dichloropropene	U		0.0418	0.100	100	04/29/2017 21:04	WG975227
trans-1,3-Dichloropropene	U		0.0419	0.100	100	04/29/2017 21:04	WG975227
Ethylbenzene	0.473		0.0384	0.100	100	04/29/2017 21:04	WG975227
Isopropylbenzene	0.108		0.0326	0.100	100	04/29/2017 21:04	WG975227
p-Isopropyltoluene	U		0.0350	0.100	100	04/29/2017 21:04	WG975227
2-Butanone (MEK)	U		0.393	1.00	100	04/29/2017 21:04	WG975227
2-Hexanone	U		0.382	1.00	100	04/29/2017 21:04	WG975227
Methylene Chloride	U		0.100	0.500	100	04/29/2017 21:04	WG975227
4-Methyl-2-pentanone (MIBK)	U		0.214	1.00	100	04/29/2017 21:04	WG975227
Methyl tert-butyl ether	U		0.0367	0.100	100	04/29/2017 21:04	WG975227
Naphthalene	U		0.100	0.500	100	04/29/2017 21:04	WG975227
n-Propylbenzene	0.114		0.0349	0.100	100	04/29/2017 21:04	WG975227
Styrene	U		0.0307	0.100	100	04/29/2017 21:04	WG975227
1,1,1,2-Tetrachloroethane	U		0.0385	0.100	100	04/29/2017 21:04	WG975227
1,1,2,2-Tetrachloroethane	U		0.0130	0.100	100	04/29/2017 21:04	WG975227
Tetrachloroethene	U		0.0372	0.100	100	04/29/2017 21:04	WG975227
Toluene	1.61		0.0412	0.100	100	04/29/2017 21:04	WG975227
1,1,1-Trichloroethane	U		0.0319	0.100	100	04/29/2017 21:04	WG975227
1,1,2-Trichloroethane	U		0.0383	0.100	100	04/29/2017 21:04	WG975227
Trichloroethene	U		0.0398	0.100	100	04/29/2017 21:04	WG975227
1,2,4-Trimethylbenzene	0.235		0.0373	0.100	100	04/29/2017 21:04	WG975227
1,3,5-Trimethylbenzene	0.0634	J	0.0387	0.100	100	04/29/2017 21:04	WG975227
Vinyl chloride	U		0.0259	0.100	100	04/29/2017 21:04	WG975227
o-Xylene	0.216		0.0341	0.100	100	04/29/2017 21:04	WG975227
m&p-Xylene	0.832		0.0719	0.200	100	04/29/2017 21:04	WG975227
Xylenes, Total	1.05		0.106	0.300	100	04/29/2017 21:04	WG975227
(S) Toluene-d8	*102*			*80.0-120*		*04/29/2017 21:04*	WG975227
(S) Dibromofluoromethane	*97.1*			*76.0-123*		*04/29/2017 21:04*	WG975227
(S) 4-Bromofluorobenzene	*102*			*80.0-120*		*04/29/2017 21:04*	WG975227

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	19.8		0.247	1.00	10	05/01/2017 19:11	WG975181
(S) o-Terphenyl	*92.2*			*31.0-160*		*05/01/2017 19:11*	WG975181

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Dissolved Solids	3880		2.82	10.0	1	04/29/2017 13:57	WG974899

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	U		0.197	1.00	10	05/02/2017 12:37	WG974947

Sample Narrative:

353.2 L905307-29 WG974947: 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	161		5.19	100	100	04/29/2017 18:19	WG974924
Fluoride	3.41		0.00990	0.100	1	04/29/2017 17:21	WG974924
Sulfate	2740		7.74	500	100	04/29/2017 18:19	WG974924

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.00894		0.000250	0.00200	1	05/04/2017 18:08	WG974743
Arsenic,Dissolved	0.00507		0.000250	0.00200	1	05/02/2017 03:33	WG974740
Barium	0.0159		0.000360	0.00500	1	05/04/2017 18:08	WG974743
Barium,Dissolved	0.0148		0.000360	0.00500	1	05/02/2017 03:33	WG974740
Calcium	363		0.0460	1.00	1	05/04/2017 18:08	WG974743
Chromium	U		0.000540	0.00200	1	05/04/2017 18:08	WG974743
Chromium,Dissolved	U		0.000540	0.00200	1	05/02/2017 03:33	WG974740
Iron	1.53		0.0150	0.100	1	05/04/2017 18:08	WG974743
Iron,Dissolved	0.0528	J	0.0150	0.100	1	05/02/2017 03:33	WG974740
Lead	U		0.000240	0.00200	1	05/04/2017 18:08	WG974743
Lead,Dissolved	U		0.000240	0.00200	1	05/02/2017 03:33	WG974740
Manganese	0.144		0.000250	0.00500	1	05/04/2017 18:08	WG974743
Manganese,Dissolved	0.144		0.000250	0.00500	1	05/02/2017 03:33	WG974740
Potassium	1.61		0.0370	1.00	1	05/04/2017 18:08	WG974743
Selenium	0.00359	B	0.000380	0.00200	1	05/04/2017 18:08	WG974743
Selenium,Dissolved	0.000711	J	0.000380	0.00200	1	05/02/2017 03:33	WG974740
Sodium	189		0.110	1.00	1	05/04/2017 18:08	WG974743

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	0.217		0.0314	0.100	1	04/28/2017 15:35	WG974807
(S) a,a,a-Trifluorotoluene(FID)	*95.1*			*77.0-122*		*04/28/2017 15:35*	WG974807

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		0.0100	0.0500	1	04/29/2017 21:20	WG975227
Benzene	0.00225		0.000331	0.00100	1	04/29/2017 21:20	WG975227
Bromodichloromethane	U		0.000380	0.00100	1	04/29/2017 21:20	WG975227
Bromoform	U		0.000469	0.00100	1	04/29/2017 21:20	WG975227
Bromomethane	U		0.000866	0.00500	1	04/29/2017 21:20	WG975227
n-Butylbenzene	U		0.000361	0.00100	1	04/29/2017 21:20	WG975227

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	0.00243		0.000365	0.00100	1	04/29/2017 21:20	WG975227
Carbon disulfide	0.000444	J	0.000275	0.00100	1	04/29/2017 21:20	WG975227
Carbon tetrachloride	U	J4	0.000379	0.00100	1	04/29/2017 21:20	WG975227
Chlorobenzene	U		0.000348	0.00100	1	04/29/2017 21:20	WG975227
Chlorodibromomethane	U	J4	0.000327	0.00100	1	04/29/2017 21:20	WG975227
Chloroethane	U		0.000453	0.00500	1	04/29/2017 21:20	WG975227
Chloroform	U		0.000324	0.00500	1	04/29/2017 21:20	WG975227
Chloromethane	U		0.000276	0.00250	1	04/29/2017 21:20	WG975227
1,2-Dibromoethane	U		0.000381	0.00100	1	04/29/2017 21:20	WG975227
1,1-Dichloroethane	U		0.000259	0.00100	1	04/29/2017 21:20	WG975227
1,2-Dichloroethane	U		0.000361	0.00100	1	04/29/2017 21:20	WG975227
1,1-Dichloroethene	U		0.000398	0.00100	1	04/29/2017 21:20	WG975227
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	04/29/2017 21:20	WG975227
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	04/29/2017 21:20	WG975227
1,2-Dichloropropane	U		0.000306	0.00100	1	04/29/2017 21:20	WG975227
cis-1,3-Dichloropropene	U		0.000418	0.00100	1	04/29/2017 21:20	WG975227
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	04/29/2017 21:20	WG975227
Ethylbenzene	U		0.000384	0.00100	1	04/29/2017 21:20	WG975227
Isopropylbenzene	0.0180		0.000326	0.00100	1	04/29/2017 21:20	WG975227
p-Isopropyltoluene	U		0.000350	0.00100	1	04/29/2017 21:20	WG975227
2-Butanone (MEK)	U		0.00393	0.0100	1	04/29/2017 21:20	WG975227
2-Hexanone	U		0.00382	0.0100	1	04/29/2017 21:20	WG975227
Methylene Chloride	U		0.00100	0.00500	1	04/29/2017 21:20	WG975227
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	04/29/2017 21:20	WG975227
Methyl tert-butyl ether	U		0.000367	0.00100	1	04/29/2017 21:20	WG975227
Naphthalene	U		0.00100	0.00500	1	04/29/2017 21:20	WG975227
n-Propylbenzene	0.00336		0.000349	0.00100	1	04/29/2017 21:20	WG975227
Styrene	U		0.000307	0.00100	1	04/29/2017 21:20	WG975227
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	04/29/2017 21:20	WG975227
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	04/29/2017 21:20	WG975227
Tetrachloroethene	U		0.000372	0.00100	1	04/29/2017 21:20	WG975227
Toluene	U		0.000412	0.00100	1	04/29/2017 21:20	WG975227
1,1,1-Trichloroethane	U		0.000319	0.00100	1	04/29/2017 21:20	WG975227
1,1,2-Trichloroethane	U		0.000383	0.00100	1	04/29/2017 21:20	WG975227
Trichloroethene	U		0.000398	0.00100	1	04/29/2017 21:20	WG975227
1,2,4-Trimethylbenzene	U		0.000373	0.00100	1	04/29/2017 21:20	WG975227
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	04/29/2017 21:20	WG975227
Vinyl chloride	U		0.000259	0.00100	1	04/29/2017 21:20	WG975227
o-Xylene	U		0.000341	0.00100	1	04/29/2017 21:20	WG975227
m&p-Xylene	U		0.000719	0.00200	1	04/29/2017 21:20	WG975227
Xylenes, Total	U		0.00106	0.00300	1	04/29/2017 21:20	WG975227
(S) Toluene-d8	*101*			*80.0-120*		*04/29/2017 21:20*	WG975227
(S) Dibromofluoromethane	*97.0*			*76.0-123*		*04/29/2017 21:20*	WG975227
(S) 4-Bromofluorobenzene	*99.4*			*80.0-120*		*04/29/2017 21:20*	WG975227

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	4.20		0.124	0.500	5	05/01/2017 17:08	WG975181
(S) o-Terphenyl	*93.5*			*31.0-160*		*05/01/2017 17:08*	WG975181

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Dissolved Solids	1600		2.82	10.0	1	04/29/2017 13:57	WG974899

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	U		0.197	1.00	10	05/02/2017 12:38	WG974947

Sample Narrative:

353.2 L905307-30 WG974947: 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	191		5.19	100	100	04/29/2017 18:31	WG974924
Fluoride	1.08		0.00990	0.100	1	04/29/2017 17:33	WG974924
Sulfate	298		0.774	50.0	10	05/02/2017 17:14	WG975534

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.00314		0.000250	0.00200	1	05/04/2017 18:11	WG974743
Arsenic,Dissolved	0.00326		0.000250	0.00200	1	05/02/2017 03:36	WG974740
Barium	0.124		0.000360	0.00500	1	05/04/2017 18:11	WG974743
Barium,Dissolved	0.119		0.000360	0.00500	1	05/02/2017 03:36	WG974740
Calcium	179		0.0460	1.00	1	05/04/2017 18:11	WG974743
Chromium	U		0.000540	0.00200	1	05/04/2017 18:11	WG974743
Chromium,Dissolved	U		0.000540	0.00200	1	05/02/2017 03:36	WG974740
Iron	U		0.0150	0.100	1	05/04/2017 18:11	WG974743
Iron,Dissolved	U		0.0150	0.100	1	05/02/2017 03:36	WG974740
Lead	U		0.000240	0.00200	1	05/04/2017 18:11	WG974743
Lead,Dissolved	U		0.000240	0.00200	1	05/02/2017 03:36	WG974740
Manganese	0.000699	J	0.000250	0.00500	1	05/04/2017 18:11	WG974743
Manganese,Dissolved	0.00148	J	0.000250	0.00500	1	05/02/2017 03:36	WG974740
Potassium	1.10		0.0370	1.00	1	05/04/2017 18:11	WG974743
Selenium	0.00148	B J	0.000380	0.00200	1	05/04/2017 18:11	WG974743
Selenium,Dissolved	0.000546	J	0.000380	0.00200	1	05/02/2017 03:36	WG974740
Sodium	208		0.110	1.00	1	05/04/2017 18:11	WG974743

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	25.1		0.157	0.500	5	05/03/2017 16:21	WG974807
(S) a,a,a-Trifluorotoluene(FID)	*95.3*			*77.0-122*		*05/03/2017 16:21*	WG974807

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		0.500	2.50	50	04/29/2017 21:37	WG975227
Benzene	U		0.0166	0.0500	50	04/29/2017 21:37	WG975227
Bromodichloromethane	U		0.0190	0.0500	50	04/29/2017 21:37	WG975227
Bromoform	U		0.0234	0.0500	50	04/29/2017 21:37	WG975227
Bromomethane	U		0.0433	0.250	50	04/29/2017 21:37	WG975227
n-Butylbenzene	U		0.0180	0.0500	50	04/29/2017 21:37	WG975227

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		0.0182	0.0500	50	04/29/2017 21:37	WG975227
Carbon disulfide	U		0.0138	0.0500	50	04/29/2017 21:37	WG975227
Carbon tetrachloride	U	J4	0.0190	0.0500	50	04/29/2017 21:37	WG975227
Chlorobenzene	U		0.0174	0.0500	50	04/29/2017 21:37	WG975227
Chlorodibromomethane	U	J4	0.0164	0.0500	50	04/29/2017 21:37	WG975227
Chloroethane	U		0.0226	0.250	50	04/29/2017 21:37	WG975227
Chloroform	U		0.0162	0.250	50	04/29/2017 21:37	WG975227
Chloromethane	U		0.0138	0.125	50	04/29/2017 21:37	WG975227
1,2-Dibromoethane	U		0.0190	0.0500	50	04/29/2017 21:37	WG975227
1,1-Dichloroethane	U		0.0130	0.0500	50	04/29/2017 21:37	WG975227
1,2-Dichloroethane	U		0.0180	0.0500	50	04/29/2017 21:37	WG975227
1,1-Dichloroethene	U		0.0199	0.0500	50	04/29/2017 21:37	WG975227
cis-1,2-Dichloroethene	U		0.0130	0.0500	50	04/29/2017 21:37	WG975227
trans-1,2-Dichloroethene	U		0.0198	0.0500	50	04/29/2017 21:37	WG975227
1,2-Dichloropropane	U		0.0153	0.0500	50	04/29/2017 21:37	WG975227
cis-1,3-Dichloropropene	U		0.0209	0.0500	50	04/29/2017 21:37	WG975227
trans-1,3-Dichloropropene	U		0.0210	0.0500	50	04/29/2017 21:37	WG975227
Ethylbenzene	U		0.0192	0.0500	50	04/29/2017 21:37	WG975227
Isopropylbenzene	0.0837		0.0163	0.0500	50	04/29/2017 21:37	WG975227
p-Isopropyltoluene	U		0.0175	0.0500	50	04/29/2017 21:37	WG975227
2-Butanone (MEK)	U		0.196	0.500	50	04/29/2017 21:37	WG975227
2-Hexanone	U		0.191	0.500	50	04/29/2017 21:37	WG975227
Methylene Chloride	U		0.0500	0.250	50	04/29/2017 21:37	WG975227
4-Methyl-2-pentanone (MIBK)	U		0.107	0.500	50	04/29/2017 21:37	WG975227
Methyl tert-butyl ether	30.6		0.367	1.00	1000	05/05/2017 01:13	WG975227
Naphthalene	U		0.0500	0.250	50	04/29/2017 21:37	WG975227
n-Propylbenzene	0.0765		0.0174	0.0500	50	04/29/2017 21:37	WG975227
Styrene	U		0.0154	0.0500	50	04/29/2017 21:37	WG975227
1,1,1,2-Tetrachloroethane	U		0.0192	0.0500	50	04/29/2017 21:37	WG975227
1,1,2,2-Tetrachloroethane	U		0.00650	0.0500	50	04/29/2017 21:37	WG975227
Tetrachloroethene	U		0.0186	0.0500	50	04/29/2017 21:37	WG975227
Toluene	U		0.0206	0.0500	50	04/29/2017 21:37	WG975227
1,1,1-Trichloroethane	U		0.0160	0.0500	50	04/29/2017 21:37	WG975227
1,1,2-Trichloroethane	U		0.0192	0.0500	50	04/29/2017 21:37	WG975227
Trichloroethene	U		0.0199	0.0500	50	04/29/2017 21:37	WG975227
1,2,4-Trimethylbenzene	U		0.0186	0.0500	50	04/29/2017 21:37	WG975227
1,3,5-Trimethylbenzene	U		0.0194	0.0500	50	04/29/2017 21:37	WG975227
Vinyl chloride	U		0.0130	0.0500	50	04/29/2017 21:37	WG975227
o-Xylene	U		0.0170	0.0500	50	04/29/2017 21:37	WG975227
m&p-Xylene	U		0.0360	0.100	50	04/29/2017 21:37	WG975227
Xylenes, Total	U		0.0530	0.150	50	04/29/2017 21:37	WG975227
(S) Toluene-d8	*99.1*			*80.0-120*		*05/05/2017 01:13*	WG975227
(S) Toluene-d8	*100*			*80.0-120*		*04/29/2017 21:37*	WG975227
(S) Dibromofluoromethane	*96.9*			*76.0-123*		*05/05/2017 01:13*	WG975227
(S) Dibromofluoromethane	*97.9*			*76.0-123*		*04/29/2017 21:37*	WG975227
(S) 4-Bromofluorobenzene	*93.4*			*80.0-120*		*05/05/2017 01:13*	WG975227
(S) 4-Bromofluorobenzene	*102*			*80.0-120*		*04/29/2017 21:37*	WG975227

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	9.02		0.247	1.00	10	05/01/2017 18:01	WG975181
(S) o-Terphenyl	*103*			*31.0-160*		*05/01/2017 18:01*	WG975181

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Dissolved Solids	1010		2.82	10.0	1	04/29/2017 13:57	WG974899

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	U		0.197	1.00	10	05/02/2017 12:39	WG974947

Sample Narrative:

353.2 L905307-31 WG974947: 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	230		5.19	100	100	04/29/2017 18:43	WG974924
Fluoride	1.77		0.00990	0.100	1	04/29/2017 17:44	WG974924
Sulfate	219		0.774	50.0	10	05/02/2017 17:31	WG975534

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.0570		0.000250	0.00200	1	05/04/2017 15:52	WG974743
Arsenic,Dissolved	0.0578		0.000250	0.00200	1	05/02/2017 03:40	WG974740
Barium	0.0451	O1	0.000360	0.00500	1	05/04/2017 15:52	WG974743
Barium,Dissolved	0.0448		0.000360	0.00500	1	05/02/2017 03:40	WG974740
Calcium	197		0.0460	1.00	1	05/04/2017 15:52	WG974743
Chromium	U		0.000540	0.00200	1	05/04/2017 15:52	WG974743
Chromium,Dissolved	U		0.000540	0.00200	1	05/02/2017 03:40	WG974740
Iron	U		0.0150	0.100	1	05/04/2017 15:52	WG974743
Iron,Dissolved	U		0.0150	0.100	1	05/02/2017 03:40	WG974740
Lead	U		0.000240	0.00200	1	05/04/2017 15:52	WG974743
Lead,Dissolved	U		0.000240	0.00200	1	05/02/2017 03:40	WG974740
Manganese	0.00134	J	0.000250	0.00500	1	05/04/2017 15:52	WG974743
Manganese,Dissolved	0.000952	J	0.000250	0.00500	1	05/02/2017 03:40	WG974740
Potassium	5.20	O1	0.0370	1.00	1	05/04/2017 15:52	WG974743
Selenium	0.00166	B J	0.000380	0.00200	1	05/04/2017 15:52	WG974743
Selenium,Dissolved	U		0.000380	0.00200	1	05/02/2017 03:40	WG974740
Sodium	48.7	O1 V	0.110	1.00	1	05/04/2017 15:52	WG974743

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	2.41		0.0314	0.100	1	05/03/2017 16:48	WG974807
(S) a,a,a-Trifluorotoluene(FID)	*91.0*			*77.0-122*		*05/03/2017 16:48*	WG974807

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		0.0500	0.250	5	04/29/2017 21:54	WG975227
Benzene	0.529		0.00166	0.00500	5	04/29/2017 21:54	WG975227
Bromodichloromethane	U		0.00190	0.00500	5	04/29/2017 21:54	WG975227
Bromoform	U		0.00234	0.00500	5	04/29/2017 21:54	WG975227
Bromomethane	U		0.00433	0.0250	5	04/29/2017 21:54	WG975227
n-Butylbenzene	U		0.00180	0.00500	5	04/29/2017 21:54	WG975227

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	0.0193		0.00182	0.00500	5	04/29/2017 21:54	WG975227
Carbon disulfide	U		0.00138	0.00500	5	04/29/2017 21:54	WG975227
Carbon tetrachloride	U	J4	0.00190	0.00500	5	04/29/2017 21:54	WG975227
Chlorobenzene	U		0.00174	0.00500	5	04/29/2017 21:54	WG975227
Chlorodibromomethane	U	J4	0.00164	0.00500	5	04/29/2017 21:54	WG975227
Chloroethane	U		0.00226	0.0250	5	04/29/2017 21:54	WG975227
Chloroform	U		0.00162	0.0250	5	04/29/2017 21:54	WG975227
Chloromethane	U		0.00138	0.0125	5	04/29/2017 21:54	WG975227
1,2-Dibromoethane	U		0.00190	0.00500	5	04/29/2017 21:54	WG975227
1,1-Dichloroethane	U		0.00130	0.00500	5	04/29/2017 21:54	WG975227
1,2-Dichloroethane	U		0.00180	0.00500	5	04/29/2017 21:54	WG975227
1,1-Dichloroethene	U		0.00199	0.00500	5	04/29/2017 21:54	WG975227
cis-1,2-Dichloroethene	U		0.00130	0.00500	5	04/29/2017 21:54	WG975227
trans-1,2-Dichloroethene	U		0.00198	0.00500	5	04/29/2017 21:54	WG975227
1,2-Dichloropropane	U		0.00153	0.00500	5	04/29/2017 21:54	WG975227
cis-1,3-Dichloropropene	U		0.00209	0.00500	5	04/29/2017 21:54	WG975227
trans-1,3-Dichloropropene	U		0.00210	0.00500	5	04/29/2017 21:54	WG975227
Ethylbenzene	0.0168		0.00192	0.00500	5	04/29/2017 21:54	WG975227
Isopropylbenzene	0.0380		0.00163	0.00500	5	04/29/2017 21:54	WG975227
p-Isopropyltoluene	U		0.00175	0.00500	5	04/29/2017 21:54	WG975227
2-Butanone (MEK)	U		0.0196	0.0500	5	04/29/2017 21:54	WG975227
2-Hexanone	U		0.0191	0.0500	5	04/29/2017 21:54	WG975227
Methylene Chloride	U		0.00500	0.0250	5	04/29/2017 21:54	WG975227
4-Methyl-2-pentanone (MIBK)	U		0.0107	0.0500	5	04/29/2017 21:54	WG975227
Methyl tert-butyl ether	0.0132		0.00184	0.00500	5	04/29/2017 21:54	WG975227
Naphthalene	U		0.00500	0.0250	5	04/29/2017 21:54	WG975227
n-Propylbenzene	0.00632		0.00174	0.00500	5	04/29/2017 21:54	WG975227
Styrene	U		0.00154	0.00500	5	04/29/2017 21:54	WG975227
1,1,1,2-Tetrachloroethane	U		0.00192	0.00500	5	04/29/2017 21:54	WG975227
1,1,2,2-Tetrachloroethane	U		0.000650	0.00500	5	04/29/2017 21:54	WG975227
Tetrachloroethene	U		0.00186	0.00500	5	04/29/2017 21:54	WG975227
Toluene	U		0.00206	0.00500	5	04/29/2017 21:54	WG975227
1,1,1-Trichloroethane	U		0.00160	0.00500	5	04/29/2017 21:54	WG975227
1,1,2-Trichloroethane	U		0.00192	0.00500	5	04/29/2017 21:54	WG975227
Trichloroethene	U		0.00199	0.00500	5	04/29/2017 21:54	WG975227
1,2,4-Trimethylbenzene	0.00209	J	0.00186	0.00500	5	04/29/2017 21:54	WG975227
1,3,5-Trimethylbenzene	U		0.00194	0.00500	5	04/29/2017 21:54	WG975227
Vinyl chloride	U		0.00130	0.00500	5	04/29/2017 21:54	WG975227
o-Xylene	U		0.00170	0.00500	5	04/29/2017 21:54	WG975227
m&p-Xylene	0.00402	J	0.00360	0.0100	5	04/29/2017 21:54	WG975227
Xylenes, Total	U		0.00530	0.0150	5	04/29/2017 21:54	WG975227
(S) Toluene-d8	*100*			*80.0-120*		*04/29/2017 21:54*	WG975227
(S) Dibromofluoromethane	*96.7*			*76.0-123*		*04/29/2017 21:54*	WG975227
(S) 4-Bromofluorobenzene	*99.5*			*80.0-120*		*04/29/2017 21:54*	WG975227

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	4.91		0.247	1.00	10	05/01/2017 17:43	WG975181
(S) o-Terphenyl	*103*			*31.0-160*		*05/01/2017 17:43*	WG975181

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Dissolved Solids	U		2.82	10.0	1	04/29/2017 13:57	WG974899

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	U		0.197	1.00	10	05/02/2017 12:40	WG974947

Sample Narrative:

353.2 L905307-32 WG974947: 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	0.269	J	0.0519	1.00	1	05/02/2017 17:49	WG975534
Fluoride	U		0.00990	0.100	1	04/29/2017 17:56	WG974924
Sulfate	0.173	J	0.0774	5.00	1	04/29/2017 17:56	WG974924

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	U		0.000250	0.00200	1	05/05/2017 05:56	WG976346
Arsenic,Dissolved	U		0.000250	0.00200	1	05/02/2017 03:44	WG974740
Barium	U		0.000360	0.00500	1	05/05/2017 05:56	WG976346
Barium,Dissolved	U		0.000360	0.00500	1	05/02/2017 03:44	WG974740
Calcium	0.365	J	0.0460	1.00	1	05/05/2017 05:56	WG976346
Chromium	U		0.000540	0.00200	1	05/05/2017 05:56	WG976346
Chromium,Dissolved	U		0.000540	0.00200	1	05/02/2017 03:44	WG974740
Iron	U		0.0150	0.100	1	05/05/2017 05:56	WG976346
Iron,Dissolved	U		0.0150	0.100	1	05/02/2017 03:44	WG974740
Lead	U		0.000240	0.00200	1	05/05/2017 13:27	WG976346
Lead,Dissolved	U		0.000240	0.00200	1	05/02/2017 03:44	WG974740
Manganese	0.000651	J	0.000250	0.00500	1	05/05/2017 05:56	WG976346
Manganese,Dissolved	U		0.000250	0.00500	1	05/02/2017 03:44	WG974740
Potassium	U		0.0370	1.00	1	05/05/2017 05:56	WG976346
Selenium	U		0.000380	0.00200	1	05/05/2017 05:56	WG976346
Selenium,Dissolved	U		0.000380	0.00200	1	05/02/2017 03:44	WG974740
Sodium	0.132	J	0.110	1.00	1	05/05/2017 05:56	WG976346

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
TPH (GC/FID) Low Fraction	U		0.0314	0.100	1	04/28/2017 20:03	WG974807
(S) a,a,a-Trifluorotoluene(FID)	*98.4*			*77.0-122*		*04/28/2017 20:03*	WG974807

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	J4	0.0100	0.0500	1	04/30/2017 22:37	WG975239
Benzene	U		0.000331	0.00100	1	04/30/2017 22:37	WG975239
Bromodichloromethane	U		0.000380	0.00100	1	04/30/2017 22:37	WG975239
Bromoform	U		0.000469	0.00100	1	04/30/2017 22:37	WG975239
Bromomethane	U		0.000866	0.00500	1	04/30/2017 22:37	WG975239
n-Butylbenzene	U		0.000361	0.00100	1	04/30/2017 22:37	WG975239

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		0.000365	0.00100	1	04/30/2017 22:37	WG975239
Carbon disulfide	U		0.000275	0.00100	1	04/30/2017 22:37	WG975239
Carbon tetrachloride	U		0.000379	0.00100	1	04/30/2017 22:37	WG975239
Chlorobenzene	U		0.000348	0.00100	1	04/30/2017 22:37	WG975239
Chlorodibromomethane	U		0.000327	0.00100	1	04/30/2017 22:37	WG975239
Chloroethane	U		0.000453	0.00500	1	04/30/2017 22:37	WG975239
Chloroform	U		0.000324	0.00500	1	04/30/2017 22:37	WG975239
Chloromethane	U		0.000276	0.00250	1	04/30/2017 22:37	WG975239
1,2-Dibromoethane	U		0.000381	0.00100	1	04/30/2017 22:37	WG975239
1,1-Dichloroethane	U		0.000259	0.00100	1	04/30/2017 22:37	WG975239
1,2-Dichloroethane	U		0.000361	0.00100	1	04/30/2017 22:37	WG975239
1,1-Dichloroethene	U		0.000398	0.00100	1	04/30/2017 22:37	WG975239
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	04/30/2017 22:37	WG975239
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	04/30/2017 22:37	WG975239
1,2-Dichloropropane	U		0.000306	0.00100	1	04/30/2017 22:37	WG975239
cis-1,3-Dichloropropene	U		0.000418	0.00100	1	04/30/2017 22:37	WG975239
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	04/30/2017 22:37	WG975239
Ethylbenzene	U		0.000384	0.00100	1	04/30/2017 22:37	WG975239
Isopropylbenzene	U		0.000326	0.00100	1	04/30/2017 22:37	WG975239
p-Isopropyltoluene	U		0.000350	0.00100	1	04/30/2017 22:37	WG975239
2-Butanone (MEK)	U		0.00393	0.0100	1	04/30/2017 22:37	WG975239
2-Hexanone	U		0.00382	0.0100	1	04/30/2017 22:37	WG975239
Methylene Chloride	U		0.00100	0.00500	1	04/30/2017 22:37	WG975239
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	04/30/2017 22:37	WG975239
Methyl tert-butyl ether	U		0.000367	0.00100	1	04/30/2017 22:37	WG975239
Naphthalene	0.0111		0.00100	0.00500	1	04/30/2017 22:37	WG975239
n-Propylbenzene	U		0.000349	0.00100	1	04/30/2017 22:37	WG975239
Styrene	U		0.000307	0.00100	1	04/30/2017 22:37	WG975239
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	04/30/2017 22:37	WG975239
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	04/30/2017 22:37	WG975239
Tetrachloroethene	U		0.000372	0.00100	1	04/30/2017 22:37	WG975239
Toluene	0.000719	J	0.000412	0.00100	1	04/30/2017 22:37	WG975239
1,1,1-Trichloroethane	U		0.000319	0.00100	1	04/30/2017 22:37	WG975239
1,1,2-Trichloroethane	U		0.000383	0.00100	1	04/30/2017 22:37	WG975239
Trichloroethene	U		0.000398	0.00100	1	04/30/2017 22:37	WG975239
1,2,4-Trimethylbenzene	U		0.000373	0.00100	1	04/30/2017 22:37	WG975239
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	04/30/2017 22:37	WG975239
Vinyl chloride	U		0.000259	0.00100	1	04/30/2017 22:37	WG975239
o-Xylene	U		0.000341	0.00100	1	04/30/2017 22:37	WG975239
m&p-Xylene	U		0.000719	0.00200	1	04/30/2017 22:37	WG975239
Xylenes, Total	U		0.00106	0.00300	1	04/30/2017 22:37	WG975239
(S) Toluene-d8	*105*			*80.0-120*		*04/30/2017 22:37*	WG975239
(S) Dibromofluoromethane	*101*			*76.0-123*		*04/30/2017 22:37*	WG975239
(S) 4-Bromofluorobenzene	*98.7*			*80.0-120*		*04/30/2017 22:37*	WG975239

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	0.0519	J	0.0247	0.100	1	05/01/2017 13:18	WG975181
(S) o-Terphenyl	*87.0*			*31.0-160*		*05/01/2017 13:18*	WG975181

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		0.0100	0.0500	1	04/30/2017 13:04	WG975237
Benzene	U		0.000331	0.00100	1	04/30/2017 13:04	WG975237
Bromodichloromethane	U		0.000380	0.00100	1	04/30/2017 13:04	WG975237
Bromoform	U		0.000469	0.00100	1	04/30/2017 13:04	WG975237
Bromomethane	U		0.000866	0.00500	1	04/30/2017 13:04	WG975237
n-Butylbenzene	U		0.000361	0.00100	1	04/30/2017 13:04	WG975237
sec-Butylbenzene	U		0.000365	0.00100	1	04/30/2017 13:04	WG975237
Carbon disulfide	U		0.000275	0.00100	1	04/30/2017 13:04	WG975237
Carbon tetrachloride	U		0.000379	0.00100	1	04/30/2017 13:04	WG975237
Chlorobenzene	U		0.000348	0.00100	1	04/30/2017 13:04	WG975237
Chlorodibromomethane	U		0.000327	0.00100	1	04/30/2017 13:04	WG975237
Chloroethane	U		0.000453	0.00500	1	04/30/2017 13:04	WG975237
Chloroform	U		0.000324	0.00500	1	04/30/2017 13:04	WG975237
Chloromethane	U		0.000276	0.00250	1	04/30/2017 13:04	WG975237
1,2-Dibromoethane	U		0.000381	0.00100	1	04/30/2017 13:04	WG975237
1,1-Dichloroethane	U		0.000259	0.00100	1	04/30/2017 13:04	WG975237
1,2-Dichloroethane	U		0.000361	0.00100	1	04/30/2017 13:04	WG975237
1,1-Dichloroethene	U		0.000398	0.00100	1	04/30/2017 13:04	WG975237
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	04/30/2017 13:04	WG975237
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	04/30/2017 13:04	WG975237
1,2-Dichloropropane	U		0.000306	0.00100	1	04/30/2017 13:04	WG975237
cis-1,3-Dichloropropene	U		0.000418	0.00100	1	04/30/2017 13:04	WG975237
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	04/30/2017 13:04	WG975237
Ethylbenzene	U		0.000384	0.00100	1	04/30/2017 13:04	WG975237
Isopropylbenzene	U		0.000326	0.00100	1	04/30/2017 13:04	WG975237
p-Isopropyltoluene	U		0.000350	0.00100	1	04/30/2017 13:04	WG975237
2-Butanone (MEK)	U		0.00393	0.0100	1	04/30/2017 13:04	WG975237
2-Hexanone	U		0.00382	0.0100	1	04/30/2017 13:04	WG975237
Methylene Chloride	U		0.00100	0.00500	1	04/30/2017 13:04	WG975237
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	04/30/2017 13:04	WG975237
Methyl tert-butyl ether	U		0.000367	0.00100	1	04/30/2017 13:04	WG975237
Naphthalene	U		0.00100	0.00500	1	04/30/2017 13:04	WG975237
n-Propylbenzene	U		0.000349	0.00100	1	04/30/2017 13:04	WG975237
Styrene	U		0.000307	0.00100	1	04/30/2017 13:04	WG975237
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	04/30/2017 13:04	WG975237
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	04/30/2017 13:04	WG975237
Tetrachloroethene	U		0.000372	0.00100	1	04/30/2017 13:04	WG975237
Toluene	U		0.000412	0.00100	1	04/30/2017 13:04	WG975237
1,1,1-Trichloroethane	U		0.000319	0.00100	1	04/30/2017 13:04	WG975237
1,1,2-Trichloroethane	U		0.000383	0.00100	1	04/30/2017 13:04	WG975237
Trichloroethene	U		0.000398	0.00100	1	04/30/2017 13:04	WG975237
1,2,4-Trimethylbenzene	U		0.000373	0.00100	1	04/30/2017 13:04	WG975237
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	04/30/2017 13:04	WG975237
Vinyl chloride	U		0.000259	0.00100	1	04/30/2017 13:04	WG975237
o-Xylene	U		0.000341	0.00100	1	04/30/2017 13:04	WG975237
m&p-Xylene	U		0.000719	0.00200	1	04/30/2017 13:04	WG975237
Xylenes, Total	U		0.00106	0.00300	1	04/30/2017 13:04	WG975237
(S) Toluene-d8	*101*			*80.0-120*		*04/30/2017 13:04*	WG975237
(S) Dibromofluoromethane	*100*			*76.0-123*		*04/30/2017 13:04*	WG975237
(S) 4-Bromofluorobenzene	*105*			*80.0-120*		*04/30/2017 13:04*	WG975237

Method Blank (MB)

(MB) R3215055-1 04/30/17 13:12

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	mg/l		mg/l	mg/l
Dissolved Solids	U		2.82	10.0

L905302-03 Original Sample (OS) • Duplicate (DUP)

(OS) L905302-03 04/30/17 13:12 • (DUP) R3215055-4 04/30/17 13:12

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	mg/l	mg/l		%		%
Dissolved Solids	1840	1880	1	2.28		5

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

(LCS) R3215055-2 04/30/17 13:12 • (LCSD) R3215055-3 04/30/17 13:12

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	mg/l	mg/l	mg/l	%	%	%			%	%
Dissolved Solids	8800	8650	8600	98.3	97.7	85.0-115			0.580	5

Method Blank (MB)

(MB) R3215286-1 05/01/17 09:04

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	mg/l		mg/l	mg/l
Dissolved Solids	U		2.82	10.0

L905307-07 Original Sample (OS) • Duplicate (DUP)

(OS) L905307-07 05/01/17 09:04 • (DUP) R3215286-4 05/01/17 09:04

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	mg/l	mg/l		%		%
Dissolved Solids	4400	4510	1	2.47		5

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

(LCS) R3215286-2 05/01/17 09:04 • (LCSD) R3215286-3 05/01/17 09:04

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	mg/l	mg/l	mg/l	%	%	%			%	%
Dissolved Solids	8800	8660	8690	98.4	98.8	85.0-115			0.346	5

Method Blank (MB)

(MB) R3214740-1 04/29/17 13:05

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	mg/l		mg/l	mg/l
Dissolved Solids	U		2.82	10.0

L905307-26 Original Sample (OS) • Duplicate (DUP)

(OS) L905307-26 04/29/17 13:05 • (DUP) R3214740-4 04/29/17 13:05

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	mg/l	mg/l		%		%
Dissolved Solids	6840	6840	1	0.000		5

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

(LCS) R3214740-2 04/29/17 13:05 • (LCSD) R3214740-3 04/29/17 13:05

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	mg/l	mg/l	mg/l	%	%	%			%	%
Dissolved Solids	8800	8610	8610	97.8	97.8	85.0-115			0.000	5

Method Blank (MB)

(MB) R3214749-1 04/29/17 13:57

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Dissolved Solids	U		2.82	10.0

L905307-27 Original Sample (OS) • Duplicate (DUP)

(OS) L905307-27 04/29/17 13:57 • (DUP) R3214749-4 04/29/17 13:57

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Dissolved Solids	3690	3770	1	2.14		5

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

(LCS) R3214749-2 04/29/17 13:57 • (LCSD) R3214749-3 04/29/17 13:57

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 %
Dissolved Solids	8800	8590	8630	97.6	98.1	85.0-115			0.465	5

Method Blank (MB)

(MB) R3214792-1 05/01/17 15:54

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	mg/l		mg/l	mg/l
Nitrate-Nitrite	U		0.0197	0.100

L905300-15 Original Sample (OS) • Duplicate (DUP)

(OS) L905300-15 05/01/17 15:57 • (DUP) R3214792-4 05/01/17 15:58

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	mg/l	mg/l		%		%
Nitrate-Nitrite	U	0.000	1	0		20

L905300-23 Original Sample (OS) • Duplicate (DUP)

(OS) L905300-23 05/01/17 16:11 • (DUP) R3214792-6 05/01/17 16:13

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	mg/l	mg/l		%		%
Nitrate-Nitrite	0.0200	0.000	1	200	P1	20

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

(LCS) R3214792-2 05/01/17 15:55 • (LCSD) R3214792-3 05/01/17 15:56

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	mg/l	mg/l	mg/l	%	%	%			%	%
Nitrate-Nitrite	5.00	5.29	5.16	106	103	90-110			3	20

L905300-17 Original Sample (OS) • Matrix Spike (MS)

(OS) L905300-17 05/01/17 16:00 • (MS) R3214792-5 05/01/17 16:01

Analyte	Spike Amount	Original Result	MS Result	MS Rec.	Dilution	Rec. Limits	MS Qualifier
	mg/l	mg/l	mg/l	%		%	
Nitrate-Nitrite	5.00	U	4.76	95	1	90-110	

L905302-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L905302-01 05/01/17 16:14 • (MS) R3214792-7 05/01/17 16:19 • (MSD) R3214792-8 05/01/17 16:20

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
	mg/l	mg/l	mg/l	mg/l	%	%		%			%	%
Nitrate-Nitrite	5.00	0.0270	4.88	5.00	97	99	1	90-110			2	20

Method Blank (MB)

(MB) R3214787-8 05/01/17 16:42

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Nitrate-Nitrite	U		0.0197	0.100

L905307-09 Original Sample (OS) • Duplicate (DUP)

(OS) L905307-09 05/01/17 16:48 • (DUP) R3214787-11 05/01/17 16:49

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Nitrate-Nitrite	0.0350	0.000	1	200	P1	20

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

(LCS) R3214787-9 05/01/17 16:43 • (LCSD) R3214787-10 05/01/17 16:44

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 %
Nitrate-Nitrite	5.00	5.14	5.06	103	101	90-110			2	20

L905307-14 Original Sample (OS) • Matrix Spike (MS)

(OS) L905307-14 05/01/17 16:59 • (MS) R3214787-12 05/01/17 17:00

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Nitrate-Nitrite	5.00	0.0450	0.247	4	1	90-110	J6

Method Blank (MB)

(MB) R3215035-1 05/02/17 12:20

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	mg/l		mg/l	mg/l
Nitrate-Nitrite	U		0.0197	0.100

L905143-02 Original Sample (OS) • Duplicate (DUP)

(OS) L905143-02 05/02/17 12:27 • (DUP) R3215035-5 05/02/17 12:32

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	mg/l	mg/l		%		%
Nitrate-Nitrite	1.47	1.41	1	4		20

L905363-01 Original Sample (OS) • Duplicate (DUP)

(OS) L905363-01 05/02/17 12:46 • (DUP) R3215035-6 05/02/17 12:47

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	mg/l	mg/l		%		%
Nitrate-Nitrite	1.09	1.08	1	1		20

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

(LCS) R3215035-2 05/02/17 12:21 • (LCSD) R3215035-3 05/02/17 12:22

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	mg/l	mg/l	mg/l	%	%	%			%	%
Nitrate-Nitrite	5.00	5.30	5.10	106	102	90-110			4	20

L905133-02 Original Sample (OS) • Matrix Spike (MS)

(OS) L905133-02 05/02/17 12:24 • (MS) R3215035-4 05/02/17 12:25

Analyte	Spike Amount	Original Result	MS Result	MS Rec.	Dilution	Rec. Limits	MS Qualifier
	mg/l	mg/l	mg/l	%		%	
Nitrate-Nitrite	5.00	1.17	5.78	92	1	90-110	

L905408-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L905408-01 05/02/17 12:58 • (MS) R3215035-7 05/02/17 12:59 • (MSD) R3215035-8 05/02/17 13:00

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
	mg/l	mg/l	mg/l	mg/l	%	%		%			%	%
Nitrate-Nitrite	5.00	0.944	5.75	5.81	96	97	1	90-110			1	20

Method Blank (MB)

(MB) R3215384-1 05/03/17 14:35

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	mg/l		mg/l	mg/l
Nitrate-Nitrite	U		0.0197	0.100

L905307-17 Original Sample (OS) • Duplicate (DUP)

(OS) L905307-17 05/03/17 14:38 • (DUP) R3215384-4 05/03/17 14:39

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	mg/l	mg/l		%		%
Nitrate-Nitrite	16.3	16.7	10	2		20

L905307-24 Original Sample (OS) • Duplicate (DUP)

(OS) L905307-24 05/03/17 14:50 • (DUP) R3215384-5 05/03/17 14:51

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	mg/l	mg/l		%		%
Nitrate-Nitrite	U	0.000	10	0		20

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

(LCS) R3215384-2 05/03/17 14:36 • (LCSD) R3215384-3 05/03/17 14:37

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	mg/l	mg/l	mg/l	%	%	%			%	%
Nitrate-Nitrite	5.00	5.32	4.93	106	99	90-110			8	20

L905371-15 Original Sample (OS) • Matrix Spike (MS)

(OS) L905371-15 05/03/17 14:54 • (MS) R3215384-6 05/03/17 14:55

Analyte	Spike Amount	Original Result	MS Result	MS Rec.	Dilution	Rec. Limits	MS Qualifier
	mg/l	mg/l	mg/l	%		%	
Nitrate-Nitrite	5.00	ND	4.56	91	1	90-110	

L905651-04 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L905651-04 05/03/17 15:07 • (MS) R3215384-7 05/03/17 15:13 • (MSD) R3215384-8 05/03/17 15:14

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
	mg/l	mg/l	mg/l	mg/l	%	%		%			%	%
Nitrate-Nitrite	5.00	0.0570	0.323	0.310	5	5	1	90-110	J6	J6	4	20



Method Blank (MB)

(MB) R3214896-1 05/02/17 09:16

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	mg/l		mg/l	mg/l
Cyanide	U		0.0018	0.00500

L905300-13 Original Sample (OS) • Duplicate (DUP)

(OS) L905300-13 05/02/17 09:21 • (DUP) R3214896-4 05/02/17 09:22

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	mg/l	mg/l		%		%
Cyanide	U	0.000	1	0		20

L905437-01 Original Sample (OS) • Duplicate (DUP)

(OS) L905437-01 05/02/17 09:48 • (DUP) R3214896-7 05/02/17 09:51

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	mg/l	mg/l		%		%
Cyanide	ND	0.000	1	0		20

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

(LCS) R3214896-2 05/02/17 09:17 • (LCSD) R3214896-3 05/02/17 09:18

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	mg/l	mg/l	mg/l	%	%	%			%	%
Cyanide	0.100	0.0936	0.101	94	101	85-115			8	20

L905307-18 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L905307-18 05/02/17 09:36 • (MS) R3214896-5 05/02/17 09:37 • (MSD) R3214896-6 05/02/17 09:40

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
	mg/l	mg/l	mg/l	mg/l	%	%		%			%	%
Cyanide	0.100	U	0.195	0.177	195	177	1	75-125	J5	J5	10	20

Method Blank (MB)

(MB) R3214490-2 04/28/17 06:41

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	mg/l		mg/l	mg/l
Chloride	U		0.0519	1.00
Fluoride	U		0.0099	0.100
Sulfate	U		0.0774	5.00

L905300-21 Original Sample (OS) • Duplicate (DUP)

(OS) L905300-21 04/28/17 11:18 • (DUP) R3214490-5 04/28/17 11:29

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	mg/l	mg/l		%		%
Chloride	0.282	0.415	1	38	J P1	15
Fluoride	U	0.000	1	0		15
Sulfate	0.463	0.167	1	94	J P1	15

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

(LCS) R3214490-3 04/28/17 06:53 • (LCSD) R3214490-4 04/28/17 07:05

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	mg/l	mg/l	mg/l	%	%	%			%	%
Chloride	40.0	39.6	39.6	99	99	80-120			0	15
Fluoride	8.00	8.18	8.13	102	102	80-120			1	15
Sulfate	40.0	38.9	38.7	97	97	80-120			1	15

L905300-22 Original Sample (OS) • Matrix Spike (MS)

(OS) L905300-22 04/28/17 14:24 • (MS) R3214490-6 04/28/17 14:59

Analyte	Spike Amount	Original Result	MS Result	MS Rec.	Dilution	Rec. Limits	MS Qualifier
	mg/l	mg/l	mg/l	%		%	
Chloride	50.0	0.170	50.8	101	1	80-120	
Fluoride	5.00	U	5.17	103	1	80-120	
Sulfate	50.0	0.518	50.5	100	1	80-120	

L905307-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L905307-01 04/28/17 17:30 • (MS) R3214490-7 04/28/17 18:29 • (MSD) R3214490-8 04/28/17 18:40

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
	mg/l	mg/l	mg/l	mg/l	%	%		%			%	%
Fluoride	5.00	0.623	5.58	4.90	99	85	1	80-120			13	15

Method Blank (MB)

(MB) R3214515-1 04/28/17 05:53

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	mg/l		mg/l	mg/l
Chloride	U		0.0519	1.00
Fluoride	U		0.0099	0.100
Sulfate	U		0.0774	5.00

L905307-18 Original Sample (OS) • Duplicate (DUP)

(OS) L905307-18 04/29/17 10:13 • (DUP) R3214515-10 04/29/17 10:43

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	mg/l	mg/l		%		%
Chloride	61.1	61.3	1	0		15
Fluoride	0.707	0.709	1	0		15

L905307-18 Original Sample (OS) • Duplicate (DUP)

(OS) L905307-18 04/29/17 10:28 • (DUP) R3214515-11 04/29/17 10:57

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	mg/l	mg/l		%		%
Sulfate	1310	1290	100	1		15

L905307-19 Original Sample (OS) • Duplicate (DUP)

(OS) L905307-19 04/29/17 13:12 • (DUP) R3214515-12 04/29/17 13:42

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	mg/l	mg/l		%		%
Fluoride	0.928	0.930	1	0		15

L905307-19 Original Sample (OS) • Duplicate (DUP)

(OS) L905307-19 04/29/17 13:27 • (DUP) R3214515-13 04/29/17 13:56

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	mg/l	mg/l		%		%
Chloride	178	165	100	8		15
Sulfate	1830	1820	100	0		15

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

(LCS) R3214515-2 04/28/17 06:08 • (LCSD) R3214515-3 04/28/17 06:23

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Chloride	40.0	39.8	39.9	100	100	80-120			0	15
Fluoride	8.00	8.15	8.15	102	102	80-120			0	15
Sulfate	40.0	40.0	39.8	100	100	80-120			0	15

L905307-14 Original Sample (OS) • Matrix Spike (MS)

(OS) L905307-14 04/28/17 20:54 • (MS) R3214515-9 04/28/17 21:39

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Fluoride	5.00	1.94	6.86	98	1	80-120	

L905307-20 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L905307-20 04/29/17 14:11 • (MS) R3214515-14 04/29/17 14:26 • (MSD) R3214515-15 04/29/17 14:41

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 %
Fluoride	5.00	0.666	5.27	5.42	92	95	1	80-120			3	15

Method Blank (MB)

(MB) R3214525-1 04/29/17 12:18

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	mg/l		mg/l	mg/l
Chloride	U		0.0519	1.00
Fluoride	U		0.0099	0.100
Sulfate	U		0.0774	5.00

L905118-05 Original Sample (OS) • Duplicate (DUP)

(OS) L905118-05 04/29/17 15:36 • (DUP) R3214525-5 04/29/17 15:48

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	mg/l	mg/l		%		%
Fluoride	U	0.000	1	0		15
Sulfate	2.68	2.71	1	1	J	15

L905334-01 Original Sample (OS) • Duplicate (DUP)

(OS) L905334-01 04/29/17 19:30 • (DUP) R3214525-6 04/29/17 19:41

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	mg/l	mg/l		%		%
Chloride	7.99	7.91	1	1		15
Fluoride	0.122	0.127	1	4		15
Sulfate	62.6	63.4	1	1		15

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

(LCS) R3214525-2 04/29/17 12:30 • (LCSD) R3214525-3 04/29/17 12:41

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	mg/l	mg/l	mg/l	%	%	%			%	%
Chloride	40.0	39.5	39.5	99	99	80-120			0	15
Fluoride	8.00	8.14	8.16	102	102	80-120			0	15
Sulfate	40.0	38.0	38.1	95	95	80-120			0	15

L904745-08 Original Sample (OS) • Matrix Spike (MS)

(OS) L904745-08 04/29/17 13:40 • (MS) R3214525-4 04/29/17 13:51

Analyte	Spike Amount	Original Result	MS Result	MS Rec.	Dilution	Rec. Limits	MS Qualifier
	mg/l	mg/l	mg/l	%		%	
Fluoride	5.00	ND	5.10	102	1	80-120	
Sulfate	50.0	ND	52.0	94	1	80-120	

L905334-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L905334-03 04/29/17 20:16 • (MS) R3214525-7 04/29/17 20:28 • (MSD) R3214525-8 04/29/17 20:40

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 %
Chloride	50.0	7.35	58.3	58.1	102	102	1	80-120			0	15
Fluoride	5.00	0.101	5.07	5.31	99	104	1	80-120			5	15
Sulfate	50.0	18.9	63.6	64.1	89	90	1	80-120			1	15

Method Blank (MB)

(MB) R3214601-1 04/30/17 19:54

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Chloride	U		0.0519	1.00
Fluoride	U		0.0099	0.100
Sulfate	U		0.0774	5.00

L905300-23 Original Sample (OS) • Duplicate (DUP)

(OS) L905300-23 04/30/17 22:54 • (DUP) R3214601-5 04/30/17 23:06

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	0.369	0.474	1	25	J P1	15
Fluoride	U	0.000	1	0		15
Sulfate	0.490	0.000	1	200	P1	15

L905358-09 Original Sample (OS) • Duplicate (DUP)

(OS) L905358-09 05/01/17 03:23 • (DUP) R3214601-6 05/01/17 03:35

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	0.301	0.455	1	41	J P1	15
Fluoride	U	0.000	1	0		15
Sulfate	U	0.000	1	0		15

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

(LCS) R3214601-2 04/30/17 20:06 • (LCSD) R3214601-3 04/30/17 20:18

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 %
Chloride	40.0	39.4	39.4	98	99	80-120			0	15
Fluoride	8.00	7.94	7.94	99	99	80-120			0	15
Sulfate	40.0	39.3	39.4	98	98	80-120			0	15

L905024-09 Original Sample (OS) • Matrix Spike (MS)

(OS) L905024-09 04/30/17 21:09 • (MS) R3214601-4 04/30/17 21:21

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Chloride	50.0	ND	50.9	101	1	80-120	
Fluoride	5.00	ND	5.05	101	1	80-120	

L905024-09 Original Sample (OS) • Matrix Spike (MS)

(OS) L905024-09 04/30/17 21:09 • (MS) R3214601-4 04/30/17 21:21

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Sulfate	50.0	ND	52.5	105	1	80-120	

Method Blank (MB)

(MB) R3214551-1 04/29/17 05:36

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	mg/l		mg/l	mg/l
Chloride	U		0.0519	1.00
Sulfate	U		0.0774	5.00

L905847-05 Original Sample (OS) • Duplicate (DUP)

(OS) L905847-05 04/29/17 16:58 • (DUP) R3214551-4 04/29/17 17:12

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	mg/l	mg/l		%		%
Chloride	1.81	1.52	1	18	P1	15
Sulfate	13.0	13.1	1	1		15

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

(LCS) R3214551-2 04/29/17 05:51 • (LCSD) R3214551-3 04/29/17 06:06

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	mg/l	mg/l	mg/l	%	%	%			%	%
Chloride	40.0	39.3	39.1	98	98	80-120			0	15
Sulfate	40.0	38.9	39.2	97	98	80-120			1	15

L905847-04 Original Sample (OS) • Matrix Spike (MS)

(OS) L905847-04 04/29/17 16:43 • (MS) R3214551-5 04/29/17 17:27

Analyte	Spike Amount	Original Result	MS Result	MS Rec.	Dilution	Rec. Limits	MS Qualifier
	mg/l	mg/l	mg/l	%		%	
Chloride	50.0	2.06	53.0	102	1	80-120	
Sulfate	50.0	20.0	71.9	104	1	80-120	

Method Blank (MB)

(MB) R3215194-1 05/02/17 07:05

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Chloride	U		0.0519	1.00
Sulfate	U		0.0774	5.00

L905307-17 Original Sample (OS) • Duplicate (DUP)

(OS) L905307-17 05/02/17 15:29 • (DUP) R3215194-4 05/02/17 15:47

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	78.9	78.8	1	0		15
Sulfate	U	0.000	1	0		15

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

(LCS) R3215194-2 05/02/17 07:22 • (LCSD) R3215194-3 05/02/17 07:40

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Chloride	40.0	40.5	40.4	101	101	80-120			0	15
Sulfate	40.0	40.9	40.7	102	102	80-120			1	15

L905307-32 Original Sample (OS) • Matrix Spike (MS)

(OS) L905307-32 05/02/17 17:49 • (MS) R3215194-5 05/02/17 18:06

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Chloride	50.0	0.269	48.8	97	1	80-120	
Sulfate	50.0	U	49.0	98	1	80-120	

Method Blank (MB)

(MB) R3214382-1 04/28/17 15:00

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	mg/l		mg/l	mg/l
Mercury	U		0.000049	0.000200

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

(LCS) R3214382-2 04/28/17 15:02 • (LCSD) R3214382-3 04/28/17 15:05

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	mg/l	mg/l	mg/l	%	%	%			%	%
Mercury	0.00300	0.00286	0.00287	95	96	80-120			1	20

L905146-05 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L905146-05 04/28/17 15:12 • (MS) R3214382-4 04/28/17 15:14 • (MSD) R3214382-5 04/28/17 15:16

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
	mg/l	mg/l	mg/l	mg/l	%	%		%			%	%
Mercury	0.00300	U	0.00288	0.00306	96	102	1	75-125			6	20

Method Blank (MB)

(MB) R3214376-1 04/28/17 13:04

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Mercury,Dissolved	U		0.000049	0.000200

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

(LCS) R3214376-2 04/28/17 13:06 • (LCSD) R3214376-3 04/28/17 13:08

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 %
Mercury,Dissolved	0.00300	0.00300	0.00291	100	97	80-120			3	20

L904651-05 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L904651-05 04/28/17 13:11 • (MS) R3214376-4 04/28/17 13:13 • (MSD) R3214376-5 04/28/17 13:20

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 %
Mercury,Dissolved	0.00300	U	0.00295	0.00290	98	97	1	75-125			2	20

Method Blank (MB)

(MB) R3214474-1 04/29/17 07:15

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	mg/l		mg/l	mg/l
Mercury	U		0.000049	0.000200

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

(LCS) R3214474-2 04/29/17 07:17 • (LCSD) R3214474-6 04/29/17 08:18

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	mg/l	mg/l	mg/l	%	%	%			%	%
Mercury	0.00300	0.00272	0.00273	91	91	80-120			0	20

L905118-05 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L905118-05 04/29/17 07:21 • (MS) R3214474-4 04/29/17 07:24 • (MSD) R3214474-5 04/29/17 07:26

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
	mg/l	mg/l	mg/l	mg/l	%	%		%			%	%
Mercury	0.00300	U	0.00290	0.00295	97	98	1	75-125			2	20

Method Blank (MB)

(MB) R3214811-1 05/01/17 19:29

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Arsenic,Dissolved	U		0.00025	0.00200
Barium,Dissolved	U		0.00036	0.00500
Boron,Dissolved	U		0.0015	0.0200
Cadmium,Dissolved	U		0.00016	0.00100
Chromium,Dissolved	U		0.00054	0.00200
Cobalt,Dissolved	U		0.00026	0.00200
Iron,Dissolved	U		0.015	0.100
Lead,Dissolved	U		0.00024	0.00200
Manganese,Dissolved	U		0.00025	0.00500
Nickel,Dissolved	U		0.00035	0.00200
Selenium,Dissolved	U		0.00038	0.00200
Vanadium,Dissolved	U		0.00018	0.00500

Method Blank (MB)

(MB) R3214872-1 05/02/17 06:00

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Uranium,Dissolved	U		0.00033	0.0100

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

(LCS) R3214811-2 05/01/17 19:33 • (LCSD) R3214811-3 05/01/17 19:37

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 %
Arsenic,Dissolved	0.0500	0.0500	0.0489	100	98	80-120			2	20
Barium,Dissolved	0.0500	0.0447	0.0434	89	87	80-120			3	20
Boron,Dissolved	0.0500	0.0437	0.0439	87	88	80-120			0	20
Cadmium,Dissolved	0.0500	0.0544	0.0539	109	108	80-120			1	20
Chromium,Dissolved	0.0500	0.0529	0.0514	106	103	80-120			3	20
Cobalt,Dissolved	0.0500	0.0553	0.0540	111	108	80-120			2	20
Iron,Dissolved	5.00	5.22	5.02	104	100	80-120			4	20
Lead,Dissolved	0.0500	0.0501	0.0491	100	98	80-120			2	20
Manganese,Dissolved	0.0500	0.0486	0.0481	97	96	80-120			1	20
Nickel,Dissolved	0.0500	0.0554	0.0544	111	109	80-120			2	20
Selenium,Dissolved	0.0500	0.0476	0.0476	95	95	80-120			0	20
Vanadium,Dissolved	0.0500	0.0516	0.0501	103	100	80-120			3	20

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

(LCS) R3214872-2 05/02/17 06:04 • (LCSD) R3214872-3 05/02/17 06:07

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	mg/l	mg/l	mg/l	%	%	%			%	%
Uranium,Dissolved	0.0500	0.0515	0.0498	103	100	80-120			3	20

L905307-20 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L905307-20 05/01/17 19:40 • (MS) R3214811-5 05/01/17 19:47 • (MSD) R3214811-6 05/01/17 19:51

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
	mg/l	mg/l	mg/l	mg/l	%	%		%			%	%
Arsenic,Dissolved	0.0500	0.00103	0.0505	0.0504	99	99	1	75-125			0	20
Barium,Dissolved	0.0500	0.0149	0.0598	0.0606	90	91	1	75-125			1	20
Boron,Dissolved	0.0500	0.958	1.10	1.06	288	207	1	75-125	V	V	4	20
Cadmium,Dissolved	0.0500	U	0.0541	0.0540	108	108	1	75-125			0	20
Chromium,Dissolved	0.0500	U	0.0513	0.0514	103	103	1	75-125			0	20
Cobalt,Dissolved	0.0500	U	0.0527	0.0522	105	104	1	75-125			1	20
Iron,Dissolved	5.00	U	4.96	4.89	99	98	1	75-125			1	20
Lead,Dissolved	0.0500	U	0.0503	0.0490	101	98	1	75-125			3	20
Manganese,Dissolved	0.0500	0.00620	0.0539	0.0522	95	92	1	75-125			3	20
Nickel,Dissolved	0.0500	0.00255	0.0540	0.0540	103	103	1	75-125			0	20
Selenium,Dissolved	0.0500	0.0142	0.0630	0.0628	98	97	1	75-125			0	20
Vanadium,Dissolved	0.0500	0.00736	0.0581	0.0584	102	102	1	75-125			1	20

L905307-20 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L905307-20 05/02/17 06:11 • (MS) R3214872-5 05/02/17 06:18 • (MSD) R3214872-6 05/02/17 06:22

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
	mg/l	mg/l	mg/l	mg/l	%	%		%			%	%
Uranium,Dissolved	0.0500	0.0373	0.0899	0.0881	105	102	1	75-125			2	20

Method Blank (MB)

(MB) R3214899-1 05/02/17 02:18

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	mg/l		mg/l	mg/l
Arsenic,Dissolved	U		0.00025	0.00200
Barium,Dissolved	U		0.00036	0.00500
Boron,Dissolved	0.00381	J	0.0015	0.0200
Cadmium,Dissolved	U		0.00016	0.00100
Chromium,Dissolved	U		0.00054	0.00200
Cobalt,Dissolved	U		0.00026	0.00200
Iron,Dissolved	U		0.015	0.100
Lead,Dissolved	U		0.00024	0.00200
Manganese,Dissolved	U		0.00025	0.00500
Nickel,Dissolved	U		0.00035	0.00200
Selenium,Dissolved	U		0.00038	0.00200
Uranium,Dissolved	U		0.00033	0.0100
Vanadium,Dissolved	0.000218	J	0.00018	0.00500

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

(LCS) R3214899-2 05/02/17 02:21 • (LCSD) R3214899-3 05/02/17 02:25

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	mg/l	mg/l	mg/l	%	%	%			%	%
Arsenic,Dissolved	0.0500	0.0485	0.0482	97	96	80-120			1	20
Barium,Dissolved	0.0500	0.0483	0.0483	97	97	80-120			0	20
Boron,Dissolved	0.0500	0.0504	0.0491	101	98	80-120			3	20
Cadmium,Dissolved	0.0500	0.0503	0.0505	101	101	80-120			1	20
Chromium,Dissolved	0.0500	0.0498	0.0494	100	99	80-120			1	20
Cobalt,Dissolved	0.0500	0.0510	0.0502	102	100	80-120			2	20
Iron,Dissolved	5.00	5.00	4.94	100	99	80-120			1	20
Lead,Dissolved	0.0500	0.0497	0.0496	99	99	80-120			0	20
Manganese,Dissolved	0.0500	0.0508	0.0498	102	100	80-120			2	20
Nickel,Dissolved	0.0500	0.0506	0.0498	101	100	80-120			2	20
Selenium,Dissolved	0.0500	0.0484		97		80-120				
Uranium,Dissolved	0.0500	0.0494	0.0498	99	100	80-120			1	20
Vanadium,Dissolved	0.0500	0.0498	0.0488	100	98	80-120			2	20

L905300-21 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L905300-21 05/02/17 02:28 • (MS) R3214899-5 05/02/17 02:35 • (MSD) R3214899-6 05/02/17 02:39

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 %
Arsenic,Dissolved	0.0500	U	0.0496	0.0483	99	97	1	75-125			3	20
Barium,Dissolved	0.0500	U	0.0489	0.0481	98	96	1	75-125			2	20
Boron,Dissolved	0.0500	0.00172	0.0445	0.0452	86	87	1	75-125			2	20
Cadmium,Dissolved	0.0500	U	0.0503	0.0518	101	104	1	75-125			3	20
Chromium,Dissolved	0.0500	U	0.0516	0.0499	103	100	1	75-125			3	20
Cobalt,Dissolved	0.0500	U	0.0527	0.0511	105	102	1	75-125			3	20
Iron,Dissolved	5.00	U	5.10	4.95	102	99	1	75-125			3	20
Lead,Dissolved	0.0500	U	0.0492	0.0492	98	98	1	75-125			0	20
Manganese,Dissolved	0.0500	0.000400	0.0508	0.0494	101	98	1	75-125			3	20
Nickel,Dissolved	0.0500	U	0.0518	0.0502	104	100	1	75-125			3	20
Selenium,Dissolved	0.0500	U	0.0478	0.0475	96	95	1	75-125			1	20
Uranium,Dissolved	0.0500	U	0.0490	0.0490	98	98	1	75-125			0	20
Vanadium,Dissolved	0.0500	U	0.0506	0.0487	101	97	1	75-125			4	20

Method Blank (MB)

(MB) R3214808-1 05/01/17 17:37

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Arsenic	U		0.00025	0.00200
Barium	U		0.00036	0.00500
Boron	U		0.0015	0.0200
Cadmium	U		0.00016	0.00100
Calcium	U		0.046	1.00
Chromium	U		0.00054	0.00200
Cobalt	U		0.00026	0.00200
Iron	U		0.015	0.100
Lead	U		0.00024	0.00200
Manganese	U		0.00025	0.00500
Nickel	U		0.00035	0.00200
Potassium	U		0.037	1.00
Selenium	U		0.00038	0.00200
Sodium	U		0.11	1.00
Uranium	U		0.00033	0.0100
Vanadium	U		0.00018	0.00500

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

(LCS) R3214808-2 05/01/17 17:40 • (LCSD) R3214808-3 05/01/17 17:44

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 %
Arsenic	0.0500	0.0495	0.0494	99	99	80-120			0	20
Barium	0.0500	0.0498	0.0483	100	97	80-120			3	20
Boron	0.0500	0.0446	0.0444	89	89	80-120			0	20
Cadmium	0.0500	0.0487	0.0504	97	101	80-120			3	20
Calcium	5.00	5.72	5.29	114	106	80-120			8	20
Chromium	0.0500	0.0491	0.0490	98	98	80-120			0	20
Cobalt	0.0500	0.0503	0.0517	101	103	80-120			3	20
Iron	5.00	4.84	4.92	97	98	80-120			2	20
Lead	0.0500	0.0481	0.0486	96	97	80-120			1	20
Manganese	0.0500	0.0490	0.0491	98	98	80-120			0	20
Nickel	0.0500	0.0504	0.0513	101	103	80-120			2	20
Potassium	5.00	4.87	4.89	97	98	80-120			0	20
Selenium	0.0500	0.0488	0.0493	98	99	80-120			1	20
Sodium	5.00	5.15	5.08	103	102	80-120			1	20
Uranium	0.0500	0.0471	0.0477	94	95	80-120			1	20
Vanadium	0.0500	0.0481	0.0493	96	99	80-120			2	20

L905307-20 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L905307-20 05/01/17 17:47 • (MS) R3214808-5 05/01/17 17:54 • (MSD) R3214808-6 05/01/17 17:58

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Arsenic	0.0500	0.00111	0.0476	0.0456	93	89	1	75-125			4	20
Barium	0.0500	0.0164	0.0643	0.0657	96	98	1	75-125			2	20
Boron	0.0500	1.01	1.08	1.08	138	144	1	75-125	E V	E V	0	20
Cadmium	0.0500	U	0.0500	0.0502	100	100	1	75-125			0	20
Calcium	5.00	594	615	597	434	64	1	75-125	V	V	3	20
Chromium	0.0500	U	0.0485	0.0471	97	94	1	75-125			3	20
Cobalt	0.0500	U	0.0491	0.0474	98	95	1	75-125			4	20
Potassium	5.00	1.87	6.90	6.56	100	94	1	75-125			5	20
Iron	5.00	0.0249	4.77	4.64	95	92	1	75-125			3	20
Lead	0.0500	U	0.0476	0.0476	95	95	1	75-125			0	20
Manganese	0.0500	0.00935	0.0504	0.0493	82	80	1	75-125			2	20
Nickel	0.0500	0.00143	0.0491	0.0480	95	93	1	75-125			2	20
Selenium	0.0500	0.0143	0.0635	0.0617	98	95	1	75-125			3	20
Sodium	5.00	202	216	209	265	135	1	75-125	V	V	3	20
Uranium	0.0500	0.0361	0.0846	0.0849	97	98	1	75-125			0	20
Vanadium	0.0500	0.00739	0.0556	0.0544	96	94	1	75-125			2	20

Method Blank (MB)

(MB) R3215542-1 05/03/17 21:28

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	mg/l		mg/l	mg/l
Boron	U		0.0015	0.0200

Method Blank (MB)

(MB) R3215691-1 05/04/17 15:41

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	mg/l		mg/l	mg/l
Arsenic	U		0.00025	0.00200
Barium	U		0.00036	0.00500
Cadmium	U		0.00016	0.00100
Calcium	U		0.046	1.00
Chromium	U		0.00054	0.00200
Cobalt	U		0.00026	0.00200
Iron	U		0.015	0.100
Lead	U		0.00024	0.00200
Manganese	U		0.00025	0.00500
Nickel	0.000481	J	0.00035	0.00200
Potassium	U		0.037	1.00
Selenium	0.00135	J	0.00038	0.00200
Sodium	U		0.11	1.00
Uranium	U		0.00033	0.0100
Vanadium	U		0.00018	0.00500

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

(LCS) R3215542-2 05/03/17 21:32 • (LCSD) R3215542-3 05/03/17 21:35

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	mg/l	mg/l	mg/l	%	%	%			%	%
Boron	0.0500	0.0468	0.0446	94	89	80-120			5	20

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

(LCS) R3215691-2 05/04/17 15:44 • (LCSD) R3215691-3 05/04/17 15:48

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	mg/l	mg/l	mg/l	%	%	%			%	%
Arsenic	0.0500	0.0500	0.0490	100	98	80-120			2	20
Barium	0.0500	0.0515	0.0499	103	100	80-120			3	20
Cadmium	0.0500	0.0507	0.0508	101	102	80-120			0	20
Calcium	5.00	5.14	4.98	103	100	80-120			3	20

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

(LCS) R3215691-2 05/04/17 15:44 • (LCSD) R3215691-3 05/04/17 15:48

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 %
Chromium	0.0500	0.0498	0.0492	100	98	80-120			1	20
Cobalt	0.0500	0.0522	0.0509	104	102	80-120			3	20
Iron	5.00	5.09	4.97	102	99	80-120			3	20
Lead	0.0500	0.0493	0.0490	99	98	80-120			1	20
Manganese	0.0500	0.0490	0.0479	98	96	80-120			2	20
Nickel	0.0500	0.0523	0.0504	105	101	80-120			4	20
Potassium	5.00	4.95	4.90	99	98	80-120			1	20
Selenium	0.0500	0.0498	0.0468	100	94	80-120			6	20
Sodium	5.00	5.02	4.95	100	99	80-120			1	20
Uranium	0.0500	0.0490	0.0485	98	97	80-120			1	20
Vanadium	0.0500	0.0495	0.0483	99	97	80-120			2	20

L905307-31 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L905307-31 05/04/17 15:52 • (MS) R3215691-5 05/04/17 15:59 • (MSD) R3215691-6 05/04/17 16:02

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 %
Arsenic	0.0500	0.0570	0.106	0.104	99	94	1	75-125			2	20
Barium	0.0500	0.0451	0.0950	0.0946	100	99	1	75-125			1	20
Cadmium	0.0500	U	0.0511	0.0506	102	101	1	75-125			1	20
Calcium	5.00	197	199	198	40	21	1	75-125	V	V	0	20
Chromium	0.0500	U	0.0485	0.0473	97	95	1	75-125			2	20
Cobalt	0.0500	U	0.0503	0.0490	101	98	1	75-125			3	20
Potassium	5.00	5.20	10.2	10.1	99	98	1	75-125			1	20
Iron	5.00	U	4.94	4.86	99	97	1	75-125			2	20
Lead	0.0500	U	0.0505	0.0504	101	101	1	75-125			0	20
Manganese	0.0500	0.00134	0.0499	0.0480	97	93	1	75-125			4	20
Nickel	0.0500	U	0.0502	0.0486	100	97	1	75-125			3	20
Selenium	0.0500	0.00166	0.0454	0.0469	88	90	1	75-125			3	20
Sodium	5.00	48.7	52.3	52.0	71	67	1	75-125	V	V	0	20
Uranium	0.0500	U	0.0521	0.0512	104	102	1	75-125			2	20
Vanadium	0.0500	0.000580	0.0500	0.0486	99	96	1	75-125			3	20

Method Blank (MB)

(MB) R3215774-1 05/05/17 05:20

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Arsenic	U		0.00025	0.00200
Barium	U		0.00036	0.00500
Calcium	U		0.046	1.00
Chromium	U		0.00054	0.00200
Iron	0.0162	J	0.015	0.100
Manganese	U		0.00025	0.00500
Potassium	U		0.037	1.00
Selenium	U		0.00038	0.00200
Sodium	U		0.11	1.00

Method Blank (MB)

(MB) R3215916-1 05/05/17 12:58

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Lead	U		0.00024	0.00200

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

(LCS) R3215774-2 05/05/17 05:24 • (LCSD) R3215774-3 05/05/17 05:28

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 %
Arsenic	0.0500	0.0458	0.0459	92	92	80-120			0	20
Barium	0.0500	0.0479	0.0475	96	95	80-120			1	20
Calcium	5.00	4.70	4.70	94	94	80-120			0	20
Chromium	0.0500	0.0464	0.0463	93	93	80-120			0	20
Iron	5.00	4.76	4.74	95	95	80-120			0	20
Manganese	0.0500	0.0461	0.0457	92	91	80-120			1	20
Potassium	5.00	4.69	4.69	94	94	80-120			0	20
Selenium	0.0500	0.0447	0.0447	89	89	80-120			0	20
Sodium	5.00	4.74	4.78	95	96	80-120			1	20

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

(LCS) R3215916-2 05/05/17 13:02 • (LCSD) R3215916-3 05/05/17 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 %
Lead	0.0500	0.0489	0.0487	98	97	80-120			0	20

L905928-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L905928-01 05/05/17 05:31 • (MS) R3215774-5 05/05/17 05:38 • (MSD) R3215774-6 05/05/17 05:42

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Arsenic	0.0500	0.000893	0.0473	0.0478	93	94	1	75-125			1	20
Barium	0.0500	0.172	0.215	0.212	87	81	1	75-125			2	20
Calcium	5.00		102	102	68	57	1	75-125	V	V	1	20
Chromium	0.0500	U	0.0476	0.0483	95	97	1	75-125			1	20
Potassium	5.00		5.95	5.96	95	95	1	75-125			0	20
Iron	5.00		4.83	4.86	96	97	1	75-125			1	20
Manganese	0.0500	0.00802	0.0528	0.0528	90	90	1	75-125			0	20
Selenium	0.0500	0.00299	0.0499	0.0495	94	93	1	75-125			1	20
Sodium	5.00		9.58	9.63	99	100	1	75-125			0	20

L905928-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L905928-01 05/05/17 13:09 • (MS) R3215916-5 05/05/17 13:16 • (MSD) R3215916-6 05/05/17 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 %
Lead	0.0500	U	0.0498	0.0499	100	100	1	75-125			0	20

Method Blank (MB)

(MB) R3215621-3 04/28/17 14:18

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	mg/l		mg/l	mg/l
TPH (GC/FID) Low Fraction	U		0.0314	0.100
(S) a,a,a-Trifluorotoluene(FID)	*102*			*77.0-122*

Method Blank (MB)

(MB) R3215632-3 04/28/17 17:49

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	mg/l		mg/l	mg/l
TPH (GC/FID) Low Fraction	U		0.0314	0.100
(S) a,a,a-Trifluorotoluene(FID)	*99.0*			*77.0-122*

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

(LCS) R3215621-1 04/28/17 13:16 • (LCSD) R3215621-2 04/28/17 13:36

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	mg/l	mg/l	mg/l	%	%	%			%	%
TPH (GC/FID) Low Fraction	5.50	5.34	5.24	97.1	95.2	71.0-136			1.92	20
(S) a,a,a-Trifluorotoluene(FID)				*105*	*105*	*77.0-122*				

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

(LCS) R3215632-1 04/28/17 16:38 • (LCSD) R3215632-2 04/28/17 17:02

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	mg/l	mg/l	mg/l	%	%	%			%	%
TPH (GC/FID) Low Fraction	5.50	5.13	5.06	93.3	91.9	71.0-136			1.45	20
(S) a,a,a-Trifluorotoluene(FID)				*99.7*	*100*	*77.0-122*				

L905300-20 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L905300-20 04/28/17 14:39 • (MS) R3215621-4 04/28/17 15:00 • (MSD) R3215621-5 04/28/17 15:21

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
	mg/l	mg/l	mg/l	mg/l	%	%		%			%	%
TPH (GC/FID) Low Fraction	5.50	0.402	5.77	5.81	97.6	98.3	1	18.0-160			0.700	20
(S) a,a,a-Trifluorotoluene(FID)					*105*	*104*		*77.0-122*				

Method Blank (MB)

(MB) R3214999-3 04/28/17 13:37

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	mg/l		mg/l	mg/l
TPH (GC/FID) Low Fraction	U		0.0314	0.100
(S) a,a,a-Trifluorotoluene(FID)	*98.4*			*77.0-122*

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

(LCS) R3214999-1 04/28/17 12:31 • (LCSD) R3214999-2 04/28/17 12:53

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	mg/l	mg/l	mg/l	%	%	%			%	%
TPH (GC/FID) Low Fraction	5.50	5.36	5.28	97.5	96.0	71.0-136			1.61	20
(S) a,a,a-Trifluorotoluene(FID)				*101*	*101*	*77.0-122*				

L905440-05 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L905440-05 04/28/17 17:27 • (MS) R3214999-4 04/28/17 14:28 • (MSD) R3214999-5 04/28/17 14:50

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
	mg/l	mg/l	mg/l	mg/l	%	%		%			%	%
TPH (GC/FID) Low Fraction	5.50	0.0903	5.25	5.42	93.8	97.0	1	18.0-160			3.23	20
(S) a,a,a-Trifluorotoluene(FID)					*100*	*101*		*77.0-122*				

Method Blank (MB)

(MB) R3214910-4 04/29/17 21:41

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Acetone	U		0.0100	0.0500
Benzene	U		0.000331	0.00100
Bromodichloromethane	U		0.000380	0.00100
Bromoform	U		0.000469	0.00100
Bromomethane	U		0.000866	0.00500
n-Butylbenzene	U		0.000361	0.00100
sec-Butylbenzene	U		0.000365	0.00100
Carbon disulfide	U		0.000275	0.00100
Carbon tetrachloride	U		0.000379	0.00100
Chlorobenzene	U		0.000348	0.00100
Chlorodibromomethane	U		0.000327	0.00100
Chloroethane	U		0.000453	0.00500
Chloroform	U		0.000324	0.00500
Chloromethane	U		0.000276	0.00250
1,2-Dibromoethane	U		0.000381	0.00100
1,1-Dichloroethane	U		0.000259	0.00100
1,2-Dichloroethane	U		0.000361	0.00100
1,1-Dichloroethene	U		0.000398	0.00100
cis-1,2-Dichloroethene	U		0.000260	0.00100
trans-1,2-Dichloroethene	U		0.000396	0.00100
1,2-Dichloropropane	U		0.000306	0.00100
cis-1,3-Dichloropropene	U		0.000418	0.00100
trans-1,3-Dichloropropene	U		0.000419	0.00100
Ethylbenzene	U		0.000384	0.00100
2-Hexanone	U		0.00382	0.0100
Isopropylbenzene	U		0.000326	0.00100
p-Isopropyltoluene	U		0.000350	0.00100
2-Butanone (MEK)	U		0.00393	0.0100
Methylene Chloride	U		0.00100	0.00500
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100
Methyl tert-butyl ether	U		0.000367	0.00100
Naphthalene	U		0.00100	0.00500
n-Propylbenzene	U		0.000349	0.00100
Styrene	U		0.000307	0.00100
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100
Tetrachloroethene	U		0.000372	0.00100
Toluene	U		0.000412	0.00100
1,1,1-Trichloroethane	U		0.000319	0.00100
1,1,2-Trichloroethane	U		0.000383	0.00100

Method Blank (MB)

(MB) R3214910-4 04/29/17 21:41

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	mg/l		mg/l	mg/l
Trichloroethene	U		0.000398	0.00100
1,2,4-Trimethylbenzene	U		0.000373	0.00100
1,3,5-Trimethylbenzene	U		0.000387	0.00100
Vinyl chloride	U		0.000259	0.00100
Xylenes, Total	U		0.00106	0.00300
o-Xylene	U		0.000341	0.00100
m&p-Xylenes	U		0.000719	0.00200
(S) Toluene-d8	*104*			*80.0-120*
(S) Dibromofluoromethane	*100*			*76.0-123*
(S) 4-Bromofluorobenzene	*98.4*			*80.0-120*

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

(LCS) R3214910-1 04/29/17 20:39 • (LCSD) R3214910-3 04/29/17 21:10

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	mg/l	mg/l	mg/l	%	%	%			%	%
Acetone	0.125	0.191	0.201	153	161	10.0-160		J4	5.15	23
Benzene	0.0250	0.0213	0.0214	85.1	85.6	69.0-123			0.590	20
Bromodichloromethane	0.0250	0.0217	0.0218	86.8	87.2	76.0-120			0.560	20
Bromoform	0.0250	0.0239	0.0240	95.6	96.2	67.0-132			0.580	20
Bromomethane	0.0250	0.0233	0.0237	93.2	94.9	18.0-160			1.80	20
n-Butylbenzene	0.0250	0.0192	0.0194	76.8	77.6	72.0-126			0.940	20
sec-Butylbenzene	0.0250	0.0208	0.0211	83.2	84.5	74.0-121			1.57	20
Carbon disulfide	0.0250	0.0194	0.0194	77.6	77.8	55.0-127			0.200	20
Carbon tetrachloride	0.0250	0.0256	0.0239	102	95.6	63.0-122			6.75	20
Chlorobenzene	0.0250	0.0211	0.0211	84.3	84.5	79.0-121			0.320	20
Chlorodibromomethane	0.0250	0.0222	0.0222	89.0	88.8	75.0-125			0.160	20
Chloroethane	0.0250	0.0217	0.0235	86.7	94.0	47.0-152			8.12	20
Chloroform	0.0250	0.0209	0.0210	83.7	83.9	72.0-121			0.270	20
Chloromethane	0.0250	0.0239	0.0246	95.7	98.3	48.0-139			2.68	20
1,2-Dibromoethane	0.0250	0.0220	0.0218	87.9	87.1	77.0-123			0.870	20
1,1-Dichloroethane	0.0250	0.0207	0.0208	82.8	83.1	70.0-126			0.330	20
1,2-Dichloroethane	0.0250	0.0209	0.0208	83.6	83.1	67.0-126			0.700	20
1,1-Dichloroethene	0.0250	0.0202	0.0204	80.8	81.6	64.0-129			0.910	20
cis-1,2-Dichloroethene	0.0250	0.0206	0.0205	82.5	82.2	73.0-120			0.360	20
trans-1,2-Dichloroethene	0.0250	0.0199	0.0202	79.5	81.0	71.0-121			1.76	20
1,2-Dichloropropane	0.0250	0.0223	0.0222	89.1	88.7	75.0-125			0.460	20
cis-1,3-Dichloropropene	0.0250	0.0219	0.0221	87.8	88.5	79.0-123			0.900	20
trans-1,3-Dichloropropene	0.0250	0.0224	0.0223	89.6	89.4	74.0-127			0.220	20

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

(LCS) R3214910-1 04/29/17 20:39 • (LCSD) R3214910-3 04/29/17 21:10

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 %
Ethylbenzene	0.0250	0.0218	0.0219	87.2	87.7	77.0-120			0.520	20
2-Hexanone	0.125	0.152	0.154	122	123	58.0-147			1.12	20
Isopropylbenzene	0.0250	0.0210	0.0212	84.1	84.7	75.0-120			0.690	20
p-Isopropyltoluene	0.0250	0.0210	0.0214	84.2	85.7	74.0-126			1.80	20
2-Butanone (MEK)	0.125	0.155	0.158	124	126	37.0-158			1.95	20
Methylene Chloride	0.0250	0.0205	0.0205	81.9	82.1	66.0-121			0.240	20
4-Methyl-2-pentanone (MIBK)	0.125	0.132	0.133	105	106	59.0-143			0.860	20
Methyl tert-butyl ether	0.0250	0.0223	0.0226	89.3	90.6	64.0-123			1.48	20
Naphthalene	0.0250	0.0173	0.0179	69.0	71.5	62.0-128			3.46	20
n-Propylbenzene	0.0250	0.0209	0.0211	83.8	84.5	79.0-120			0.840	20
Styrene	0.0250	0.0221	0.0221	88.2	88.2	78.0-124			0.0100	20
1,1,1,2-Tetrachloroethane	0.0250	0.0215	0.0214	86.0	85.7	75.0-122			0.360	20
1,1,2,2-Tetrachloroethane	0.0250	0.0211	0.0215	84.3	86.0	71.0-122			1.98	20
Tetrachloroethene	0.0250	0.0221	0.0224	88.6	89.4	70.0-127			0.950	20
Toluene	0.0250	0.0220	0.0220	87.9	88.0	77.0-120			0.160	20
1,1,1-Trichloroethane	0.0250	0.0205	0.0204	81.8	81.8	68.0-122			0.0400	20
1,1,2-Trichloroethane	0.0250	0.0226	0.0226	90.6	90.4	78.0-120			0.190	20
Trichloroethene	0.0250	0.0215	0.0219	86.2	87.5	78.0-120			1.54	20
1,2,4-Trimethylbenzene	0.0250	0.0206	0.0208	82.5	83.4	75.0-120			0.990	20
1,3,5-Trimethylbenzene	0.0250	0.0207	0.0210	82.8	83.8	75.0-120			1.25	20
Vinyl chloride	0.0250	0.0239	0.0242	95.7	96.6	64.0-133			0.960	20
Xylenes, Total	0.0750	0.0654	0.0658	87.2	87.7	77.0-120			0.610	20
o-Xylene	0.0250	0.0215	0.0217	86.1	86.8	78.0-120			0.770	20
m&p-Xylenes	0.0500	0.0439	0.0441	87.8	88.2	77.0-120			0.420	20
(S) Toluene-d8				*104*	*104*	*80.0-120*				
(S) Dibromofluoromethane				*99.6*	*100*	*76.0-123*				
(S) 4-Bromofluorobenzene				*99.2*	*99.8*	*80.0-120*				

L905118-05 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L905118-05 04/30/17 00:00 • (MS) R3214910-5 04/30/17 02:51 • (MSD) R3214910-6 04/30/17 03:07

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 %
Acetone	0.125	19.3	0.824	0.828	659	663	1	10.0-139	V	V	0.510	25
Benzene	0.0250	0.0153	0.0203	0.0203	81.3	81.0	1	34.0-147			0.290	20
Bromodichloromethane	0.0250	U	0.0225	0.0225	90.2	90.0	1	52.0-135			0.240	20
Bromoform	0.0250	U	0.0204	0.0209	81.8	83.7	1	50.0-146			2.33	20
Bromomethane	0.0250	U	0.0230	0.0228	91.9	91.2	1	10.0-160			0.760	23
n-Butylbenzene	0.0250	U	0.0194	0.0203	77.6	81.1	1	50.0-144			4.40	20

L905118-05 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L905118-05 04/30/17 00:00 • (MS) R3214910-5 04/30/17 02:51 • (MSD) R3214910-6 04/30/17 03:07

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 %
sec-Butylbenzene	0.0250	U	0.0213	0.0213	85.3	85.0	1	48.0-143			0.320	20
Carbon disulfide	0.0250	U	0.0208	0.0207	83.3	83.0	1	10.0-147			0.350	20
Carbon tetrachloride	0.0250	U	0.0202	0.0203	80.9	81.3	1	41.0-138			0.370	20
Chlorobenzene	0.0250	U	0.0213	0.0216	85.3	86.3	1	52.0-141			1.27	20
Chlorodibromomethane	0.0250	U	0.0223	0.0228	89.2	91.1	1	54.0-142			2.13	20
Chloroethane	0.0250	0.187	0.0304	0.0294	122	118	1	23.0-160			3.20	20
Chloroform	0.0250	U	0.0214	0.0215	85.7	86.0	1	50.0-139			0.370	20
Chloromethane	0.0250	U	0.0233	0.0232	93.3	92.7	1	14.0-151			0.690	20
1,2-Dibromoethane	0.0250	U	0.0219	0.0221	87.6	88.5	1	54.0-140			1.02	20
1,1-Dichloroethane	0.0250	U	0.755	0.753	3020	3010	1	47.0-143	E V	E V	0.290	20
1,2-Dichloroethane	0.0250	0.356	0.0352	0.0348	141	139	1	47.0-141			1.00	20
1,1-Dichloroethene	0.0250	0.519	0.0421	0.0420	169	168	1	31.0-148	V	V	0.240	20
cis-1,2-Dichloroethene	0.0250	U	ND	ND	0.000	0.000	1	43.0-142	J6	J6	0.000	20
trans-1,2-Dichloroethene	0.0250	1.27	0.0679	0.0682	272	273	1	36.0-141	V	V	0.400	20
1,2-Dichloropropane	0.0250	U	0.0229	0.0229	91.5	91.7	1	51.0-141			0.260	20
cis-1,3-Dichloropropene	0.0250	U	0.0247	0.0249	98.7	99.4	1	53.0-139			0.720	20
trans-1,3-Dichloropropene	0.0250	U	0.0236	0.0239	94.3	95.7	1	51.0-143			1.47	20
Ethylbenzene	0.0250	0.0632	0.0222	0.0223	88.7	89.1	1	42.0-147			0.430	20
2-Hexanone	0.125	U	0.126	0.128	101	103	1	36.0-145			1.59	23
Isopropylbenzene	0.0250	U	0.0190	0.0191	75.9	76.3	1	48.0-141			0.600	20
p-Isopropyltoluene	0.0250	U	0.0220	0.0222	88.2	88.8	1	49.0-146			0.670	20
2-Butanone (MEK)	0.125	U	1.56	1.55	1250	1240	1	12.0-149	E V	E V	0.610	24
Methylene Chloride	0.0250	U	0.217	0.217	869	867	1	42.0-135	E V	E V	0.220	20
4-Methyl-2-pentanone (MIBK)	0.125	4.11	0.303	0.303	242	243	1	44.0-160	V	V	0.150	22
Methyl tert-butyl ether	0.0250	U	0.0232	0.0228	92.9	91.4	1	42.0-142			1.68	20
Naphthalene	0.0250	U	0.0160	0.0178	64.1	71.1	1	42.0-146			10.4	24
n-Propylbenzene	0.0250	U	0.0195	0.0196	77.8	78.2	1	47.0-144			0.500	20
Styrene	0.0250	U	0.0207	0.0208	82.9	83.3	1	47.0-147			0.510	20
1,1,1,2-Tetrachloroethane	0.0250	U	0.0214	0.0215	85.6	86.2	1	52.0-140			0.710	20
1,1,2,2-Tetrachloroethane	0.0250	U	0.0226	0.0227	90.4	91.0	1	46.0-149			0.660	20
Tetrachloroethene	0.0250	U	0.0224	0.0224	89.6	89.6	1	38.0-147			0.0100	20
Toluene	0.0250	0.716	0.0466	0.0471	186	188	1	42.0-141	V	V	1.12	20
1,1,1-Trichloroethane	0.0250	U	0.368	0.368	1470	1470	1	46.0-140	E V	E V	0.0300	20
1,1,2-Trichloroethane	0.0250	0.101	0.0266	0.0264	106	106	1	54.0-139			0.740	20
Trichloroethene	0.0250	U	0.0217	0.0217	86.7	86.9	1	32.0-156			0.170	20
1,2,4-Trimethylbenzene	0.0250	U	0.0212	0.0213	84.8	85.1	1	41.0-146			0.350	20
1,3,5-Trimethylbenzene	0.0250	U	0.0206	0.0209	82.4	83.7	1	44.0-143			1.61	20
Vinyl chloride	0.0250	U	1.48	1.50	5930	6010	1	24.0-153	E V	E V	1.34	20
Xylenes, Total	0.0750	0.237	0.0686	0.0691	91.5	92.1	1	41.0-148			0.730	20
o-Xylene	0.0250	0.0510	0.0216	0.0216	86.3	86.3	1	44.0-146			0.0100	20

L905118-05 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L905118-05 04/30/17 00:00 • (MS) R3214910-5 04/30/17 02:51 • (MSD) R3214910-6 04/30/17 03:07

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 %
m&p-Xylenes	0.0500	0.186	0.0470	0.0475	93.9	95.0	1	41.0-147			1.11	20
(S) Toluene-d8					*105*	*106*		*80.0-120*				
(S) Dibromofluoromethane					*101*	*100*		*76.0-123*				
(S) 4-Bromofluorobenzene					*97.6*	*98.5*		*80.0-120*				

Method Blank (MB)

(MB) R3215008-3 04/29/17 18:30

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Acetone	U		0.0100	0.0500
Benzene	U		0.000331	0.00100
Bromodichloromethane	U		0.000380	0.00100
Bromoform	U		0.000469	0.00100
Bromomethane	U		0.000866	0.00500
n-Butylbenzene	U		0.000361	0.00100
sec-Butylbenzene	U		0.000365	0.00100
Carbon disulfide	U		0.000275	0.00100
Carbon tetrachloride	U		0.000379	0.00100
Chlorobenzene	U		0.000348	0.00100
Chlorodibromomethane	U		0.000327	0.00100
Chloroethane	U		0.000453	0.00500
Chloroform	U		0.000324	0.00500
Chloromethane	U		0.000276	0.00250
1,2-Dibromoethane	U		0.000381	0.00100
1,1-Dichloroethane	U		0.000259	0.00100
1,2-Dichloroethane	U		0.000361	0.00100
1,1-Dichloroethene	U		0.000398	0.00100
cis-1,2-Dichloroethene	U		0.000260	0.00100
trans-1,2-Dichloroethene	U		0.000396	0.00100
1,2-Dichloropropane	U		0.000306	0.00100
cis-1,3-Dichloropropene	U		0.000418	0.00100
trans-1,3-Dichloropropene	U		0.000419	0.00100
Ethylbenzene	U		0.000384	0.00100
2-Hexanone	U		0.00382	0.0100
Isopropylbenzene	U		0.000326	0.00100
p-Isopropyltoluene	U		0.000350	0.00100
2-Butanone (MEK)	U		0.00393	0.0100
Methylene Chloride	U		0.00100	0.00500
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100
Methyl tert-butyl ether	U		0.000367	0.00100
Naphthalene	U		0.00100	0.00500
n-Propylbenzene	U		0.000349	0.00100
Styrene	U		0.000307	0.00100
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100
Tetrachloroethene	U		0.000372	0.00100
Toluene	U		0.000412	0.00100
1,1,1-Trichloroethane	U		0.000319	0.00100
1,1,2-Trichloroethane	U		0.000383	0.00100

Method Blank (MB)

(MB) R3215008-3 04/29/17 18:30

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	mg/l		mg/l	mg/l
Trichloroethene	U		0.000398	0.00100
1,2,4-Trimethylbenzene	U		0.000373	0.00100
1,3,5-Trimethylbenzene	U		0.000387	0.00100
Vinyl chloride	U		0.000259	0.00100
Xylenes, Total	U		0.00106	0.00300
o-Xylene	U		0.000341	0.00100
m&p-Xylenes	U		0.000719	0.00200
(S) Toluene-d8	*105*			*80.0-120*
(S) Dibromofluoromethane	*101*			*76.0-123*
(S) 4-Bromofluorobenzene	*93.5*			*80.0-120*

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

(LCS) R3215008-2 04/29/17 17:20 • (LCSD) R3215008-4 04/29/17 18:51

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	mg/l	mg/l	mg/l	%	%	%			%	%
Acetone	0.125	0.0703	0.0648	56.2	51.8	10.0-160			8.20	23
Benzene	0.0250	0.0244	0.0243	97.5	97.1	69.0-123			0.380	20
Bromodichloromethane	0.0250	0.0215	0.0218	85.9	87.1	76.0-120			1.31	20
Bromoform	0.0250	0.0176	0.0179	70.2	71.4	67.0-132			1.68	20
Bromomethane	0.0250	0.0216	0.0226	86.3	90.2	18.0-160			4.41	20
n-Butylbenzene	0.0250	0.0294	0.0282	118	113	72.0-126			4.41	20
sec-Butylbenzene	0.0250	0.0229	0.0233	91.7	93.2	74.0-121			1.62	20
Carbon disulfide	0.0250	0.0225	0.0228	89.8	91.1	55.0-127			1.40	20
Carbon tetrachloride	0.0250	0.0212	0.0219	84.7	87.8	63.0-122			3.58	20
Chlorobenzene	0.0250	0.0206	0.0203	82.3	81.3	79.0-121			1.30	20
Chlorodibromomethane	0.0250	0.0190	0.0189	75.9	75.6	75.0-125			0.360	20
Chloroethane	0.0250	0.0272	0.0277	109	111	47.0-152			1.85	20
Chloroform	0.0250	0.0218	0.0226	87.0	90.5	72.0-121			3.86	20
Chloromethane	0.0250	0.0263	0.0273	105	109	48.0-139			3.54	20
1,2-Dibromoethane	0.0250	0.0208	0.0205	83.2	82.1	77.0-123			1.30	20
1,1-Dichloroethane	0.0250	0.0247	0.0255	98.8	102	70.0-126			3.30	20
1,2-Dichloroethane	0.0250	0.0234	0.0234	93.5	93.6	67.0-126			0.0200	20
1,1-Dichloroethene	0.0250	0.0226	0.0227	90.4	90.9	64.0-129			0.510	20
cis-1,2-Dichloroethene	0.0250	0.0216	0.0221	86.6	88.4	73.0-120			2.10	20
trans-1,2-Dichloroethene	0.0250	0.0222	0.0230	88.7	92.1	71.0-121			3.74	20
1,2-Dichloropropane	0.0250	0.0264	0.0259	105	104	75.0-125			1.80	20
cis-1,3-Dichloropropene	0.0250	0.0241	0.0239	96.2	95.4	79.0-123			0.850	20
trans-1,3-Dichloropropene	0.0250	0.0234	0.0225	93.7	89.9	74.0-127			4.17	20

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

(LCS) R3215008-2 04/29/17 17:20 • (LCSD) R3215008-4 04/29/17 18:51

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Ethylbenzene	0.0250	0.0216	0.0214	86.6	85.6	77.0-120			1.18	20
2-Hexanone	0.125	0.0970	0.0899	77.6	71.9	58.0-147			7.57	20
Isopropylbenzene	0.0250	0.0223	0.0224	89.1	89.6	75.0-120			0.550	20
p-Isopropyltoluene	0.0250	0.0215	0.0219	86.1	87.8	74.0-126			1.89	20
2-Butanone (MEK)	0.125	0.157	0.150	125	120	37.0-158			3.94	20
Methylene Chloride	0.0250	0.0217	0.0221	86.8	88.3	66.0-121			1.72	20
4-Methyl-2-pentanone (MIBK)	0.125	0.136	0.131	108	105	59.0-143			3.46	20
Methyl tert-butyl ether	0.0250	0.0227	0.0232	90.6	93.0	64.0-123			2.56	20
Naphthalene	0.0250	0.0211	0.0198	84.3	79.3	62.0-128			6.12	20
n-Propylbenzene	0.0250	0.0232	0.0235	92.9	94.2	79.0-120			1.37	20
Styrene	0.0250	0.0208	0.0201	83.0	80.3	78.0-124			3.32	20
1,1,1,2-Tetrachloroethane	0.0250	0.0189	0.0194	75.8	77.5	75.0-122			2.18	20
1,1,2,2-Tetrachloroethane	0.0250	0.0224	0.0228	89.7	91.0	71.0-122			1.41	20
Tetrachloroethene	0.0250	0.0209	0.0202	83.6	80.7	70.0-127			3.43	20
Toluene	0.0250	0.0232	0.0232	92.9	92.6	77.0-120			0.280	20
1,1,1-Trichloroethane	0.0250	0.0236	0.0244	94.3	97.5	68.0-122			3.29	20
1,1,2-Trichloroethane	0.0250	0.0211	0.0209	84.5	83.8	78.0-120			0.870	20
Trichloroethene	0.0250	0.0209	0.0211	83.4	84.4	78.0-120			1.17	20
1,2,4-Trimethylbenzene	0.0250	0.0208	0.0212	83.2	84.7	75.0-120			1.79	20
1,3,5-Trimethylbenzene	0.0250	0.0209	0.0213	83.5	85.4	75.0-120			2.17	20
Vinyl chloride	0.0250	0.0290	0.0296	116	118	64.0-133			1.80	20
Xylenes, Total	0.0750	0.0632	0.0636	84.3	84.8	77.0-120			0.630	20
o-Xylene	0.0250	0.0205	0.0208	82.0	83.3	78.0-120			1.59	20
m&p-Xylenes	0.0500	0.0427	0.0428	85.3	85.7	77.0-120			0.410	20
(S) Toluene-d8				*104*	*104*	*80.0-120*				
(S) Dibromofluoromethane				*95.3*	*98.6*	*76.0-123*				
(S) 4-Bromofluorobenzene				*89.8*	*90.9*	*80.0-120*				

Method Blank (MB)

(MB) R3215631-3 04/29/17 19:44

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Acetone	U		0.0100	0.0500
Benzene	U		0.000331	0.00100
Bromodichloromethane	U		0.000380	0.00100
Bromoform	U		0.000469	0.00100
Bromomethane	U		0.000866	0.00500
n-Butylbenzene	U		0.000361	0.00100
sec-Butylbenzene	U		0.000365	0.00100
Carbon disulfide	U		0.000275	0.00100
Carbon tetrachloride	U		0.000379	0.00100
Chlorobenzene	U		0.000348	0.00100
Chlorodibromomethane	U		0.000327	0.00100
Chloroethane	U		0.000453	0.00500
Chloroform	U		0.000324	0.00500
Chloromethane	U		0.000276	0.00250
1,2-Dibromoethane	U		0.000381	0.00100
1,1-Dichloroethane	U		0.000259	0.00100
1,2-Dichloroethane	U		0.000361	0.00100
1,1-Dichloroethene	U		0.000398	0.00100
cis-1,2-Dichloroethene	U		0.000260	0.00100
trans-1,2-Dichloroethene	U		0.000396	0.00100
1,2-Dichloropropane	U		0.000306	0.00100
cis-1,3-Dichloropropene	U		0.000418	0.00100
trans-1,3-Dichloropropene	U		0.000419	0.00100
Ethylbenzene	U		0.000384	0.00100
2-Hexanone	U		0.00382	0.0100
Isopropylbenzene	U		0.000326	0.00100
p-Isopropyltoluene	U		0.000350	0.00100
2-Butanone (MEK)	U		0.00393	0.0100
Methylene Chloride	U		0.00100	0.00500
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100
Methyl tert-butyl ether	U		0.000367	0.00100
Naphthalene	U		0.00100	0.00500
n-Propylbenzene	U		0.000349	0.00100
Styrene	U		0.000307	0.00100
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100
Tetrachloroethene	U		0.000372	0.00100
Toluene	U		0.000412	0.00100
1,1,1-Trichloroethane	U		0.000319	0.00100
1,1,2-Trichloroethane	U		0.000383	0.00100

Method Blank (MB)

(MB) R3215631-3 04/29/17 19:44

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	mg/l		mg/l	mg/l
Trichloroethene	U		0.000398	0.00100
1,2,4-Trimethylbenzene	U		0.000373	0.00100
1,3,5-Trimethylbenzene	U		0.000387	0.00100
Vinyl chloride	U		0.000259	0.00100
Xylenes, Total	U		0.00106	0.00300
o-Xylene	U		0.000341	0.00100
m&p-Xylenes	U		0.000719	0.00200
(S) Toluene-d8	*101*			*80.0-120*
(S) Dibromofluoromethane	*97.3*			*76.0-123*
(S) 4-Bromofluorobenzene	*100*			*80.0-120*

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

(LCS) R3215631-1 04/29/17 18:53 • (LCSD) R3215631-2 04/29/17 19:10

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	mg/l	mg/l	mg/l	%	%	%			%	%
Acetone	0.125	0.164	0.168	131	134	10.0-160			2.63	23
Benzene	0.0250	0.0221	0.0217	88.3	87.0	69.0-123			1.50	20
Bromodichloromethane	0.0250	0.0203	0.0209	81.2	83.6	76.0-120			2.92	20
Bromoform	0.0250	0.0173	0.0190	69.2	76.2	67.0-132			9.57	20
Bromomethane	0.0250	0.0183	0.0184	73.1	73.4	18.0-160			0.420	20
n-Butylbenzene	0.0250	0.0200	0.0202	79.8	80.8	72.0-126			1.24	20
sec-Butylbenzene	0.0250	0.0215	0.0216	85.9	86.4	74.0-121			0.550	20
Carbon disulfide	0.0250	0.0245	0.0241	98.1	96.3	55.0-127			1.79	20
Carbon tetrachloride	0.0250	0.0138	0.0154	55.3	61.5	63.0-122	J4	J4	10.7	20
Chlorobenzene	0.0250	0.0236	0.0237	94.2	95.0	79.0-121			0.760	20
Chlorodibromomethane	0.0250	0.0180	0.0196	72.0	78.4	75.0-125	J4		8.46	20
Chloroethane	0.0250	0.0197	0.0186	78.6	74.5	47.0-152			5.37	20
Chloroform	0.0250	0.0227	0.0223	90.7	89.1	72.0-121			1.78	20
Chloromethane	0.0250	0.0271	0.0286	108	114	48.0-139			5.43	20
1,2-Dibromoethane	0.0250	0.0220	0.0229	87.8	91.7	77.0-123			4.34	20
1,1-Dichloroethane	0.0250	0.0220	0.0214	88.0	85.4	70.0-126			2.95	20
1,2-Dichloroethane	0.0250	0.0233	0.0227	93.0	90.6	67.0-126			2.63	20
1,1-Dichloroethene	0.0250	0.0251	0.0241	100	96.5	64.0-129			3.95	20
cis-1,2-Dichloroethene	0.0250	0.0222	0.0216	88.8	86.4	73.0-120			2.74	20
trans-1,2-Dichloroethene	0.0250	0.0225	0.0220	90.0	87.8	71.0-121			2.41	20
1,2-Dichloropropane	0.0250	0.0222	0.0218	88.7	87.3	75.0-125			1.59	20
cis-1,3-Dichloropropene	0.0250	0.0198	0.0206	79.4	82.4	79.0-123			3.69	20
trans-1,3-Dichloropropene	0.0250	0.0189	0.0195	75.5	78.0	74.0-127			3.25	20

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

(LCS) R3215631-1 04/29/17 18:53 • (LCSD) R3215631-2 04/29/17 19:10

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 %
Ethylbenzene	0.0250	0.0234	0.0236	93.5	94.2	77.0-120			0.780	20
2-Hexanone	0.125	0.112	0.121	89.4	96.5	58.0-147			7.58	20
Isopropylbenzene	0.0250	0.0231	0.0234	92.3	93.7	75.0-120			1.55	20
p-Isopropyltoluene	0.0250	0.0221	0.0220	88.3	88.2	74.0-126			0.120	20
2-Butanone (MEK)	0.125	0.0933	0.0961	74.6	76.9	37.0-158			2.99	20
Methylene Chloride	0.0250	0.0217	0.0212	87.0	84.9	66.0-121			2.38	20
4-Methyl-2-pentanone (MIBK)	0.125	0.0970	0.102	77.6	81.7	59.0-143			5.14	20
Methyl tert-butyl ether	0.0250	0.0209	0.0209	83.5	83.5	64.0-123			0.0800	20
Naphthalene	0.0250	0.0168	0.0183	67.1	73.3	62.0-128			8.82	20
n-Propylbenzene	0.0250	0.0224	0.0227	89.5	90.8	79.0-120			1.41	20
Styrene	0.0250	0.0225	0.0229	89.8	91.4	78.0-124			1.75	20
1,1,1,2-Tetrachloroethane	0.0250	0.0201	0.0207	80.4	82.8	75.0-122			3.01	20
1,1,2,2-Tetrachloroethane	0.0250	0.0213	0.0222	85.2	88.9	71.0-122			4.28	20
Tetrachloroethene	0.0250	0.0252	0.0258	101	103	70.0-127			2.52	20
Toluene	0.0250	0.0236	0.0231	94.3	92.3	77.0-120			2.08	20
1,1,1-Trichloroethane	0.0250	0.0226	0.0226	90.3	90.5	68.0-122			0.290	20
1,1,2-Trichloroethane	0.0250	0.0222	0.0229	88.9	91.7	78.0-120			3.07	20
Trichloroethene	0.0250	0.0252	0.0252	101	101	78.0-120			0.270	20
1,2,4-Trimethylbenzene	0.0250	0.0223	0.0225	89.2	90.0	75.0-120			0.790	20
1,3,5-Trimethylbenzene	0.0250	0.0221	0.0224	88.3	89.7	75.0-120			1.52	20
Vinyl chloride	0.0250	0.0208	0.0211	83.3	84.4	64.0-133			1.35	20
Xylenes, Total	0.0750	0.0694	0.0694	92.5	92.5	77.0-120			0.000	20
o-Xylene	0.0250	0.0228	0.0231	91.3	92.6	78.0-120			1.42	20
m&p-Xylenes	0.0500	0.0466	0.0463	93.2	92.7	77.0-120			0.520	20
(S) Toluene-d8				*101*	*99.7*	*80.0-120*				
(S) Dibromofluoromethane				*97.0*	*96.3*	*76.0-123*				
(S) 4-Bromofluorobenzene				*102*	*102*	*80.0-120*				

Method Blank (MB)

(MB) R3214594-3 04/30/17 10:28

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Acetone	U		0.0100	0.0500
Benzene	U		0.000331	0.00100
Bromodichloromethane	U		0.000380	0.00100
Bromoform	U		0.000469	0.00100
Bromomethane	U		0.000866	0.00500
n-Butylbenzene	U		0.000361	0.00100
sec-Butylbenzene	U		0.000365	0.00100
Carbon disulfide	U		0.000275	0.00100
Carbon tetrachloride	U		0.000379	0.00100
Chlorobenzene	U		0.000348	0.00100
Chlorodibromomethane	U		0.000327	0.00100
Chloroethane	U		0.000453	0.00500
Chloroform	U		0.000324	0.00500
Chloromethane	U		0.000276	0.00250
1,2-Dibromoethane	U		0.000381	0.00100
1,1-Dichloroethane	U		0.000259	0.00100
1,2-Dichloroethane	U		0.000361	0.00100
1,1-Dichloroethene	U		0.000398	0.00100
cis-1,2-Dichloroethene	U		0.000260	0.00100
trans-1,2-Dichloroethene	U		0.000396	0.00100
1,2-Dichloropropane	U		0.000306	0.00100
cis-1,3-Dichloropropene	U		0.000418	0.00100
trans-1,3-Dichloropropene	U		0.000419	0.00100
Ethylbenzene	U		0.000384	0.00100
2-Hexanone	U		0.00382	0.0100
2-Butanone (MEK)	U		0.00393	0.0100
Isopropylbenzene	U		0.000326	0.00100
p-Isopropyltoluene	U		0.000350	0.00100
Methylene Chloride	U		0.00100	0.00500
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100
Methyl tert-butyl ether	U		0.000367	0.00100
Naphthalene	U		0.00100	0.00500
Styrene	U		0.000307	0.00100
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100
n-Propylbenzene	U		0.000349	0.00100
Tetrachloroethene	U		0.000372	0.00100
Toluene	U		0.000412	0.00100
1,1,1-Trichloroethane	U		0.000319	0.00100
1,1,2-Trichloroethane	U		0.000383	0.00100

Method Blank (MB)

(MB) R3214594-3 04/30/17 10:28

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	mg/l		mg/l	mg/l
Trichloroethene	U		0.000398	0.00100
1,2,4-Trimethylbenzene	U		0.000373	0.00100
Vinyl chloride	U		0.000259	0.00100
1,3,5-Trimethylbenzene	U		0.000387	0.00100
Xylenes, Total	U		0.00106	0.00300
o-Xylene	U		0.000341	0.00100
m&p-Xylenes	U		0.000719	0.00200
(S) Toluene-d8	*101*			*80.0-120*
(S) Dibromofluoromethane	*96.9*			*76.0-123*
(S) 4-Bromofluorobenzene	*105*			*80.0-120*

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

(LCS) R3214594-1 04/30/17 09:24 • (LCSD) R3214594-2 04/30/17 09:45

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	mg/l	mg/l	mg/l	%	%	%			%	%
Acetone	0.125	0.157	0.149	126	119	10.0-160			5.39	23
Benzene	0.0250	0.0228	0.0218	91.2	87.2	69.0-123			4.53	20
Bromodichloromethane	0.0250	0.0218	0.0216	87.0	86.3	76.0-120			0.840	20
Bromoform	0.0250	0.0236	0.0241	94.5	96.6	67.0-132			2.20	20
Bromomethane	0.0250	0.0175	0.0173	70.0	69.0	18.0-160			1.48	20
n-Butylbenzene	0.0250	0.0241	0.0239	96.2	95.5	72.0-126			0.740	20
sec-Butylbenzene	0.0250	0.0255	0.0253	102	101	74.0-121			0.690	20
Carbon disulfide	0.0250	0.0177	0.0170	70.8	68.1	55.0-127			3.95	20
Carbon tetrachloride	0.0250	0.0207	0.0195	83.0	77.8	63.0-122			6.41	20
Chlorobenzene	0.0250	0.0243	0.0240	97.1	95.8	79.0-121			1.33	20
Chlorodibromomethane	0.0250	0.0232	0.0233	92.7	93.3	75.0-125			0.720	20
Chloroethane	0.0250	0.0213	0.0208	85.2	83.2	47.0-152			2.45	20
Chloroform	0.0250	0.0223	0.0215	89.2	85.9	72.0-121			3.79	20
Chloromethane	0.0250	0.0238	0.0228	95.2	91.2	48.0-139			4.22	20
1,2-Dibromoethane	0.0250	0.0231	0.0233	92.2	93.0	77.0-123			0.840	20
1,1-Dichloroethane	0.0250	0.0230	0.0219	91.8	87.8	70.0-126			4.53	20
1,2-Dichloroethane	0.0250	0.0210	0.0211	84.1	84.5	67.0-126			0.440	20
1,1-Dichloroethene	0.0250	0.0203	0.0194	81.2	77.6	64.0-129			4.55	20
cis-1,2-Dichloroethene	0.0250	0.0229	0.0222	91.6	88.8	73.0-120			3.08	20
trans-1,2-Dichloroethene	0.0250	0.0228	0.0216	91.0	86.4	71.0-121			5.20	20
1,2-Dichloropropane	0.0250	0.0241	0.0235	96.4	94.1	75.0-125			2.43	20
cis-1,3-Dichloropropene	0.0250	0.0234	0.0236	93.8	94.4	79.0-123			0.680	20
trans-1,3-Dichloropropene	0.0250	0.0226	0.0228	90.4	91.3	74.0-127			1.07	20

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

(LCS) R3214594-1 04/30/17 09:24 • (LCSD) R3214594-2 04/30/17 09:45

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Ethylbenzene	0.0250	0.0231	0.0229	92.4	91.6	77.0-120			0.870	20
2-Hexanone	0.125	0.134	0.139	107	111	58.0-147			3.45	20
Isopropylbenzene	0.0250	0.0235	0.0236	94.0	94.4	75.0-120			0.510	20
2-Butanone (MEK)	0.125	0.115	0.112	91.9	89.9	37.0-158			2.25	20
p-Isopropyltoluene	0.0250	0.0265	0.0264	106	106	74.0-126			0.200	20
Methylene Chloride	0.0250	0.0252	0.0240	101	96.1	66.0-121			4.82	20
4-Methyl-2-pentanone (MIBK)	0.125	0.120	0.124	96.1	98.9	59.0-143			2.87	20
Methyl tert-butyl ether	0.0250	0.0209	0.0213	83.8	85.2	64.0-123			1.65	20
Naphthalene	0.0250	0.0232	0.0258	92.9	103	62.0-128			10.4	20
n-Propylbenzene	0.0250	0.0255	0.0247	102	98.8	79.0-120			3.01	20
Styrene	0.0250	0.0247	0.0248	98.7	99.1	78.0-124			0.430	20
1,1,1,2-Tetrachloroethane	0.0250	0.0238	0.0241	95.4	96.4	75.0-122			1.03	20
1,1,2,2-Tetrachloroethane	0.0250	0.0259	0.0266	104	107	71.0-122			2.80	20
Tetrachloroethene	0.0250	0.0238	0.0228	95.2	91.0	70.0-127			4.53	20
Toluene	0.0250	0.0227	0.0215	90.6	86.1	77.0-120			5.06	20
1,1,1-Trichloroethane	0.0250	0.0218	0.0209	87.2	83.6	68.0-122			4.29	20
1,1,2-Trichloroethane	0.0250	0.0243	0.0247	97.4	98.7	78.0-120			1.38	20
Trichloroethene	0.0250	0.0225	0.0215	89.9	86.0	78.0-120			4.49	20
1,2,4-Trimethylbenzene	0.0250	0.0253	0.0253	101	101	75.0-120			0.100	20
1,3,5-Trimethylbenzene	0.0250	0.0257	0.0254	103	102	75.0-120			1.20	20
Vinyl chloride	0.0250	0.0201	0.0193	80.3	77.1	64.0-133			3.98	20
Xylenes, Total	0.0750	0.0711	0.0702	94.8	93.6	77.0-120			1.27	20
o-Xylene	0.0250	0.0233	0.0236	93.1	94.5	78.0-120			1.46	20
m&p-Xylenes	0.0500	0.0478	0.0466	95.7	93.2	77.0-120			2.59	20
(S) Toluene-d8				*103*	*103*	*80.0-120*				
(S) Dibromofluoromethane				*95.5*	*94.9*	*76.0-123*				
(S) 4-Bromofluorobenzene				*105*	*108*	*80.0-120*				

Method Blank (MB)

(MB) R3214895-3 04/30/17 18:23

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Acetone	U		0.0100	0.0500
Benzene	U		0.000331	0.00100
Bromodichloromethane	U		0.000380	0.00100
Bromoform	U		0.000469	0.00100
Bromomethane	U		0.000866	0.00500
n-Butylbenzene	U		0.000361	0.00100
sec-Butylbenzene	U		0.000365	0.00100
Carbon disulfide	U		0.000275	0.00100
Carbon tetrachloride	U		0.000379	0.00100
Chlorobenzene	U		0.000348	0.00100
Chlorodibromomethane	U		0.000327	0.00100
Chloroethane	U		0.000453	0.00500
Chloroform	U		0.000324	0.00500
Chloromethane	U		0.000276	0.00250
1,2-Dibromoethane	U		0.000381	0.00100
1,1-Dichloroethane	U		0.000259	0.00100
1,2-Dichloroethane	U		0.000361	0.00100
1,1-Dichloroethene	U		0.000398	0.00100
cis-1,2-Dichloroethene	U		0.000260	0.00100
trans-1,2-Dichloroethene	U		0.000396	0.00100
1,2-Dichloropropane	U		0.000306	0.00100
cis-1,3-Dichloropropene	U		0.000418	0.00100
Ethylbenzene	U		0.000384	0.00100
trans-1,3-Dichloropropene	U		0.000419	0.00100
2-Hexanone	U		0.00382	0.0100
Naphthalene	U		0.00100	0.00500
Isopropylbenzene	U		0.000326	0.00100
p-Isopropyltoluene	U		0.000350	0.00100
2-Butanone (MEK)	U		0.00393	0.0100
Methylene Chloride	U		0.00100	0.00500
Toluene	U		0.000412	0.00100
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100
Methyl tert-butyl ether	U		0.000367	0.00100
n-Propylbenzene	U		0.000349	0.00100
1,2,4-Trimethylbenzene	U		0.000373	0.00100
Styrene	U		0.000307	0.00100
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100
Tetrachloroethene	U		0.000372	0.00100
Xylenes, Total	U		0.00106	0.00300

Method Blank (MB)

(MB) R3214895-3 04/30/17 18:23

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
1,1,1-Trichloroethane	U		0.000319	0.00100
1,1,2-Trichloroethane	U		0.000383	0.00100
Trichloroethene	U		0.000398	0.00100
1,3,5-Trimethylbenzene	U		0.000387	0.00100
Vinyl chloride	U		0.000259	0.00100
o-Xylene	U		0.000341	0.00100
m&p-Xylenes	U		0.000719	0.00200
(S) Toluene-d8	*104*			*80.0-120*
(S) Dibromofluoromethane	*100*			*76.0-123*
(S) 4-Bromofluorobenzene	*98.9*			*80.0-120*

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

(LCS) R3214895-2 04/30/17 17:52 • (LCSD) R3214895-4 04/30/17 20:35

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 %
Benzene	0.0250	0.0210	0.0217	83.9	86.9	69.0-123			3.46	20
Acetone	0.125	0.217	0.224	173	180	10.0-160	J4	J4	3.45	23
Bromodichloromethane	0.0250	0.0216	0.0221	86.3	88.6	76.0-120			2.65	20
Ethylbenzene	0.0250	0.0217	0.0224	86.9	89.6	77.0-120			3.07	20
Bromoform	0.0250	0.0239	0.0235	95.4	93.8	67.0-132			1.70	20
Bromomethane	0.0250	0.0240	0.0239	96.0	95.7	18.0-160			0.300	20
n-Butylbenzene	0.0250	0.0195	0.0203	77.9	81.1	72.0-126			4.00	20
sec-Butylbenzene	0.0250	0.0208	0.0218	83.3	87.4	74.0-121			4.79	20
Carbon disulfide	0.0250	0.0189	0.0198	75.6	79.3	55.0-127			4.80	20
Carbon tetrachloride	0.0250	0.0234	0.0268	93.8	107	63.0-122			13.3	20
Chlorobenzene	0.0250	0.0210	0.0214	84.1	85.7	79.0-121			1.83	20
Chlorodibromomethane	0.0250	0.0221	0.0221	88.6	88.4	75.0-125			0.160	20
Chloroethane	0.0250	0.0231	0.0226	92.6	90.3	47.0-152			2.47	20
Naphthalene	0.0250	0.0200	0.0165	79.8	66.0	62.0-128			18.9	20
Chloroform	0.0250	0.0206	0.0215	82.3	85.8	72.0-121			4.24	20
Chloromethane	0.0250	0.0251	0.0254	100	101	48.0-139			1.20	20
1,2-Dibromoethane	0.0250	0.0224	0.0215	89.7	85.9	77.0-123			4.40	20
Toluene	0.0250	0.0216	0.0226	86.6	90.3	77.0-120			4.17	20
1,1-Dichloroethane	0.0250	0.0203	0.0210	81.4	83.9	70.0-126			3.02	20
1,2,4-Trimethylbenzene	0.0250	0.0207	0.0211	82.7	84.3	75.0-120			1.91	20
1,2-Dichloroethane	0.0250	0.0208	0.0206	83.1	82.5	67.0-126			0.610	20
1,1-Dichloroethene	0.0250	0.0200	0.0213	80.1	85.1	64.0-129			6.06	20
cis-1,2-Dichloroethene	0.0250	0.0201	0.0210	80.2	83.9	73.0-120			4.44	20

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

(LCS) R3214895-2 04/30/17 17:52 • (LCSD) R3214895-4 04/30/17 20:35

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-1,2-Dichloroethene	0.0250	0.0196	0.0204	78.4	81.7	71.0-121			4.11	20
1,2-Dichloropropane	0.0250	0.0220	0.0224	88.0	89.6	75.0-125			1.77	20
Xylenes, Total	0.0750	0.0650	0.0669	86.7	89.2	77.0-120			2.88	20
cis-1,3-Dichloropropene	0.0250	0.0222	0.0228	88.7	91.1	79.0-123			2.65	20
trans-1,3-Dichloropropene	0.0250	0.0225	0.0229	90.1	91.6	74.0-127			1.65	20
2-Hexanone	0.125	0.174	0.172	139	137	58.0-147			1.45	20
Isopropylbenzene	0.0250	0.0210	0.0217	83.8	86.6	75.0-120			3.30	20
p-Isopropyltoluene	0.0250	0.0212	0.0220	84.7	88.1	74.0-126			3.95	20
2-Butanone (MEK)	0.125	0.174	0.172	140	137	37.0-158			1.62	20
Methylene Chloride	0.0250	0.0202	0.0207	80.8	82.9	66.0-121			2.61	20
4-Methyl-2-pentanone (MIBK)	0.125	0.137	0.129	110	103	59.0-143			6.27	20
Methyl tert-butyl ether	0.0250	0.0228	0.0220	91.0	87.8	64.0-123			3.56	20
n-Propylbenzene	0.0250	0.0208	0.0218	83.2	87.1	79.0-120			4.56	20
Styrene	0.0250	0.0219	0.0225	87.6	89.9	78.0-124			2.64	20
1,1,1,2-Tetrachloroethane	0.0250	0.0211	0.0217	84.5	86.8	75.0-122			2.78	20
1,1,2,2-Tetrachloroethane	0.0250	0.0225	0.0216	89.9	86.4	71.0-122			3.92	20
Tetrachloroethene	0.0250	0.0218	0.0227	87.4	90.9	70.0-127			3.95	20
1,1,1-Trichloroethane	0.0250	0.0203	0.0209	81.2	83.8	68.0-122			3.18	20
1,1,2-Trichloroethane	0.0250	0.0230	0.0223	91.9	89.1	78.0-120			3.15	20
Trichloroethene	0.0250	0.0208	0.0214	83.4	85.8	78.0-120			2.85	20
1,3,5-Trimethylbenzene	0.0250	0.0207	0.0212	82.8	84.9	75.0-120			2.52	20
Vinyl chloride	0.0250	0.0243	0.0253	97.0	101	64.0-133			4.06	20
o-Xylene	0.0250	0.0214	0.0219	85.8	87.7	78.0-120			2.23	20
m&p-Xylenes	0.0500	0.0436	0.0450	87.2	90.1	77.0-120			3.23	20
(S) Toluene-d8				*105*	*105*	*80.0-120*				
(S) Dibromofluoromethane				*99.0*	*99.1*	*76.0-123*				
(S) 4-Bromofluorobenzene				*99.5*	*100*	*80.0-120*				

L905377-11 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L905377-11 05/01/17 02:15 • (MS) R3214895-5 05/01/17 02:30 • (MSD) R3214895-6 05/01/17 02:46

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 %
Benzene	0.0250	ND	0.0137	0.0194	54.9	77.5	1	34.0-147		J3	34.0	20
Ethylbenzene	0.0250	ND	0.0132	0.0193	53.0	77.2	1	42.0-147		J3	37.2	20
Acetone	0.125	ND	0.0830	0.117	66.4	93.8	1	10.0-139		J3	34.2	25
Bromodichloromethane	0.0250	ND	0.0137	0.0194	55.0	77.8	1	52.0-135		J3	34.3	20
Naphthalene	0.0250	0.000627	0.0106	0.0169	39.9	65.2	1	42.0-146		J3	45.9	24
Bromoform	0.0250	ND	0.0145	0.0207	57.9	82.9	1	50.0-146		J3	35.5	20

L905377-11 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L905377-11 05/01/17 02:15 • (MS) R3214895-5 05/01/17 02:30 • (MSD) R3214895-6 05/01/17 02:46

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 %
Bromomethane	0.0250	ND	0.0149	0.0199	59.5	79.7	1	10.0-160		J3	29.0	23
n-Butylbenzene	0.0250	ND	0.0120	0.0181	47.9	72.3	1	50.0-144	J6	J3	40.6	20
sec-Butylbenzene	0.0250	ND	0.0131	0.0193	52.5	77.3	1	48.0-143		J3	38.3	20
Carbon disulfide	0.0250	ND	0.0110	0.0156	43.9	62.4	1	10.0-147		J3	34.9	20
Toluene	0.0250	ND	0.0138	0.0196	55.1	78.2	1	42.0-141		J3	34.6	20
Carbon tetrachloride	0.0250	ND	0.0155	0.0222	62.1	88.7	1	41.0-138		J3	35.3	20
Chlorobenzene	0.0250	ND	0.0131	0.0188	52.2	75.1	1	52.0-141		J3	35.9	20
Chlorodibromomethane	0.0250	ND	0.0135	0.0196	54.1	78.6	1	54.0-142		J3	37.0	20
Chloroethane	0.0250	ND	0.0166	0.0230	66.3	91.9	1	23.0-160		J3	32.4	20
Chloroform	0.0250	ND	0.0136	0.0192	54.2	76.7	1	50.0-139		J3	34.3	20
Chloromethane	0.0250	ND	0.0176	0.0247	70.3	98.8	1	14.0-151		J3	33.7	20
1,2,4-Trimethylbenzene	0.0250	ND	0.0127	0.0187	50.1	73.8	1	41.0-146		J3	37.7	20
1,2-Dibromoethane	0.0250	ND	0.0135	0.0195	54.1	77.9	1	54.0-140		J3	36.1	20
Xylenes, Total	0.0750	ND	0.0400	0.0581	53.3	77.5	1	41.0-148		J3	36.9	20
1,1-Dichloroethane	0.0250	ND	0.0136	0.0190	54.3	76.1	1	47.0-143		J3	33.4	20
1,2-Dichloroethane	0.0250	ND	0.0135	0.0189	53.9	75.7	1	47.0-141		J3	33.6	20
1,1-Dichloroethene	0.0250	ND	0.0131	0.0186	52.5	74.3	1	31.0-148		J3	34.4	20
cis-1,2-Dichloroethene	0.0250	ND	0.0138	0.0192	52.2	73.9	1	43.0-142		J3	32.9	20
trans-1,2-Dichloroethene	0.0250	ND	0.0126	0.0178	50.3	71.1	1	36.0-141		J3	34.1	20
1,2-Dichloropropane	0.0250	0.00173	0.0140	0.0198	49.1	72.2	1	51.0-141	J6	J3	34.3	20
cis-1,3-Dichloropropene	0.0250	ND	0.0136	0.0195	54.3	77.9	1	53.0-139		J3	35.6	20
trans-1,3-Dichloropropene	0.0250	ND	0.0138	0.0197	51.9	75.4	1	51.0-143		J3	35.1	20
2-Hexanone	0.125	ND	0.0825	0.120	66.0	95.9	1	36.0-145		J3	37.0	23
Isopropylbenzene	0.0250	ND	0.0129	0.0190	51.7	76.1	1	48.0-141		J3	38.2	20
p-Isopropyltoluene	0.0250	ND	0.0131	0.0195	52.2	77.8	1	49.0-146		J3	39.3	20
2-Butanone (MEK)	0.125	ND	0.0855	0.122	68.4	97.7	1	12.0-149		J3	35.3	24
Methylene Chloride	0.0250	ND	0.0132	0.0185	52.6	73.9	1	42.0-135		J3	33.7	20
4-Methyl-2-pentanone (MIBK)	0.125	ND	0.0845	0.122	67.6	97.4	1	44.0-160		J3	36.2	22
Methyl tert-butyl ether	0.0250	ND	0.0142	0.0204	56.6	81.6	1	42.0-142		J3	36.1	20
n-Propylbenzene	0.0250	ND	0.0131	0.0191	52.3	76.6	1	47.0-144		J3	37.8	20
Styrene	0.0250	ND	0.0135	0.0195	53.8	78.0	1	47.0-147		J3	36.7	20
1,1,1,2-Tetrachloroethane	0.0250	ND	0.0131	0.0191	52.5	76.6	1	52.0-140		J3	37.3	20
1,1,2,2-Tetrachloroethane	0.0250	ND	0.0141	0.0205	56.5	81.8	1	46.0-149		J3	36.5	20
Tetrachloroethene	0.0250	ND	0.0135	0.0196	53.8	78.2	1	38.0-147		J3	36.9	20
1,1,1-Trichloroethane	0.0250	ND	0.0133	0.0189	53.3	75.8	1	46.0-140		J3	34.8	20
1,1,2-Trichloroethane	0.0250	ND	0.0142	0.0202	57.0	80.7	1	54.0-139		J3	34.5	20
Trichloroethene	0.0250	0.0156	0.0291	0.0352	54.1	78.4	1	32.0-156			18.9	20
1,3,5-Trimethylbenzene	0.0250	ND	0.0127	0.0185	50.6	74.2	1	44.0-143		J3	37.7	20
Vinyl chloride	0.0250	ND	0.0191	0.0271	76.4	108	1	24.0-153		J3	34.5	20
o-Xylene	0.0250	ND	0.0130	0.0191	52.1	76.2	1	44.0-146		J3	37.6	20

L905377-11 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L905377-11 05/01/17 02:15 • (MS) R3214895-5 05/01/17 02:30 • (MSD) R3214895-6 05/01/17 02:46

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 %
m&p-Xylenes	0.0500	ND	0.0270	0.0390	54.1	78.0	1	41.0-147		J3	36.2	20
(S) Toluene-d8					*105*	*105*		*80.0-120*				
(S) Dibromofluoromethane					*101*	*101*		*76.0-123*				
(S) 4-Bromofluorobenzene					*98.7*	*98.8*		*80.0-120*				

Method Blank (MB)

(MB) R3215982-3 05/04/17 19:43

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Acetone	U		0.0100	0.0500
Benzene	U		0.000331	0.00100
Bromodichloromethane	U		0.000380	0.00100
Bromoform	U		0.000469	0.00100
Bromomethane	U		0.000866	0.00500
n-Butylbenzene	U		0.000361	0.00100
sec-Butylbenzene	U		0.000365	0.00100
Carbon disulfide	U		0.000275	0.00100
Carbon tetrachloride	U		0.000379	0.00100
Chlorobenzene	U		0.000348	0.00100
Chlorodibromomethane	U		0.000327	0.00100
Chloroethane	U		0.000453	0.00500
Chloroform	U		0.000324	0.00500
Chloromethane	U		0.000276	0.00250
1,2-Dibromoethane	U		0.000381	0.00100
1,1-Dichloroethane	U		0.000259	0.00100
1,2-Dichloroethane	U		0.000361	0.00100
1,1-Dichloroethene	U		0.000398	0.00100
cis-1,2-Dichloroethene	U		0.000260	0.00100
trans-1,2-Dichloroethene	U		0.000396	0.00100
1,2-Dichloropropane	U		0.000306	0.00100
cis-1,3-Dichloropropene	U		0.000418	0.00100
trans-1,3-Dichloropropene	U		0.000419	0.00100
Ethylbenzene	U		0.000384	0.00100
2-Hexanone	U		0.00382	0.0100
Isopropylbenzene	U		0.000326	0.00100
p-Isopropyltoluene	U		0.000350	0.00100
2-Butanone (MEK)	U		0.00393	0.0100
Methylene Chloride	U		0.00100	0.00500
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100
Methyl tert-butyl ether	U		0.000367	0.00100
Naphthalene	U		0.00100	0.00500
n-Propylbenzene	U		0.000349	0.00100
Styrene	U		0.000307	0.00100
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100
Tetrachloroethene	U		0.000372	0.00100
Toluene	U		0.000412	0.00100
1,1,1-Trichloroethane	U		0.000319	0.00100
1,1,2-Trichloroethane	U		0.000383	0.00100

Method Blank (MB)

(MB) R3215982-3 05/04/17 19:43

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Trichloroethene	U		0.000398	0.00100
1,2,4-Trimethylbenzene	U		0.000373	0.00100
1,3,5-Trimethylbenzene	U		0.000387	0.00100
Vinyl chloride	U		0.000259	0.00100
Xylenes, Total	U		0.00106	0.00300
o-Xylene	U		0.000341	0.00100
m&p-Xylenes	U		0.000719	0.00200
(S) Toluene-d8	*95.4*			*80.0-120*
(S) Dibromofluoromethane	*84.1*			*76.0-123*
(S) 4-Bromofluorobenzene	*92.7*			*80.0-120*

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

(LCS) R3215982-1 05/04/17 18:59 • (LCSD) R3215982-2 05/04/17 19:14

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	0.125	0.162	0.159	130	127	10.0-160			1.64	23
Benzene	0.0250	0.0256	0.0247	102	98.9	69.0-123			3.51	20
Bromodichloromethane	0.0250	0.0270	0.0270	108	108	76.0-120			0.160	20
Bromoform	0.0250	0.0269	0.0271	108	108	67.0-132			0.780	20
Bromomethane	0.0250	0.0216	0.0217	86.3	86.7	18.0-160			0.420	20
n-Butylbenzene	0.0250	0.0287	0.0289	115	116	72.0-126			0.860	20
sec-Butylbenzene	0.0250	0.0267	0.0265	107	106	74.0-121			0.420	20
Carbon disulfide	0.0250	0.0257	0.0245	103	97.9	55.0-127			4.81	20
Carbon tetrachloride	0.0250	0.0246	0.0234	98.2	93.7	63.0-122			4.72	20
Chlorobenzene	0.0250	0.0274	0.0276	109	111	79.0-121			0.960	20
Chlorodibromomethane	0.0250	0.0270	0.0275	108	110	75.0-125			1.72	20
Chloroethane	0.0250	0.0251	0.0238	100	95.0	47.0-152			5.53	20
Chloroform	0.0250	0.0249	0.0240	99.5	96.1	72.0-121			3.48	20
Chloromethane	0.0250	0.0295	0.0282	118	113	48.0-139			4.38	20
1,2-Dibromoethane	0.0250	0.0279	0.0283	112	113	77.0-123			1.44	20
1,1-Dichloroethane	0.0250	0.0256	0.0244	103	97.8	70.0-126			4.73	20
1,2-Dichloroethane	0.0250	0.0261	0.0255	104	102	67.0-126			2.17	20
1,1-Dichloroethene	0.0250	0.0261	0.0249	104	99.6	64.0-129			4.74	20
cis-1,2-Dichloroethene	0.0250	0.0246	0.0233	98.2	93.3	73.0-120			5.16	20
trans-1,2-Dichloroethene	0.0250	0.0246	0.0234	98.4	93.6	71.0-121			5.09	20
1,2-Dichloropropane	0.0250	0.0283	0.0280	113	112	75.0-125			1.08	20
cis-1,3-Dichloropropene	0.0250	0.0288	0.0289	115	116	79.0-123			0.330	20
trans-1,3-Dichloropropene	0.0250	0.0292	0.0294	117	118	74.0-127			0.680	20

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

(LCS) R3215982-1 05/04/17 18:59 • (LCSD) R3215982-2 05/04/17 19:14

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 %
Ethylbenzene	0.0250	0.0274	0.0274	110	109	77.0-120			0.290	20
2-Hexanone	0.125	0.154	0.149	123	119	58.0-147			2.93	20
Isopropylbenzene	0.0250	0.0272	0.0270	109	108	75.0-120			0.850	20
p-Isopropyltoluene	0.0250	0.0260	0.0262	104	105	74.0-126			0.640	20
2-Butanone (MEK)	0.125	0.149	0.141	119	113	37.0-158			5.26	20
Methylene Chloride	0.0250	0.0257	0.0245	103	98.2	66.0-121			4.45	20
4-Methyl-2-pentanone (MIBK)	0.125	0.149	0.146	119	117	59.0-143			1.95	20
Methyl tert-butyl ether	0.0250	0.0260	0.0250	104	100	64.0-123			4.08	20
Naphthalene	0.0250	0.0275	0.0288	110	115	62.0-128			4.45	20
n-Propylbenzene	0.0250	0.0273	0.0272	109	109	79.0-120			0.420	20
Styrene	0.0250	0.0288	0.0284	115	114	78.0-124			1.28	20
1,1,1,2-Tetrachloroethane	0.0250	0.0255	0.0257	102	103	75.0-122			0.850	20
1,1,2,2-Tetrachloroethane	0.0250	0.0249	0.0247	99.5	98.7	71.0-122			0.750	20
Tetrachloroethene	0.0250	0.0263	0.0263	105	105	70.0-127			0.190	20
Toluene	0.0250	0.0282	0.0280	113	112	77.0-120			0.730	20
1,1,1-Trichloroethane	0.0250	0.0248	0.0236	99.2	94.5	68.0-122			4.80	20
1,1,2-Trichloroethane	0.0250	0.0271	0.0273	108	109	78.0-120			0.940	20
Trichloroethene	0.0250	0.0277	0.0281	111	112	78.0-120			1.24	20
1,2,4-Trimethylbenzene	0.0250	0.0264	0.0262	106	105	75.0-120			0.780	20
1,3,5-Trimethylbenzene	0.0250	0.0267	0.0266	107	107	75.0-120			0.260	20
Vinyl chloride	0.0250	0.0285	0.0271	114	109	64.0-133			4.89	20
Xylenes, Total	0.0750	0.0819	0.0814	109	109	77.0-120			0.610	20
o-Xylene	0.0250	0.0269	0.0267	107	107	78.0-120			0.570	20
m&p-Xylenes	0.0500	0.0550	0.0547	110	109	77.0-120			0.450	20
(S) Toluene-d8				*96.0*	*97.1*	*80.0-120*				
(S) Dibromofluoromethane				*85.0*	*83.3*	*76.0-123*				
(S) 4-Bromofluorobenzene				*90.4*	*89.1*	*80.0-120*				

Method Blank (MB)

(MB) R3214877-1 05/01/17 11:21

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
TPH (GC/FID) High Fraction	U		0.0247	0.100
(S) o-Terphenyl	*69.8*			*31.0-160*

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

(LCS) R3214877-2 05/01/17 11:38 • (LCSD) R3214877-3 05/01/17 11:54

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	1.65	1.48	110	98.7	50.0-150			10.6	20
(S) o-Terphenyl				*86.4*	*85.7*	*31.0-160*				

Method Blank (MB)

(MB) R3214920-1 05/01/17 11:14

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	mg/l		mg/l	mg/l
TPH (GC/FID) High Fraction	U		0.0247	0.100
(S) o-Terphenyl	*88.4*			*31.0-160*

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

(LCS) R3214920-2 05/01/17 11:31 • (LCSD) R3214920-3 05/01/17 11:49

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	mg/l	mg/l	mg/l	%	%	%			%	%
TPH (GC/FID) High Fraction	1.50	1.65	1.67	110	112	50.0-150			1.52	20
(S) o-Terphenyl				*87.5*	*86.2*	*31.0-160*				

Abbreviations and Definitions

SDG	Sample Delivery Group.
MDL	Method Detection Limit.
RDL	Reported Detection Limit.
ND	Not detected at the Reporting Limit (or MDL where applicable).
U	Not detected at the Reporting Limit (or MDL where applicable).
RPD	Relative Percent Difference.
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.
(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.
Rec.	Recovery.

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.
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.
J5	The sample matrix interfered with the ability to make any accurate determination; spike value is high.
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low.
J7	Surrogate recovery cannot be used for control limit evaluation due to dilution.
O1	The analyte failed the method required serial dilution test and/or subsequent post-spike criteria. These failures indicate matrix interference.
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.

ESC Lab Sciences is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our "one location" design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be **YOUR LAB OF CHOICE.**
* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

State Accreditations

Alabama	40660	Nevada	TN-03-2002-34
Alaska	UST-080	New Hampshire	2975
Arizona	AZ0612	New Jersey–NELAP	TN002
Arkansas	88-0469	New Mexico	TN00003
California	01157CA	New York	11742
Colorado	TN00003	North Carolina	Env375
Conneticut	PH-0197	North Carolina [1]	DW21704
Florida	E87487	North Carolina [2]	41
Georgia	NELAP	North Dakota	R-140
Georgia [1]	923	Ohio–VAP	CL0069
Idaho	TN00003	Oklahoma	9915
Illinois	200008	Oregon	TN200002
Indiana	C-TN-01	Pennsylvania	68-02979
Iowa	364	Rhode Island	221
Kansas	E-10277	South Carolina	84004
Kentucky [1]	90010	South Dakota	n/a
Kentucky [2]	16	Tennessee [1 4]	2006
Louisiana	AI30792	Texas	T 104704245-07-TX
Maine	TN0002	Texas [5]	LAB0152
Maryland	324	Utah	6157585858
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	109
Minnesota	047-999-395	Washington	C1915
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	9980939910
Montana	CERT0086	Wyoming	A2LA
Nebraska	NE-OS-15-05		

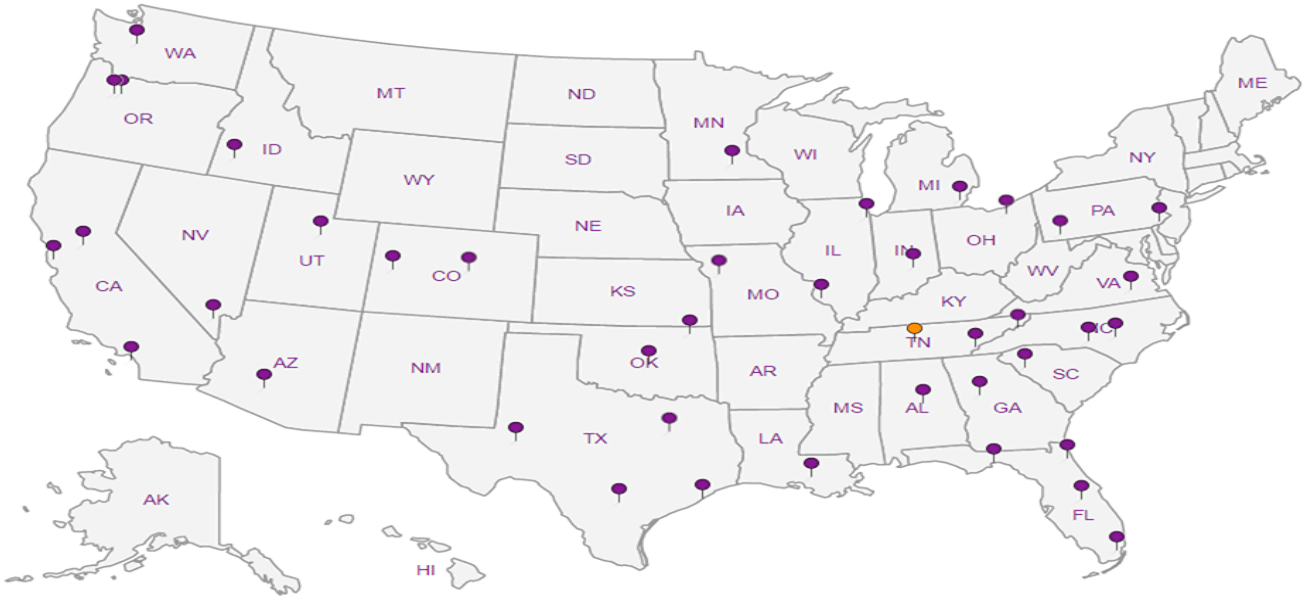
Third Party & Federal Accreditations

A2LA – ISO 17025	1461.01	AIHA-LAP,LLC	100789
A2LA – ISO 17025 [5]	1461.02	DOD	1461.01
Canada	1461.01	USDA	S-67674
EPA–Crypto	TN00003		

[1] Drinking Water [2] Underground Storage Tanks [3] Aquatic Toxicity [4] Chemical/Microbiological [5] Mold [n/a] Accreditation not applicable

Our Locations

ESC Lab Sciences has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. **ESC Lab Sciences performs all testing at our central laboratory.**



BTB 1

Chain of Custody Page 10 of 20

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G138

Acctnum: TRCATX
Template:
Prelogin:
TSR: Chris McCord
Cooler:
Shipped Via:

Company Name/Address:	Billing Information:
TRC Solutions - Austin, TX 505 E. Huntland Dr, Ste 250 Austin, TX 78752	Accounts Payable 21 Griffin Road North Windsor, CT 06095
Report to: Julie Speer	Email To: jspeer@trcwsolutions.com
Project Description: REST Spring 2017	City/State Collected: NM
Phone: 512-684-3170 Fax:	Client Project #	Lab Project #
Collected by (print): Scott Ude/HMI Team	Site/Facility ID #: REST (Navajo - Artesia)	P.O. #: 107027
Collected by (signature): Scott Ude Immediately Packed on Ice N ___ Y ✓	Rush? (Lab MUST Be Notified) ___ Same Day 200% ___ Next Day 100% ___ Two Day 50% ___ Three Day 25%	Date Results Needed Email? ___No ✓Yes FAX? ___No ___Yes

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	VOC	DRO	GRO	Short List Metals (Total & Dissolved)	Cations (from "total metals" bottle) L2	Anions	NO2NO3, TDS L2	Long List Metals (Total & Dissolved)	Cyanide L2	Rem./Contaminant	Sample # (lab only)
~~RW-12R~~	Grab	GW					X	X		X	X	X	X				
~~MW-113~~	Grab	GW					X	X	X	X	X	X	X				
KWB-8	Grab	GW		4/25/17	1735	9	X	X			X	X	X	X	X		-01
~~RW-22~~	Grab	GW					X	X		X	X	X	X				
~~RW-20A~~	Grab	GW					X	X		X	X	X	X				
~~RW-20B~~	Grab	GW					X	X		X	X	X	X				
~~RW-13R~~	Grab	GW					X	X		X	X	X	X				
~~RW-14R~~	Grab	GW					X	X		X	X	X	X				
~~MW-133~~	Grab	GW					X	X	X	X	X	X	X				
~~MW-134~~	Grab	GW					X	X	X	X	X	X	X				

* Matrix: SS - Soil GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other ___

pH ___ Temp ___

7283 8327 3340

Remarks: Dissolved metals field-filtered. 7283 8327 4173, 4037

Flow ___ Other ___

Hold #

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Scott Ude	4/26/17	0800	
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)
			Mint

Samples returned via: ☐ UPS ✓ FedEx ☐ Courier ☐ ___

Temp: 1.3 °C Bottles Received: 3+TB

Date: 4-27-17 Time: 900

Condition: (lab use only)

COC Seal Intact: ___Y ___N ___NA

pH Checked: <2, 7+2 NCF:

21

BTB 2

Company Name/Address:	Billing Information:
TRC Solutions - Austin, TX **505 E. Huntland Dr, Ste 250** **Austin, TX 78752**	**Accounts Payable** **21 Griffin Road North** **Windsor, CT 06095**
Report to: Julie Speer	Email To: jspeer@trcwsolutions.com
Project Description: **REST Spring 2017**	City/State Collected: NM
Phone: 512-684-3170 Fax:	Client Project #	Lab Project #
Collected by (print): **Scott Ude/HMI Team**	Site/Facility ID # REST (Navajo - Artesia)	P.O. # 107027
Collected by (signature): Scott Ude Immediately Packed on ice N ___ Y ✓	***Rush?*** (Lab MUST Be Notified) ___ Same Day ....200% ___ Next Day ....100% ___ Two Day ....50% ___ Three Day 25%	Date Results Needed Email? ___No ✓Yes FAX? ___No ___Yes

Analysis / Container / Preservative

Chain of Custody Page 11 of 20

ESC LAB SCIENCES
YOUR LAB OF CHOICE
12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

L# L905307

Table #

Acctnum: TRCATX

Template:

Prelogin:

TSR: **Chris McCord**

Cooler:

Shipped Via:

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	VOC	DRO	GRO	Short List Metals (Total & Dissolved)	Cations (from "total metals" bottle) x2	Anions	NO2NO3, TDS x2	Long List Metals (Total & Dissolved)	Cyanide x2		Rem./Contaminant	Sample # (lab only)
~~RA-4798~~	Grab	GW					X				X	X	X					
~~RA-4196~~	Grab	GW					X				X	X	X					
~~RA-3156~~	Grab	GW					X				X	X	X					
~~RA-313~~	Grab	GW					X				X	X	X					
KWB-7	Grab	GW		4/25/17	1820	9	X	X			X	X	X	X	X			-02
~~MW-135~~	Grab	GW					X	X	X	X	X	X	X					
KWB-11A	Grab	GW		4/25/17	1910	10	X	X	X		X	X	X	X	X			-03
KWB-11B	Grab	GW		4/25/17	2000	11	X	X	X		X	X	X	X	X			-04
~~MW-115~~	Grab	GW					X	X	X	X	X	X	X					
~~MW-114~~	Grab	GW					X	X	X	X	X	X	X					

* Matrix: **SS** - Soil **GW** - Groundwater **WW** - WasteWater **DW** - Drinking Water **OT** - Other_____

pH _____ Temp _____

Remarks: **Dissolved metals field-filtered.**

Flow _____ Other _____

Hold #

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Scott Ude	4/26/17	0800	
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)
			Mat

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

Temp: 1.5 °C Bottles Received: 3 12 + TB

Date: 4-27-17 Time: 900

Condition: (lab use only)

COC Seal Intact: J Y ___N ___NA

pH Checked: C2,12 NCF:

22

Company Name/Address:
TRC Solutions - Austin, TX
505 E. Huntland Dr, Ste 250
Austin, TX 78752

Billing Information:
Accounts Payable
21 Griffin Road North
Windsor, CT 06095

Report to: Julie Speer
Email To: jspeer@trcwsolutions.com

Project Description: **REST Spring 2017**
City/State Collected: NM

Phone: 512-684-3170
Fax:

Client Project #
Lab Project #

Collected by (print): **Scott Ude/HMI Team**
Site/Facility ID #: REST (Navajo - Artesia)
P.O. #: 107027

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

Rush? (Lab MUST be Notified)
___ Same Day 200%
___ Next Day 100%
___ Two Day 50%
___ Three Day 25%

Date Results Needed
Email? ___No ✓Yes
FAX? ___No ___Yes

Analysis / Container / Preservative

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	VOC	DRO	GRO	Short List Metals (Total & Dissolved)	Cations (from "total metals" bottle) 22	Anions	NO2NO3, TDS 22	Long List Metals (Total & Dissolved)	Cyanide 7.2		Rem./Contaminant	Sample # (lab only)
~~MW-117~~	Grab	GW					X	X	X	X	X	X	X					
~~MW-118~~	Grab	GW					X	X	X	X	X	X	X					
~~MW-119~~	Grab	GW					X	X	X	X	X	X	X					
NP-5	Grab	GW		4/25/17	1410	8	X	X		X	X	X	X					-05
MW-136	Grab	GW		4/25/17	1320	11	X	X	X		X	X	X	X	X			-06
~~MW-126A~~	Grab	GW					X	X	X	X	X	X	X					
~~MW-126B~~	Grab	GW					X	X	X	X	X	X	X					
~~MW-127~~	Grab	GW					X	X	X	X	X	X	X					
~~MW-129~~	Grab	GW					X	X	X	X	X	X	X					
RW-#18A	Grab	GW		4/25/17	1235	6	X			X	X	X	X					07

* Matrix: **SS** - Soil **GW** - Groundwater **WW** - WasteWater **DW** - Drinking Water **OT** - Other_____

Remarks: **Dissolved metals field-filtered.**

pH _____ Temp _____
Flow _____ Other _____

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Scott Ude	4/26/17	0800	
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)

Samples returned via: ☐ UPS ☑ FedEx ☐ Courier ☐ _____
Temp: 1.5 °C Bottles Received: 312418
Date: 4-27-17 Time: 900

Hold #
Condition: (lab use only)
COC Seal Intact: ___Y ___N ___NA
pH Checked: <2, 7.2 NCF:

Chain of Custody Page 12 of 20

ESC LABORATORY SCIENCES
YOUR LAB OF CHOICE
12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

L# L905807
Table #
Acctnum: TRCATX
Template:
Prelogin:
TSR: **Chris McCord**
Cooler:
Shipped Via:

GDS 2

Company Name/Address:
TRC Solutions - Austin, TX
505 E. Huntland Dr, Ste 250
Austin, TX 78752

Billing Information:
Accounts Payable
21 Griffin Road North
Windsor, CT 06095

Report to: Julie Speer
Email To: jspeer@trcwsolutions.com

Project Description: **REST Spring 2017**
City/State Collected: NM

Phone: 512-684-3170
Fax:
Client Project #
Lab Project #

Collected by (print): **Scott Ude/HMI Team**
Site/Facility ID #: REST (Navajo - Artesia)
P.O. #: 107027

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

Rush? (Lab MUST Be Notified)
___ Same Day 200%
___ Next Day 100%
___ Two Day 50%
___ Three Day 25%

Date Results Needed
Email? ___No ✓Yes
FAX? ___No ___Yes

Analysis / Container / Preservative

Chain of Custody Page 13 of 20

ESC LAB SCIENCES
YOUR LAB OF CHOICE
12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

L# L905307
Table #
Acctnum: TRCATX
Template:
Prelogin:
TSR: **Chris McCord**
Cooler:
Shipped Via:

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	VOC	DRO	GRO	Short List Metals (Total & Dissolved)	Cations (from "total metals" bottle) 12	Anions	NO2NO3, TDS 12	Long List Metals (Total & Dissolved)	Cyanide 7/12		Rem./Contaminant	Sample # (lab only)
KWB-1A	Grab	GW		4/25/17	1115	9	X	X			X	X	X	X	X			08
KWB-1C	Grab	GW		4/25/17	1150	3	X	X		X	X	X	X					09
KWB-10R	Grab	GW		4/25/17	1030	8	X	X		X	X	X	X					10
~~MW-131~~	Grab	GW					X	X	X	X	X	X	X					
~~KWB-5~~	Grab	GW					X	X		X	X	X	X					
~~MW-111~~	Grab	GW					X	X	X	X	X	X	X					
~~KWB-6~~	Grab	GW					X	X		X	X	X	X					
~~MW-112~~	Grab	GW					X	X	X	X	X	X	X					
~~MW-132~~	Grab	GW					X	X	X	X	X	X	X					
~~MW-57~~	Grab	GW					X	X	X	X	X	X	X					

* Matrix: **SS** - Soil **GW** - Groundwater **WW** - WasteWater **DW** - Drinking Water **OT** - Other_____

pH _____ Temp _____
Flow _____ Other _____

Remarks: **Dissolved metals field-filtered.**

Hold #

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Scott Ude	4/26/17	0800	
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature) MWL

Samples returned via: ☐ UPS ✓ FedEx ☐ Courier ☐ _____
Temp: 1.5 °C Bottles Received: 312+TB
Date: 4-27-17 Time: 900

Condition: (lab use only)
COC Seal Intact: ___ Y ___ N ___ NA
pH Checked: C2, 7/12 NCF:

24

GDS 3

Company Name/Address:	Billing Information:
TRC Solutions - Austin, TX **505 E. Huntland Dr, Ste 250** **Austin, TX 78752**	**Accounts Payable** **21 Griffin Road North** **Windsor, CT 06095**
Report to: Julie Speer	Email To: jspeer@trcwsolutions.com
Project Description: **REST Spring 2017**	City/State Collected: NM
Phone: 512-684-3170 Fax:	Client Project #	Lab Project #
Collected by (print): **Scott Ude/HMI Team**	Site/Facility ID #: REST (Navajo - Artesia)	P.O. #: 107027
Collected by (signature): Scott Ude Immediately Packed on Ice N ___ Y ✓	***Rush?*** (Lab MUST Be Notified) ___ Same Day .....200% ___ Next Day .....100% ___ Two Day .....50% ___ Three Day 25%	Date Results Needed Email? ___No ✓Yes FAX? ___No ___Yes

Analysis / Container / Preservative

Chain of Custody Page 14 of 20

ESC LAB SCIENCES — YOUR LAB OF CHOICE
12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

L# L905307
Table #
Acctnum: TRCATX
Template:
Prelogin:
TSR: **Chris McCord**
Cooler:
Shipped Via:

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	VOC	DRO	GRO	Short List Metals (Total & Dissolved)	Cations (from "total metals" bottle) L2	Anions	NO2NO3, TDS L2	Long List Metals (Total & Dissolved)	Cyanide 7/2	Rem./Contaminant	Sample # (lab only)
~~RW-#11-0~~	Grab	GW					X	X		X	X	X	X				
~~KWB-12A~~	Grab	GW					X	X	X		X	X	X	X	X		
~~KWB-12B~~	Grab	GW					X	X	X		X	X	X	X	X		
KWB-2R	Grab	GW		4/25/17	1715	8	X	X		X	X	X	X				11
MW-58	Grab	GW		4/25/17	1630	9	X	X			X	X	X	X	X		12
~~KWB-13~~	Grab	GW					X	X			X	X	X	X	X		
	Grab	GW															
	Grab	GW															
	Grab	GW															
	Grab	GW															

* Matrix: **SS** - Soil **GW** - Groundwater **WW** - WasteWater **DW** - Drinking Water **OT** - Other ___

pH ___ Temp ___
Flow ___ Other ___

Remarks: **Dissolved metals field-filtered.**

Hold #

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Scott Ude	4/26/17	0800	
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)
			Mwt

Samples returned via: ☐ UPS ☑ FedEx ☐ Courier ☐ ___
Temp: 1.5 °C Bottles Received: 312TB
Date: 4-27-17 Time: 900

Condition: (lab use only)
COC Seal Intact: ✓ Y ___ N ___ NA
pH Checked: L2,7/2 NCF:

25

SCu 1

Chain of Custody Page 15 of 20

ESC LAB SCIENCES

YOUR LAB OF CHOICE

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

L# L905307

Table #

Acctnum: TRCATX

Template:

Prelogin:

TSR: Chris McCord

Cooler:

Shipped Via:

Company Name/Address:	Billing Information:
TRC Solutions - Austin, TX **505 E. Huntland Dr, Ste 250** **Austin, TX 78752**	**Accounts Payable** **21 Griffin Road North** **Windsor, CT 06095**
Report to: Julie Speer	Email To: jspeer@trcwsolutions.com
Project Description: **REST Spring 2017**	City/State Collected: NM
Phone: 512-684-3170 Fax:	Client Project #	Lab Project #
Collected by (print): **Scott Ude/HMI Team**	Site/Facility ID #: REST (Navajo - Artesia)	P.O. #: 107027
Collected by (signature): Scott Ude Immediately Packed on Ice N ___ Y ✓	***Rush?*** (Lab MUST Be Notified) ___ Same Day ..... 200% ___ Next Day ..... 100% ___ Two Day ..... 50% ___ Three Day 25%	Date Results Needed Email? ___No ✓Yes FAX? ___No ___Yes

Analysis / Container / Preservative

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	VOC	DRO	GRO	Short List Metals (Total & Dissolved)	Cations (from "total metals" bottle) L2	Anions	NO2NO3, TDS L2	Long List Metals (Total & Dissolved)	Cyanide		Rem./Contaminant	Sample # (lab only)
MW-103	Grab	GW		4/25/17	1445	10	X	X	X	X	X	X	X					13
MW-104	Grab	GW		4/25/17	1535	10	X	X	X	X	X	X	X					N
MW-64	Grab	GW		4/25/17	1300	10	X	X	X	X	X	X	X					15
MW-65	Grab	GW		4/25/17	1350	10	X	X	X	X	X	X	X					16
~~RW-5R~~	Grab	GW					X	X		X	X	X	X					
~~MW-102~~	Grab	GW					X	X	X	X	X	X	X					
~~RW-4~~	Grab	GW					X	X		X	X	X	X					
~~RW-6~~	Grab	GW					X	X		X	X	X	X					
~~MW-99~~	Grab	GW					X	X	X	X	X	X	X					
~~MW-66~~	Grab	GW					X	X	X		X	X	X	X	X			

* Matrix: **SS** - Soil **GW** - Groundwater **WW** - WasteWater **DW** - Drinking Water **OT** - Other _____

Remarks: **Dissolved metals field-filtered.**

pH _____ Temp _____

Flow _____ Other _____

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Scott Ude	4/26/17	0800	
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)
			MW

Samples returned via: ☐ UPS ☑ FedEx ☐ Courier ☐ _____

Temp: 1.5 °C Bottles Received: 312+TB

Date: 4-27-17 Time: 900

Hold #

Condition: (lab use only)

COC Seal Intact: ___ Y ___ N ___ NA

pH Checked: L2, 212 NCF:

26

SCU 4

Company Name/Address:	Billing Information:
TRC Solutions - Austin, TX 505 E. Huntland Dr, Ste 250 Austin, TX 78752	Accounts Payable 21 Griffin Road North Windsor, CT 06095
Report to: Julie Speer	Email To: jspeer@trcwsolutions.com
Project Description: REST Spring 2017	City/State Collected: NM
Phone: 512-684-3170 Fax:	Client Project #	Lab Project #
Collected by (print): Scott Ude/HMI Team	Site/Facility ID # REST (Navajo - Artesia)	P.O. # 107027
Collected by (signature): Scott Ude Immediately Packed on Ice N ___ Y ✓	Rush? (Lab MUST Be Notified) ___ Same Day ....200% ___ Next Day ....100% ___ Two Day ....50% ___ Three Day 25%	Date Results Needed Email? ___No ✓Yes FAX? ___No ___Yes

Analysis / Container / Preservative

Chain of Custody Page 16 of 20

ESC LABORATORY SCIENCES
YOUR LAB OF CHOICE
12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

L# L985307
Table #
Acctnum: TRCATX
Template:
Prelogin:
TSR: Chris McCord
Cooler:
Shipped Via:

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	VOC	DRO	GRO	Short List Metals (Total & Dissolved)	Cations (from "total metals" bottle) L2	Anions	NO2NO3, TDS L2	Long List Metals (Total & Dissolved)	Cyanide 7.2		Rem./Contaminant	Sample # (lab only)
UG-2	Grab	GW		4/25/17	1210	11	X	X	X		X	X	X	X	X			17
UG-3R	Grab	GW		4/25/17	940	11	X	X	X		X	X	X	X	X			18
UG-1	Grab	GW		4/25/17	1120	11	X	X	X		X	X	X	X	X			19
UG-4	Grab	GW		4/25/17	1025	11	X	X	X		X	X	X	X	X			
	Grab	GW																
	Grab	GW																
	Grab	GW																
	Grab	GW																
	Grab	GW																
	Grab	GW																

* Matrix: **SS** - Soil **GW** - Groundwater **WW** - WasteWater **DW** - Drinking Water **OT** - Other _____

pH _____ Temp _____

Remarks: **Dissolved metals field-filtered.**

Flow _____ Other _____

Hold #

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Scott Ude	4/26/17	0800	
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)
			Mwt

Samples returned via: ☐ UPS ☑ FedEx ☐ Courier ☐ ____

Temp: 1.6 °C Bottles Received: 3 12 FB

Date: 4-27-17 Time: 900

Condition: (lab use only)

COC Seal Intact: ___Y ___N ___NA

pH Checked: L2, 7.2 NCF:

26

TAB 1

Chain of Custody Page 17 of 20

ESC LAB SCIENCES
YOUR LAB OF CHOICE
12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

L # L905307
Table #
Acctnum: TRCATX
Template:
Prelogin:
TSR: Chris McCord
Cooler:
Shipped Via:

Company Name/Address:	Billing Information:
TRC Solutions - Austin, TX 505 E. Huntland Dr, Ste 250 Austin, TX 78752	Accounts Payable 21 Griffin Road North Windsor, CT 06095
Report to: Julie Speer	Email To: jspeer@trcwsolutions.com
Project Description: REST Spring 2017	City/State Collected: NM
Phone: 512-684-3170 Fax:	Client Project #	Lab Project #
Collected by (print): Scott Ude/HMI Team	Site/Facility ID #: REST (Navajo - Artesia)	P.O. #: 107027
Collected by (signature): Scott Ude Immediately Packed on Ice N ___ Y ✓	Rush? (Lab MUST Be Notified) ___ Same Day 200% ___ Next Day 100% ___ Two Day 50% ___ Three Day 25%	Date Results Needed Email? ___No ✓Yes FAX? ___No ___Yes

Analysis / Container / Preservative

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	VOC	DRO	GRO	Short List Metals (Total & Dissolved)	Cations (from "total metals" bottle) 22	Anions	NO2NO3, TDS 12	Long List Metals (Total & Dissolved)	Cyanide 24	Rem./Contaminant	Sample # (lab only)
~~MW-101~~	Grab	GW					X	X	X	X	X	X	X				
~~MW-105~~	Grab	GW					X	X	X	X	X	X	X				
~~RW-2~~	Grab	GW					X	X	X	X	X	X	X				
~~MW-61~~	Grab	GW					X	X	X	X	X	X	X				
~~MW-62~~	Grab	GW					X	X	X	X	X	X	X				
~~MW-93~~	Grab	GW					X	X	X	X	X	X	X				
MW-43	Grab	GW		4/25/17	1125	11	X	X	X		X	X	X	X	X		20
MW-137	Grab	GW		4/25/17	1325	11	X	X	X		X	X	X	X	X		21
MW-138	Grab	GW		4/25/17	1225	11	X	X	X		X	X	X	X	X		22
~~MW-23~~	Grab	GW					X	X	X	X	X	X	X				

* Matrix: **SS** - Soil **GW** - Groundwater **WW** - WasteWater **DW** - Drinking Water **OT** - Other _____

Remarks: **Dissolved metals field-filtered.**

pH _____ Temp _____
Flow _____ Other _____

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Scott Ude	4/26/17	0800	
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)
			Mwt

Samples returned via: ☐ UPS ✓ FedEx ☐ Courier ☐ _____
Temp: 1.3 °C Bottles Received: 312+TB
Date: 4-27-17 Time: 900

Hold #
Condition: (lab use only)
COC Seal Intact: ✓ Y ___N ___NA
pH Checked: C2, 7I2 NCF:

TAB 3

Company Name/Address:
TRC Solutions - Austin, TX
505 E. Huntland Dr, Ste 250
Austin, TX 78752

Billing Information:
Accounts Payable
21 Griffin Road North
Windsor, CT 06095

Report to: Julie Speer
Email To: jspeer@trcwsolutions.com

Project Description: **REST Spring 2017**
City/State Collected: NM

Phone: 512-684-3170
Fax:
Client Project #
Lab Project #

Collected by (print): **Scott Ude/HMI Team**
Site/Facility ID #: REST (Navajo - Artesia)
P.O. # 107027

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

Rush? (Lab MUST Be Notified)
___ Same Day 200%
___ Next Day 100%
___ Two Day 50%
___ Three Day 25%

Date Results Needed

Email? ___No ✓Yes
FAX? ___No ___Yes

Chain of Custody Page 18 of 20

ESC LAB SCIENCES
YOUR LAB OF CHOICE
12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

L# L905307
Table #
Acctnum: TRCATX
Template:
Prelogin:
TSR: **Chris McCord**
Cooler:
Shipped Via:

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	VOC	DRO	GRO	Short List Metals (Total & Dissolved)	Cations (from "total metals" bottle) L2	Anions	NO2NO3, TDS L2	Long List Metals (Total & Dissolved)	Cyanide		Rem./Contaminant	Sample # (lab only)
~~MW-39~~	Grab	GW					X	X	X	X	X	X	X					
MW-98	Grab	GW		4/25/17	1025	10	X	X	X	X	X	X	X					23
~~RW-10~~	Grab	GW					X	X	X	X	X	X	X					
~~MW-40~~	Grab	GW					X	X	X	X	X	X	X					
~~MW-41~~	Grab	GW					X	X	X	X	X	X	X					
~~RW-9~~	Grab	GW					X	X	X	X	X	X	X					
~~MW-42~~	Grab	GW					X	X	X	X	X	X	X					
~~MW-29~~	Grab	GW					X	X	X	X	X	X	X					
~~RW-#16B~~	Grab	GW					X	X		X	X	X	X					
MW-106	Grab	GW		4/25/17	925	10	X	X	X	X	X	X	X					24

* Matrix: **SS** - Soil **GW** - Groundwater **WW** - WasteWater **DW** - Drinking Water **OT** - Other ___

Remarks: **Dissolved metals field-filtered.**

pH ___ Temp ___
Flow ___ Other ___

Hold #

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Scott Ude	4/26/17	0800	
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)

Samples returned via: ☐ UPS ☑ FedEx ☐ Courier ☐ ___
Temp: 1.1 °C Bottles Received: 3 12 TB
Date: 4-27-17 Time: 900

Condition: (lab use only)
COC Seal Intact: / Y ___N ___NA
pH Checked: L2 NCF:

30

CJH 1

Company Name/Address:
TRC Solutions - Austin, TX
505 E. Huntland Dr, Ste 250
Austin, TX 78752

Billing Information:
Accounts Payable
21 Griffin Road North
Windsor, CT 06095

Report to: Julie Speer
Email To: jspeer@trcwsolutions.com

Project Description: **REST Spring 2017**
City/State Collected: NM

Phone: 512-684-3170
Fax:

Client Project #

Lab Project #

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

Site/Facility ID #: REST (Navajo - Artesia)

P.O. # 107027

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

Rush? (Lab MUST Be Notified)
___ Same Day 200%
___ Next Day 100%
___ Two Day 50%
___ Three Day 25%

Date Results Needed

Email? ___No ✓Yes
FAX? ___No ___Yes

Analysis / Container / Preservative

Chain of Custody Page 19 of 20

ESC LABORATORIES
YOUR LAB OF CHOICE
12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

L# L905307
Table #
Acctnum: TRCATX
Template:
Prelogin:
TSR: **Chris McCord**
Cooler:
Shipped Via:

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	VOC	DRO	GRO	Short List Metals (Total & Dissolved)	Cations (from "total metals" bottle) L2	Anions	NO2NO3, TDS L2	Long List Metals (Total & Dissolved)	Cyanide		Rem./Contaminant	Sample # (lab only)
MW-50	Grab	GW		4/25/17	1200	8	X	X		X	X	X	X					25
~~MW-97~~	Grab	GW					X	X	X	X	X	X	X					
~~MW-92~~	Grab	GW					X	X	X	X	X	X	X					
RW-1	Grab	GW		4/25/17	1305	10	X	X	X	X	X	X	X					26
MW-91	Grab	GW		4/25/17	1350	10	X	X	X	X	X	X	X					27
MW-90	Grab	GW		4/25/17	1430	10	X	X	X	X	X	X	X					28
MW-96	Grab	GW		4/25/17	1510	10	X	X	X	X	X	X	X					29
~~MW-94~~	Grab	GW					X	X	X	X	X	X	X					
~~RW-8~~	Grab	GW					X	X		X	X	X	X					
~~MW-67~~	Grab	GW					X	X	X		X	X	X	X	X			

MW 4-27-17

* Matrix: **SS** - Soil **GW** - Groundwater **WW** - WasteWater **DW** - Drinking Water **OT** - Other _____

pH _____ Temp _____
Flow _____ Other _____

Remarks: **Dissolved metals field-filtered.**

Hold #

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Scott Ude	4/26/17	0800	
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)

Samples returned via: ☐ UPS ☑ FedEx ☐ Courier ☐ _____
Temp: 1.6 °C Bottles Received: 32+TB
Date: 4-27-17 Time: 900

Condition: (lab use only)
COC Seal Intact: ___Y ___N ___NA
pH Checked: L2 NCF:

31

QA/QC 5

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Company Name/Address:	Billing Information:
TRC Solutions - Austin, TX **505 E. Huntland Dr, Ste 250** **Austin, TX 78752**	**Accounts Payable** **21 Griffin Road North** **Windsor, CT 06095**
Report to: Julie Speer	Email To: jspeer@trcwsolutions.com
Project Description: **REST Spring 2017**	City/State Collected: NM
Phone: 512-684-3170 Fax:	Client Project #	Lab Project #
Collected by (print): **Scott Ude/HMI Team**	Site/Facility ID #: REST (Navajo - Artesia)	P.O. #: 107027
Collected by (signature): Scott Ude Immediately Packed on Ice N ___ Y ✓	***Rush?*** (Lab MUST Be Notified) ___ Same Day ....200% ___ Next Day ....100% ___ Two Day ....50% ___ Three Day 25%	Date Results Needed Email? ___No ✓Yes FAX? ___No ___Yes

Chain of Custody

ESC LAB SCIENCES

YOUR LAB OF CHOICE

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

L# 1905307

Table #

Acctnum: TRCATX

Template:

Prelogin:

TSR: **Chris McCord**

Cooler:

Shipped Via:

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	VOC	DRO	GRO	Short List Metals (Total & Dissolved)	Cations (from "total metals" bottle)	Anions	NO2NO3, TDS	Long List Metals (Total & Dissolved)	Cyanide	Rem./Contaminant	Sample # (lab only)
~~DUP-REST-01~~	Grab	GW					X	X	X	X	X	X	X				
DUP-REST-02	Grab	GW		4/25/17	1200	10	X	X	X	X	X	X	X				30
~~DUP-REST-03~~	Grab	GW					X	X	X	X	X	X	X				
~~DUP-REST-04~~	Grab	GW					X	X	X		X	X	X	X	X		
~~DUP-REST-05~~	Grab	GW					X	X	X		X	X	X	X	X		
~~EB-REST-01~~	Grab	GW					X	X	X	X	X	X	X				
EB-REST-02	Grab	GW		4/25/17	1550	10	X	X	X	X	X	X	X				31
~~EB-REST-03~~	Grab	GW					X	X	X	X	X	X	X				
~~EB-REST-04~~	Grab	GW					X	X	X		X	X	X	X	X		
~~EB-REST-05~~	Grab	GW					X	X	X		X	X	X	X	X		

Analysis / Container / Preservative

* Matrix: **SS** - Soil **GW** - Groundwater **WW** - WasteWater **DW** - Drinking Water **OT** - Other ___

pH ___ Temp ___

Remarks: **Dissolved metals field-filtered.**

Flow ___ Other ___

Hold #

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Scott Ude	4/26/17	0800	
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)

Samples returned via: ☐ UPS ☑ FedEx ☐ Courier ☐ ___

Temp: 1.1 °C Bottles Received: 32-TB

Date: 4277 Time: 900

Condition: (lab use only)

COC Seal Intact: ✓ Y ___ N ___ NA

pH Checked: NCF:

33

ESC LAB SCIENCES
Cooler Receipt Form

Client: TRCATX	SDG#	L905307	
Cooler Received/Opened On: 4/ 27 /17	Temperature:	1.5	
Received By: MICHAEL WITHERSPOON			
Signature:			

Receipt Check List	NP	Yes	No
COC Seal Present / Intact?		✓	
COC Signed / Accurate?		✓	
Bottles arrive intact?		✓	
Correct bottles used?		✓	
Sufficient volume sent?		✓	
If Applicable			
VOA Zero headspace?			
Preservation Correct / Checked?			

ANALYTICAL REPORT

May 11, 2017

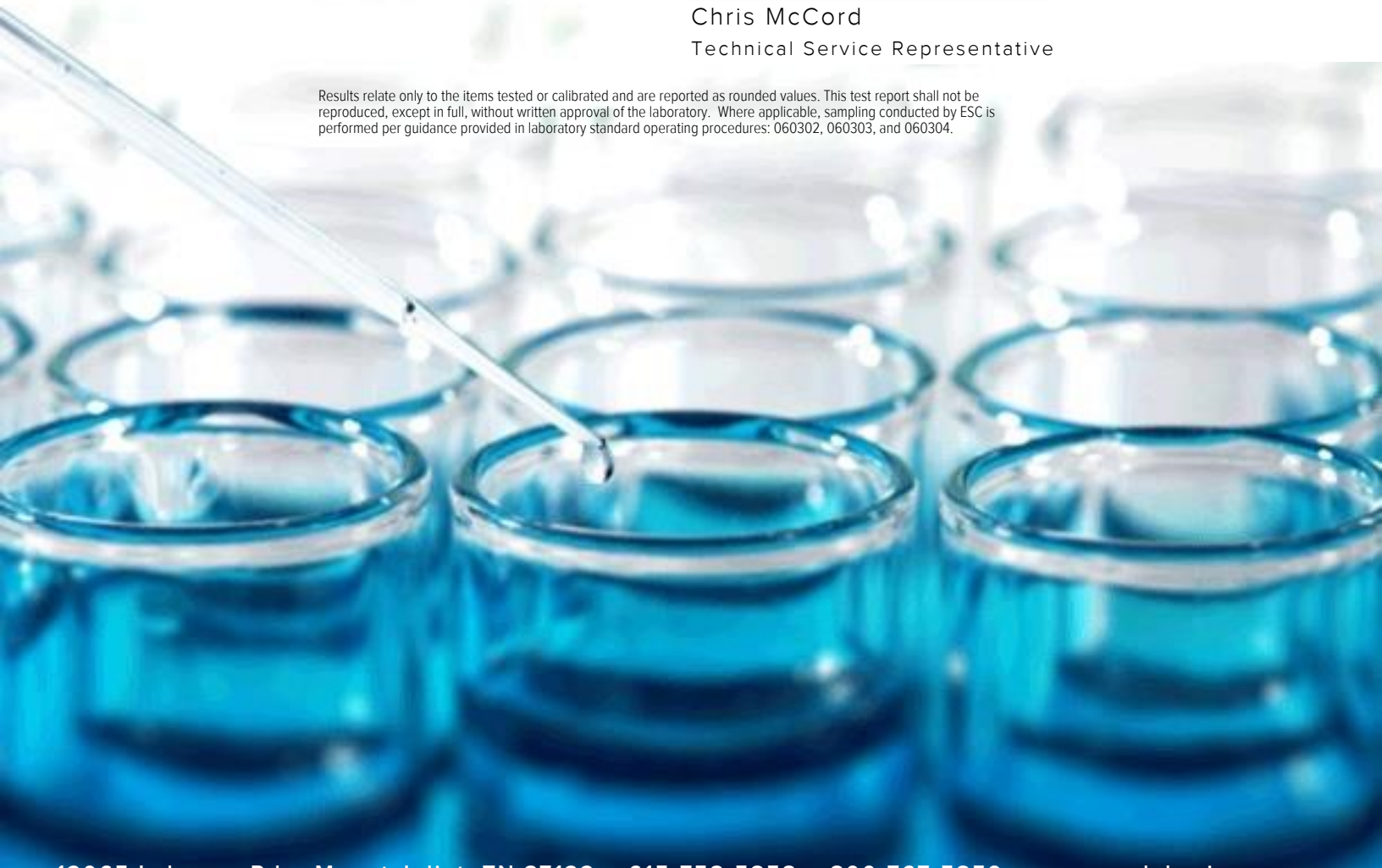
TRC Solutions - Austin, TX

Sample Delivery Group:	L905562
Samples Received:	04/28/2017
Project Number:	249545.0000.0000 000
Description:	EP Spring 2017
Site:	EP NAVAJO-ARTESIA
Report To:	Julie Speer 505 E. Huntland Dr, Ste 250 Austin, TX 78752

Entire Report Reviewed By:

Chris McCord
Technical Service Representative

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 ESC is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.



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MW-76 L905562-01 GW

Collected by: Scott Ude-HMI Team
Collected date/time: 04/26/17 16:40
Received date/time: 04/28/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG974902	1	04/29/17 12:27	04/30/17 11:17	MMF
Wet Chemistry by Method 353.2	WG974950	10	05/02/17 13:27	05/02/17 13:27	DR
Wet Chemistry by Method 9056A	WG975160	1	05/01/17 14:20	05/01/17 14:20	KCF
Wet Chemistry by Method 9056A	WG975160	100	05/01/17 15:07	05/01/17 15:07	KCF
Metals (ICPMS) by Method 6020	WG975066	1	05/03/17 14:24	05/03/17 21:32	VSS
Metals (ICPMS) by Method 6020	WG975075	1	05/02/17 17:03	05/03/17 03:00	LAT
Metals (ICPMS) by Method 6020	WG975075	1	05/02/17 17:03	05/03/17 15:32	VSS
Metals (ICPMS) by Method 6020	WG975075	2	05/02/17 17:03	05/03/17 15:36	VSS
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG974979	1	04/29/17 02:25	04/29/17 02:25	LRL
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975317	1	04/30/17 21:48	04/30/17 21:48	JHH
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG975281	10	05/01/17 22:59	05/06/17 01:53	TRF

MW-77 L905562-02 GW

Collected by: Scott Ude-HMI Team
Collected date/time: 04/26/17 17:25
Received date/time: 04/28/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG974902	1	04/29/17 12:27	04/30/17 11:17	MMF
Wet Chemistry by Method 353.2	WG974950	10	05/02/17 13:28	05/02/17 13:28	DR
Wet Chemistry by Method 9056A	WG975160	1	05/01/17 14:32	05/01/17 14:32	KCF
Wet Chemistry by Method 9056A	WG975160	100	05/01/17 15:18	05/01/17 15:18	KCF
Metals (ICPMS) by Method 6020	WG975066	1	05/03/17 14:24	05/03/17 21:36	VSS
Metals (ICPMS) by Method 6020	WG975075	1	05/02/17 17:03	05/03/17 03:04	LAT
Metals (ICPMS) by Method 6020	WG975075	1	05/02/17 17:03	05/03/17 15:59	VSS
Metals (ICPMS) by Method 6020	WG975075	5	05/02/17 17:03	05/03/17 16:02	VSS
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG974979	5	04/29/17 02:48	04/29/17 02:48	LRL
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975317	10	05/10/17 13:45	05/10/17 13:45	BMB
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG975281	20	05/01/17 22:59	05/06/17 02:11	TRF

MW-78 L905562-03 GW

Collected by: Scott Ude-HMI Team
Collected date/time: 04/26/17 18:05
Received date/time: 04/28/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG974902	1	04/29/17 12:27	04/30/17 11:17	MMF
Wet Chemistry by Method 353.2	WG974950	10	05/02/17 13:29	05/02/17 13:29	DR
Wet Chemistry by Method 9056A	WG975160	1	05/01/17 14:43	05/01/17 14:43	KCF
Wet Chemistry by Method 9056A	WG975160	50	05/01/17 15:30	05/01/17 15:30	KCF
Metals (ICPMS) by Method 6020	WG975066	1	05/03/17 14:24	05/03/17 21:39	VSS
Metals (ICPMS) by Method 6020	WG975075	1	05/02/17 17:03	05/03/17 03:07	LAT
Metals (ICPMS) by Method 6020	WG975075	1	05/02/17 17:03	05/03/17 16:06	VSS
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG974979	10	04/29/17 03:10	04/29/17 03:10	LRL
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975317	10	05/10/17 13:58	05/10/17 13:58	BMB
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG975281	10	05/01/17 22:59	05/06/17 01:02	TRF

MW-75 L905562-04 GW

Collected by: Scott Ude-HMI Team
Collected date/time: 04/26/17 18:50
Received date/time: 04/28/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG974907	1	04/29/17 12:43	04/29/17 14:25	MMF
Wet Chemistry by Method 353.2	WG974950	10	05/02/17 13:30	05/02/17 13:30	DR
Wet Chemistry by Method 9056A	WG975160	1	05/01/17 14:55	05/01/17 14:55	KCF
Wet Chemistry by Method 9056A	WG975160	100	05/01/17 15:42	05/01/17 15:42	KCF
Wet Chemistry by Method 9056A	WG975912	100	05/03/17 14:36	05/03/17 14:36	SAM

MW-75 L905562-04 GW

Collected by: Scott Ude-HMI Team
Collected date/time: 04/26/17 18:50
Received date/time: 04/28/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICPMS) by Method 6020	WG975066	1	05/03/17 14:24	05/03/17 21:43	VSS
Metals (ICPMS) by Method 6020	WG975075	1	05/02/17 17:03	05/03/17 03:11	LAT
Metals (ICPMS) by Method 6020	WG975075	1	05/02/17 17:03	05/03/17 16:09	VSS
Metals (ICPMS) by Method 6020	WG975075	10	05/02/17 17:03	05/03/17 16:13	VSS
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG974979	1	04/29/17 03:32	04/29/17 03:32	LRL
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975317	1	04/30/17 22:54	04/30/17 22:54	JHH
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG975281	10	05/01/17 22:59	05/06/17 01:19	TRF

MW-83 L905562-05 GW

Collected by: Scott Ude-HMI Team
Collected date/time: 04/26/17 15:55
Received date/time: 04/28/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG974907	1	04/29/17 12:43	04/29/17 14:25	MMF
Wet Chemistry by Method 353.2	WG974950	10	05/02/17 13:36	05/02/17 13:36	DR
Wet Chemistry by Method 9056A	WG975161	1	05/01/17 14:36	05/01/17 14:36	SAM
Wet Chemistry by Method 9056A	WG975161	100	05/01/17 15:21	05/01/17 15:21	SAM
Metals (ICPMS) by Method 6020	WG975066	1	05/03/17 14:24	05/03/17 21:46	VSS
Metals (ICPMS) by Method 6020	WG975075	1	05/02/17 17:03	05/03/17 03:14	LAT
Metals (ICPMS) by Method 6020	WG975075	1	05/02/17 17:03	05/03/17 16:16	VSS
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG974979	1	04/29/17 03:54	04/29/17 03:54	LRL
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975317	10	05/10/17 14:11	05/10/17 14:11	BMB
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG975281	10	05/01/17 22:59	05/06/17 01:36	TRF

MW-3 L905562-06 GW

Collected by: Scott Ude-HMI Team
Collected date/time: 04/26/17 14:55
Received date/time: 04/28/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG974907	1	04/29/17 12:43	04/29/17 14:25	MMF
Wet Chemistry by Method 353.2	WG974950	10	05/02/17 13:37	05/02/17 13:37	DR
Wet Chemistry by Method 9056A	WG975161	1	05/01/17 14:50	05/01/17 14:50	SAM
Wet Chemistry by Method 9056A	WG975161	100	05/01/17 15:38	05/01/17 15:38	SAM
Metals (ICPMS) by Method 6020	WG975066	1	05/03/17 14:24	05/03/17 21:50	VSS
Metals (ICPMS) by Method 6020	WG975075	1	05/02/17 17:03	05/03/17 03:18	LAT
Metals (ICPMS) by Method 6020	WG975075	1	05/02/17 17:03	05/03/17 16:20	VSS
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG974979	1	04/29/17 04:17	04/29/17 04:17	LRL
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975317	1	04/30/17 23:38	04/30/17 23:38	JHH
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG975281	1	05/01/17 22:59	05/05/17 03:41	TRF

MW-88 L905562-07 GW

Collected by: Scott Ude-HMI Team
Collected date/time: 04/26/17 10:55
Received date/time: 04/28/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG974907	1	04/29/17 12:43	04/29/17 14:25	MMF
Wet Chemistry by Method 353.2	WG974950	10	05/02/17 13:38	05/02/17 13:38	DR
Wet Chemistry by Method 9056A	WG975161	1	05/01/17 16:39	05/01/17 16:39	SAM
Wet Chemistry by Method 9056A	WG975161	100	05/01/17 15:52	05/01/17 15:52	SAM
Metals (ICPMS) by Method 6020	WG975066	1	05/03/17 14:24	05/03/17 20:51	VSS
Metals (ICPMS) by Method 6020	WG975075	1	05/02/17 17:03	05/03/17 03:21	LAT
Metals (ICPMS) by Method 6020	WG975075	1	05/02/17 17:03	05/03/17 16:23	VSS
Metals (ICPMS) by Method 6020	WG975075	5	05/02/17 17:03	05/03/17 16:26	VSS
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG974979	1	04/29/17 04:39	04/29/17 04:39	LRL
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975317	1	05/01/17 00:00	05/01/17 00:00	JHH
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG975281	1	05/01/17 22:59	05/05/17 04:51	TRF

MW-22A L905562-08 GW

Collected by: Scott Ude-HMI Team
Collected date/time: 04/26/17 11:40
Received date/time: 04/28/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG974907	1	04/29/17 12:43	04/29/17 14:25	MMF
Wet Chemistry by Method 353.2	WG974950	10	05/02/17 13:39	05/02/17 13:39	DR
Wet Chemistry by Method 9056A	WG975161	1	05/01/17 16:54	05/01/17 16:54	SAM
Wet Chemistry by Method 9056A	WG975161	100	05/01/17 17:56	05/01/17 17:56	SAM
Metals (ICPMS) by Method 6020	WG975066	1	05/03/17 14:24	05/03/17 21:53	VSS
Metals (ICPMS) by Method 6020	WG975075	1	05/02/17 17:03	05/03/17 03:25	LAT
Metals (ICPMS) by Method 6020	WG975075	1	05/02/17 17:03	05/03/17 16:30	VSS
Metals (ICPMS) by Method 6020	WG975075	10	05/02/17 17:03	05/03/17 17:10	VSS
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG974979	1	04/29/17 05:01	04/29/17 05:01	LRL
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975317	1	05/01/17 00:22	05/01/17 00:22	JHH
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG975281	1	05/01/17 22:59	05/05/17 05:09	TRF

MW-22B L905562-09 GW

Collected by: Scott Ude-HMI Team
Collected date/time: 04/26/17 12:35
Received date/time: 04/28/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG974907	1	04/29/17 12:43	04/29/17 14:25	MMF
Wet Chemistry by Method 353.2	WG974950	10	05/02/17 13:40	05/02/17 13:40	DR
Wet Chemistry by Method 9056A	WG975161	1	05/01/17 17:25	05/01/17 17:25	SAM
Wet Chemistry by Method 9056A	WG975161	100	05/01/17 18:27	05/01/17 18:27	SAM
Metals (ICPMS) by Method 6020	WG975066	1	05/03/17 14:24	05/03/17 21:57	VSS
Metals (ICPMS) by Method 6020	WG975075	1	05/02/17 17:03	05/03/17 03:29	LAT
Metals (ICPMS) by Method 6020	WG975075	1	05/02/17 17:03	05/03/17 17:14	VSS
Metals (ICPMS) by Method 6020	WG975075	5	05/02/17 17:03	05/03/17 17:17	VSS
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG974979	1	04/29/17 05:23	04/29/17 05:23	LRL
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975317	1	05/01/17 00:43	05/01/17 00:43	JHH
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG975281	1	05/01/17 22:59	05/05/17 05:26	TRF

MW-10 L905562-10 GW

Collected by: Scott Ude-HMI Team
Collected date/time: 04/26/17 13:20
Received date/time: 04/28/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG974907	1	04/29/17 12:43	04/29/17 14:25	MMF
Wet Chemistry by Method 353.2	WG974950	100	05/02/17 14:51	05/02/17 14:51	DR
Wet Chemistry by Method 9056A	WG975161	1	05/01/17 17:41	05/01/17 17:41	SAM
Wet Chemistry by Method 9056A	WG975161	100	05/01/17 18:42	05/01/17 18:42	SAM
Metals (ICPMS) by Method 6020	WG975066	1	05/03/17 14:24	05/03/17 22:00	VSS
Metals (ICPMS) by Method 6020	WG975075	1	05/02/17 17:03	05/03/17 03:32	LAT
Metals (ICPMS) by Method 6020	WG975075	1	05/02/17 17:03	05/03/17 17:21	VSS
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG974979	1	04/29/17 05:45	04/29/17 05:45	LRL
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975317	1	05/01/17 01:05	05/01/17 01:05	JHH
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG975281	1	05/01/17 22:59	05/05/17 05:44	TRF

MW-6A L905562-11 GW

Collected by: Scott Ude-HMI Team
Collected date/time: 04/26/17 18:10
Received date/time: 04/28/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG974907	1	04/29/17 12:43	04/29/17 14:25	MMF
Wet Chemistry by Method 353.2	WG974950	10	05/02/17 13:42	05/02/17 13:42	DR
Wet Chemistry by Method 9056A	WG975161	1	05/01/17 19:29	05/01/17 19:29	SAM
Wet Chemistry by Method 9056A	WG975161	100	05/01/17 20:46	05/01/17 20:46	SAM
Metals (ICPMS) by Method 6020	WG975066	1	05/03/17 14:24	05/03/17 22:04	VSS

MW-6A L905562-11 GW

Collected by: Scott Ude-HMI Team
Collected date/time: 04/26/17 18:10
Received date/time: 04/28/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICPMS) by Method 6020	WG975075	1	05/02/17 17:03	05/03/17 03:43	LAT
Metals (ICPMS) by Method 6020	WG975075	1	05/02/17 17:03	05/03/17 17:24	VSS
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG974979	1	04/29/17 06:07	04/29/17 06:07	LRL
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975317	10	05/10/17 14:24	05/10/17 14:24	BMB
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG975281	5	05/01/17 22:59	05/05/17 15:29	TRF

MW-6B L905562-12 GW

Collected by: Scott Ude-HMI Team
Collected date/time: 04/26/17 18:50
Received date/time: 04/28/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG974907	1	04/29/17 12:43	04/29/17 14:25	MMF
Wet Chemistry by Method 353.2	WG974950	10	05/02/17 13:43	05/02/17 13:43	DR
Wet Chemistry by Method 9056A	WG975161	1	05/01/17 19:44	05/01/17 19:44	SAM
Wet Chemistry by Method 9056A	WG975161	100	05/01/17 21:01	05/01/17 21:01	SAM
Metals (ICPMS) by Method 6020	WG975066	1	05/03/17 14:24	05/03/17 22:23	VSS
Metals (ICPMS) by Method 6020	WG975075	1	05/02/17 17:03	05/03/17 03:46	LAT
Metals (ICPMS) by Method 6020	WG975075	1	05/02/17 17:03	05/03/17 17:28	VSS
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG974979	1	04/29/17 06:30	04/29/17 06:30	LRL
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975317	1	05/01/17 01:49	05/01/17 01:49	JHH
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG975281	1	05/01/17 22:59	05/05/17 16:55	TRF

MW-120 L905562-13 GW

Collected by: Scott Ude-HMI Team
Collected date/time: 04/26/17 17:25
Received date/time: 04/28/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG974907	1	04/29/17 12:43	04/29/17 14:25	MMF
Wet Chemistry by Method 353.2	WG974950	10	05/02/17 13:48	05/02/17 13:48	DR
Wet Chemistry by Method 9056A	WG975161	1	05/01/17 20:00	05/01/17 20:00	SAM
Wet Chemistry by Method 9056A	WG975161	100	05/01/17 21:17	05/01/17 21:17	SAM
Metals (ICPMS) by Method 6020	WG975066	1	05/03/17 14:24	05/03/17 22:26	VSS
Metals (ICPMS) by Method 6020	WG975075	1	05/02/17 17:03	05/03/17 03:50	LAT
Metals (ICPMS) by Method 6020	WG975075	1	05/02/17 17:03	05/03/17 17:31	VSS
Metals (ICPMS) by Method 6020	WG975075	10	05/02/17 17:03	05/03/17 17:35	VSS
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG974979	1	04/29/17 06:52	04/29/17 06:52	LRL
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975317	10	05/10/17 14:37	05/10/17 14:37	BMB
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG975281	1	05/01/17 22:59	05/05/17 06:36	TRF

MW-121 L905562-14 GW

Collected by: Scott Ude-HMI Team
Collected date/time: 04/26/17 16:40
Received date/time: 04/28/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG974911	1	04/29/17 12:56	04/29/17 14:56	MMF
Wet Chemistry by Method 353.2	WG974950	10	05/02/17 13:49	05/02/17 13:49	DR
Wet Chemistry by Method 9056A	WG975161	1	05/01/17 20:15	05/01/17 20:15	SAM
Wet Chemistry by Method 9056A	WG975161	100	05/01/17 21:32	05/01/17 21:32	SAM
Metals (ICPMS) by Method 6020	WG975066	1	05/03/17 14:24	05/03/17 22:30	VSS
Metals (ICPMS) by Method 6020	WG975075	1	05/02/17 17:03	05/03/17 03:54	LAT
Metals (ICPMS) by Method 6020	WG975075	1	05/02/17 17:03	05/03/17 17:38	VSS
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG974979	1	04/29/17 07:14	04/29/17 07:14	LRL
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975317	1	05/01/17 02:33	05/01/17 02:33	JHH
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG975281	1	05/01/17 22:59	05/05/17 06:53	TRF

MW-84 L905562-15 GW

Collected by: Scott Ude-HMI Team
Collected date/time: 04/26/17 14:15
Received date/time: 04/28/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG974911	1	04/29/17 12:56	04/29/17 14:56	MMF
Wet Chemistry by Method 353.2	WG974950	10	05/02/17 13:50	05/02/17 13:50	DR
Wet Chemistry by Method 9056A	WG975161	1	05/01/17 20:30	05/01/17 20:30	SAM
Wet Chemistry by Method 9056A	WG975161	100	05/01/17 21:47	05/01/17 21:47	SAM
Metals (ICPMS) by Method 6020	WG975066	1	05/03/17 14:24	05/03/17 22:33	VSS
Metals (ICPMS) by Method 6020	WG975075	1	05/02/17 17:03	05/03/17 03:57	LAT
Metals (ICPMS) by Method 6020	WG975075	1	05/02/17 17:03	05/03/17 17:42	VSS
Metals (ICPMS) by Method 6020	WG975075	10	05/02/17 17:03	05/03/17 19:34	VSS
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG974979	10	04/29/17 07:36	04/29/17 07:36	LRL
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975317	10	05/10/17 14:50	05/10/17 14:50	BMB
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG975281	20	05/01/17 22:59	05/08/17 16:31	TRF

MW-122 L905562-16 GW

Collected by: Scott Ude-HMI Team
Collected date/time: 04/26/17 15:55
Received date/time: 04/28/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG974911	1	04/29/17 12:56	04/29/17 14:56	MMF
Wet Chemistry by Method 353.2	WG974950	10	05/02/17 13:51	05/02/17 13:51	DR
Wet Chemistry by Method 9056A	WG975161	1	05/01/17 22:34	05/01/17 22:34	SAM
Wet Chemistry by Method 9056A	WG975161	100	05/01/17 23:51	05/01/17 23:51	SAM
Metals (ICPMS) by Method 6020	WG975066	1	05/03/17 14:24	05/03/17 22:37	VSS
Metals (ICPMS) by Method 6020	WG975075	1	05/02/17 17:03	05/03/17 04:01	LAT
Metals (ICPMS) by Method 6020	WG975075	1	05/02/17 17:03	05/03/17 19:37	VSS
Metals (ICPMS) by Method 6020	WG975075	10	05/02/17 17:03	05/03/17 19:40	VSS
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG974979	1	04/29/17 07:59	04/29/17 07:59	LRL
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975317	10	05/10/17 15:03	05/10/17 15:03	BMB
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG975281	1	05/01/17 22:59	05/05/17 07:11	TRF

MW-81 L905562-17 GW

Collected by: Scott Ude-HMI Team
Collected date/time: 04/26/17 13:30
Received date/time: 04/28/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG974911	1	04/29/17 12:56	04/29/17 14:56	MMF
Wet Chemistry by Method 353.2	WG975586	10	05/02/17 15:02	05/02/17 15:02	DR
Wet Chemistry by Method 9056A	WG975161	1	05/01/17 22:49	05/01/17 22:49	SAM
Wet Chemistry by Method 9056A	WG975161	100	05/02/17 00:06	05/02/17 00:06	SAM
Metals (ICPMS) by Method 6020	WG975066	1	05/03/17 14:24	05/03/17 22:40	VSS
Metals (ICPMS) by Method 6020	WG975075	1	05/02/17 17:03	05/03/17 04:04	LAT
Metals (ICPMS) by Method 6020	WG975075	1	05/02/17 17:03	05/03/17 19:44	VSS
Metals (ICPMS) by Method 6020	WG975075	5	05/02/17 17:03	05/03/17 19:48	VSS
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG974979	1	04/29/17 08:21	04/29/17 08:21	LRL
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975317	1	05/01/17 03:40	05/01/17 03:40	JHH
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG975281	1	05/01/17 22:59	05/05/17 07:28	TRF

MW-80 L905562-18 GW

Collected by: Scott Ude-HMI Team
Collected date/time: 04/26/17 12:45
Received date/time: 04/28/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG974911	1	04/29/17 12:56	04/29/17 14:56	MMF
Wet Chemistry by Method 353.2	WG975586	10	05/02/17 15:03	05/02/17 15:03	DR
Wet Chemistry by Method 9056A	WG975161	1	05/01/17 23:04	05/01/17 23:04	SAM
Wet Chemistry by Method 9056A	WG975161	100	05/02/17 00:21	05/02/17 00:21	SAM

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

MW-80 L905562-18 GW

Collected by: Scott Ude-HMI Team
Collected date/time: 04/26/17 12:45
Received date/time: 04/28/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICPMS) by Method 6020	WG975066	1	05/03/17 14:24	05/03/17 22:44	VSS
Metals (ICPMS) by Method 6020	WG975075	1	05/02/17 17:03	05/03/17 04:08	LAT
Metals (ICPMS) by Method 6020	WG975075	1	05/02/17 17:03	05/03/17 19:51	VSS
Metals (ICPMS) by Method 6020	WG975075	5	05/02/17 17:03	05/03/17 19:55	VSS
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG974979	1	04/29/17 08:43	04/29/17 08:43	LRL
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975317	1	05/01/17 04:02	05/01/17 04:02	JHH
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG975281	1	05/01/17 22:59	05/05/17 07:45	TRF

MW-79 L905562-19 GW

Collected by: Scott Ude-HMI Team
Collected date/time: 04/26/17 11:55
Received date/time: 04/28/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG974911	1	04/29/17 12:56	04/29/17 14:56	MMF
Wet Chemistry by Method 353.2	WG975586	10	05/02/17 15:04	05/02/17 15:04	DR
Wet Chemistry by Method 9056A	WG975161	1	05/01/17 23:35	05/01/17 23:35	SAM
Wet Chemistry by Method 9056A	WG975161	100	05/02/17 00:52	05/02/17 00:52	SAM
Metals (ICPMS) by Method 6020	WG975066	1	05/03/17 14:24	05/03/17 22:47	VSS
Metals (ICPMS) by Method 6020	WG975075	1	05/02/17 17:03	05/03/17 02:39	LAT
Metals (ICPMS) by Method 6020	WG975075	1	05/02/17 17:03	05/03/17 15:15	VSS
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG974979	1	04/29/17 09:05	04/29/17 09:05	LRL
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975317	10	05/10/17 15:16	05/10/17 15:16	BMB
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG975281	1	05/01/17 22:59	05/05/17 08:03	TRF

MW-2A L905562-20 GW

Collected by: Scott Ude-HMI Team
Collected date/time: 04/26/17 15:00
Received date/time: 04/28/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG974911	1	04/29/17 12:56	04/29/17 14:56	MMF
Wet Chemistry by Method 353.2	WG975586	1	05/02/17 15:05	05/02/17 15:05	DR
Wet Chemistry by Method 9056A	WG975161	1	05/02/17 01:39	05/02/17 01:39	SAM
Wet Chemistry by Method 9056A	WG975161	100	05/02/17 02:56	05/02/17 02:56	SAM
Metals (ICPMS) by Method 6020	WG975066	1	05/03/17 14:24	05/03/17 22:51	VSS
Metals (ICPMS) by Method 6020	WG975075	1	05/02/17 17:03	05/03/17 04:11	LAT
Metals (ICPMS) by Method 6020	WG975075	1	05/02/17 17:03	05/03/17 19:58	VSS
Metals (ICPMS) by Method 6020	WG975075	20	05/02/17 17:03	05/03/17 20:02	VSS
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG974979	1	04/29/17 09:27	04/29/17 09:27	LRL
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975317	10	05/10/17 15:29	05/10/17 15:29	BMB
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG975281	1	05/01/17 22:59	05/05/17 17:13	TRF

MW-123 L905562-21 GW

Collected by: Scott Ude-HMI Team
Collected date/time: 04/26/17 14:05
Received date/time: 04/28/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG974911	1	04/29/17 12:56	04/29/17 14:56	MMF
Wet Chemistry by Method 353.2	WG975586	1	05/02/17 15:06	05/02/17 15:06	DR
Wet Chemistry by Method 9056A	WG975161	1	05/02/17 01:54	05/02/17 01:54	SAM
Wet Chemistry by Method 9056A	WG975161	100	05/02/17 03:11	05/02/17 03:11	SAM
Metals (ICPMS) by Method 6020	WG975080	1	05/02/17 08:59	05/03/17 14:19	RDS
Metals (ICPMS) by Method 6020	WG975080	10	05/02/17 08:59	05/03/17 18:02	VSS
Metals (ICPMS) by Method 6020	WG978287	1	05/10/17 12:38	05/10/17 15:51	VSS
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG974980	1	04/28/17 22:08	04/28/17 22:08	DWR
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975485	1	05/01/17 23:28	05/01/17 23:28	JHH
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG975280	1	05/01/17 22:59	05/04/17 21:52	TRF

MW-4A L905562-22 GW

Collected by: Scott Ude-HMI Team
Collected date/time: 04/26/17 09:25
Received date/time: 04/28/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG974911	1	04/29/17 12:56	04/29/17 14:56	MMF
Wet Chemistry by Method 353.2	WG975586	1	05/02/17 15:12	05/02/17 15:12	DR
Wet Chemistry by Method 9056A	WG975161	1	05/02/17 02:40	05/02/17 02:40	SAM
Wet Chemistry by Method 9056A	WG975161	100	05/02/17 03:26	05/02/17 03:26	SAM
Metals (ICPMS) by Method 6020	WG975080	1	05/02/17 08:59	05/03/17 14:34	VSS
Metals (ICPMS) by Method 6020	WG975080	5	05/02/17 08:59	05/03/17 18:06	VSS
Metals (ICPMS) by Method 6020	WG978287	1	05/10/17 12:38	05/10/17 15:54	VSS
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG974980	1	04/28/17 22:32	04/28/17 22:32	DWR
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975485	1	05/01/17 23:45	05/01/17 23:45	JHH
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG975280	1	05/01/17 22:59	05/04/17 22:09	TRF

MW-4B L905562-23 GW

Collected by: Scott Ude-HMI Team
Collected date/time: 04/26/17 10:10
Received date/time: 04/28/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG974911	1	04/29/17 12:56	04/29/17 14:56	MMF
Wet Chemistry by Method 353.2	WG975586	1	05/02/17 15:13	05/02/17 15:13	DR
Wet Chemistry by Method 9056A	WG975161	1	05/02/17 04:13	05/02/17 04:13	SAM
Wet Chemistry by Method 9056A	WG975161	100	05/02/17 04:44	05/02/17 04:44	SAM
Metals (ICPMS) by Method 6020	WG975080	1	05/02/17 08:59	05/03/17 14:37	VSS
Metals (ICPMS) by Method 6020	WG975080	5	05/02/17 08:59	05/03/17 18:21	VSS
Metals (ICPMS) by Method 6020	WG978287	1	05/10/17 12:38	05/10/17 16:06	VSS
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG974980	1	04/28/17 22:56	04/28/17 22:56	DWR
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975485	1	05/02/17 00:02	05/02/17 00:02	JHH
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG975280	1	05/01/17 22:59	05/04/17 22:27	TRF

MW-1R L905562-24 GW

Collected by: Scott Ude-HMI Team
Collected date/time: 04/26/17 16:00
Received date/time: 04/28/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG975257	1	05/01/17 16:45	05/01/17 17:17	AS
Wet Chemistry by Method 353.2	WG975586	10	05/02/17 15:15	05/02/17 15:15	DR
Wet Chemistry by Method 9056A	WG975161	1	05/02/17 04:28	05/02/17 04:28	SAM
Wet Chemistry by Method 9056A	WG975161	100	05/02/17 04:59	05/02/17 04:59	SAM
Metals (ICPMS) by Method 6020	WG975080	1	05/02/17 08:59	05/03/17 14:53	RDS
Metals (ICPMS) by Method 6020	WG975080	10	05/02/17 08:59	05/03/17 18:24	VSS
Metals (ICPMS) by Method 6020	WG978287	1	05/10/17 12:38	05/10/17 16:10	VSS
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975485	1	05/02/17 00:19	05/02/17 00:19	JHH
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG975280	1	05/01/17 22:59	05/05/17 00:12	TRF

MW-15 L905562-25 GW

Collected by: Scott Ude-HMI Team
Collected date/time: 04/26/17 16:50
Received date/time: 04/28/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG975257	1	05/01/17 16:45	05/01/17 17:17	AS
Wet Chemistry by Method 353.2	WG975586	10	05/02/17 15:16	05/02/17 15:16	DR
Wet Chemistry by Method 9056A	WG975327	1	04/30/17 22:36	04/30/17 22:36	KCF
Wet Chemistry by Method 9056A	WG975327	50	04/30/17 23:21	04/30/17 23:21	KCF
Metals (ICPMS) by Method 6020	WG975080	1	05/02/17 08:59	05/03/17 14:57	JDG
Metals (ICPMS) by Method 6020	WG978287	1	05/10/17 12:38	05/10/17 16:13	VSS
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG974980	1	04/28/17 23:20	04/28/17 23:20	DWR
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975485	1	05/02/17 00:36	05/02/17 00:36	JHH
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG975280	1	05/01/17 22:59	05/05/17 00:29	TRF

OCD-1R L905562-26 GW

Collected by: Scott Ude-HMI Team
Collected date/time: 04/26/17 14:25
Received date/time: 04/28/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG975257	1	05/01/17 16:45	05/01/17 17:17	AS
Wet Chemistry by Method 353.2	WG975586	10	05/02/17 15:17	05/02/17 15:17	DR
Wet Chemistry by Method 9056A	WG975327	1	04/30/17 23:06	04/30/17 23:06	KCF
Wet Chemistry by Method 9056A	WG975327	100	04/30/17 23:37	04/30/17 23:37	KCF
Metals (ICPMS) by Method 6020	WG975080	1	05/02/17 08:59	05/03/17 15:00	RDS
Metals (ICPMS) by Method 6020	WG975080	10	05/02/17 08:59	05/03/17 18:28	VSS
Metals (ICPMS) by Method 6020	WG978287	1	05/10/17 12:38	05/10/17 16:17	VSS
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG974980	1	04/28/17 23:44	04/28/17 23:44	DWR
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975485	1	05/02/17 00:52	05/02/17 00:52	JHH
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG975280	1	05/01/17 22:59	05/05/17 00:47	TRF

OCD-2A L905562-27 GW

Collected by: Scott Ude-HMI Team
Collected date/time: 04/26/17 13:40
Received date/time: 04/28/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG975257	1	05/01/17 16:45	05/01/17 17:17	AS
Wet Chemistry by Method 353.2	WG975586	10	05/02/17 15:19	05/02/17 15:19	DR
Wet Chemistry by Method 9056A	WG975327	1	05/01/17 00:39	05/01/17 00:39	KCF
Wet Chemistry by Method 9056A	WG975327	100	04/30/17 23:52	04/30/17 23:52	KCF
Metals (ICPMS) by Method 6020	WG975080	1	05/02/17 08:59	05/03/17 15:04	RDS
Metals (ICPMS) by Method 6020	WG975080	5	05/02/17 08:59	05/03/17 18:32	VSS
Metals (ICPMS) by Method 6020	WG978287	1	05/10/17 12:38	05/10/17 16:21	VSS
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG974980	1	04/29/17 00:08	04/29/17 00:08	DWR
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975485	1	05/02/17 01:09	05/02/17 01:09	JHH
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG975280	1	05/01/17 22:59	05/05/17 01:04	TRF

OCD-3 L905562-28 GW

Collected by: Scott Ude-HMI Team
Collected date/time: 04/26/17 12:50
Received date/time: 04/28/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG975257	1	05/01/17 16:45	05/01/17 17:17	AS
Wet Chemistry by Method 353.2	WG975586	10	05/02/17 15:24	05/02/17 15:24	DR
Wet Chemistry by Method 9056A	WG975327	1	05/01/17 00:54	05/01/17 00:54	KCF
Wet Chemistry by Method 9056A	WG975327	100	05/01/17 01:56	05/01/17 01:56	KCF
Metals (ICPMS) by Method 6020	WG975080	1	05/02/17 08:59	05/03/17 15:07	RDS
Metals (ICPMS) by Method 6020	WG975080	10	05/02/17 08:59	05/03/17 18:35	VSS
Metals (ICPMS) by Method 6020	WG978287	1	05/10/17 12:38	05/10/17 16:24	VSS
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG974980	1	04/29/17 00:32	04/29/17 00:32	DWR
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975485	1	05/02/17 01:26	05/02/17 01:26	JHH
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG975280	1	05/01/17 22:59	05/05/17 01:22	TRF

OCD-4 L905562-29 GW

Collected by: Scott Ude-HMI Team
Collected date/time: 04/26/17 09:50
Received date/time: 04/28/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG975257	1	05/01/17 16:45	05/01/17 17:17	AS
Wet Chemistry by Method 353.2	WG975586	1	05/02/17 15:25	05/02/17 15:25	DR
Wet Chemistry by Method 9056A	WG975327	1	05/01/17 01:10	05/01/17 01:10	KCF
Wet Chemistry by Method 9056A	WG975327	100	05/01/17 02:11	05/01/17 02:11	KCF
Metals (ICPMS) by Method 6020	WG975080	1	05/02/17 08:59	05/03/17 15:11	RDS
Metals (ICPMS) by Method 6020	WG975080	20	05/02/17 08:59	05/03/17 18:39	VSS
Metals (ICPMS) by Method 6020	WG978287	1	05/10/17 12:38	05/10/17 16:28	VSS

OCD-4 L905562-29 GW

Collected by: Scott Ude-HMI Team
Collected date/time: 04/26/17 09:50
Received date/time: 04/28/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG974980	1	04/29/17 00:56	04/29/17 00:56	DWR
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975485	1	05/02/17 01:43	05/02/17 01:43	JHH
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG975280	1	05/01/17 22:59	05/05/17 01:39	TRF

MW-11A L905562-30 GW

Collected by: Scott Ude-HMI Team
Collected date/time: 04/26/17 11:20
Received date/time: 04/28/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG975257	1	05/01/17 16:45	05/01/17 17:17	AS
Wet Chemistry by Method 353.2	WG975586	10	05/02/17 15:27	05/02/17 15:27	DR
Wet Chemistry by Method 9056A	WG975327	1	05/01/17 01:25	05/01/17 01:25	KCF
Wet Chemistry by Method 9056A	WG975327	500	05/01/17 02:27	05/01/17 02:27	KCF
Metals (ICPMS) by Method 6020	WG975080	1	05/02/17 08:59	05/03/17 15:14	RDS
Metals (ICPMS) by Method 6020	WG975080	50	05/02/17 08:59	05/03/17 18:43	RDS
Metals (ICPMS) by Method 6020	WG978287	1	05/10/17 12:38	05/10/17 16:31	VSS
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG974980	1	04/29/17 01:21	04/29/17 01:21	DWR
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975485	1	05/02/17 02:00	05/02/17 02:00	JHH
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG975280	1	05/01/17 22:59	05/05/17 01:56	TRF

MW-11B L905562-31 GW

Collected by: Scott Ude-HMI Team
Collected date/time: 04/26/17 12:05
Received date/time: 04/28/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG975257	1	05/01/17 16:45	05/01/17 17:17	AS
Wet Chemistry by Method 353.2	WG975586	10	05/02/17 15:28	05/02/17 15:28	DR
Wet Chemistry by Method 9056A	WG975327	1	05/01/17 01:40	05/01/17 01:40	KCF
Wet Chemistry by Method 9056A	WG975327	100	05/01/17 02:42	05/01/17 02:42	KCF
Metals (ICPMS) by Method 6020	WG975080	1	05/02/17 08:59	05/03/17 15:18	RDS
Metals (ICPMS) by Method 6020	WG975080	50	05/02/17 08:59	05/03/17 18:46	VSS
Metals (ICPMS) by Method 6020	WG978287	1	05/10/17 12:38	05/10/17 16:35	VSS
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG974980	1	04/29/17 01:45	04/29/17 01:45	DWR
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975485	1	05/02/17 02:16	05/02/17 02:16	JHH
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG975280	1	05/01/17 22:59	05/05/17 02:14	TRF

OCD-5 L905562-32 GW

Collected by: Scott Ude-HMI Team
Collected date/time: 04/26/17 10:35
Received date/time: 04/28/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG975257	1	05/01/17 16:45	05/01/17 17:17	AS
Wet Chemistry by Method 353.2	WG975586	10	05/02/17 15:29	05/02/17 15:29	DR
Wet Chemistry by Method 9056A	WG975327	1	05/01/17 03:28	05/01/17 03:28	KCF
Wet Chemistry by Method 9056A	WG975327	100	05/01/17 05:16	05/01/17 05:16	KCF
Metals (ICPMS) by Method 6020	WG975080	1	05/02/17 08:59	05/03/17 15:22	RDS
Metals (ICPMS) by Method 6020	WG975080	20	05/02/17 08:59	05/03/17 18:50	VSS
Metals (ICPMS) by Method 6020	WG978287	1	05/10/17 12:38	05/10/17 16:38	VSS
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG974980	1	04/29/17 02:09	04/29/17 02:09	DWR
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975485	1	05/02/17 02:33	05/02/17 02:33	JHH
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG975280	1	05/01/17 22:59	05/05/17 02:31	TRF

DUP-EP-02 L905562-33 GW

Collected by: Scott Ude-HMI Team
Collected date/time: 04/26/17 09:00
Received date/time: 04/28/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG975502	1	05/02/17 11:43	05/02/17 11:45	AS
Wet Chemistry by Method 353.2	WG975586	1	05/02/17 15:30	05/02/17 15:30	DR
Wet Chemistry by Method 9056A	WG975327	1	05/01/17 03:44	05/01/17 03:44	KCF
Wet Chemistry by Method 9056A	WG975327	100	05/01/17 05:32	05/01/17 05:32	KCF
Metals (ICPMS) by Method 6020	WG975080	1	05/02/17 08:59	05/03/17 17:09	RDS
Metals (ICPMS) by Method 6020	WG975080	10	05/02/17 08:59	05/03/17 18:53	VSS
Metals (ICPMS) by Method 6020	WG978287	1	05/10/17 12:38	05/10/17 16:58	VSS
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG974980	1	04/29/17 02:33	04/29/17 02:33	DWR
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975485	1	05/02/17 02:50	05/02/17 02:50	JHH
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG975280	1	05/01/17 22:59	05/05/17 02:49	TRF

DUP-EP-03 L905562-34 GW

Collected by: Scott Ude-HMI Team
Collected date/time: 04/26/17 10:00
Received date/time: 04/28/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG975502	1	05/02/17 11:43	05/02/17 11:45	AS
Wet Chemistry by Method 353.2	WG975586	1	05/02/17 15:31	05/02/17 15:31	DR
Wet Chemistry by Method 9056A	WG975327	1	05/01/17 06:18	05/01/17 06:18	KCF
Wet Chemistry by Method 9056A	WG975327	100	05/01/17 03:59	05/01/17 03:59	KCF
Metals (ICPMS) by Method 6020	WG975080	1	05/02/17 08:59	05/03/17 17:13	RDS
Metals (ICPMS) by Method 6020	WG975080	5	05/02/17 08:59	05/03/17 19:35	VSS
Metals (ICPMS) by Method 6020	WG978287	1	05/10/17 12:38	05/10/17 17:01	VSS
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG974980	1	04/29/17 02:57	04/29/17 02:57	DWR
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975485	1	05/02/17 03:07	05/02/17 03:07	JHH
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG975280	1	05/01/17 22:59	05/05/17 03:06	TRF

EB-EP-04 L905562-35 GW

Collected by: Scott Ude-HMI Team
Collected date/time: 04/26/17 12:10
Received date/time: 04/28/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG975502	1	05/02/17 11:43	05/02/17 11:45	AS
Wet Chemistry by Method 353.2	WG975586	1	05/02/17 15:36	05/02/17 15:36	DR
Wet Chemistry by Method 9056A	WG975327	1	05/01/17 04:14	05/01/17 04:14	KCF
Metals (ICPMS) by Method 6020	WG975080	1	05/02/17 08:59	05/03/17 17:16	JDG
Metals (ICPMS) by Method 6020	WG978287	1	05/10/17 12:38	05/10/17 17:05	VSS
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG974980	1	04/29/17 03:21	04/29/17 03:21	DWR
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975485	1	05/02/17 03:24	05/02/17 03:24	JHH
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG975280	1	05/01/17 22:59	05/05/17 12:01	TRF

TRIP BLANK-EP-03 L905562-36 GW

Collected by: Scott Ude-HMI Team
Collected date/time: 04/26/17 00:00
Received date/time: 04/28/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975485	1	05/01/17 22:04	05/01/17 22:04	JHH

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times. 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
Technical Service Representative

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Dissolved Solids	5750		2.82	10.0	1	04/30/2017 11:17	WG974902

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	U		0.197	1.00	10	05/02/2017 13:27	WG974950

Sample Narrative:

353.2 L905562-01 WG974950: 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	1380		5.19	100	100	05/01/2017 15:07	WG975160
Fluoride	2.54		0.00990	0.100	1	05/01/2017 14:20	WG975160
Sulfate	2850		7.74	500	100	05/01/2017 15:07	WG975160

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.0561		0.000250	0.00200	1	05/03/2017 03:00	WG975075
Arsenic,Dissolved	0.0458		0.000250	0.00200	1	05/03/2017 21:32	WG975066
Barium	0.0120		0.000360	0.00500	1	05/03/2017 03:00	WG975075
Barium,Dissolved	0.0116		0.000360	0.00500	1	05/03/2017 21:32	WG975066
Calcium	485		0.0460	1.00	1	05/03/2017 03:00	WG975075
Chromium	U		0.000540	0.00200	1	05/03/2017 15:32	WG975075
Chromium,Dissolved	U		0.000540	0.00200	1	05/03/2017 21:32	WG975066
Iron	4.06		0.0150	0.100	1	05/03/2017 15:32	WG975075
Iron,Dissolved	0.0501	J	0.0150	0.100	1	05/03/2017 21:32	WG975066
Lead	U		0.000240	0.00200	1	05/03/2017 03:00	WG975075
Lead,Dissolved	U		0.000240	0.00200	1	05/03/2017 21:32	WG975066
Manganese	0.780		0.000250	0.00500	1	05/03/2017 03:00	WG975075
Manganese,Dissolved	0.824		0.000250	0.00500	1	05/03/2017 21:32	WG975066
Potassium	25.9		0.0370	1.00	1	05/03/2017 03:00	WG975075
Selenium	0.00327		0.000380	0.00200	1	05/03/2017 03:00	WG975075
Selenium,Dissolved	0.00325		0.000380	0.00200	1	05/03/2017 21:32	WG975066
Sodium	969		0.220	2.00	2	05/03/2017 15:36	WG975075

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	1.02		0.0314	0.100	1	04/29/2017 02:25	WG974979
(S) a,a,a-Trifluorotoluene(FID)	*99.6*			*77.0-122*		*04/29/2017 02:25*	WG974979

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		0.0100	0.0500	1	04/30/2017 21:48	WG975317
Benzene	U		0.000331	0.00100	1	04/30/2017 21:48	WG975317
Bromodichloromethane	U		0.000380	0.00100	1	04/30/2017 21:48	WG975317
Bromoform	U		0.000469	0.00100	1	04/30/2017 21:48	WG975317
Bromomethane	U		0.000866	0.00500	1	04/30/2017 21:48	WG975317
n-Butylbenzene	U		0.000361	0.00100	1	04/30/2017 21:48	WG975317

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		0.000365	0.00100	1	04/30/2017 21:48	WG975317
Carbon disulfide	U		0.000275	0.00100	1	04/30/2017 21:48	WG975317
Carbon tetrachloride	U		0.000379	0.00100	1	04/30/2017 21:48	WG975317
Chlorobenzene	U		0.000348	0.00100	1	04/30/2017 21:48	WG975317
Chlorodibromomethane	U		0.000327	0.00100	1	04/30/2017 21:48	WG975317
Chloroethane	U		0.000453	0.00500	1	04/30/2017 21:48	WG975317
Chloroform	U		0.000324	0.00500	1	04/30/2017 21:48	WG975317
Chloromethane	U		0.000276	0.00250	1	04/30/2017 21:48	WG975317
1,2-Dibromoethane	U		0.000381	0.00100	1	04/30/2017 21:48	WG975317
1,1-Dichloroethane	U		0.000259	0.00100	1	04/30/2017 21:48	WG975317
1,2-Dichloroethane	U		0.000361	0.00100	1	04/30/2017 21:48	WG975317
1,1-Dichloroethene	U		0.000398	0.00100	1	04/30/2017 21:48	WG975317
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	04/30/2017 21:48	WG975317
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	04/30/2017 21:48	WG975317
1,2-Dichloropropane	U		0.000306	0.00100	1	04/30/2017 21:48	WG975317
cis-1,3-Dichloropropene	U		0.000418	0.00100	1	04/30/2017 21:48	WG975317
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	04/30/2017 21:48	WG975317
Ethylbenzene	U		0.000384	0.00100	1	04/30/2017 21:48	WG975317
Isopropylbenzene	0.0127		0.000326	0.00100	1	04/30/2017 21:48	WG975317
p-Isopropyltoluene	U		0.000350	0.00100	1	04/30/2017 21:48	WG975317
2-Butanone (MEK)	U		0.00393	0.0100	1	04/30/2017 21:48	WG975317
2-Hexanone	U		0.00382	0.0100	1	04/30/2017 21:48	WG975317
Methylene Chloride	U		0.00100	0.00500	1	04/30/2017 21:48	WG975317
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	04/30/2017 21:48	WG975317
Methyl tert-butyl ether	0.0130		0.000367	0.00100	1	04/30/2017 21:48	WG975317
Naphthalene	U		0.00100	0.00500	1	04/30/2017 21:48	WG975317
n-Propylbenzene	0.000438	J	0.000349	0.00100	1	04/30/2017 21:48	WG975317
Styrene	U		0.000307	0.00100	1	04/30/2017 21:48	WG975317
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	04/30/2017 21:48	WG975317
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	04/30/2017 21:48	WG975317
Tetrachloroethene	U		0.000372	0.00100	1	04/30/2017 21:48	WG975317
Toluene	U		0.000412	0.00100	1	04/30/2017 21:48	WG975317
1,1,1-Trichloroethane	U		0.000319	0.00100	1	04/30/2017 21:48	WG975317
1,1,2-Trichloroethane	U		0.000383	0.00100	1	04/30/2017 21:48	WG975317
Trichloroethene	U		0.000398	0.00100	1	04/30/2017 21:48	WG975317
1,2,4-Trimethylbenzene	U		0.000373	0.00100	1	04/30/2017 21:48	WG975317
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	04/30/2017 21:48	WG975317
Vinyl chloride	U		0.000259	0.00100	1	04/30/2017 21:48	WG975317
o-Xylene	U		0.000341	0.00100	1	04/30/2017 21:48	WG975317
m&p-Xylene	U		0.000719	0.00200	1	04/30/2017 21:48	WG975317
Xylenes, Total	U		0.00106	0.00300	1	04/30/2017 21:48	WG975317
(S) Toluene-d8	*109*			*80.0-120*		*04/30/2017 21:48*	WG975317
(S) Dibromofluoromethane	*119*			*76.0-123*		*04/30/2017 21:48*	WG975317
(S) 4-Bromofluorobenzene	*95.4*			*80.0-120*		*04/30/2017 21:48*	WG975317

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	31.1		0.247	1.00	10	05/06/2017 01:53	WG975281
(S) o-Terphenyl	*62.1*			*31.0-160*		*05/06/2017 01:53*	WG975281

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Dissolved Solids	6950		2.82	10.0	1	04/30/2017 11:17	WG974902

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	U		0.197	1.00	10	05/02/2017 13:28	WG974950

Sample Narrative:

353.2 L905562-02 WG974950: 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	393		5.19	100	100	05/01/2017 15:18	WG975160
Fluoride	2.43		0.00990	0.100	1	05/01/2017 14:32	WG975160
Sulfate	4900		7.74	500	100	05/01/2017 15:18	WG975160

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.0466		0.000250	0.00200	1	05/03/2017 03:04	WG975075
Arsenic,Dissolved	0.0336		0.000250	0.00200	1	05/03/2017 21:36	WG975066
Barium	0.0100		0.000360	0.00500	1	05/03/2017 03:04	WG975075
Barium,Dissolved	0.0101		0.000360	0.00500	1	05/03/2017 21:36	WG975066
Calcium	534		0.0460	1.00	1	05/03/2017 03:04	WG975075
Chromium	0.00752		0.000540	0.00200	1	05/03/2017 15:59	WG975075
Chromium,Dissolved	0.00772		0.000540	0.00200	1	05/03/2017 21:36	WG975066
Iron	7.88		0.0150	0.100	1	05/03/2017 15:59	WG975075
Iron,Dissolved	0.158		0.0150	0.100	1	05/03/2017 21:36	WG975066
Lead	U		0.000240	0.00200	1	05/03/2017 03:04	WG975075
Lead,Dissolved	U		0.000240	0.00200	1	05/03/2017 21:36	WG975066
Manganese	0.521		0.000250	0.00500	1	05/03/2017 03:04	WG975075
Manganese,Dissolved	0.563		0.000250	0.00500	1	05/03/2017 21:36	WG975066
Potassium	67.1		0.0370	1.00	1	05/03/2017 03:04	WG975075
Selenium	0.0106		0.000380	0.00200	1	05/03/2017 03:04	WG975075
Selenium,Dissolved	0.0101		0.000380	0.00200	1	05/03/2017 21:36	WG975066
Sodium	1280		0.550	5.00	5	05/03/2017 16:02	WG975075

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	1.11		0.157	0.500	5	04/29/2017 02:48	WG974979
(S) a,a,a-Trifluorotoluene(FID)	*97.8*			*77.0-122*		*04/29/2017 02:48*	WG974979

Sample Narrative:

8015D/GRO L905562-02 WG974979: 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		0.100	0.500	10	05/10/2017 13:45	WG975317
Benzene	U		0.00331	0.0100	10	05/10/2017 13:45	WG975317
Bromodichloromethane	U		0.00380	0.0100	10	05/10/2017 13:45	WG975317

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

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Bromoform	U		0.00469	0.0100	10	05/10/2017 13:45	WG975317
Bromomethane	U		0.00866	0.0500	10	05/10/2017 13:45	WG975317
n-Butylbenzene	U		0.00361	0.0100	10	05/10/2017 13:45	WG975317
sec-Butylbenzene	0.00382	J	0.00365	0.0100	10	05/10/2017 13:45	WG975317
Carbon disulfide	U		0.00275	0.0100	10	05/10/2017 13:45	WG975317
Carbon tetrachloride	U		0.00379	0.0100	10	05/10/2017 13:45	WG975317
Chlorobenzene	U		0.00348	0.0100	10	05/10/2017 13:45	WG975317
Chlorodibromomethane	U		0.00327	0.0100	10	05/10/2017 13:45	WG975317
Chloroethane	U		0.00453	0.0500	10	05/10/2017 13:45	WG975317
Chloroform	U		0.00324	0.0500	10	05/10/2017 13:45	WG975317
Chloromethane	U		0.00276	0.0250	10	05/10/2017 13:45	WG975317
1,2-Dibromoethane	U		0.00381	0.0100	10	05/10/2017 13:45	WG975317
1,1-Dichloroethane	U		0.00259	0.0100	10	05/10/2017 13:45	WG975317
1,2-Dichloroethane	U		0.00361	0.0100	10	05/10/2017 13:45	WG975317
1,1-Dichloroethene	U		0.00398	0.0100	10	05/10/2017 13:45	WG975317
cis-1,2-Dichloroethene	U		0.00260	0.0100	10	05/10/2017 13:45	WG975317
trans-1,2-Dichloroethene	U		0.00396	0.0100	10	05/10/2017 13:45	WG975317
1,2-Dichloropropane	U		0.00306	0.0100	10	05/10/2017 13:45	WG975317
cis-1,3-Dichloropropene	U		0.00418	0.0100	10	05/10/2017 13:45	WG975317
trans-1,3-Dichloropropene	U		0.00419	0.0100	10	05/10/2017 13:45	WG975317
Ethylbenzene	U		0.00384	0.0100	10	05/10/2017 13:45	WG975317
Isopropylbenzene	0.0207		0.00326	0.0100	10	05/10/2017 13:45	WG975317
p-Isopropyltoluene	U		0.00350	0.0100	10	05/10/2017 13:45	WG975317
2-Butanone (MEK)	U		0.0393	0.100	10	05/10/2017 13:45	WG975317
2-Hexanone	U		0.0382	0.100	10	05/10/2017 13:45	WG975317
Methylene Chloride	U		0.0100	0.0500	10	05/10/2017 13:45	WG975317
4-Methyl-2-pentanone (MIBK)	U		0.0214	0.100	10	05/10/2017 13:45	WG975317
Methyl tert-butyl ether	0.00452	J	0.00367	0.0100	10	05/10/2017 13:45	WG975317
Naphthalene	U		0.0100	0.0500	10	05/10/2017 13:45	WG975317
n-Propylbenzene	0.00565	J	0.00349	0.0100	10	05/10/2017 13:45	WG975317
Styrene	U		0.00307	0.0100	10	05/10/2017 13:45	WG975317
1,1,1,2-Tetrachloroethane	U		0.00385	0.0100	10	05/10/2017 13:45	WG975317
1,1,2,2-Tetrachloroethane	U		0.00130	0.0100	10	05/10/2017 13:45	WG975317
Tetrachloroethene	U		0.00372	0.0100	10	05/10/2017 13:45	WG975317
Toluene	U		0.00412	0.0100	10	05/10/2017 13:45	WG975317
1,1,1-Trichloroethane	U		0.00319	0.0100	10	05/10/2017 13:45	WG975317
1,1,2-Trichloroethane	U		0.00383	0.0100	10	05/10/2017 13:45	WG975317
Trichloroethene	U		0.00398	0.0100	10	05/10/2017 13:45	WG975317
1,2,4-Trimethylbenzene	0.00384	J	0.00373	0.0100	10	05/10/2017 13:45	WG975317
1,3,5-Trimethylbenzene	U		0.00387	0.0100	10	05/10/2017 13:45	WG975317
Vinyl chloride	U		0.00259	0.0100	10	05/10/2017 13:45	WG975317
o-Xylene	U		0.00341	0.0100	10	05/10/2017 13:45	WG975317
m&p-Xylene	U		0.00719	0.0200	10	05/10/2017 13:45	WG975317
Xylenes, Total	U		0.0106	0.0300	10	05/10/2017 13:45	WG975317
(S) Toluene-d8	*104*			*80.0-120*		*05/10/2017 13:45*	WG975317
(S) Dibromofluoromethane	*103*			*76.0-123*		*05/10/2017 13:45*	WG975317
(S) 4-Bromofluorobenzene	*98.1*			*80.0-120*		*05/10/2017 13:45*	WG975317

Sample Narrative:

8260B L905562-02 WG975317: 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	57.5		0.494	2.00	20	05/06/2017 02:11	WG975281
(S) o-Terphenyl	*34.2*	J7		*31.0-160*		*05/06/2017 02:11*	WG975281

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Dissolved Solids	4290		2.82	10.0	1	04/30/2017 11:17	WG974902

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	0.372	J	0.197	1.00	10	05/02/2017 13:29	WG974950

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	98.0		0.0519	1.00	1	05/01/2017 14:43	WG975160
Fluoride	9.91		0.00990	0.100	1	05/01/2017 14:43	WG975160
Sulfate	2640		3.87	250	50	05/01/2017 15:30	WG975160

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.00820		0.000250	0.00200	1	05/03/2017 03:07	WG975075
Arsenic,Dissolved	0.00661		0.000250	0.00200	1	05/03/2017 21:39	WG975066
Barium	0.0388		0.000360	0.00500	1	05/03/2017 03:07	WG975075
Barium,Dissolved	0.0411		0.000360	0.00500	1	05/03/2017 21:39	WG975066
Calcium	537		0.0460	1.00	1	05/03/2017 03:07	WG975075
Chromium	0.0422		0.000540	0.00200	1	05/03/2017 16:06	WG975075
Chromium,Dissolved	0.0388		0.000540	0.00200	1	05/03/2017 21:39	WG975066
Iron	0.469		0.0150	0.100	1	05/03/2017 16:06	WG975075
Iron,Dissolved	0.0653	J	0.0150	0.100	1	05/03/2017 21:39	WG975066
Lead	U		0.000240	0.00200	1	05/03/2017 03:07	WG975075
Lead,Dissolved	U		0.000240	0.00200	1	05/03/2017 21:39	WG975066
Manganese	0.435		0.000250	0.00500	1	05/03/2017 03:07	WG975075
Manganese,Dissolved	0.473		0.000250	0.00500	1	05/03/2017 21:39	WG975066
Potassium	17.4		0.0370	1.00	1	05/03/2017 03:07	WG975075
Selenium	0.00957		0.000380	0.00200	1	05/03/2017 03:07	WG975075
Selenium,Dissolved	0.00868		0.000380	0.00200	1	05/03/2017 21:39	WG975066
Sodium	366		0.110	1.00	1	05/03/2017 03:07	WG975075

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		0.314	1.00	10	04/29/2017 03:10	WG974979
(S) a,a,a-Trifluorotoluene(FID)	*96.2*			*77.0-122*		*04/29/2017 03:10*	WG974979

Sample Narrative:

8015D/GRO L905562-03 WG974979: 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		0.100	0.500	10	05/10/2017 13:58	WG975317
Benzene	U		0.00331	0.0100	10	05/10/2017 13:58	WG975317
Bromodichloromethane	U		0.00380	0.0100	10	05/10/2017 13:58	WG975317
Bromoform	U		0.00469	0.0100	10	05/10/2017 13:58	WG975317
Bromomethane	U		0.00866	0.0500	10	05/10/2017 13:58	WG975317
n-Butylbenzene	U		0.00361	0.0100	10	05/10/2017 13:58	WG975317

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		0.00365	0.0100	10	05/10/2017 13:58	WG975317
Carbon disulfide	U		0.00275	0.0100	10	05/10/2017 13:58	WG975317
Carbon tetrachloride	U		0.00379	0.0100	10	05/10/2017 13:58	WG975317
Chlorobenzene	U		0.00348	0.0100	10	05/10/2017 13:58	WG975317
Chlorodibromomethane	U		0.00327	0.0100	10	05/10/2017 13:58	WG975317
Chloroethane	U		0.00453	0.0500	10	05/10/2017 13:58	WG975317
Chloroform	U		0.00324	0.0500	10	05/10/2017 13:58	WG975317
Chloromethane	U		0.00276	0.0250	10	05/10/2017 13:58	WG975317
1,2-Dibromoethane	U		0.00381	0.0100	10	05/10/2017 13:58	WG975317
1,1-Dichloroethane	U		0.00259	0.0100	10	05/10/2017 13:58	WG975317
1,2-Dichloroethane	U		0.00361	0.0100	10	05/10/2017 13:58	WG975317
1,1-Dichloroethene	U		0.00398	0.0100	10	05/10/2017 13:58	WG975317
cis-1,2-Dichloroethene	U		0.00260	0.0100	10	05/10/2017 13:58	WG975317
trans-1,2-Dichloroethene	U		0.00396	0.0100	10	05/10/2017 13:58	WG975317
1,2-Dichloropropane	U		0.00306	0.0100	10	05/10/2017 13:58	WG975317
cis-1,3-Dichloropropene	U		0.00418	0.0100	10	05/10/2017 13:58	WG975317
trans-1,3-Dichloropropene	U		0.00419	0.0100	10	05/10/2017 13:58	WG975317
Ethylbenzene	U		0.00384	0.0100	10	05/10/2017 13:58	WG975317
Isopropylbenzene	U		0.00326	0.0100	10	05/10/2017 13:58	WG975317
p-Isopropyltoluene	U		0.00350	0.0100	10	05/10/2017 13:58	WG975317
2-Butanone (MEK)	U		0.0393	0.100	10	05/10/2017 13:58	WG975317
2-Hexanone	U		0.0382	0.100	10	05/10/2017 13:58	WG975317
Methylene Chloride	U		0.0100	0.0500	10	05/10/2017 13:58	WG975317
4-Methyl-2-pentanone (MIBK)	U		0.0214	0.100	10	05/10/2017 13:58	WG975317
Methyl tert-butyl ether	U		0.00367	0.0100	10	05/10/2017 13:58	WG975317
Naphthalene	U		0.0100	0.0500	10	05/10/2017 13:58	WG975317
n-Propylbenzene	U		0.00349	0.0100	10	05/10/2017 13:58	WG975317
Styrene	U		0.00307	0.0100	10	05/10/2017 13:58	WG975317
1,1,1,2-Tetrachloroethane	U		0.00385	0.0100	10	05/10/2017 13:58	WG975317
1,1,2,2-Tetrachloroethane	U		0.00130	0.0100	10	05/10/2017 13:58	WG975317
Tetrachloroethene	U		0.00372	0.0100	10	05/10/2017 13:58	WG975317
Toluene	U		0.00412	0.0100	10	05/10/2017 13:58	WG975317
1,1,1-Trichloroethane	U		0.00319	0.0100	10	05/10/2017 13:58	WG975317
1,1,2-Trichloroethane	U		0.00383	0.0100	10	05/10/2017 13:58	WG975317
Trichloroethene	U		0.00398	0.0100	10	05/10/2017 13:58	WG975317
1,2,4-Trimethylbenzene	U		0.00373	0.0100	10	05/10/2017 13:58	WG975317
1,3,5-Trimethylbenzene	U		0.00387	0.0100	10	05/10/2017 13:58	WG975317
Vinyl chloride	U		0.00259	0.0100	10	05/10/2017 13:58	WG975317
o-Xylene	U		0.00341	0.0100	10	05/10/2017 13:58	WG975317
m&p-Xylene	U		0.00719	0.0200	10	05/10/2017 13:58	WG975317
Xylenes, Total	U		0.0106	0.0300	10	05/10/2017 13:58	WG975317
(S) Toluene-d8	*104*			*80.0-120*		*05/10/2017 13:58*	WG975317
(S) Dibromofluoromethane	*103*			*76.0-123*		*05/10/2017 13:58*	WG975317
(S) 4-Bromofluorobenzene	*98.3*			*80.0-120*		*05/10/2017 13:58*	WG975317

Sample Narrative:

8260B L905562-03 WG975317: Lowest possible dilution due to sample foaming.

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	59.1		0.247	1.00	10	05/06/2017 01:02	WG975281
(S) o-Terphenyl	*43.1*			*31.0-160*		*05/06/2017 01:02*	WG975281

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Dissolved Solids	6100		2.82	10.0	1	04/29/2017 14:25	WG974907

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	3.35		0.197	1.00	10	05/02/2017 13:30	WG974950

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	1550		5.19	100	100	05/03/2017 14:36	WG975912
Fluoride	7.16		0.00990	0.100	1	05/01/2017 14:55	WG975160
Sulfate	2520		7.74	500	100	05/01/2017 15:42	WG975160

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.220		0.000250	0.00200	1	05/03/2017 03:11	WG975075
Arsenic,Dissolved	0.114		0.000250	0.00200	1	05/03/2017 21:43	WG975066
Barium	0.0174		0.000360	0.00500	1	05/03/2017 03:11	WG975075
Barium,Dissolved	0.0170		0.000360	0.00500	1	05/03/2017 21:43	WG975066
Calcium	333		0.0460	1.00	1	05/03/2017 03:11	WG975075
Chromium	U		0.000540	0.00200	1	05/03/2017 16:09	WG975075
Chromium,Dissolved	U		0.000540	0.00200	1	05/03/2017 21:43	WG975066
Iron	3.39		0.0150	0.100	1	05/03/2017 16:09	WG975075
Iron,Dissolved	0.0351	J	0.0150	0.100	1	05/03/2017 21:43	WG975066
Lead	U		0.000240	0.00200	1	05/03/2017 03:11	WG975075
Lead,Dissolved	U		0.000240	0.00200	1	05/03/2017 21:43	WG975066
Manganese	0.828		0.000250	0.00500	1	05/03/2017 03:11	WG975075
Manganese,Dissolved	0.882		0.000250	0.00500	1	05/03/2017 21:43	WG975066
Potassium	17.5		0.0370	1.00	1	05/03/2017 03:11	WG975075
Selenium	0.00229		0.000380	0.00200	1	05/03/2017 03:11	WG975075
Selenium,Dissolved	0.00182	J	0.000380	0.00200	1	05/03/2017 21:43	WG975066
Sodium	1510		1.10	10.0	10	05/03/2017 16:13	WG975075

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	1.46		0.0314	0.100	1	04/29/2017 03:32	WG974979
(S) a,a,a-Trifluorotoluene(FID)	*99.7*			*77.0-122*		*04/29/2017 03:32*	WG974979

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		0.0100	0.0500	1	04/30/2017 22:54	WG975317
Benzene	0.00145		0.000331	0.00100	1	04/30/2017 22:54	WG975317
Bromodichloromethane	U		0.000380	0.00100	1	04/30/2017 22:54	WG975317
Bromoform	U		0.000469	0.00100	1	04/30/2017 22:54	WG975317
Bromomethane	U		0.000866	0.00500	1	04/30/2017 22:54	WG975317
n-Butylbenzene	U		0.000361	0.00100	1	04/30/2017 22:54	WG975317
sec-Butylbenzene	0.000433	J	0.000365	0.00100	1	04/30/2017 22:54	WG975317
Carbon disulfide	U		0.000275	0.00100	1	04/30/2017 22:54	WG975317
Carbon tetrachloride	U		0.000379	0.00100	1	04/30/2017 22:54	WG975317

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chlorobenzene	U		0.000348	0.00100	1	04/30/2017 22:54	WG975317
Chlorodibromomethane	U		0.000327	0.00100	1	04/30/2017 22:54	WG975317
Chloroethane	U		0.000453	0.00500	1	04/30/2017 22:54	WG975317
Chloroform	U		0.000324	0.00500	1	04/30/2017 22:54	WG975317
Chloromethane	U		0.000276	0.00250	1	04/30/2017 22:54	WG975317
1,2-Dibromoethane	U		0.000381	0.00100	1	04/30/2017 22:54	WG975317
1,1-Dichloroethane	U		0.000259	0.00100	1	04/30/2017 22:54	WG975317
1,2-Dichloroethane	U		0.000361	0.00100	1	04/30/2017 22:54	WG975317
1,1-Dichloroethene	U		0.000398	0.00100	1	04/30/2017 22:54	WG975317
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	04/30/2017 22:54	WG975317
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	04/30/2017 22:54	WG975317
1,2-Dichloropropane	U		0.000306	0.00100	1	04/30/2017 22:54	WG975317
cis-1,3-Dichloropropene	U		0.000418	0.00100	1	04/30/2017 22:54	WG975317
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	04/30/2017 22:54	WG975317
Ethylbenzene	U		0.000384	0.00100	1	04/30/2017 22:54	WG975317
Isopropylbenzene	0.00303		0.000326	0.00100	1	04/30/2017 22:54	WG975317
p-Isopropyltoluene	U		0.000350	0.00100	1	04/30/2017 22:54	WG975317
2-Butanone (MEK)	U		0.00393	0.0100	1	04/30/2017 22:54	WG975317
2-Hexanone	U		0.00382	0.0100	1	04/30/2017 22:54	WG975317
Methylene Chloride	U		0.00100	0.00500	1	04/30/2017 22:54	WG975317
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	04/30/2017 22:54	WG975317
Methyl tert-butyl ether	0.00645		0.000367	0.00100	1	04/30/2017 22:54	WG975317
Naphthalene	U		0.00100	0.00500	1	04/30/2017 22:54	WG975317
n-Propylbenzene	U		0.000349	0.00100	1	04/30/2017 22:54	WG975317
Styrene	U		0.000307	0.00100	1	04/30/2017 22:54	WG975317
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	04/30/2017 22:54	WG975317
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	04/30/2017 22:54	WG975317
Tetrachloroethene	U		0.000372	0.00100	1	04/30/2017 22:54	WG975317
Toluene	U		0.000412	0.00100	1	04/30/2017 22:54	WG975317
1,1,1-Trichloroethane	U		0.000319	0.00100	1	04/30/2017 22:54	WG975317
1,1,2-Trichloroethane	U		0.000383	0.00100	1	04/30/2017 22:54	WG975317
Trichloroethene	U		0.000398	0.00100	1	04/30/2017 22:54	WG975317
1,2,4-Trimethylbenzene	U		0.000373	0.00100	1	04/30/2017 22:54	WG975317
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	04/30/2017 22:54	WG975317
Vinyl chloride	U		0.000259	0.00100	1	04/30/2017 22:54	WG975317
o-Xylene	U		0.000341	0.00100	1	04/30/2017 22:54	WG975317
m&p-Xylene	U		0.000719	0.00200	1	04/30/2017 22:54	WG975317
Xylenes, Total	U		0.00106	0.00300	1	04/30/2017 22:54	WG975317
(S) Toluene-d8	*109*			*80.0-120*		*04/30/2017 22:54*	WG975317
(S) Dibromofluoromethane	*118*			*76.0-123*		*04/30/2017 22:54*	WG975317
(S) 4-Bromofluorobenzene	*94.1*			*80.0-120*		*04/30/2017 22:54*	WG975317

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	16.7		0.247	1.00	10	05/06/2017 01:19	WG975281
(S) o-Terphenyl	*64.4*			*31.0-160*		*05/06/2017 01:19*	WG975281

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Dissolved Solids	5900		2.82	10.0	1	04/29/2017 14:25	WG974907

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	U		0.197	1.00	10	05/02/2017 13:36	WG974950

Sample Narrative:

353.2 L905562-05 WG974950: 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	45.4		0.0519	1.00	1	05/01/2017 14:36	WG975161
Fluoride	4.80		0.00990	0.100	1	05/01/2017 14:36	WG975161
Sulfate	3840		7.74	500	100	05/01/2017 15:21	WG975161

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.0236		0.000250	0.00200	1	05/03/2017 03:14	WG975075
Arsenic,Dissolved	0.0183		0.000250	0.00200	1	05/03/2017 21:46	WG975066
Barium	0.0387		0.000360	0.00500	1	05/03/2017 03:14	WG975075
Barium,Dissolved	0.0357		0.000360	0.00500	1	05/03/2017 21:46	WG975066
Calcium	483		0.0460	1.00	1	05/03/2017 03:14	WG975075
Chromium	0.0224		0.000540	0.00200	1	05/03/2017 16:16	WG975075
Chromium,Dissolved	0.00753		0.000540	0.00200	1	05/03/2017 21:46	WG975066
Iron	8.80		0.0150	0.100	1	05/03/2017 16:16	WG975075
Iron,Dissolved	0.0258	J	0.0150	0.100	1	05/03/2017 21:46	WG975066
Lead	0.00153	J	0.000240	0.00200	1	05/03/2017 03:14	WG975075
Lead,Dissolved	U		0.000240	0.00200	1	05/03/2017 21:46	WG975066
Manganese	0.570		0.000250	0.00500	1	05/03/2017 03:14	WG975075
Manganese,Dissolved	0.606		0.000250	0.00500	1	05/03/2017 21:46	WG975066
Potassium	49.4		0.0370	1.00	1	05/03/2017 03:14	WG975075
Selenium	0.00556		0.000380	0.00200	1	05/03/2017 03:14	WG975075
Selenium,Dissolved	0.00339		0.000380	0.00200	1	05/03/2017 21:46	WG975066
Sodium	256		0.110	1.00	1	05/03/2017 03:14	WG975075

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	0.305		0.0314	0.100	1	04/29/2017 03:54	WG974979
(S) a,a,a-Trifluorotoluene(FID)	*99.1*			*77.0-122*		*04/29/2017 03:54*	WG974979

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		0.100	0.500	10	05/10/2017 14:11	WG975317
Benzene	U		0.00331	0.0100	10	05/10/2017 14:11	WG975317
Bromodichloromethane	U		0.00380	0.0100	10	05/10/2017 14:11	WG975317
Bromoform	U		0.00469	0.0100	10	05/10/2017 14:11	WG975317
Bromomethane	U		0.00866	0.0500	10	05/10/2017 14:11	WG975317
n-Butylbenzene	U		0.00361	0.0100	10	05/10/2017 14:11	WG975317

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		0.00365	0.0100	10	05/10/2017 14:11	WG975317
Carbon disulfide	U		0.00275	0.0100	10	05/10/2017 14:11	WG975317
Carbon tetrachloride	U		0.00379	0.0100	10	05/10/2017 14:11	WG975317
Chlorobenzene	U		0.00348	0.0100	10	05/10/2017 14:11	WG975317
Chlorodibromomethane	U		0.00327	0.0100	10	05/10/2017 14:11	WG975317
Chloroethane	U		0.00453	0.0500	10	05/10/2017 14:11	WG975317
Chloroform	U		0.00324	0.0500	10	05/10/2017 14:11	WG975317
Chloromethane	U		0.00276	0.0250	10	05/10/2017 14:11	WG975317
1,2-Dibromoethane	U		0.00381	0.0100	10	05/10/2017 14:11	WG975317
1,1-Dichloroethane	U		0.00259	0.0100	10	05/10/2017 14:11	WG975317
1,2-Dichloroethane	U		0.00361	0.0100	10	05/10/2017 14:11	WG975317
1,1-Dichloroethene	U		0.00398	0.0100	10	05/10/2017 14:11	WG975317
cis-1,2-Dichloroethene	U		0.00260	0.0100	10	05/10/2017 14:11	WG975317
trans-1,2-Dichloroethene	U		0.00396	0.0100	10	05/10/2017 14:11	WG975317
1,2-Dichloropropane	U		0.00306	0.0100	10	05/10/2017 14:11	WG975317
cis-1,3-Dichloropropene	U		0.00418	0.0100	10	05/10/2017 14:11	WG975317
trans-1,3-Dichloropropene	U		0.00419	0.0100	10	05/10/2017 14:11	WG975317
Ethylbenzene	U		0.00384	0.0100	10	05/10/2017 14:11	WG975317
Isopropylbenzene	U		0.00326	0.0100	10	05/10/2017 14:11	WG975317
p-Isopropyltoluene	U		0.00350	0.0100	10	05/10/2017 14:11	WG975317
2-Butanone (MEK)	U		0.0393	0.100	10	05/10/2017 14:11	WG975317
2-Hexanone	U		0.0382	0.100	10	05/10/2017 14:11	WG975317
Methylene Chloride	U		0.0100	0.0500	10	05/10/2017 14:11	WG975317
4-Methyl-2-pentanone (MIBK)	U		0.0214	0.100	10	05/10/2017 14:11	WG975317
Methyl tert-butyl ether	U		0.00367	0.0100	10	05/10/2017 14:11	WG975317
Naphthalene	U		0.0100	0.0500	10	05/10/2017 14:11	WG975317
n-Propylbenzene	U		0.00349	0.0100	10	05/10/2017 14:11	WG975317
Styrene	U		0.00307	0.0100	10	05/10/2017 14:11	WG975317
1,1,1,2-Tetrachloroethane	U		0.00385	0.0100	10	05/10/2017 14:11	WG975317
1,1,2,2-Tetrachloroethane	U		0.00130	0.0100	10	05/10/2017 14:11	WG975317
Tetrachloroethene	U		0.00372	0.0100	10	05/10/2017 14:11	WG975317
Toluene	U		0.00412	0.0100	10	05/10/2017 14:11	WG975317
1,1,1-Trichloroethane	U		0.00319	0.0100	10	05/10/2017 14:11	WG975317
1,1,2-Trichloroethane	U		0.00383	0.0100	10	05/10/2017 14:11	WG975317
Trichloroethene	U		0.00398	0.0100	10	05/10/2017 14:11	WG975317
1,2,4-Trimethylbenzene	U		0.00373	0.0100	10	05/10/2017 14:11	WG975317
1,3,5-Trimethylbenzene	U		0.00387	0.0100	10	05/10/2017 14:11	WG975317
Vinyl chloride	U		0.00259	0.0100	10	05/10/2017 14:11	WG975317
o-Xylene	U		0.00341	0.0100	10	05/10/2017 14:11	WG975317
m&p-Xylene	U		0.00719	0.0200	10	05/10/2017 14:11	WG975317
Xylenes, Total	U		0.0106	0.0300	10	05/10/2017 14:11	WG975317
(S) Toluene-d8	*104*			*80.0-120*		*05/10/2017 14:11*	WG975317
(S) Dibromofluoromethane	*103*			*76.0-123*		*05/10/2017 14:11*	WG975317
(S) 4-Bromofluorobenzene	*98.7*			*80.0-120*		*05/10/2017 14:11*	WG975317

Sample Narrative:

8260B L905562-05 WG975317: 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	29.8		0.247	1.00	10	05/06/2017 01:36	WG975281
(S) o-Terphenyl	*47.1*			*31.0-160*		*05/06/2017 01:36*	WG975281

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Dissolved Solids	5080		2.82	10.0	1	04/29/2017 14:25	WG974907

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	U		0.197	1.00	10	05/02/2017 13:37	WG974950

Sample Narrative:

353.2 L905562-06 WG974950: 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	1330		5.19	100	100	05/01/2017 15:38	WG975161
Fluoride	1.94		0.00990	0.100	1	05/01/2017 14:50	WG975161
Sulfate	2480		7.74	500	100	05/01/2017 15:38	WG975161

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.0213		0.000250	0.00200	1	05/03/2017 03:18	WG975075
Arsenic,Dissolved	0.0179		0.000250	0.00200	1	05/03/2017 21:50	WG975066
Barium	0.0140		0.000360	0.00500	1	05/03/2017 03:18	WG975075
Barium,Dissolved	0.0138		0.000360	0.00500	1	05/03/2017 21:50	WG975066
Calcium	603		0.0460	1.00	1	05/03/2017 03:18	WG975075
Chromium	U		0.000540	0.00200	1	05/03/2017 16:20	WG975075
Chromium,Dissolved	U		0.000540	0.00200	1	05/03/2017 21:50	WG975066
Iron	0.532		0.0150	0.100	1	05/03/2017 16:20	WG975075
Iron,Dissolved	U		0.0150	0.100	1	05/03/2017 21:50	WG975066
Lead	0.000306	J	0.000240	0.00200	1	05/03/2017 03:18	WG975075
Lead,Dissolved	U		0.000240	0.00200	1	05/03/2017 21:50	WG975066
Manganese	0.945		0.000250	0.00500	1	05/03/2017 03:18	WG975075
Manganese,Dissolved	1.08		0.000250	0.00500	1	05/03/2017 21:50	WG975066
Potassium	4.57		0.0370	1.00	1	05/03/2017 03:18	WG975075
Selenium	0.00303		0.000380	0.00200	1	05/03/2017 03:18	WG975075
Selenium,Dissolved	0.00281		0.000380	0.00200	1	05/03/2017 21:50	WG975066
Sodium	944		0.110	1.00	1	05/03/2017 03:18	WG975075

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	0.205		0.0314	0.100	1	04/29/2017 04:17	WG974979
(S) a,a,a-Trifluorotoluene(FID)	*96.8*			*77.0-122*		*04/29/2017 04:17*	WG974979

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		0.0100	0.0500	1	04/30/2017 23:38	WG975317
Benzene	U		0.000331	0.00100	1	04/30/2017 23:38	WG975317
Bromodichloromethane	U		0.000380	0.00100	1	04/30/2017 23:38	WG975317
Bromoform	U		0.000469	0.00100	1	04/30/2017 23:38	WG975317
Bromomethane	U		0.000866	0.00500	1	04/30/2017 23:38	WG975317
n-Butylbenzene	U		0.000361	0.00100	1	04/30/2017 23:38	WG975317

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		0.000365	0.00100	1	04/30/2017 23:38	WG975317
Carbon disulfide	U		0.000275	0.00100	1	04/30/2017 23:38	WG975317
Carbon tetrachloride	U		0.000379	0.00100	1	04/30/2017 23:38	WG975317
Chlorobenzene	U		0.000348	0.00100	1	04/30/2017 23:38	WG975317
Chlorodibromomethane	U		0.000327	0.00100	1	04/30/2017 23:38	WG975317
Chloroethane	U		0.000453	0.00500	1	04/30/2017 23:38	WG975317
Chloroform	U		0.000324	0.00500	1	04/30/2017 23:38	WG975317
Chloromethane	U		0.000276	0.00250	1	04/30/2017 23:38	WG975317
1,2-Dibromoethane	U		0.000381	0.00100	1	04/30/2017 23:38	WG975317
1,1-Dichloroethane	U		0.000259	0.00100	1	04/30/2017 23:38	WG975317
1,2-Dichloroethane	U		0.000361	0.00100	1	04/30/2017 23:38	WG975317
1,1-Dichloroethene	U		0.000398	0.00100	1	04/30/2017 23:38	WG975317
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	04/30/2017 23:38	WG975317
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	04/30/2017 23:38	WG975317
1,2-Dichloropropane	U		0.000306	0.00100	1	04/30/2017 23:38	WG975317
cis-1,3-Dichloropropene	U		0.000418	0.00100	1	04/30/2017 23:38	WG975317
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	04/30/2017 23:38	WG975317
Ethylbenzene	U		0.000384	0.00100	1	04/30/2017 23:38	WG975317
Isopropylbenzene	U		0.000326	0.00100	1	04/30/2017 23:38	WG975317
p-Isopropyltoluene	U		0.000350	0.00100	1	04/30/2017 23:38	WG975317
2-Butanone (MEK)	U		0.00393	0.0100	1	04/30/2017 23:38	WG975317
2-Hexanone	U		0.00382	0.0100	1	04/30/2017 23:38	WG975317
Methylene Chloride	U		0.00100	0.00500	1	04/30/2017 23:38	WG975317
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	04/30/2017 23:38	WG975317
Methyl tert-butyl ether	U		0.000367	0.00100	1	04/30/2017 23:38	WG975317
Naphthalene	U		0.00100	0.00500	1	04/30/2017 23:38	WG975317
n-Propylbenzene	U		0.000349	0.00100	1	04/30/2017 23:38	WG975317
Styrene	U		0.000307	0.00100	1	04/30/2017 23:38	WG975317
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	04/30/2017 23:38	WG975317
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	04/30/2017 23:38	WG975317
Tetrachloroethene	U		0.000372	0.00100	1	04/30/2017 23:38	WG975317
Toluene	U		0.000412	0.00100	1	04/30/2017 23:38	WG975317
1,1,1-Trichloroethane	U		0.000319	0.00100	1	04/30/2017 23:38	WG975317
1,1,2-Trichloroethane	U		0.000383	0.00100	1	04/30/2017 23:38	WG975317
Trichloroethene	U		0.000398	0.00100	1	04/30/2017 23:38	WG975317
1,2,4-Trimethylbenzene	U		0.000373	0.00100	1	04/30/2017 23:38	WG975317
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	04/30/2017 23:38	WG975317
Vinyl chloride	U		0.000259	0.00100	1	04/30/2017 23:38	WG975317
o-Xylene	U		0.000341	0.00100	1	04/30/2017 23:38	WG975317
m&p-Xylene	U		0.000719	0.00200	1	04/30/2017 23:38	WG975317
Xylenes, Total	U		0.00106	0.00300	1	04/30/2017 23:38	WG975317
(S) Toluene-d8	*106*			*80.0-120*		*04/30/2017 23:38*	WG975317
(S) Dibromofluoromethane	*115*			*76.0-123*		*04/30/2017 23:38*	WG975317
(S) 4-Bromofluorobenzene	*95.3*			*80.0-120*		*04/30/2017 23:38*	WG975317

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	8.09		0.0247	0.100	1	05/05/2017 03:41	WG975281
(S) o-Terphenyl	*74.0*			*31.0-160*		*05/05/2017 03:41*	WG975281

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Dissolved Solids	6300		2.82	10.0	1	04/29/2017 14:25	WG974907

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	U		0.197	1.00	10	05/02/2017 13:38	WG974950

Sample Narrative:

353.2 L905562-07 WG974950: 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	1710		5.19	100	100	05/01/2017 15:52	WG975161
Fluoride	1.04		0.00990	0.100	1	05/01/2017 16:39	WG975161
Sulfate	2410		7.74	500	100	05/01/2017 15:52	WG975161

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.00709		0.000250	0.00200	1	05/03/2017 03:21	WG975075
Arsenic,Dissolved	0.00761		0.000250	0.00200	1	05/03/2017 20:51	WG975066
Barium	0.0101		0.000360	0.00500	1	05/03/2017 03:21	WG975075
Barium,Dissolved	0.0104		0.000360	0.00500	1	05/03/2017 20:51	WG975066
Calcium	406		0.0460	1.00	1	05/03/2017 03:21	WG975075
Chromium	U		0.000540	0.00200	1	05/03/2017 16:23	WG975075
Chromium,Dissolved	U		0.000540	0.00200	1	05/03/2017 20:51	WG975066
Iron	U		0.0150	0.100	1	05/03/2017 16:23	WG975075
Iron,Dissolved	U		0.0150	0.100	1	05/03/2017 20:51	WG975066
Lead	U		0.000240	0.00200	1	05/03/2017 03:21	WG975075
Lead,Dissolved	U		0.000240	0.00200	1	05/03/2017 20:51	WG975066
Manganese	0.819		0.000250	0.00500	1	05/03/2017 03:21	WG975075
Manganese,Dissolved	0.901	V	0.000250	0.00500	1	05/03/2017 20:51	WG975066
Potassium	3.00		0.0370	1.00	1	05/03/2017 03:21	WG975075
Selenium	U		0.000380	0.00200	1	05/03/2017 03:21	WG975075
Selenium,Dissolved	0.000412	J	0.000380	0.00200	1	05/03/2017 20:51	WG975066
Sodium	1100		0.550	5.00	5	05/03/2017 16:26	WG975075

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
TPH (GC/FID) Low Fraction	U		0.0314	0.100	1	04/29/2017 04:39	WG974979
(S) a,a,a-Trifluorotoluene(FID)	*94.7*			*77.0-122*		*04/29/2017 04:39*	WG974979

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		0.0100	0.0500	1	05/01/2017 00:00	WG975317
Benzene	U		0.000331	0.00100	1	05/01/2017 00:00	WG975317
Bromodichloromethane	U		0.000380	0.00100	1	05/01/2017 00:00	WG975317
Bromoform	U		0.000469	0.00100	1	05/01/2017 00:00	WG975317
Bromomethane	U		0.000866	0.00500	1	05/01/2017 00:00	WG975317
n-Butylbenzene	U		0.000361	0.00100	1	05/01/2017 00:00	WG975317

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		0.000365	0.00100	1	05/01/2017 00:00	WG975317
Carbon disulfide	U		0.000275	0.00100	1	05/01/2017 00:00	WG975317
Carbon tetrachloride	U		0.000379	0.00100	1	05/01/2017 00:00	WG975317
Chlorobenzene	U		0.000348	0.00100	1	05/01/2017 00:00	WG975317
Chlorodibromomethane	U		0.000327	0.00100	1	05/01/2017 00:00	WG975317
Chloroethane	U		0.000453	0.00500	1	05/01/2017 00:00	WG975317
Chloroform	U		0.000324	0.00500	1	05/01/2017 00:00	WG975317
Chloromethane	U		0.000276	0.00250	1	05/01/2017 00:00	WG975317
1,2-Dibromoethane	U		0.000381	0.00100	1	05/01/2017 00:00	WG975317
1,1-Dichloroethane	U		0.000259	0.00100	1	05/01/2017 00:00	WG975317
1,2-Dichloroethane	U		0.000361	0.00100	1	05/01/2017 00:00	WG975317
1,1-Dichloroethene	U		0.000398	0.00100	1	05/01/2017 00:00	WG975317
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	05/01/2017 00:00	WG975317
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	05/01/2017 00:00	WG975317
1,2-Dichloropropane	U		0.000306	0.00100	1	05/01/2017 00:00	WG975317
cis-1,3-Dichloropropene	U		0.000418	0.00100	1	05/01/2017 00:00	WG975317
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	05/01/2017 00:00	WG975317
Ethylbenzene	U		0.000384	0.00100	1	05/01/2017 00:00	WG975317
Isopropylbenzene	U		0.000326	0.00100	1	05/01/2017 00:00	WG975317
p-Isopropyltoluene	U		0.000350	0.00100	1	05/01/2017 00:00	WG975317
2-Butanone (MEK)	U		0.00393	0.0100	1	05/01/2017 00:00	WG975317
2-Hexanone	U		0.00382	0.0100	1	05/01/2017 00:00	WG975317
Methylene Chloride	U		0.00100	0.00500	1	05/01/2017 00:00	WG975317
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	05/01/2017 00:00	WG975317
Methyl tert-butyl ether	U		0.000367	0.00100	1	05/01/2017 00:00	WG975317
Naphthalene	U		0.00100	0.00500	1	05/01/2017 00:00	WG975317
n-Propylbenzene	U		0.000349	0.00100	1	05/01/2017 00:00	WG975317
Styrene	U		0.000307	0.00100	1	05/01/2017 00:00	WG975317
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	05/01/2017 00:00	WG975317
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	05/01/2017 00:00	WG975317
Tetrachloroethene	U		0.000372	0.00100	1	05/01/2017 00:00	WG975317
Toluene	U		0.000412	0.00100	1	05/01/2017 00:00	WG975317
1,1,1-Trichloroethane	U		0.000319	0.00100	1	05/01/2017 00:00	WG975317
1,1,2-Trichloroethane	U		0.000383	0.00100	1	05/01/2017 00:00	WG975317
Trichloroethene	U		0.000398	0.00100	1	05/01/2017 00:00	WG975317
1,2,4-Trimethylbenzene	U		0.000373	0.00100	1	05/01/2017 00:00	WG975317
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	05/01/2017 00:00	WG975317
Vinyl chloride	U		0.000259	0.00100	1	05/01/2017 00:00	WG975317
o-Xylene	U		0.000341	0.00100	1	05/01/2017 00:00	WG975317
m&p-Xylene	U		0.000719	0.00200	1	05/01/2017 00:00	WG975317
Xylenes, Total	U		0.00106	0.00300	1	05/01/2017 00:00	WG975317
(S) Toluene-d8	*106*			*80.0-120*		*05/01/2017 00:00*	WG975317
(S) Dibromofluoromethane	*117*			*76.0-123*		*05/01/2017 00:00*	WG975317
(S) 4-Bromofluorobenzene	*94.7*			*80.0-120*		*05/01/2017 00:00*	WG975317

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	0.516		0.0247	0.100	1	05/05/2017 04:51	WG975281
(S) o-Terphenyl	*68.2*			*31.0-160*		*05/05/2017 04:51*	WG975281

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Dissolved Solids	6630		2.82	10.0	1	04/29/2017 14:25	WG974907

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	U		0.197	1.00	10	05/02/2017 13:39	WG974950

Sample Narrative:

353.2 L905562-08 WG974950: 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	2090		5.19	100	100	05/01/2017 17:56	WG975161
Fluoride	0.632		0.00990	0.100	1	05/01/2017 16:54	WG975161
Sulfate	2530		7.74	500	100	05/01/2017 17:56	WG975161

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.0411		0.000250	0.00200	1	05/03/2017 03:25	WG975075
Arsenic,Dissolved	0.0325		0.000250	0.00200	1	05/03/2017 21:53	WG975066
Barium	0.0161		0.000360	0.00500	1	05/03/2017 03:25	WG975075
Barium,Dissolved	0.0145		0.000360	0.00500	1	05/03/2017 21:53	WG975066
Calcium	493		0.0460	1.00	1	05/03/2017 03:25	WG975075
Chromium	U		0.000540	0.00200	1	05/03/2017 16:30	WG975075
Chromium,Dissolved	U		0.000540	0.00200	1	05/03/2017 21:53	WG975066
Iron	6.07		0.0150	0.100	1	05/03/2017 16:30	WG975075
Iron,Dissolved	U		0.0150	0.100	1	05/03/2017 21:53	WG975066
Lead	0.000354	J	0.000240	0.00200	1	05/03/2017 03:25	WG975075
Lead,Dissolved	U		0.000240	0.00200	1	05/03/2017 21:53	WG975066
Manganese	5.82		0.000250	0.00500	1	05/03/2017 03:25	WG975075
Manganese,Dissolved	6.25		0.000250	0.00500	1	05/03/2017 21:53	WG975066
Potassium	3.71		0.0370	1.00	1	05/03/2017 03:25	WG975075
Selenium	0.000886	J	0.000380	0.00200	1	05/03/2017 03:25	WG975075
Selenium,Dissolved	0.000797	J	0.000380	0.00200	1	05/03/2017 21:53	WG975066
Sodium	1350		1.10	10.0	10	05/03/2017 17:10	WG975075

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	3.63		0.0314	0.100	1	04/29/2017 05:01	WG974979
(S) a,a,a-Trifluorotoluene(FID)	*97.6*			*77.0-122*		*04/29/2017 05:01*	WG974979

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		0.0100	0.0500	1	05/01/2017 00:22	WG975317
Benzene	U		0.000331	0.00100	1	05/01/2017 00:22	WG975317
Bromodichloromethane	U		0.000380	0.00100	1	05/01/2017 00:22	WG975317
Bromoform	U		0.000469	0.00100	1	05/01/2017 00:22	WG975317
Bromomethane	U		0.000866	0.00500	1	05/01/2017 00:22	WG975317
n-Butylbenzene	U		0.000361	0.00100	1	05/01/2017 00:22	WG975317

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	0.000625	J	0.000365	0.00100	1	05/01/2017 00:22	WG975317
Carbon disulfide	U		0.000275	0.00100	1	05/01/2017 00:22	WG975317
Carbon tetrachloride	U		0.000379	0.00100	1	05/01/2017 00:22	WG975317
Chlorobenzene	U		0.000348	0.00100	1	05/01/2017 00:22	WG975317
Chlorodibromomethane	U		0.000327	0.00100	1	05/01/2017 00:22	WG975317
Chloroethane	U		0.000453	0.00500	1	05/01/2017 00:22	WG975317
Chloroform	U		0.000324	0.00500	1	05/01/2017 00:22	WG975317
Chloromethane	U		0.000276	0.00250	1	05/01/2017 00:22	WG975317
1,2-Dibromoethane	U		0.000381	0.00100	1	05/01/2017 00:22	WG975317
1,1-Dichloroethane	U		0.000259	0.00100	1	05/01/2017 00:22	WG975317
1,2-Dichloroethane	U		0.000361	0.00100	1	05/01/2017 00:22	WG975317
1,1-Dichloroethene	U		0.000398	0.00100	1	05/01/2017 00:22	WG975317
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	05/01/2017 00:22	WG975317
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	05/01/2017 00:22	WG975317
1,2-Dichloropropane	U		0.000306	0.00100	1	05/01/2017 00:22	WG975317
cis-1,3-Dichloropropene	U		0.000418	0.00100	1	05/01/2017 00:22	WG975317
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	05/01/2017 00:22	WG975317
Ethylbenzene	U		0.000384	0.00100	1	05/01/2017 00:22	WG975317
Isopropylbenzene	U		0.000326	0.00100	1	05/01/2017 00:22	WG975317
p-Isopropyltoluene	U		0.000350	0.00100	1	05/01/2017 00:22	WG975317
2-Butanone (MEK)	U		0.00393	0.0100	1	05/01/2017 00:22	WG975317
2-Hexanone	U		0.00382	0.0100	1	05/01/2017 00:22	WG975317
Methylene Chloride	U		0.00100	0.00500	1	05/01/2017 00:22	WG975317
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	05/01/2017 00:22	WG975317
Methyl tert-butyl ether	0.00774		0.000367	0.00100	1	05/01/2017 00:22	WG975317
Naphthalene	U		0.00100	0.00500	1	05/01/2017 00:22	WG975317
n-Propylbenzene	U		0.000349	0.00100	1	05/01/2017 00:22	WG975317
Styrene	U		0.000307	0.00100	1	05/01/2017 00:22	WG975317
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	05/01/2017 00:22	WG975317
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	05/01/2017 00:22	WG975317
Tetrachloroethene	U		0.000372	0.00100	1	05/01/2017 00:22	WG975317
Toluene	U		0.000412	0.00100	1	05/01/2017 00:22	WG975317
1,1,1-Trichloroethane	U		0.000319	0.00100	1	05/01/2017 00:22	WG975317
1,1,2-Trichloroethane	U		0.000383	0.00100	1	05/01/2017 00:22	WG975317
Trichloroethene	U		0.000398	0.00100	1	05/01/2017 00:22	WG975317
1,2,4-Trimethylbenzene	U		0.000373	0.00100	1	05/01/2017 00:22	WG975317
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	05/01/2017 00:22	WG975317
Vinyl chloride	U		0.000259	0.00100	1	05/01/2017 00:22	WG975317
o-Xylene	U		0.000341	0.00100	1	05/01/2017 00:22	WG975317
m&p-Xylene	U		0.000719	0.00200	1	05/01/2017 00:22	WG975317
Xylenes, Total	U		0.00106	0.00300	1	05/01/2017 00:22	WG975317
(S) Toluene-d8	*108*			*80.0-120*		*05/01/2017 00:22*	WG975317
(S) Dibromofluoromethane	*118*			*76.0-123*		*05/01/2017 00:22*	WG975317
(S) 4-Bromofluorobenzene	*95.6*			*80.0-120*		*05/01/2017 00:22*	WG975317

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	6.65		0.0247	0.100	1	05/05/2017 05:09	WG975281
(S) o-Terphenyl	*71.6*			*31.0-160*		*05/05/2017 05:09*	WG975281

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Dissolved Solids	5670		2.82	10.0	1	04/29/2017 14:25	WG974907

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	0.408	J	0.197	1.00	10	05/02/2017 13:40	WG974950

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	1400		5.19	100	100	05/01/2017 18:27	WG975161
Fluoride	0.771		0.00990	0.100	1	05/01/2017 17:25	WG975161
Sulfate	2080		7.74	500	100	05/01/2017 18:27	WG975161

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.0255		0.000250	0.00200	1	05/03/2017 03:29	WG975075
Arsenic,Dissolved	0.0242		0.000250	0.00200	1	05/03/2017 21:57	WG975066
Barium	0.0116		0.000360	0.00500	1	05/03/2017 03:29	WG975075
Barium,Dissolved	0.0109		0.000360	0.00500	1	05/03/2017 21:57	WG975066
Calcium	396		0.0460	1.00	1	05/03/2017 03:29	WG975075
Chromium	U		0.000540	0.00200	1	05/03/2017 17:14	WG975075
Chromium,Dissolved	U		0.000540	0.00200	1	05/03/2017 21:57	WG975066
Iron	1.03		0.0150	0.100	1	05/03/2017 17:14	WG975075
Iron,Dissolved	U		0.0150	0.100	1	05/03/2017 21:57	WG975066
Lead	0.000313	J	0.000240	0.00200	1	05/03/2017 03:29	WG975075
Lead,Dissolved	U		0.000240	0.00200	1	05/03/2017 21:57	WG975066
Manganese	3.35		0.000250	0.00500	1	05/03/2017 03:29	WG975075
Manganese,Dissolved	3.53		0.000250	0.00500	1	05/03/2017 21:57	WG975066
Potassium	4.15		0.0370	1.00	1	05/03/2017 03:29	WG975075
Selenium	0.000603	J	0.000380	0.00200	1	05/03/2017 03:29	WG975075
Selenium,Dissolved	0.000555	J	0.000380	0.00200	1	05/03/2017 21:57	WG975066
Sodium	1150		0.550	5.00	5	05/03/2017 17:17	WG975075

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	1.76		0.0314	0.100	1	04/29/2017 05:23	WG974979
(S) a,a,a-Trifluorotoluene(FID)	*97.0*			*77.0-122*		*04/29/2017 05:23*	WG974979

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		0.0100	0.0500	1	05/01/2017 00:43	WG975317
Benzene	U		0.000331	0.00100	1	05/01/2017 00:43	WG975317
Bromodichloromethane	U		0.000380	0.00100	1	05/01/2017 00:43	WG975317
Bromoform	U		0.000469	0.00100	1	05/01/2017 00:43	WG975317
Bromomethane	U		0.000866	0.00500	1	05/01/2017 00:43	WG975317
n-Butylbenzene	U		0.000361	0.00100	1	05/01/2017 00:43	WG975317
sec-Butylbenzene	U		0.000365	0.00100	1	05/01/2017 00:43	WG975317
Carbon disulfide	U		0.000275	0.00100	1	05/01/2017 00:43	WG975317
Carbon tetrachloride	U		0.000379	0.00100	1	05/01/2017 00:43	WG975317

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chlorobenzene	U		0.000348	0.00100	1	05/01/2017 00:43	WG975317
Chlorodibromomethane	U		0.000327	0.00100	1	05/01/2017 00:43	WG975317
Chloroethane	U		0.000453	0.00500	1	05/01/2017 00:43	WG975317
Chloroform	U		0.000324	0.00500	1	05/01/2017 00:43	WG975317
Chloromethane	U		0.000276	0.00250	1	05/01/2017 00:43	WG975317
1,2-Dibromoethane	U		0.000381	0.00100	1	05/01/2017 00:43	WG975317
1,1-Dichloroethane	U		0.000259	0.00100	1	05/01/2017 00:43	WG975317
1,2-Dichloroethane	U		0.000361	0.00100	1	05/01/2017 00:43	WG975317
1,1-Dichloroethene	U		0.000398	0.00100	1	05/01/2017 00:43	WG975317
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	05/01/2017 00:43	WG975317
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	05/01/2017 00:43	WG975317
1,2-Dichloropropane	U		0.000306	0.00100	1	05/01/2017 00:43	WG975317
cis-1,3-Dichloropropene	U		0.000418	0.00100	1	05/01/2017 00:43	WG975317
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	05/01/2017 00:43	WG975317
Ethylbenzene	U		0.000384	0.00100	1	05/01/2017 00:43	WG975317
Isopropylbenzene	U		0.000326	0.00100	1	05/01/2017 00:43	WG975317
p-Isopropyltoluene	U		0.000350	0.00100	1	05/01/2017 00:43	WG975317
2-Butanone (MEK)	U		0.00393	0.0100	1	05/01/2017 00:43	WG975317
2-Hexanone	U		0.00382	0.0100	1	05/01/2017 00:43	WG975317
Methylene Chloride	U		0.00100	0.00500	1	05/01/2017 00:43	WG975317
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	05/01/2017 00:43	WG975317
Methyl tert-butyl ether	0.00564		0.000367	0.00100	1	05/01/2017 00:43	WG975317
Naphthalene	U		0.00100	0.00500	1	05/01/2017 00:43	WG975317
n-Propylbenzene	U		0.000349	0.00100	1	05/01/2017 00:43	WG975317
Styrene	U		0.000307	0.00100	1	05/01/2017 00:43	WG975317
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	05/01/2017 00:43	WG975317
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	05/01/2017 00:43	WG975317
Tetrachloroethene	U		0.000372	0.00100	1	05/01/2017 00:43	WG975317
Toluene	U		0.000412	0.00100	1	05/01/2017 00:43	WG975317
1,1,1-Trichloroethane	U		0.000319	0.00100	1	05/01/2017 00:43	WG975317
1,1,2-Trichloroethane	U		0.000383	0.00100	1	05/01/2017 00:43	WG975317
Trichloroethene	U		0.000398	0.00100	1	05/01/2017 00:43	WG975317
1,2,4-Trimethylbenzene	U		0.000373	0.00100	1	05/01/2017 00:43	WG975317
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	05/01/2017 00:43	WG975317
Vinyl chloride	U		0.000259	0.00100	1	05/01/2017 00:43	WG975317
o-Xylene	U		0.000341	0.00100	1	05/01/2017 00:43	WG975317
m&p-Xylene	U		0.000719	0.00200	1	05/01/2017 00:43	WG975317
Xylenes, Total	U		0.00106	0.00300	1	05/01/2017 00:43	WG975317
(S) Toluene-d8	*107*			*80.0-120*		*05/01/2017 00:43*	WG975317
(S) Dibromofluoromethane	*116*			*76.0-123*		*05/01/2017 00:43*	WG975317
(S) 4-Bromofluorobenzene	*98.8*			*80.0-120*		*05/01/2017 00:43*	WG975317

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	5.25		0.0247	0.100	1	05/05/2017 05:26	WG975281
(S) o-Terphenyl	*73.6*			*31.0-160*		*05/05/2017 05:26*	WG975281

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Dissolved Solids	4850		2.82	10.0	1	04/29/2017 14:25	WG974907

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	593		1.97	10.0	100	05/02/2017 14:51	WG974950

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	1460		5.19	100	100	05/01/2017 18:42	WG975161
Fluoride	0.825		0.00990	0.100	1	05/01/2017 17:41	WG975161
Sulfate	2030		7.74	500	100	05/01/2017 18:42	WG975161

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.0156		0.000250	0.00200	1	05/03/2017 03:32	WG975075
Arsenic,Dissolved	0.0154		0.000250	0.00200	1	05/03/2017 22:00	WG975066
Barium	0.0118		0.000360	0.00500	1	05/03/2017 03:32	WG975075
Barium,Dissolved	0.0115		0.000360	0.00500	1	05/03/2017 22:00	WG975066
Calcium	460		0.0460	1.00	1	05/03/2017 03:32	WG975075
Chromium	U		0.000540	0.00200	1	05/03/2017 17:21	WG975075
Chromium,Dissolved	U		0.000540	0.00200	1	05/03/2017 22:00	WG975066
Iron	0.0992	J	0.0150	0.100	1	05/03/2017 17:21	WG975075
Iron,Dissolved	U		0.0150	0.100	1	05/03/2017 22:00	WG975066
Lead	0.000290	J	0.000240	0.00200	1	05/03/2017 03:32	WG975075
Lead,Dissolved	U		0.000240	0.00200	1	05/03/2017 22:00	WG975066
Manganese	2.24		0.000250	0.00500	1	05/03/2017 03:32	WG975075
Manganese,Dissolved	2.46		0.000250	0.00500	1	05/03/2017 22:00	WG975066
Potassium	3.41		0.0370	1.00	1	05/03/2017 03:32	WG975075
Selenium	0.000483	J	0.000380	0.00200	1	05/03/2017 03:32	WG975075
Selenium,Dissolved	U		0.000380	0.00200	1	05/03/2017 22:00	WG975066
Sodium	996		0.110	1.00	1	05/03/2017 03:32	WG975075

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	0.877		0.0314	0.100	1	04/29/2017 05:45	WG974979
(S) a,a,a-Trifluorotoluene(FID)	*97.0*			*77.0-122*		*04/29/2017 05:45*	WG974979

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		0.0100	0.0500	1	05/01/2017 01:05	WG975317
Benzene	U		0.000331	0.00100	1	05/01/2017 01:05	WG975317
Bromodichloromethane	U		0.000380	0.00100	1	05/01/2017 01:05	WG975317
Bromoform	U		0.000469	0.00100	1	05/01/2017 01:05	WG975317
Bromomethane	U		0.000866	0.00500	1	05/01/2017 01:05	WG975317
n-Butylbenzene	U		0.000361	0.00100	1	05/01/2017 01:05	WG975317
sec-Butylbenzene	U		0.000365	0.00100	1	05/01/2017 01:05	WG975317
Carbon disulfide	U		0.000275	0.00100	1	05/01/2017 01:05	WG975317
Carbon tetrachloride	U		0.000379	0.00100	1	05/01/2017 01:05	WG975317

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chlorobenzene	U		0.000348	0.00100	1	05/01/2017 01:05	WG975317
Chlorodibromomethane	U		0.000327	0.00100	1	05/01/2017 01:05	WG975317
Chloroethane	U		0.000453	0.00500	1	05/01/2017 01:05	WG975317
Chloroform	U		0.000324	0.00500	1	05/01/2017 01:05	WG975317
Chloromethane	U		0.000276	0.00250	1	05/01/2017 01:05	WG975317
1,2-Dibromoethane	U		0.000381	0.00100	1	05/01/2017 01:05	WG975317
1,1-Dichloroethane	U		0.000259	0.00100	1	05/01/2017 01:05	WG975317
1,2-Dichloroethane	U		0.000361	0.00100	1	05/01/2017 01:05	WG975317
1,1-Dichloroethene	U		0.000398	0.00100	1	05/01/2017 01:05	WG975317
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	05/01/2017 01:05	WG975317
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	05/01/2017 01:05	WG975317
1,2-Dichloropropane	U		0.000306	0.00100	1	05/01/2017 01:05	WG975317
cis-1,3-Dichloropropene	U		0.000418	0.00100	1	05/01/2017 01:05	WG975317
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	05/01/2017 01:05	WG975317
Ethylbenzene	U		0.000384	0.00100	1	05/01/2017 01:05	WG975317
Isopropylbenzene	U		0.000326	0.00100	1	05/01/2017 01:05	WG975317
p-Isopropyltoluene	U		0.000350	0.00100	1	05/01/2017 01:05	WG975317
2-Butanone (MEK)	U		0.00393	0.0100	1	05/01/2017 01:05	WG975317
2-Hexanone	U		0.00382	0.0100	1	05/01/2017 01:05	WG975317
Methylene Chloride	U		0.00100	0.00500	1	05/01/2017 01:05	WG975317
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	05/01/2017 01:05	WG975317
Methyl tert-butyl ether	0.00195		0.000367	0.00100	1	05/01/2017 01:05	WG975317
Naphthalene	U		0.00100	0.00500	1	05/01/2017 01:05	WG975317
n-Propylbenzene	U		0.000349	0.00100	1	05/01/2017 01:05	WG975317
Styrene	U		0.000307	0.00100	1	05/01/2017 01:05	WG975317
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	05/01/2017 01:05	WG975317
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	05/01/2017 01:05	WG975317
Tetrachloroethene	U		0.000372	0.00100	1	05/01/2017 01:05	WG975317
Toluene	U		0.000412	0.00100	1	05/01/2017 01:05	WG975317
1,1,1-Trichloroethane	U		0.000319	0.00100	1	05/01/2017 01:05	WG975317
1,1,2-Trichloroethane	U		0.000383	0.00100	1	05/01/2017 01:05	WG975317
Trichloroethene	U		0.000398	0.00100	1	05/01/2017 01:05	WG975317
1,2,4-Trimethylbenzene	U		0.000373	0.00100	1	05/01/2017 01:05	WG975317
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	05/01/2017 01:05	WG975317
Vinyl chloride	U		0.000259	0.00100	1	05/01/2017 01:05	WG975317
o-Xylene	U		0.000341	0.00100	1	05/01/2017 01:05	WG975317
m&p-Xylene	U		0.000719	0.00200	1	05/01/2017 01:05	WG975317
Xylenes, Total	U		0.00106	0.00300	1	05/01/2017 01:05	WG975317
(S) Toluene-d8	*106*			*80.0-120*		*05/01/2017 01:05*	WG975317
(S) Dibromofluoromethane	*114*			*76.0-123*		*05/01/2017 01:05*	WG975317
(S) 4-Bromofluorobenzene	*95.3*			*80.0-120*		*05/01/2017 01:05*	WG975317

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	2.75		0.0247	0.100	1	05/05/2017 05:44	WG975281
(S) o-Terphenyl	*67.4*			*31.0-160*		*05/05/2017 05:44*	WG975281

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Dissolved Solids	4660		2.82	10.0	1	04/29/2017 14:25	WG974907

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	U		0.197	1.00	10	05/02/2017 13:42	WG974950

Sample Narrative:

353.2 L905562-11 WG974950: 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	904		5.19	100	100	05/01/2017 20:46	WG975161
Fluoride	1.62		0.00990	0.100	1	05/01/2017 19:29	WG975161
Sulfate	2080		7.74	500	100	05/01/2017 20:46	WG975161

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.0105		0.000250	0.00200	1	05/03/2017 03:43	WG975075
Arsenic,Dissolved	0.00999		0.000250	0.00200	1	05/03/2017 22:04	WG975066
Barium	0.0135		0.000360	0.00500	1	05/03/2017 03:43	WG975075
Barium,Dissolved	0.0137		0.000360	0.00500	1	05/03/2017 22:04	WG975066
Calcium	353		0.0460	1.00	1	05/03/2017 03:43	WG975075
Chromium	U		0.000540	0.00200	1	05/03/2017 17:24	WG975075
Chromium,Dissolved	U		0.000540	0.00200	1	05/03/2017 22:04	WG975066
Iron	0.193		0.0150	0.100	1	05/03/2017 17:24	WG975075
Iron,Dissolved	U		0.0150	0.100	1	05/03/2017 22:04	WG975066
Lead	0.000366	J	0.000240	0.00200	1	05/03/2017 03:43	WG975075
Lead,Dissolved	U		0.000240	0.00200	1	05/03/2017 22:04	WG975066
Manganese	0.385		0.000250	0.00500	1	05/03/2017 03:43	WG975075
Manganese,Dissolved	0.416		0.000250	0.00500	1	05/03/2017 22:04	WG975066
Potassium	1.38		0.0370	1.00	1	05/03/2017 03:43	WG975075
Selenium	0.000910	J	0.000380	0.00200	1	05/03/2017 03:43	WG975075
Selenium,Dissolved	0.000824	J	0.000380	0.00200	1	05/03/2017 22:04	WG975066
Sodium	770		0.110	1.00	1	05/03/2017 17:24	WG975075

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	0.335		0.0314	0.100	1	04/29/2017 06:07	WG974979
(S) a,a,a-Trifluorotoluene(FID)	*98.0*			*77.0-122*		*04/29/2017 06:07*	WG974979

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		0.100	0.500	10	05/10/2017 14:24	WG975317
Benzene	U		0.00331	0.0100	10	05/10/2017 14:24	WG975317
Bromodichloromethane	U		0.00380	0.0100	10	05/10/2017 14:24	WG975317
Bromoform	U		0.00469	0.0100	10	05/10/2017 14:24	WG975317
Bromomethane	U		0.00866	0.0500	10	05/10/2017 14:24	WG975317
n-Butylbenzene	U		0.00361	0.0100	10	05/10/2017 14:24	WG975317

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		0.00365	0.0100	10	05/10/2017 14:24	WG975317
Carbon disulfide	U		0.00275	0.0100	10	05/10/2017 14:24	WG975317
Carbon tetrachloride	U		0.00379	0.0100	10	05/10/2017 14:24	WG975317
Chlorobenzene	U		0.00348	0.0100	10	05/10/2017 14:24	WG975317
Chlorodibromomethane	U		0.00327	0.0100	10	05/10/2017 14:24	WG975317
Chloroethane	U		0.00453	0.0500	10	05/10/2017 14:24	WG975317
Chloroform	U		0.00324	0.0500	10	05/10/2017 14:24	WG975317
Chloromethane	U		0.00276	0.0250	10	05/10/2017 14:24	WG975317
1,2-Dibromoethane	U		0.00381	0.0100	10	05/10/2017 14:24	WG975317
1,1-Dichloroethane	U		0.00259	0.0100	10	05/10/2017 14:24	WG975317
1,2-Dichloroethane	U		0.00361	0.0100	10	05/10/2017 14:24	WG975317
1,1-Dichloroethene	U		0.00398	0.0100	10	05/10/2017 14:24	WG975317
cis-1,2-Dichloroethene	U		0.00260	0.0100	10	05/10/2017 14:24	WG975317
trans-1,2-Dichloroethene	U		0.00396	0.0100	10	05/10/2017 14:24	WG975317
1,2-Dichloropropane	U		0.00306	0.0100	10	05/10/2017 14:24	WG975317
cis-1,3-Dichloropropene	U		0.00418	0.0100	10	05/10/2017 14:24	WG975317
trans-1,3-Dichloropropene	U		0.00419	0.0100	10	05/10/2017 14:24	WG975317
Ethylbenzene	U		0.00384	0.0100	10	05/10/2017 14:24	WG975317
Isopropylbenzene	U		0.00326	0.0100	10	05/10/2017 14:24	WG975317
p-Isopropyltoluene	U		0.00350	0.0100	10	05/10/2017 14:24	WG975317
2-Butanone (MEK)	U		0.0393	0.100	10	05/10/2017 14:24	WG975317
2-Hexanone	U		0.0382	0.100	10	05/10/2017 14:24	WG975317
Methylene Chloride	U		0.0100	0.0500	10	05/10/2017 14:24	WG975317
4-Methyl-2-pentanone (MIBK)	U		0.0214	0.100	10	05/10/2017 14:24	WG975317
Methyl tert-butyl ether	U		0.00367	0.0100	10	05/10/2017 14:24	WG975317
Naphthalene	U		0.0100	0.0500	10	05/10/2017 14:24	WG975317
n-Propylbenzene	U		0.00349	0.0100	10	05/10/2017 14:24	WG975317
Styrene	U		0.00307	0.0100	10	05/10/2017 14:24	WG975317
1,1,1,2-Tetrachloroethane	U		0.00385	0.0100	10	05/10/2017 14:24	WG975317
1,1,2,2-Tetrachloroethane	U		0.00130	0.0100	10	05/10/2017 14:24	WG975317
Tetrachloroethene	U		0.00372	0.0100	10	05/10/2017 14:24	WG975317
Toluene	U		0.00412	0.0100	10	05/10/2017 14:24	WG975317
1,1,1-Trichloroethane	U		0.00319	0.0100	10	05/10/2017 14:24	WG975317
1,1,2-Trichloroethane	U		0.00383	0.0100	10	05/10/2017 14:24	WG975317
Trichloroethene	U		0.00398	0.0100	10	05/10/2017 14:24	WG975317
1,2,4-Trimethylbenzene	U		0.00373	0.0100	10	05/10/2017 14:24	WG975317
1,3,5-Trimethylbenzene	U		0.00387	0.0100	10	05/10/2017 14:24	WG975317
Vinyl chloride	U		0.00259	0.0100	10	05/10/2017 14:24	WG975317
o-Xylene	U		0.00341	0.0100	10	05/10/2017 14:24	WG975317
m&p-Xylene	U		0.00719	0.0200	10	05/10/2017 14:24	WG975317
Xylenes, Total	U		0.0106	0.0300	10	05/10/2017 14:24	WG975317
(S) Toluene-d8	*104*			*80.0-120*		*05/10/2017 14:24*	WG975317
(S) Dibromofluoromethane	*103*			*76.0-123*		*05/10/2017 14:24*	WG975317
(S) 4-Bromofluorobenzene	*99.5*			*80.0-120*		*05/10/2017 14:24*	WG975317

Sample Narrative:

8260B L905562-11 WG975317: 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	14.2		0.124	0.500	5	05/05/2017 15:29	WG975281
(S) o-Terphenyl	*67.0*			*31.0-160*		*05/05/2017 15:29*	WG975281

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Dissolved Solids	4150		2.82	10.0	1	04/29/2017 14:25	WG974907

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	U		0.197	1.00	10	05/02/2017 13:43	WG974950

Sample Narrative:

353.2 L905562-12 WG974950: 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	1250		5.19	100	100	05/01/2017 21:01	WG975161
Fluoride	0.694		0.00990	0.100	1	05/01/2017 19:44	WG975161
Sulfate	1730		7.74	500	100	05/01/2017 21:01	WG975161

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.0115		0.000250	0.00200	1	05/03/2017 03:46	WG975075
Arsenic,Dissolved	0.00863		0.000250	0.00200	1	05/03/2017 22:23	WG975066
Barium	0.0134		0.000360	0.00500	1	05/03/2017 03:46	WG975075
Barium,Dissolved	0.0141		0.000360	0.00500	1	05/03/2017 22:23	WG975066
Calcium	418		0.0460	1.00	1	05/03/2017 03:46	WG975075
Chromium	U		0.000540	0.00200	1	05/03/2017 17:28	WG975075
Chromium,Dissolved	U		0.000540	0.00200	1	05/03/2017 22:23	WG975066
Iron	0.149		0.0150	0.100	1	05/03/2017 17:28	WG975075
Iron,Dissolved	U		0.0150	0.100	1	05/03/2017 22:23	WG975066
Lead	U		0.000240	0.00200	1	05/03/2017 03:46	WG975075
Lead,Dissolved	U		0.000240	0.00200	1	05/03/2017 22:23	WG975066
Manganese	0.889		0.000250	0.00500	1	05/03/2017 03:46	WG975075
Manganese,Dissolved	1.01		0.000250	0.00500	1	05/03/2017 22:23	WG975066
Potassium	3.97		0.0370	1.00	1	05/03/2017 03:46	WG975075
Selenium	U		0.000380	0.00200	1	05/03/2017 03:46	WG975075
Selenium,Dissolved	U		0.000380	0.00200	1	05/03/2017 22:23	WG975066
Sodium	738		0.110	1.00	1	05/03/2017 17:28	WG975075

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
TPH (GC/FID) Low Fraction	U		0.0314	0.100	1	04/29/2017 06:30	WG974979
(S) a,a,a-Trifluorotoluene(FID)	*95.5*			*77.0-122*		*04/29/2017 06:30*	WG974979

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		0.0100	0.0500	1	05/01/2017 01:49	WG975317
Benzene	U		0.000331	0.00100	1	05/01/2017 01:49	WG975317
Bromodichloromethane	U		0.000380	0.00100	1	05/01/2017 01:49	WG975317
Bromoform	U		0.000469	0.00100	1	05/01/2017 01:49	WG975317
Bromomethane	U		0.000866	0.00500	1	05/01/2017 01:49	WG975317
n-Butylbenzene	U		0.000361	0.00100	1	05/01/2017 01:49	WG975317

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		0.000365	0.00100	1	05/01/2017 01:49	WG975317
Carbon disulfide	U		0.000275	0.00100	1	05/01/2017 01:49	WG975317
Carbon tetrachloride	U		0.000379	0.00100	1	05/01/2017 01:49	WG975317
Chlorobenzene	U		0.000348	0.00100	1	05/01/2017 01:49	WG975317
Chlorodibromomethane	U		0.000327	0.00100	1	05/01/2017 01:49	WG975317
Chloroethane	U		0.000453	0.00500	1	05/01/2017 01:49	WG975317
Chloroform	U		0.000324	0.00500	1	05/01/2017 01:49	WG975317
Chloromethane	U		0.000276	0.00250	1	05/01/2017 01:49	WG975317
1,2-Dibromoethane	U		0.000381	0.00100	1	05/01/2017 01:49	WG975317
1,1-Dichloroethane	U		0.000259	0.00100	1	05/01/2017 01:49	WG975317
1,2-Dichloroethane	U		0.000361	0.00100	1	05/01/2017 01:49	WG975317
1,1-Dichloroethene	U		0.000398	0.00100	1	05/01/2017 01:49	WG975317
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	05/01/2017 01:49	WG975317
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	05/01/2017 01:49	WG975317
1,2-Dichloropropane	U		0.000306	0.00100	1	05/01/2017 01:49	WG975317
cis-1,3-Dichloropropene	U		0.000418	0.00100	1	05/01/2017 01:49	WG975317
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	05/01/2017 01:49	WG975317
Ethylbenzene	U		0.000384	0.00100	1	05/01/2017 01:49	WG975317
Isopropylbenzene	U		0.000326	0.00100	1	05/01/2017 01:49	WG975317
p-Isopropyltoluene	U		0.000350	0.00100	1	05/01/2017 01:49	WG975317
2-Butanone (MEK)	U		0.00393	0.0100	1	05/01/2017 01:49	WG975317
2-Hexanone	U		0.00382	0.0100	1	05/01/2017 01:49	WG975317
Methylene Chloride	U		0.00100	0.00500	1	05/01/2017 01:49	WG975317
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	05/01/2017 01:49	WG975317
Methyl tert-butyl ether	U		0.000367	0.00100	1	05/01/2017 01:49	WG975317
Naphthalene	U		0.00100	0.00500	1	05/01/2017 01:49	WG975317
n-Propylbenzene	U		0.000349	0.00100	1	05/01/2017 01:49	WG975317
Styrene	U		0.000307	0.00100	1	05/01/2017 01:49	WG975317
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	05/01/2017 01:49	WG975317
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	05/01/2017 01:49	WG975317
Tetrachloroethene	U		0.000372	0.00100	1	05/01/2017 01:49	WG975317
Toluene	U		0.000412	0.00100	1	05/01/2017 01:49	WG975317
1,1,1-Trichloroethane	U		0.000319	0.00100	1	05/01/2017 01:49	WG975317
1,1,2-Trichloroethane	U		0.000383	0.00100	1	05/01/2017 01:49	WG975317
Trichloroethene	U		0.000398	0.00100	1	05/01/2017 01:49	WG975317
1,2,4-Trimethylbenzene	U		0.000373	0.00100	1	05/01/2017 01:49	WG975317
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	05/01/2017 01:49	WG975317
Vinyl chloride	U		0.000259	0.00100	1	05/01/2017 01:49	WG975317
o-Xylene	U		0.000341	0.00100	1	05/01/2017 01:49	WG975317
m&p-Xylene	U		0.000719	0.00200	1	05/01/2017 01:49	WG975317
Xylenes, Total	U		0.00106	0.00300	1	05/01/2017 01:49	WG975317
(S) Toluene-d8	*105*			*80.0-120*		*05/01/2017 01:49*	WG975317
(S) Dibromofluoromethane	*112*			*76.0-123*		*05/01/2017 01:49*	WG975317
(S) 4-Bromofluorobenzene	*93.8*			*80.0-120*		*05/01/2017 01:49*	WG975317

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	0.276		0.0247	0.100	1	05/05/2017 16:55	WG975281
(S) o-Terphenyl	*65.2*			*31.0-160*		*05/05/2017 16:55*	WG975281

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Dissolved Solids	8460		2.82	10.0	1	04/29/2017 14:25	WG974907

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	U		0.197	1.00	10	05/02/2017 13:48	WG974950

Sample Narrative:

353.2 L905562-13 WG974950: 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	3070		5.19	100	100	05/01/2017 21:17	WG975161
Fluoride	3.15		0.00990	0.100	1	05/01/2017 20:00	WG975161
Sulfate	2730		7.74	500	100	05/01/2017 21:17	WG975161

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.0106		0.000250	0.00200	1	05/03/2017 03:50	WG975075
Arsenic,Dissolved	0.00532		0.000250	0.00200	1	05/03/2017 22:26	WG975066
Barium	0.0144		0.000360	0.00500	1	05/03/2017 03:50	WG975075
Barium,Dissolved	0.0129		0.000360	0.00500	1	05/03/2017 22:26	WG975066
Calcium	728		0.0460	1.00	1	05/03/2017 03:50	WG975075
Chromium	U		0.000540	0.00200	1	05/03/2017 17:31	WG975075
Chromium,Dissolved	U		0.000540	0.00200	1	05/03/2017 22:26	WG975066
Iron	4.54		0.0150	0.100	1	05/03/2017 17:31	WG975075
Iron,Dissolved	U		0.0150	0.100	1	05/03/2017 22:26	WG975066
Lead	0.000345	J	0.000240	0.00200	1	05/03/2017 03:50	WG975075
Lead,Dissolved	U		0.000240	0.00200	1	05/03/2017 22:26	WG975066
Manganese	1.48		0.000250	0.00500	1	05/03/2017 03:50	WG975075
Manganese,Dissolved	1.52		0.000250	0.00500	1	05/03/2017 22:26	WG975066
Potassium	3.11		0.0370	1.00	1	05/03/2017 03:50	WG975075
Selenium	0.00251		0.000380	0.00200	1	05/03/2017 03:50	WG975075
Selenium,Dissolved	U		0.000380	0.00200	1	05/03/2017 22:26	WG975066
Sodium	1600		1.10	10.0	10	05/03/2017 17:35	WG975075

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	0.0584	J	0.0314	0.100	1	04/29/2017 06:52	WG974979
(S) a,a,a-Trifluorotoluene(FID)	*97.5*			*77.0-122*		*04/29/2017 06:52*	WG974979

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		0.100	0.500	10	05/10/2017 14:37	WG975317
Benzene	U		0.00331	0.0100	10	05/10/2017 14:37	WG975317
Bromodichloromethane	U		0.00380	0.0100	10	05/10/2017 14:37	WG975317
Bromoform	U		0.00469	0.0100	10	05/10/2017 14:37	WG975317
Bromomethane	U		0.00866	0.0500	10	05/10/2017 14:37	WG975317
n-Butylbenzene	U		0.00361	0.0100	10	05/10/2017 14:37	WG975317

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		0.00365	0.0100	10	05/10/2017 14:37	WG975317
Carbon disulfide	U		0.00275	0.0100	10	05/10/2017 14:37	WG975317
Carbon tetrachloride	U		0.00379	0.0100	10	05/10/2017 14:37	WG975317
Chlorobenzene	U		0.00348	0.0100	10	05/10/2017 14:37	WG975317
Chlorodibromomethane	U		0.00327	0.0100	10	05/10/2017 14:37	WG975317
Chloroethane	U		0.00453	0.0500	10	05/10/2017 14:37	WG975317
Chloroform	U		0.00324	0.0500	10	05/10/2017 14:37	WG975317
Chloromethane	U		0.00276	0.0250	10	05/10/2017 14:37	WG975317
1,2-Dibromoethane	U		0.00381	0.0100	10	05/10/2017 14:37	WG975317
1,1-Dichloroethane	U		0.00259	0.0100	10	05/10/2017 14:37	WG975317
1,2-Dichloroethane	U		0.00361	0.0100	10	05/10/2017 14:37	WG975317
1,1-Dichloroethene	U		0.00398	0.0100	10	05/10/2017 14:37	WG975317
cis-1,2-Dichloroethene	U		0.00260	0.0100	10	05/10/2017 14:37	WG975317
trans-1,2-Dichloroethene	U		0.00396	0.0100	10	05/10/2017 14:37	WG975317
1,2-Dichloropropane	U		0.00306	0.0100	10	05/10/2017 14:37	WG975317
cis-1,3-Dichloropropene	U		0.00418	0.0100	10	05/10/2017 14:37	WG975317
trans-1,3-Dichloropropene	U		0.00419	0.0100	10	05/10/2017 14:37	WG975317
Ethylbenzene	U		0.00384	0.0100	10	05/10/2017 14:37	WG975317
Isopropylbenzene	U		0.00326	0.0100	10	05/10/2017 14:37	WG975317
p-Isopropyltoluene	U		0.00350	0.0100	10	05/10/2017 14:37	WG975317
2-Butanone (MEK)	U		0.0393	0.100	10	05/10/2017 14:37	WG975317
2-Hexanone	U		0.0382	0.100	10	05/10/2017 14:37	WG975317
Methylene Chloride	U		0.0100	0.0500	10	05/10/2017 14:37	WG975317
4-Methyl-2-pentanone (MIBK)	U		0.0214	0.100	10	05/10/2017 14:37	WG975317
Methyl tert-butyl ether	U		0.00367	0.0100	10	05/10/2017 14:37	WG975317
Naphthalene	U		0.0100	0.0500	10	05/10/2017 14:37	WG975317
n-Propylbenzene	U		0.00349	0.0100	10	05/10/2017 14:37	WG975317
Styrene	U		0.00307	0.0100	10	05/10/2017 14:37	WG975317
1,1,1,2-Tetrachloroethane	U		0.00385	0.0100	10	05/10/2017 14:37	WG975317
1,1,2,2-Tetrachloroethane	U		0.00130	0.0100	10	05/10/2017 14:37	WG975317
Tetrachloroethene	U		0.00372	0.0100	10	05/10/2017 14:37	WG975317
Toluene	U		0.00412	0.0100	10	05/10/2017 14:37	WG975317
1,1,1-Trichloroethane	U		0.00319	0.0100	10	05/10/2017 14:37	WG975317
1,1,2-Trichloroethane	U		0.00383	0.0100	10	05/10/2017 14:37	WG975317
Trichloroethene	U		0.00398	0.0100	10	05/10/2017 14:37	WG975317
1,2,4-Trimethylbenzene	U		0.00373	0.0100	10	05/10/2017 14:37	WG975317
1,3,5-Trimethylbenzene	U		0.00387	0.0100	10	05/10/2017 14:37	WG975317
Vinyl chloride	U		0.00259	0.0100	10	05/10/2017 14:37	WG975317
o-Xylene	U		0.00341	0.0100	10	05/10/2017 14:37	WG975317
m&p-Xylene	U		0.00719	0.0200	10	05/10/2017 14:37	WG975317
Xylenes, Total	U		0.0106	0.0300	10	05/10/2017 14:37	WG975317
(S) Toluene-d8	*103*			*80.0-120*		*05/10/2017 14:37*	WG975317
(S) Dibromofluoromethane	*101*			*76.0-123*		*05/10/2017 14:37*	WG975317
(S) 4-Bromofluorobenzene	*98.8*			*80.0-120*		*05/10/2017 14:37*	WG975317

Sample Narrative:

8260B L905562-13 WG975317: Lowest possible dilution due to sample foaming.

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	0.813		0.0247	0.100	1	05/05/2017 06:36	WG975281
(S) o-Terphenyl	*69.3*			*31.0-160*		*05/05/2017 06:36*	WG975281

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Dissolved Solids	5100		2.82	10.0	1	04/29/2017 14:56	WG974911

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	1.19		0.197	1.00	10	05/02/2017 13:49	WG974950

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	1210		5.19	100	100	05/01/2017 21:32	WG975161
Fluoride	4.69		0.00990	0.100	1	05/01/2017 20:15	WG975161
Sulfate	2840		7.74	500	100	05/01/2017 21:32	WG975161

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.0322		0.000250	0.00200	1	05/03/2017 03:54	WG975075
Arsenic,Dissolved	0.0244		0.000250	0.00200	1	05/03/2017 22:30	WG975066
Barium	0.0128		0.000360	0.00500	1	05/03/2017 03:54	WG975075
Barium,Dissolved	0.0128		0.000360	0.00500	1	05/03/2017 22:30	WG975066
Calcium	597		0.0460	1.00	1	05/03/2017 03:54	WG975075
Chromium	U		0.000540	0.00200	1	05/03/2017 17:38	WG975075
Chromium,Dissolved	U		0.000540	0.00200	1	05/03/2017 22:30	WG975066
Iron	0.304		0.0150	0.100	1	05/03/2017 17:38	WG975075
Iron,Dissolved	U		0.0150	0.100	1	05/03/2017 22:30	WG975066
Lead	U		0.000240	0.00200	1	05/03/2017 03:54	WG975075
Lead,Dissolved	U		0.000240	0.00200	1	05/03/2017 22:30	WG975066
Manganese	2.66		0.000250	0.00500	1	05/03/2017 03:54	WG975075
Manganese,Dissolved	2.60		0.000250	0.00500	1	05/03/2017 22:30	WG975066
Potassium	2.87		0.0370	1.00	1	05/03/2017 03:54	WG975075
Selenium	0.00468		0.000380	0.00200	1	05/03/2017 03:54	WG975075
Selenium,Dissolved	0.00560		0.000380	0.00200	1	05/03/2017 22:30	WG975066
Sodium	862		0.110	1.00	1	05/03/2017 17:38	WG975075

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
TPH (GC/FID) Low Fraction	U		0.0314	0.100	1	04/29/2017 07:14	WG974979
(S) a,a,a-Trifluorotoluene(FID)	*95.2*			*77.0-122*		*04/29/2017 07:14*	WG974979

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		0.0100	0.0500	1	05/01/2017 02:33	WG975317
Benzene	U		0.000331	0.00100	1	05/01/2017 02:33	WG975317
Bromodichloromethane	U		0.000380	0.00100	1	05/01/2017 02:33	WG975317
Bromoform	U		0.000469	0.00100	1	05/01/2017 02:33	WG975317
Bromomethane	U		0.000866	0.00500	1	05/01/2017 02:33	WG975317
n-Butylbenzene	U		0.000361	0.00100	1	05/01/2017 02:33	WG975317
sec-Butylbenzene	U		0.000365	0.00100	1	05/01/2017 02:33	WG975317
Carbon disulfide	U		0.000275	0.00100	1	05/01/2017 02:33	WG975317
Carbon tetrachloride	U		0.000379	0.00100	1	05/01/2017 02:33	WG975317

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chlorobenzene	U		0.000348	0.00100	1	05/01/2017 02:33	WG975317
Chlorodibromomethane	U		0.000327	0.00100	1	05/01/2017 02:33	WG975317
Chloroethane	U		0.000453	0.00500	1	05/01/2017 02:33	WG975317
Chloroform	U		0.000324	0.00500	1	05/01/2017 02:33	WG975317
Chloromethane	U		0.000276	0.00250	1	05/01/2017 02:33	WG975317
1,2-Dibromoethane	U		0.000381	0.00100	1	05/01/2017 02:33	WG975317
1,1-Dichloroethane	U		0.000259	0.00100	1	05/01/2017 02:33	WG975317
1,2-Dichloroethane	U		0.000361	0.00100	1	05/01/2017 02:33	WG975317
1,1-Dichloroethene	U		0.000398	0.00100	1	05/01/2017 02:33	WG975317
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	05/01/2017 02:33	WG975317
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	05/01/2017 02:33	WG975317
1,2-Dichloropropane	U		0.000306	0.00100	1	05/01/2017 02:33	WG975317
cis-1,3-Dichloropropene	U		0.000418	0.00100	1	05/01/2017 02:33	WG975317
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	05/01/2017 02:33	WG975317
Ethylbenzene	U		0.000384	0.00100	1	05/01/2017 02:33	WG975317
Isopropylbenzene	U		0.000326	0.00100	1	05/01/2017 02:33	WG975317
p-Isopropyltoluene	U		0.000350	0.00100	1	05/01/2017 02:33	WG975317
2-Butanone (MEK)	U		0.00393	0.0100	1	05/01/2017 02:33	WG975317
2-Hexanone	U		0.00382	0.0100	1	05/01/2017 02:33	WG975317
Methylene Chloride	U		0.00100	0.00500	1	05/01/2017 02:33	WG975317
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	05/01/2017 02:33	WG975317
Methyl tert-butyl ether	U		0.000367	0.00100	1	05/01/2017 02:33	WG975317
Naphthalene	U		0.00100	0.00500	1	05/01/2017 02:33	WG975317
n-Propylbenzene	U		0.000349	0.00100	1	05/01/2017 02:33	WG975317
Styrene	U		0.000307	0.00100	1	05/01/2017 02:33	WG975317
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	05/01/2017 02:33	WG975317
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	05/01/2017 02:33	WG975317
Tetrachloroethene	U		0.000372	0.00100	1	05/01/2017 02:33	WG975317
Toluene	U		0.000412	0.00100	1	05/01/2017 02:33	WG975317
1,1,1-Trichloroethane	U		0.000319	0.00100	1	05/01/2017 02:33	WG975317
1,1,2-Trichloroethane	U		0.000383	0.00100	1	05/01/2017 02:33	WG975317
Trichloroethene	U		0.000398	0.00100	1	05/01/2017 02:33	WG975317
1,2,4-Trimethylbenzene	U		0.000373	0.00100	1	05/01/2017 02:33	WG975317
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	05/01/2017 02:33	WG975317
Vinyl chloride	U		0.000259	0.00100	1	05/01/2017 02:33	WG975317
o-Xylene	U		0.000341	0.00100	1	05/01/2017 02:33	WG975317
m&p-Xylene	U		0.000719	0.00200	1	05/01/2017 02:33	WG975317
Xylenes, Total	U		0.00106	0.00300	1	05/01/2017 02:33	WG975317
(S) Toluene-d8	*105*			*80.0-120*		*05/01/2017 02:33*	WG975317
(S) Dibromofluoromethane	*116*			*76.0-123*		*05/01/2017 02:33*	WG975317
(S) 4-Bromofluorobenzene	*94.2*			*80.0-120*		*05/01/2017 02:33*	WG975317

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	0.428		0.0247	0.100	1	05/05/2017 06:53	WG975281
(S) o-Terphenyl	*64.2*			*31.0-160*		*05/05/2017 06:53*	WG975281

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Dissolved Solids	9360		2.82	10.0	1	04/29/2017 14:56	WG974911

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	U		0.197	1.00	10	05/02/2017 13:50	WG974950

Sample Narrative:

353.2 L905562-15 WG974950: 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	1850		5.19	100	100	05/01/2017 21:47	WG975161
Fluoride	5.68		0.00990	0.100	1	05/01/2017 20:30	WG975161
Sulfate	4690		7.74	500	100	05/01/2017 21:47	WG975161

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.0798		0.000250	0.00200	1	05/03/2017 03:57	WG975075
Arsenic,Dissolved	0.0740		0.000250	0.00200	1	05/03/2017 22:33	WG975066
Barium	0.0132		0.000360	0.00500	1	05/03/2017 03:57	WG975075
Barium,Dissolved	0.0130		0.000360	0.00500	1	05/03/2017 22:33	WG975066
Calcium	573		0.0460	1.00	1	05/03/2017 03:57	WG975075
Chromium	0.000849	J	0.000540	0.00200	1	05/03/2017 17:42	WG975075
Chromium,Dissolved	0.00227		0.000540	0.00200	1	05/03/2017 22:33	WG975066
Iron	0.439		0.0150	0.100	1	05/03/2017 17:42	WG975075
Iron,Dissolved	0.0725	J	0.0150	0.100	1	05/03/2017 22:33	WG975066
Lead	0.000346	J	0.000240	0.00200	1	05/03/2017 03:57	WG975075
Lead,Dissolved	U		0.000240	0.00200	1	05/03/2017 22:33	WG975066
Manganese	2.28		0.000250	0.00500	1	05/03/2017 03:57	WG975075
Manganese,Dissolved	2.46		0.000250	0.00500	1	05/03/2017 22:33	WG975066
Potassium	8.06		0.0370	1.00	1	05/03/2017 03:57	WG975075
Selenium	0.00527		0.000380	0.00200	1	05/03/2017 03:57	WG975075
Selenium,Dissolved	0.00472		0.000380	0.00200	1	05/03/2017 22:33	WG975066
Sodium	1430		1.10	10.0	10	05/03/2017 19:34	WG975075

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		0.314	1.00	10	04/29/2017 07:36	WG974979
(S) a,a,a-Trifluorotoluene(FID)	*98.4*			*77.0-122*		*04/29/2017 07:36*	WG974979

Sample Narrative:

8015D/GRO L905562-15 WG974979: 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		0.100	0.500	10	05/10/2017 14:50	WG975317
Benzene	U		0.00331	0.0100	10	05/10/2017 14:50	WG975317
Bromodichloromethane	U		0.00380	0.0100	10	05/10/2017 14:50	WG975317

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

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Bromoform	U		0.00469	0.0100	10	05/10/2017 14:50	WG975317
Bromomethane	U		0.00866	0.0500	10	05/10/2017 14:50	WG975317
n-Butylbenzene	U		0.00361	0.0100	10	05/10/2017 14:50	WG975317
sec-Butylbenzene	U		0.00365	0.0100	10	05/10/2017 14:50	WG975317
Carbon disulfide	U		0.00275	0.0100	10	05/10/2017 14:50	WG975317
Carbon tetrachloride	U		0.00379	0.0100	10	05/10/2017 14:50	WG975317
Chlorobenzene	U		0.00348	0.0100	10	05/10/2017 14:50	WG975317
Chlorodibromomethane	U		0.00327	0.0100	10	05/10/2017 14:50	WG975317
Chloroethane	U		0.00453	0.0500	10	05/10/2017 14:50	WG975317
Chloroform	U		0.00324	0.0500	10	05/10/2017 14:50	WG975317
Chloromethane	U		0.00276	0.0250	10	05/10/2017 14:50	WG975317
1,2-Dibromoethane	U		0.00381	0.0100	10	05/10/2017 14:50	WG975317
1,1-Dichloroethane	U		0.00259	0.0100	10	05/10/2017 14:50	WG975317
1,2-Dichloroethane	U		0.00361	0.0100	10	05/10/2017 14:50	WG975317
1,1-Dichloroethene	U		0.00398	0.0100	10	05/10/2017 14:50	WG975317
cis-1,2-Dichloroethene	U		0.00260	0.0100	10	05/10/2017 14:50	WG975317
trans-1,2-Dichloroethene	U		0.00396	0.0100	10	05/10/2017 14:50	WG975317
1,2-Dichloropropane	U		0.00306	0.0100	10	05/10/2017 14:50	WG975317
cis-1,3-Dichloropropene	U		0.00418	0.0100	10	05/10/2017 14:50	WG975317
trans-1,3-Dichloropropene	U		0.00419	0.0100	10	05/10/2017 14:50	WG975317
Ethylbenzene	U		0.00384	0.0100	10	05/10/2017 14:50	WG975317
Isopropylbenzene	U		0.00326	0.0100	10	05/10/2017 14:50	WG975317
p-Isopropyltoluene	U		0.00350	0.0100	10	05/10/2017 14:50	WG975317
2-Butanone (MEK)	U		0.0393	0.100	10	05/10/2017 14:50	WG975317
2-Hexanone	U		0.0382	0.100	10	05/10/2017 14:50	WG975317
Methylene Chloride	U		0.0100	0.0500	10	05/10/2017 14:50	WG975317
4-Methyl-2-pentanone (MIBK)	U		0.0214	0.100	10	05/10/2017 14:50	WG975317
Methyl tert-butyl ether	U		0.00367	0.0100	10	05/10/2017 14:50	WG975317
Naphthalene	U		0.0100	0.0500	10	05/10/2017 14:50	WG975317
n-Propylbenzene	U		0.00349	0.0100	10	05/10/2017 14:50	WG975317
Styrene	U		0.00307	0.0100	10	05/10/2017 14:50	WG975317
1,1,1,2-Tetrachloroethane	U		0.00385	0.0100	10	05/10/2017 14:50	WG975317
1,1,2,2-Tetrachloroethane	U		0.00130	0.0100	10	05/10/2017 14:50	WG975317
Tetrachloroethene	U		0.00372	0.0100	10	05/10/2017 14:50	WG975317
Toluene	U		0.00412	0.0100	10	05/10/2017 14:50	WG975317
1,1,1-Trichloroethane	U		0.00319	0.0100	10	05/10/2017 14:50	WG975317
1,1,2-Trichloroethane	U		0.00383	0.0100	10	05/10/2017 14:50	WG975317
Trichloroethene	U		0.00398	0.0100	10	05/10/2017 14:50	WG975317
1,2,4-Trimethylbenzene	U		0.00373	0.0100	10	05/10/2017 14:50	WG975317
1,3,5-Trimethylbenzene	U		0.00387	0.0100	10	05/10/2017 14:50	WG975317
Vinyl chloride	U		0.00259	0.0100	10	05/10/2017 14:50	WG975317
o-Xylene	U		0.00341	0.0100	10	05/10/2017 14:50	WG975317
m&p-Xylene	U		0.00719	0.0200	10	05/10/2017 14:50	WG975317
Xylenes, Total	U		0.0106	0.0300	10	05/10/2017 14:50	WG975317
(S) Toluene-d8	*103*			*80.0-120*		*05/10/2017 14:50*	WG975317
(S) Dibromofluoromethane	*102*			*76.0-123*		*05/10/2017 14:50*	WG975317
(S) 4-Bromofluorobenzene	*99.7*			*80.0-120*		*05/10/2017 14:50*	WG975317

Sample Narrative:

8260B L905562-15 WG975317: 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	4.92		0.494	2.00	20	05/08/2017 16:31	WG975281
(S) o-Terphenyl	*2.30*	J7		*31.0-160*		*05/08/2017 16:31*	WG975281

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Dissolved Solids	9060		2.82	10.0	1	04/29/2017 14:56	WG974911

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	U		0.197	1.00	10	05/02/2017 13:51	WG974950

Sample Narrative:

353.2 L905562-16 WG974950: 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	2700		5.19	100	100	05/01/2017 23:51	WG975161
Fluoride	3.71		0.00990	0.100	1	05/01/2017 22:34	WG975161
Sulfate	3900		7.74	500	100	05/01/2017 23:51	WG975161

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.00519		0.000250	0.00200	1	05/03/2017 04:01	WG975075
Arsenic,Dissolved	0.00436		0.000250	0.00200	1	05/03/2017 22:37	WG975066
Barium	0.0300		0.000360	0.00500	1	05/03/2017 04:01	WG975075
Barium,Dissolved	0.0292		0.000360	0.00500	1	05/03/2017 22:37	WG975066
Calcium	632		0.0460	1.00	1	05/03/2017 04:01	WG975075
Chromium	U		0.000540	0.00200	1	05/03/2017 19:37	WG975075
Chromium,Dissolved	U		0.000540	0.00200	1	05/03/2017 22:37	WG975066
Iron	2.02		0.0150	0.100	1	05/03/2017 19:37	WG975075
Iron,Dissolved	U		0.0150	0.100	1	05/03/2017 22:37	WG975066
Lead	U		0.000240	0.00200	1	05/03/2017 04:01	WG975075
Lead,Dissolved	U		0.000240	0.00200	1	05/03/2017 22:37	WG975066
Manganese	2.03		0.000250	0.00500	1	05/03/2017 04:01	WG975075
Manganese,Dissolved	2.16		0.000250	0.00500	1	05/03/2017 22:37	WG975066
Potassium	5.19		0.0370	1.00	1	05/03/2017 04:01	WG975075
Selenium	0.000551	J	0.000380	0.00200	1	05/03/2017 04:01	WG975075
Selenium,Dissolved	0.000462	J	0.000380	0.00200	1	05/03/2017 22:37	WG975066
Sodium	1770		1.10	10.0	10	05/03/2017 19:40	WG975075

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
TPH (GC/FID) Low Fraction	U		0.0314	0.100	1	04/29/2017 07:59	WG974979
(S) a,a,a-Trifluorotoluene(FID)	*95.2*			*77.0-122*		*04/29/2017 07:59*	WG974979

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		0.100	0.500	10	05/10/2017 15:03	WG975317
Benzene	U		0.00331	0.0100	10	05/10/2017 15:03	WG975317
Bromodichloromethane	U		0.00380	0.0100	10	05/10/2017 15:03	WG975317
Bromoform	U		0.00469	0.0100	10	05/10/2017 15:03	WG975317
Bromomethane	U		0.00866	0.0500	10	05/10/2017 15:03	WG975317
n-Butylbenzene	U		0.00361	0.0100	10	05/10/2017 15:03	WG975317

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		0.00365	0.0100	10	05/10/2017 15:03	WG975317
Carbon disulfide	U		0.00275	0.0100	10	05/10/2017 15:03	WG975317
Carbon tetrachloride	U		0.00379	0.0100	10	05/10/2017 15:03	WG975317
Chlorobenzene	U		0.00348	0.0100	10	05/10/2017 15:03	WG975317
Chlorodibromomethane	U		0.00327	0.0100	10	05/10/2017 15:03	WG975317
Chloroethane	U		0.00453	0.0500	10	05/10/2017 15:03	WG975317
Chloroform	U		0.00324	0.0500	10	05/10/2017 15:03	WG975317
Chloromethane	U		0.00276	0.0250	10	05/10/2017 15:03	WG975317
1,2-Dibromoethane	U		0.00381	0.0100	10	05/10/2017 15:03	WG975317
1,1-Dichloroethane	U		0.00259	0.0100	10	05/10/2017 15:03	WG975317
1,2-Dichloroethane	U		0.00361	0.0100	10	05/10/2017 15:03	WG975317
1,1-Dichloroethene	U		0.00398	0.0100	10	05/10/2017 15:03	WG975317
cis-1,2-Dichloroethene	U		0.00260	0.0100	10	05/10/2017 15:03	WG975317
trans-1,2-Dichloroethene	U		0.00396	0.0100	10	05/10/2017 15:03	WG975317
1,2-Dichloropropane	U		0.00306	0.0100	10	05/10/2017 15:03	WG975317
cis-1,3-Dichloropropene	U		0.00418	0.0100	10	05/10/2017 15:03	WG975317
trans-1,3-Dichloropropene	U		0.00419	0.0100	10	05/10/2017 15:03	WG975317
Ethylbenzene	U		0.00384	0.0100	10	05/10/2017 15:03	WG975317
Isopropylbenzene	U		0.00326	0.0100	10	05/10/2017 15:03	WG975317
p-Isopropyltoluene	U		0.00350	0.0100	10	05/10/2017 15:03	WG975317
2-Butanone (MEK)	U		0.0393	0.100	10	05/10/2017 15:03	WG975317
2-Hexanone	U		0.0382	0.100	10	05/10/2017 15:03	WG975317
Methylene Chloride	U		0.0100	0.0500	10	05/10/2017 15:03	WG975317
4-Methyl-2-pentanone (MIBK)	U		0.0214	0.100	10	05/10/2017 15:03	WG975317
Methyl tert-butyl ether	U		0.00367	0.0100	10	05/10/2017 15:03	WG975317
Naphthalene	U		0.0100	0.0500	10	05/10/2017 15:03	WG975317
n-Propylbenzene	U		0.00349	0.0100	10	05/10/2017 15:03	WG975317
Styrene	U		0.00307	0.0100	10	05/10/2017 15:03	WG975317
1,1,1,2-Tetrachloroethane	U		0.00385	0.0100	10	05/10/2017 15:03	WG975317
1,1,2,2-Tetrachloroethane	U		0.00130	0.0100	10	05/10/2017 15:03	WG975317
Tetrachloroethene	U		0.00372	0.0100	10	05/10/2017 15:03	WG975317
Toluene	U		0.00412	0.0100	10	05/10/2017 15:03	WG975317
1,1,1-Trichloroethane	U		0.00319	0.0100	10	05/10/2017 15:03	WG975317
1,1,2-Trichloroethane	U		0.00383	0.0100	10	05/10/2017 15:03	WG975317
Trichloroethene	U		0.00398	0.0100	10	05/10/2017 15:03	WG975317
1,2,4-Trimethylbenzene	U		0.00373	0.0100	10	05/10/2017 15:03	WG975317
1,3,5-Trimethylbenzene	U		0.00387	0.0100	10	05/10/2017 15:03	WG975317
Vinyl chloride	U		0.00259	0.0100	10	05/10/2017 15:03	WG975317
o-Xylene	U		0.00341	0.0100	10	05/10/2017 15:03	WG975317
m&p-Xylene	U		0.00719	0.0200	10	05/10/2017 15:03	WG975317
Xylenes, Total	U		0.0106	0.0300	10	05/10/2017 15:03	WG975317
(S) Toluene-d8	*103*			*80.0-120*		*05/10/2017 15:03*	WG975317
(S) Dibromofluoromethane	*104*			*76.0-123*		*05/10/2017 15:03*	WG975317
(S) 4-Bromofluorobenzene	*98.3*			*80.0-120*		*05/10/2017 15:03*	WG975317

Sample Narrative:

8260B L905562-16 WG975317: Lowest possible dilution due to sample foaming.

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	0.850		0.0247	0.100	1	05/05/2017 07:11	WG975281
(S) o-Terphenyl	*66.5*			*31.0-160*		*05/05/2017 07:11*	WG975281

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Dissolved Solids	6880		2.82	10.0	1	04/29/2017 14:56	WG974911

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	80.5		0.197	1.00	10	05/02/2017 15:02	WG975586

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	1370		5.19	100	100	05/02/2017 00:06	WG975161
Fluoride	7.55		0.00990	0.100	1	05/01/2017 22:49	WG975161
Sulfate	3050		7.74	500	100	05/02/2017 00:06	WG975161

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.0157		0.000250	0.00200	1	05/03/2017 04:04	WG975075
Arsenic,Dissolved	0.0160		0.000250	0.00200	1	05/03/2017 22:40	WG975066
Barium	0.0144		0.000360	0.00500	1	05/03/2017 04:04	WG975075
Barium,Dissolved	0.0144		0.000360	0.00500	1	05/03/2017 22:40	WG975066
Calcium	560		0.0460	1.00	1	05/03/2017 04:04	WG975075
Chromium	U		0.000540	0.00200	1	05/03/2017 19:44	WG975075
Chromium,Dissolved	U		0.000540	0.00200	1	05/03/2017 22:40	WG975066
Iron	U		0.0150	0.100	1	05/03/2017 19:44	WG975075
Iron,Dissolved	U		0.0150	0.100	1	05/03/2017 22:40	WG975066
Lead	0.000248	J	0.000240	0.00200	1	05/03/2017 04:04	WG975075
Lead,Dissolved	U		0.000240	0.00200	1	05/03/2017 22:40	WG975066
Manganese	0.0117		0.000250	0.00500	1	05/03/2017 04:04	WG975075
Manganese,Dissolved	0.00250	J	0.000250	0.00500	1	05/03/2017 22:40	WG975066
Potassium	9.28		0.0370	1.00	1	05/03/2017 04:04	WG975075
Selenium	0.0182		0.000380	0.00200	1	05/03/2017 04:04	WG975075
Selenium,Dissolved	0.0169		0.000380	0.00200	1	05/03/2017 22:40	WG975066
Sodium	1260		0.550	5.00	5	05/03/2017 19:48	WG975075

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
TPH (GC/FID) Low Fraction	U		0.0314	0.100	1	04/29/2017 08:21	WG974979
(S) a,a,a-Trifluorotoluene(FID)	*95.7*			*77.0-122*		*04/29/2017 08:21*	WG974979

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		0.0100	0.0500	1	05/01/2017 03:40	WG975317
Benzene	U		0.000331	0.00100	1	05/01/2017 03:40	WG975317
Bromodichloromethane	U		0.000380	0.00100	1	05/01/2017 03:40	WG975317
Bromoform	U		0.000469	0.00100	1	05/01/2017 03:40	WG975317
Bromomethane	U		0.000866	0.00500	1	05/01/2017 03:40	WG975317
n-Butylbenzene	U		0.000361	0.00100	1	05/01/2017 03:40	WG975317
sec-Butylbenzene	U		0.000365	0.00100	1	05/01/2017 03:40	WG975317
Carbon disulfide	U		0.000275	0.00100	1	05/01/2017 03:40	WG975317
Carbon tetrachloride	U		0.000379	0.00100	1	05/01/2017 03:40	WG975317

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chlorobenzene	U		0.000348	0.00100	1	05/01/2017 03:40	WG975317
Chlorodibromomethane	U		0.000327	0.00100	1	05/01/2017 03:40	WG975317
Chloroethane	U		0.000453	0.00500	1	05/01/2017 03:40	WG975317
Chloroform	U		0.000324	0.00500	1	05/01/2017 03:40	WG975317
Chloromethane	U		0.000276	0.00250	1	05/01/2017 03:40	WG975317
1,2-Dibromoethane	U		0.000381	0.00100	1	05/01/2017 03:40	WG975317
1,1-Dichloroethane	U		0.000259	0.00100	1	05/01/2017 03:40	WG975317
1,2-Dichloroethane	U		0.000361	0.00100	1	05/01/2017 03:40	WG975317
1,1-Dichloroethene	U		0.000398	0.00100	1	05/01/2017 03:40	WG975317
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	05/01/2017 03:40	WG975317
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	05/01/2017 03:40	WG975317
1,2-Dichloropropane	U		0.000306	0.00100	1	05/01/2017 03:40	WG975317
cis-1,3-Dichloropropene	U		0.000418	0.00100	1	05/01/2017 03:40	WG975317
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	05/01/2017 03:40	WG975317
Ethylbenzene	U		0.000384	0.00100	1	05/01/2017 03:40	WG975317
Isopropylbenzene	U		0.000326	0.00100	1	05/01/2017 03:40	WG975317
p-Isopropyltoluene	U		0.000350	0.00100	1	05/01/2017 03:40	WG975317
2-Butanone (MEK)	U		0.00393	0.0100	1	05/01/2017 03:40	WG975317
2-Hexanone	U		0.00382	0.0100	1	05/01/2017 03:40	WG975317
Methylene Chloride	U		0.00100	0.00500	1	05/01/2017 03:40	WG975317
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	05/01/2017 03:40	WG975317
Methyl tert-butyl ether	U		0.000367	0.00100	1	05/01/2017 03:40	WG975317
Naphthalene	U		0.00100	0.00500	1	05/01/2017 03:40	WG975317
n-Propylbenzene	U		0.000349	0.00100	1	05/01/2017 03:40	WG975317
Styrene	U		0.000307	0.00100	1	05/01/2017 03:40	WG975317
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	05/01/2017 03:40	WG975317
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	05/01/2017 03:40	WG975317
Tetrachloroethene	U		0.000372	0.00100	1	05/01/2017 03:40	WG975317
Toluene	U		0.000412	0.00100	1	05/01/2017 03:40	WG975317
1,1,1-Trichloroethane	U		0.000319	0.00100	1	05/01/2017 03:40	WG975317
1,1,2-Trichloroethane	U		0.000383	0.00100	1	05/01/2017 03:40	WG975317
Trichloroethene	U		0.000398	0.00100	1	05/01/2017 03:40	WG975317
1,2,4-Trimethylbenzene	U		0.000373	0.00100	1	05/01/2017 03:40	WG975317
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	05/01/2017 03:40	WG975317
Vinyl chloride	U		0.000259	0.00100	1	05/01/2017 03:40	WG975317
o-Xylene	U		0.000341	0.00100	1	05/01/2017 03:40	WG975317
m&p-Xylene	U		0.000719	0.00200	1	05/01/2017 03:40	WG975317
Xylenes, Total	U		0.00106	0.00300	1	05/01/2017 03:40	WG975317
(S) Toluene-d8	*106*			*80.0-120*		*05/01/2017 03:40*	WG975317
(S) Dibromofluoromethane	*113*			*76.0-123*		*05/01/2017 03:40*	WG975317
(S) 4-Bromofluorobenzene	*95.3*			*80.0-120*		*05/01/2017 03:40*	WG975317

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
TPH (GC/FID) High Fraction	4.84		0.0247	0.100	1	05/05/2017 07:28	WG975281
(S) o-Terphenyl	*71.0*			*31.0-160*		*05/05/2017 07:28*	WG975281

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Dissolved Solids	7920		2.82	10.0	1	04/29/2017 14:56	WG974911

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	2.63		0.197	1.00	10	05/02/2017 15:03	WG975586

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	2530		5.19	100	100	05/02/2017 00:21	WG975161
Fluoride	3.59		0.00990	0.100	1	05/01/2017 23:04	WG975161
Sulfate	2640		7.74	500	100	05/02/2017 00:21	WG975161

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.00643		0.000250	0.00200	1	05/03/2017 04:08	WG975075
Arsenic,Dissolved	0.00597		0.000250	0.00200	1	05/03/2017 22:44	WG975066
Barium	0.0173		0.000360	0.00500	1	05/03/2017 04:08	WG975075
Barium,Dissolved	0.0166		0.000360	0.00500	1	05/03/2017 22:44	WG975066
Calcium	759		0.0460	1.00	1	05/03/2017 04:08	WG975075
Chromium	0.00138	J	0.000540	0.00200	1	05/03/2017 19:51	WG975075
Chromium,Dissolved	U		0.000540	0.00200	1	05/03/2017 22:44	WG975066
Iron	0.160		0.0150	0.100	1	05/03/2017 19:51	WG975075
Iron,Dissolved	U		0.0150	0.100	1	05/03/2017 22:44	WG975066
Lead	U		0.000240	0.00200	1	05/03/2017 04:08	WG975075
Lead,Dissolved	U		0.000240	0.00200	1	05/03/2017 22:44	WG975066
Manganese	0.598		0.000250	0.00500	1	05/03/2017 04:08	WG975075
Manganese,Dissolved	0.587		0.000250	0.00500	1	05/03/2017 22:44	WG975066
Potassium	3.53		0.0370	1.00	1	05/03/2017 04:08	WG975075
Selenium	0.00218		0.000380	0.00200	1	05/03/2017 04:08	WG975075
Selenium,Dissolved	0.00205		0.000380	0.00200	1	05/03/2017 22:44	WG975066
Sodium	1230		0.550	5.00	5	05/03/2017 19:55	WG975075

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
TPH (GC/FID) Low Fraction	U		0.0314	0.100	1	04/29/2017 08:43	WG974979
(S) a,a,a-Trifluorotoluene(FID)	*95.9*			*77.0-122*		*04/29/2017 08:43*	WG974979

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		0.0100	0.0500	1	05/01/2017 04:02	WG975317
Benzene	U		0.000331	0.00100	1	05/01/2017 04:02	WG975317
Bromodichloromethane	U		0.000380	0.00100	1	05/01/2017 04:02	WG975317
Bromoform	U		0.000469	0.00100	1	05/01/2017 04:02	WG975317
Bromomethane	U		0.000866	0.00500	1	05/01/2017 04:02	WG975317
n-Butylbenzene	U		0.000361	0.00100	1	05/01/2017 04:02	WG975317
sec-Butylbenzene	U		0.000365	0.00100	1	05/01/2017 04:02	WG975317
Carbon disulfide	U		0.000275	0.00100	1	05/01/2017 04:02	WG975317
Carbon tetrachloride	U		0.000379	0.00100	1	05/01/2017 04:02	WG975317

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chlorobenzene	U		0.000348	0.00100	1	05/01/2017 04:02	WG975317
Chlorodibromomethane	U		0.000327	0.00100	1	05/01/2017 04:02	WG975317
Chloroethane	U		0.000453	0.00500	1	05/01/2017 04:02	WG975317
Chloroform	U		0.000324	0.00500	1	05/01/2017 04:02	WG975317
Chloromethane	U		0.000276	0.00250	1	05/01/2017 04:02	WG975317
1,2-Dibromoethane	U		0.000381	0.00100	1	05/01/2017 04:02	WG975317
1,1-Dichloroethane	U		0.000259	0.00100	1	05/01/2017 04:02	WG975317
1,2-Dichloroethane	U		0.000361	0.00100	1	05/01/2017 04:02	WG975317
1,1-Dichloroethene	U		0.000398	0.00100	1	05/01/2017 04:02	WG975317
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	05/01/2017 04:02	WG975317
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	05/01/2017 04:02	WG975317
1,2-Dichloropropane	U		0.000306	0.00100	1	05/01/2017 04:02	WG975317
cis-1,3-Dichloropropene	U		0.000418	0.00100	1	05/01/2017 04:02	WG975317
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	05/01/2017 04:02	WG975317
Ethylbenzene	U		0.000384	0.00100	1	05/01/2017 04:02	WG975317
Isopropylbenzene	U		0.000326	0.00100	1	05/01/2017 04:02	WG975317
p-Isopropyltoluene	U		0.000350	0.00100	1	05/01/2017 04:02	WG975317
2-Butanone (MEK)	U		0.00393	0.0100	1	05/01/2017 04:02	WG975317
2-Hexanone	U		0.00382	0.0100	1	05/01/2017 04:02	WG975317
Methylene Chloride	U		0.00100	0.00500	1	05/01/2017 04:02	WG975317
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	05/01/2017 04:02	WG975317
Methyl tert-butyl ether	U		0.000367	0.00100	1	05/01/2017 04:02	WG975317
Naphthalene	U		0.00100	0.00500	1	05/01/2017 04:02	WG975317
n-Propylbenzene	U		0.000349	0.00100	1	05/01/2017 04:02	WG975317
Styrene	U		0.000307	0.00100	1	05/01/2017 04:02	WG975317
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	05/01/2017 04:02	WG975317
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	05/01/2017 04:02	WG975317
Tetrachloroethene	U		0.000372	0.00100	1	05/01/2017 04:02	WG975317
Toluene	U		0.000412	0.00100	1	05/01/2017 04:02	WG975317
1,1,1-Trichloroethane	U		0.000319	0.00100	1	05/01/2017 04:02	WG975317
1,1,2-Trichloroethane	U		0.000383	0.00100	1	05/01/2017 04:02	WG975317
Trichloroethene	U		0.000398	0.00100	1	05/01/2017 04:02	WG975317
1,2,4-Trimethylbenzene	U		0.000373	0.00100	1	05/01/2017 04:02	WG975317
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	05/01/2017 04:02	WG975317
Vinyl chloride	U		0.000259	0.00100	1	05/01/2017 04:02	WG975317
o-Xylene	U		0.000341	0.00100	1	05/01/2017 04:02	WG975317
m&p-Xylene	U		0.000719	0.00200	1	05/01/2017 04:02	WG975317
Xylenes, Total	U		0.00106	0.00300	1	05/01/2017 04:02	WG975317
(S) Toluene-d8	*107*			*80.0-120*		*05/01/2017 04:02*	WG975317
(S) Dibromofluoromethane	*113*			*76.0-123*		*05/01/2017 04:02*	WG975317
(S) 4-Bromofluorobenzene	*95.4*			*80.0-120*		*05/01/2017 04:02*	WG975317

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	0.680		0.0247	0.100	1	05/05/2017 07:45	WG975281
(S) o-Terphenyl	*67.1*			*31.0-160*		*05/05/2017 07:45*	WG975281

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Dissolved Solids	5040		2.82	10.0	1	04/29/2017 14:56	WG974911

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	2.26		0.197	1.00	10	05/02/2017 15:04	WG975586

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	1590		5.19	100	100	05/02/2017 00:52	WG975161
Fluoride	7.33		0.00990	0.100	1	05/01/2017 23:35	WG975161
Sulfate	2330		7.74	500	100	05/02/2017 00:52	WG975161

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.00521		0.000250	0.00200	1	05/03/2017 02:39	WG975075
Arsenic,Dissolved	0.00433		0.000250	0.00200	1	05/03/2017 22:47	WG975066
Barium	0.0166		0.000360	0.00500	1	05/03/2017 02:39	WG975075
Barium,Dissolved	0.0162		0.000360	0.00500	1	05/03/2017 22:47	WG975066
Calcium	527	V	0.0460	1.00	1	05/03/2017 02:39	WG975075
Chromium	U		0.000540	0.00200	1	05/03/2017 15:15	WG975075
Chromium,Dissolved	U		0.000540	0.00200	1	05/03/2017 22:47	WG975066
Iron	0.150		0.0150	0.100	1	05/03/2017 02:39	WG975075
Iron,Dissolved	U		0.0150	0.100	1	05/03/2017 22:47	WG975066
Lead	U		0.000240	0.00200	1	05/03/2017 02:39	WG975075
Lead,Dissolved	U		0.000240	0.00200	1	05/03/2017 22:47	WG975066
Manganese	1.11	V	0.000250	0.00500	1	05/03/2017 02:39	WG975075
Manganese,Dissolved	1.21		0.000250	0.00500	1	05/03/2017 22:47	WG975066
Potassium	7.58		0.0370	1.00	1	05/03/2017 02:39	WG975075
Selenium	0.000569	J	0.000380	0.00200	1	05/03/2017 02:39	WG975075
Selenium,Dissolved	0.000456	J	0.000380	0.00200	1	05/03/2017 22:47	WG975066
Sodium	987		0.110	1.00	1	05/03/2017 15:15	WG975075

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
TPH (GC/FID) Low Fraction	U		0.0314	0.100	1	04/29/2017 09:05	WG974979
(S) a,a,a-Trifluorotoluene(FID)	*94.5*			*77.0-122*		*04/29/2017 09:05*	WG974979

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		0.100	0.500	10	05/10/2017 15:16	WG975317
Benzene	U		0.00331	0.0100	10	05/10/2017 15:16	WG975317
Bromodichloromethane	U		0.00380	0.0100	10	05/10/2017 15:16	WG975317
Bromoform	U		0.00469	0.0100	10	05/10/2017 15:16	WG975317
Bromomethane	U		0.00866	0.0500	10	05/10/2017 15:16	WG975317
n-Butylbenzene	U		0.00361	0.0100	10	05/10/2017 15:16	WG975317
sec-Butylbenzene	U		0.00365	0.0100	10	05/10/2017 15:16	WG975317
Carbon disulfide	U		0.00275	0.0100	10	05/10/2017 15:16	WG975317
Carbon tetrachloride	U		0.00379	0.0100	10	05/10/2017 15:16	WG975317

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		0.00348	0.0100	10	05/10/2017 15:16	WG975317
Chlorodibromomethane	U		0.00327	0.0100	10	05/10/2017 15:16	WG975317
Chloroethane	U		0.00453	0.0500	10	05/10/2017 15:16	WG975317
Chloroform	U		0.00324	0.0500	10	05/10/2017 15:16	WG975317
Chloromethane	U		0.00276	0.0250	10	05/10/2017 15:16	WG975317
1,2-Dibromoethane	U		0.00381	0.0100	10	05/10/2017 15:16	WG975317
1,1-Dichloroethane	U		0.00259	0.0100	10	05/10/2017 15:16	WG975317
1,2-Dichloroethane	U		0.00361	0.0100	10	05/10/2017 15:16	WG975317
1,1-Dichloroethene	U		0.00398	0.0100	10	05/10/2017 15:16	WG975317
cis-1,2-Dichloroethene	U		0.00260	0.0100	10	05/10/2017 15:16	WG975317
trans-1,2-Dichloroethene	U		0.00396	0.0100	10	05/10/2017 15:16	WG975317
1,2-Dichloropropane	U		0.00306	0.0100	10	05/10/2017 15:16	WG975317
cis-1,3-Dichloropropene	U		0.00418	0.0100	10	05/10/2017 15:16	WG975317
trans-1,3-Dichloropropene	U		0.00419	0.0100	10	05/10/2017 15:16	WG975317
Ethylbenzene	U		0.00384	0.0100	10	05/10/2017 15:16	WG975317
Isopropylbenzene	U		0.00326	0.0100	10	05/10/2017 15:16	WG975317
p-Isopropyltoluene	U		0.00350	0.0100	10	05/10/2017 15:16	WG975317
2-Butanone (MEK)	U		0.0393	0.100	10	05/10/2017 15:16	WG975317
2-Hexanone	U		0.0382	0.100	10	05/10/2017 15:16	WG975317
Methylene Chloride	U		0.0100	0.0500	10	05/10/2017 15:16	WG975317
4-Methyl-2-pentanone (MIBK)	U		0.0214	0.100	10	05/10/2017 15:16	WG975317
Methyl tert-butyl ether	U		0.00367	0.0100	10	05/10/2017 15:16	WG975317
Naphthalene	U		0.0100	0.0500	10	05/10/2017 15:16	WG975317
n-Propylbenzene	U		0.00349	0.0100	10	05/10/2017 15:16	WG975317
Styrene	U		0.00307	0.0100	10	05/10/2017 15:16	WG975317
1,1,1,2-Tetrachloroethane	U		0.00385	0.0100	10	05/10/2017 15:16	WG975317
1,1,2,2-Tetrachloroethane	U		0.00130	0.0100	10	05/10/2017 15:16	WG975317
Tetrachloroethene	U		0.00372	0.0100	10	05/10/2017 15:16	WG975317
Toluene	U		0.00412	0.0100	10	05/10/2017 15:16	WG975317
1,1,1-Trichloroethane	U		0.00319	0.0100	10	05/10/2017 15:16	WG975317
1,1,2-Trichloroethane	U		0.00383	0.0100	10	05/10/2017 15:16	WG975317
Trichloroethene	U		0.00398	0.0100	10	05/10/2017 15:16	WG975317
1,2,4-Trimethylbenzene	U		0.00373	0.0100	10	05/10/2017 15:16	WG975317
1,3,5-Trimethylbenzene	U		0.00387	0.0100	10	05/10/2017 15:16	WG975317
Vinyl chloride	U		0.00259	0.0100	10	05/10/2017 15:16	WG975317
o-Xylene	U		0.00341	0.0100	10	05/10/2017 15:16	WG975317
m&p-Xylene	U		0.00719	0.0200	10	05/10/2017 15:16	WG975317
Xylenes, Total	U		0.0106	0.0300	10	05/10/2017 15:16	WG975317
(S) Toluene-d8	*103*			*80.0-120*		*05/10/2017 15:16*	WG975317
(S) Dibromofluoromethane	*101*			*76.0-123*		*05/10/2017 15:16*	WG975317
(S) 4-Bromofluorobenzene	*99.6*			*80.0-120*		*05/10/2017 15:16*	WG975317

Sample Narrative:

8260B L905562-19 WG975317: Lowest possible dilution due to sample foaming.

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	0.498		0.0247	0.100	1	05/05/2017 08:03	WG975281
(S) o-Terphenyl	*67.8*			*31.0-160*		*05/05/2017 08:03*	WG975281

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Dissolved Solids	19000		2.82	10.0	1	04/29/2017 14:56	WG974911

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	0.0220	J	0.0197	0.100	1	05/02/2017 15:05	WG975586

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	6650		5.19	100	100	05/02/2017 02:56	WG975161
Fluoride	2.19		0.00990	0.100	1	05/02/2017 01:39	WG975161
Sulfate	6010		7.74	500	100	05/02/2017 02:56	WG975161

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.00923		0.000250	0.00200	1	05/03/2017 04:11	WG975075
Arsenic,Dissolved	0.00354		0.000250	0.00200	1	05/03/2017 22:51	WG975066
Barium	0.0188		0.000360	0.00500	1	05/03/2017 04:11	WG975075
Barium,Dissolved	0.0175		0.000360	0.00500	1	05/03/2017 22:51	WG975066
Calcium	720		0.0460	1.00	1	05/03/2017 04:11	WG975075
Chromium	0.000757	J	0.000540	0.00200	1	05/03/2017 19:58	WG975075
Chromium,Dissolved	U		0.000540	0.00200	1	05/03/2017 22:51	WG975066
Iron	3.02		0.0150	0.100	1	05/03/2017 19:58	WG975075
Iron,Dissolved	U		0.0150	0.100	1	05/03/2017 22:51	WG975066
Lead	U		0.000240	0.00200	1	05/03/2017 04:11	WG975075
Lead,Dissolved	U		0.000240	0.00200	1	05/03/2017 22:51	WG975066
Manganese	1.43		0.000250	0.00500	1	05/03/2017 04:11	WG975075
Manganese,Dissolved	1.49		0.000250	0.00500	1	05/03/2017 22:51	WG975066
Potassium	6.21		0.0370	1.00	1	05/03/2017 04:11	WG975075
Selenium	0.00105	J	0.000380	0.00200	1	05/03/2017 04:11	WG975075
Selenium,Dissolved	0.000949	J	0.000380	0.00200	1	05/03/2017 22:51	WG975066
Sodium	4310		2.20	20.0	20	05/03/2017 20:02	WG975075

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
TPH (GC/FID) Low Fraction	U		0.0314	0.100	1	04/29/2017 09:27	WG974979
(S) a,a,a-Trifluorotoluene(FID)	*94.1*			*77.0-122*		*04/29/2017 09:27*	WG974979

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		0.100	0.500	10	05/10/2017 15:29	WG975317
Benzene	U		0.00331	0.0100	10	05/10/2017 15:29	WG975317
Bromodichloromethane	U		0.00380	0.0100	10	05/10/2017 15:29	WG975317
Bromoform	U		0.00469	0.0100	10	05/10/2017 15:29	WG975317
Bromomethane	U		0.00866	0.0500	10	05/10/2017 15:29	WG975317
n-Butylbenzene	U		0.00361	0.0100	10	05/10/2017 15:29	WG975317
sec-Butylbenzene	U		0.00365	0.0100	10	05/10/2017 15:29	WG975317
Carbon disulfide	U		0.00275	0.0100	10	05/10/2017 15:29	WG975317
Carbon tetrachloride	U		0.00379	0.0100	10	05/10/2017 15:29	WG975317

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		0.00348	0.0100	10	05/10/2017 15:29	WG975317
Chlorodibromomethane	U		0.00327	0.0100	10	05/10/2017 15:29	WG975317
Chloroethane	U		0.00453	0.0500	10	05/10/2017 15:29	WG975317
Chloroform	U		0.00324	0.0500	10	05/10/2017 15:29	WG975317
Chloromethane	U		0.00276	0.0250	10	05/10/2017 15:29	WG975317
1,2-Dibromoethane	U		0.00381	0.0100	10	05/10/2017 15:29	WG975317
1,1-Dichloroethane	U		0.00259	0.0100	10	05/10/2017 15:29	WG975317
1,2-Dichloroethane	U		0.00361	0.0100	10	05/10/2017 15:29	WG975317
1,1-Dichloroethene	U		0.00398	0.0100	10	05/10/2017 15:29	WG975317
cis-1,2-Dichloroethene	U		0.00260	0.0100	10	05/10/2017 15:29	WG975317
trans-1,2-Dichloroethene	U		0.00396	0.0100	10	05/10/2017 15:29	WG975317
1,2-Dichloropropane	U		0.00306	0.0100	10	05/10/2017 15:29	WG975317
cis-1,3-Dichloropropene	U		0.00418	0.0100	10	05/10/2017 15:29	WG975317
trans-1,3-Dichloropropene	U		0.00419	0.0100	10	05/10/2017 15:29	WG975317
Ethylbenzene	U		0.00384	0.0100	10	05/10/2017 15:29	WG975317
Isopropylbenzene	U		0.00326	0.0100	10	05/10/2017 15:29	WG975317
p-Isopropyltoluene	U		0.00350	0.0100	10	05/10/2017 15:29	WG975317
2-Butanone (MEK)	U		0.0393	0.100	10	05/10/2017 15:29	WG975317
2-Hexanone	U		0.0382	0.100	10	05/10/2017 15:29	WG975317
Methylene Chloride	U		0.0100	0.0500	10	05/10/2017 15:29	WG975317
4-Methyl-2-pentanone (MIBK)	U		0.0214	0.100	10	05/10/2017 15:29	WG975317
Methyl tert-butyl ether	U		0.00367	0.0100	10	05/10/2017 15:29	WG975317
Naphthalene	U		0.0100	0.0500	10	05/10/2017 15:29	WG975317
n-Propylbenzene	U		0.00349	0.0100	10	05/10/2017 15:29	WG975317
Styrene	U		0.00307	0.0100	10	05/10/2017 15:29	WG975317
1,1,1,2-Tetrachloroethane	U		0.00385	0.0100	10	05/10/2017 15:29	WG975317
1,1,2,2-Tetrachloroethane	U		0.00130	0.0100	10	05/10/2017 15:29	WG975317
Tetrachloroethene	U		0.00372	0.0100	10	05/10/2017 15:29	WG975317
Toluene	U		0.00412	0.0100	10	05/10/2017 15:29	WG975317
1,1,1-Trichloroethane	U		0.00319	0.0100	10	05/10/2017 15:29	WG975317
1,1,2-Trichloroethane	U		0.00383	0.0100	10	05/10/2017 15:29	WG975317
Trichloroethene	U		0.00398	0.0100	10	05/10/2017 15:29	WG975317
1,2,4-Trimethylbenzene	U		0.00373	0.0100	10	05/10/2017 15:29	WG975317
1,3,5-Trimethylbenzene	U		0.00387	0.0100	10	05/10/2017 15:29	WG975317
Vinyl chloride	U		0.00259	0.0100	10	05/10/2017 15:29	WG975317
o-Xylene	U		0.00341	0.0100	10	05/10/2017 15:29	WG975317
m&p-Xylene	U		0.00719	0.0200	10	05/10/2017 15:29	WG975317
Xylenes, Total	U		0.0106	0.0300	10	05/10/2017 15:29	WG975317
(S) Toluene-d8	*104*			*80.0-120*		*05/10/2017 15:29*	WG975317
(S) Dibromofluoromethane	*102*			*76.0-123*		*05/10/2017 15:29*	WG975317
(S) 4-Bromofluorobenzene	*98.4*			*80.0-120*		*05/10/2017 15:29*	WG975317

Sample Narrative:

8260B L905562-20 WG975317: Lowest possible dilution due to sample foaming.

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	0.164		0.0247	0.100	1	05/05/2017 17:13	WG975281
(S) o-Terphenyl	*62.8*			*31.0-160*		*05/05/2017 17:13*	WG975281

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Dissolved Solids	6200		2.82	10.0	1	04/29/2017 14:56	WG974911

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	0.0540	J P1	0.0197	0.100	1	05/02/2017 15:06	WG975586

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	1730		5.19	100	100	05/02/2017 03:11	WG975161
Fluoride	1.22		0.00990	0.100	1	05/02/2017 01:54	WG975161
Sulfate	2190		7.74	500	100	05/02/2017 03:11	WG975161

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.0231		0.000250	0.00200	1	05/03/2017 14:19	WG975080
Arsenic,Dissolved	0.0224		0.000250	0.00200	1	05/10/2017 15:51	WG978287
Barium	0.0213	O1	0.000360	0.00500	1	05/03/2017 14:19	WG975080
Barium,Dissolved	0.0206		0.000360	0.00500	1	05/10/2017 15:51	WG978287
Calcium	514	V	0.0460	1.00	1	05/03/2017 14:19	WG975080
Chromium	U		0.000540	0.00200	1	05/03/2017 14:19	WG975080
Chromium,Dissolved	U		0.000540	0.00200	1	05/10/2017 15:51	WG978287
Iron	0.0684	B J	0.0150	0.100	1	05/03/2017 14:19	WG975080
Iron,Dissolved	U		0.0150	0.100	1	05/10/2017 15:51	WG978287
Lead	U		0.000240	0.00200	1	05/03/2017 14:19	WG975080
Lead,Dissolved	U		0.000240	0.00200	1	05/10/2017 15:51	WG978287
Manganese	2.59		0.000250	0.00500	1	05/03/2017 14:19	WG975080
Manganese,Dissolved	1.73		0.000250	0.00500	1	05/10/2017 15:51	WG978287
Potassium	3.72		0.0370	1.00	1	05/03/2017 14:19	WG975080
Selenium	0.000395	J	0.000380	0.00200	1	05/03/2017 14:19	WG975080
Selenium,Dissolved	U		0.000380	0.00200	1	05/10/2017 15:51	WG978287
Sodium	1240	V	1.10	10.0	10	05/03/2017 18:02	WG975080

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	1.96		0.0314	0.100	1	04/28/2017 22:08	WG974980
(S) a,a,a-Trifluorotoluene(FID)	*99.4*			*77.0-122*		*04/28/2017 22:08*	WG974980

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		0.0100	0.0500	1	05/01/2017 23:28	WG975485
Benzene	U		0.000331	0.00100	1	05/01/2017 23:28	WG975485
Bromodichloromethane	U		0.000380	0.00100	1	05/01/2017 23:28	WG975485
Bromoform	U		0.000469	0.00100	1	05/01/2017 23:28	WG975485
Bromomethane	U		0.000866	0.00500	1	05/01/2017 23:28	WG975485
n-Butylbenzene	U		0.000361	0.00100	1	05/01/2017 23:28	WG975485
sec-Butylbenzene	U		0.000365	0.00100	1	05/01/2017 23:28	WG975485
Carbon disulfide	U		0.000275	0.00100	1	05/01/2017 23:28	WG975485
Carbon tetrachloride	U		0.000379	0.00100	1	05/01/2017 23:28	WG975485

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chlorobenzene	U		0.000348	0.00100	1	05/01/2017 23:28	WG975485
Chlorodibromomethane	U		0.000327	0.00100	1	05/01/2017 23:28	WG975485
Chloroethane	U		0.000453	0.00500	1	05/01/2017 23:28	WG975485
Chloroform	U		0.000324	0.00500	1	05/01/2017 23:28	WG975485
Chloromethane	U	J4	0.000276	0.00250	1	05/01/2017 23:28	WG975485
1,2-Dibromoethane	U		0.000381	0.00100	1	05/01/2017 23:28	WG975485
1,1-Dichloroethane	U		0.000259	0.00100	1	05/01/2017 23:28	WG975485
1,2-Dichloroethane	U		0.000361	0.00100	1	05/01/2017 23:28	WG975485
1,1-Dichloroethene	U		0.000398	0.00100	1	05/01/2017 23:28	WG975485
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	05/01/2017 23:28	WG975485
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	05/01/2017 23:28	WG975485
1,2-Dichloropropane	U		0.000306	0.00100	1	05/01/2017 23:28	WG975485
cis-1,3-Dichloropropene	U	J4	0.000418	0.00100	1	05/01/2017 23:28	WG975485
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	05/01/2017 23:28	WG975485
Ethylbenzene	U		0.000384	0.00100	1	05/01/2017 23:28	WG975485
Isopropylbenzene	U		0.000326	0.00100	1	05/01/2017 23:28	WG975485
p-Isopropyltoluene	U		0.000350	0.00100	1	05/01/2017 23:28	WG975485
2-Butanone (MEK)	U		0.00393	0.0100	1	05/01/2017 23:28	WG975485
2-Hexanone	U	J3 J4	0.00382	0.0100	1	05/01/2017 23:28	WG975485
Methylene Chloride	U		0.00100	0.00500	1	05/01/2017 23:28	WG975485
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	05/01/2017 23:28	WG975485
Methyl tert-butyl ether	0.00114		0.000367	0.00100	1	05/01/2017 23:28	WG975485
Naphthalene	U	J4	0.00100	0.00500	1	05/01/2017 23:28	WG975485
n-Propylbenzene	U		0.000349	0.00100	1	05/01/2017 23:28	WG975485
Styrene	U		0.000307	0.00100	1	05/01/2017 23:28	WG975485
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	05/01/2017 23:28	WG975485
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	05/01/2017 23:28	WG975485
Tetrachloroethene	U		0.000372	0.00100	1	05/01/2017 23:28	WG975485
Toluene	U		0.000412	0.00100	1	05/01/2017 23:28	WG975485
1,1,1-Trichloroethane	U		0.000319	0.00100	1	05/01/2017 23:28	WG975485
1,1,2-Trichloroethane	U	J4	0.000383	0.00100	1	05/01/2017 23:28	WG975485
Trichloroethene	U		0.000398	0.00100	1	05/01/2017 23:28	WG975485
1,2,4-Trimethylbenzene	U		0.000373	0.00100	1	05/01/2017 23:28	WG975485
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	05/01/2017 23:28	WG975485
Vinyl chloride	U		0.000259	0.00100	1	05/01/2017 23:28	WG975485
o-Xylene	U		0.000341	0.00100	1	05/01/2017 23:28	WG975485
m&p-Xylene	U		0.000719	0.00200	1	05/01/2017 23:28	WG975485
Xylenes, Total	U		0.00106	0.00300	1	05/01/2017 23:28	WG975485
(S) Toluene-d8	*104*			*80.0-120*		*05/01/2017 23:28*	WG975485
(S) Dibromofluoromethane	*103*			*76.0-123*		*05/01/2017 23:28*	WG975485
(S) 4-Bromofluorobenzene	*110*			*80.0-120*		*05/01/2017 23:28*	WG975485

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	3.36		0.0247	0.100	1	05/04/2017 21:52	WG975280
(S) o-Terphenyl	*70.0*			*31.0-160*		*05/04/2017 21:52*	WG975280

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Dissolved Solids	4550		2.82	10.0	1	04/29/2017 14:56	WG974911

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	U		0.0197	0.100	1	05/02/2017 15:12	WG975586

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	1480		5.19	100	100	05/02/2017 03:26	WG975161
Fluoride	1.93		0.00990	0.100	1	05/02/2017 02:40	WG975161
Sulfate	2070		7.74	500	100	05/02/2017 03:26	WG975161

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.172		0.000250	0.00200	1	05/03/2017 14:34	WG975080
Arsenic,Dissolved	0.147		0.000250	0.00200	1	05/10/2017 15:54	WG978287
Barium	0.0123		0.000360	0.00500	1	05/03/2017 14:34	WG975080
Barium,Dissolved	0.0123		0.000360	0.00500	1	05/10/2017 15:54	WG978287
Calcium	417		0.0460	1.00	1	05/03/2017 14:34	WG975080
Chromium	U		0.000540	0.00200	1	05/03/2017 14:34	WG975080
Chromium,Dissolved	U		0.000540	0.00200	1	05/10/2017 15:54	WG978287
Iron	2.34		0.0150	0.100	1	05/03/2017 14:34	WG975080
Iron,Dissolved	0.104		0.0150	0.100	1	05/10/2017 15:54	WG978287
Lead	0.000274	J	0.000240	0.00200	1	05/03/2017 14:34	WG975080
Lead,Dissolved	U		0.000240	0.00200	1	05/10/2017 15:54	WG978287
Manganese	1.91		0.000250	0.00500	1	05/03/2017 14:34	WG975080
Manganese,Dissolved	1.94		0.000250	0.00500	1	05/10/2017 15:54	WG978287
Potassium	3.51		0.0370	1.00	1	05/03/2017 14:34	WG975080
Selenium	0.000665	J	0.000380	0.00200	1	05/03/2017 14:34	WG975080
Selenium,Dissolved	0.000498	J	0.000380	0.00200	1	05/10/2017 15:54	WG978287
Sodium	919		0.550	5.00	5	05/03/2017 18:06	WG975080

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	0.607		0.0314	0.100	1	04/28/2017 22:32	WG974980
(S) a,a,a-Trifluorotoluene(FID)	*97.2*			*77.0-122*		*04/28/2017 22:32*	WG974980

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		0.0100	0.0500	1	05/01/2017 23:45	WG975485
Benzene	U		0.000331	0.00100	1	05/01/2017 23:45	WG975485
Bromodichloromethane	U		0.000380	0.00100	1	05/01/2017 23:45	WG975485
Bromoform	U		0.000469	0.00100	1	05/01/2017 23:45	WG975485
Bromomethane	U		0.000866	0.00500	1	05/01/2017 23:45	WG975485
n-Butylbenzene	U		0.000361	0.00100	1	05/01/2017 23:45	WG975485
sec-Butylbenzene	0.000375	J	0.000365	0.00100	1	05/01/2017 23:45	WG975485
Carbon disulfide	U		0.000275	0.00100	1	05/01/2017 23:45	WG975485
Carbon tetrachloride	U		0.000379	0.00100	1	05/01/2017 23:45	WG975485

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chlorobenzene	U		0.000348	0.00100	1	05/01/2017 23:45	WG975485
Chlorodibromomethane	U		0.000327	0.00100	1	05/01/2017 23:45	WG975485
Chloroethane	U		0.000453	0.00500	1	05/01/2017 23:45	WG975485
Chloroform	U		0.000324	0.00500	1	05/01/2017 23:45	WG975485
Chloromethane	U	J4	0.000276	0.00250	1	05/01/2017 23:45	WG975485
1,2-Dibromoethane	U		0.000381	0.00100	1	05/01/2017 23:45	WG975485
1,1-Dichloroethane	U		0.000259	0.00100	1	05/01/2017 23:45	WG975485
1,2-Dichloroethane	U		0.000361	0.00100	1	05/01/2017 23:45	WG975485
1,1-Dichloroethene	U		0.000398	0.00100	1	05/01/2017 23:45	WG975485
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	05/01/2017 23:45	WG975485
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	05/01/2017 23:45	WG975485
1,2-Dichloropropane	U		0.000306	0.00100	1	05/01/2017 23:45	WG975485
cis-1,3-Dichloropropene	U	J4	0.000418	0.00100	1	05/01/2017 23:45	WG975485
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	05/01/2017 23:45	WG975485
Ethylbenzene	U		0.000384	0.00100	1	05/01/2017 23:45	WG975485
Isopropylbenzene	0.00449		0.000326	0.00100	1	05/01/2017 23:45	WG975485
p-Isopropyltoluene	U		0.000350	0.00100	1	05/01/2017 23:45	WG975485
2-Butanone (MEK)	U		0.00393	0.0100	1	05/01/2017 23:45	WG975485
2-Hexanone	U	J3 J4	0.00382	0.0100	1	05/01/2017 23:45	WG975485
Methylene Chloride	U		0.00100	0.00500	1	05/01/2017 23:45	WG975485
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	05/01/2017 23:45	WG975485
Methyl tert-butyl ether	0.000444	J	0.000367	0.00100	1	05/01/2017 23:45	WG975485
Naphthalene	U	J4	0.00100	0.00500	1	05/01/2017 23:45	WG975485
n-Propylbenzene	U		0.000349	0.00100	1	05/01/2017 23:45	WG975485
Styrene	U		0.000307	0.00100	1	05/01/2017 23:45	WG975485
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	05/01/2017 23:45	WG975485
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	05/01/2017 23:45	WG975485
Tetrachloroethene	U		0.000372	0.00100	1	05/01/2017 23:45	WG975485
Toluene	U		0.000412	0.00100	1	05/01/2017 23:45	WG975485
1,1,1-Trichloroethane	U		0.000319	0.00100	1	05/01/2017 23:45	WG975485
1,1,2-Trichloroethane	U	J4	0.000383	0.00100	1	05/01/2017 23:45	WG975485
Trichloroethene	U		0.000398	0.00100	1	05/01/2017 23:45	WG975485
1,2,4-Trimethylbenzene	0.000390	J	0.000373	0.00100	1	05/01/2017 23:45	WG975485
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	05/01/2017 23:45	WG975485
Vinyl chloride	U		0.000259	0.00100	1	05/01/2017 23:45	WG975485
o-Xylene	U		0.000341	0.00100	1	05/01/2017 23:45	WG975485
m&p-Xylene	0.00105	J	0.000719	0.00200	1	05/01/2017 23:45	WG975485
Xylenes, Total	U		0.00106	0.00300	1	05/01/2017 23:45	WG975485
(S) Toluene-d8	*105*			*80.0-120*		*05/01/2017 23:45*	WG975485
(S) Dibromofluoromethane	*103*			*76.0-123*		*05/01/2017 23:45*	WG975485
(S) 4-Bromofluorobenzene	*103*			*80.0-120*		*05/01/2017 23:45*	WG975485

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	8.15		0.0247	0.100	1	05/04/2017 22:09	WG975280
(S) o-Terphenyl	*76.4*			*31.0-160*		*05/04/2017 22:09*	WG975280

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Dissolved Solids	3690		2.82	10.0	1	04/29/2017 14:56	WG974911

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	U		0.0197	0.100	1	05/02/2017 15:13	WG975586

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	1330		5.19	100	100	05/02/2017 04:44	WG975161
Fluoride	0.985		0.00990	0.100	1	05/02/2017 04:13	WG975161
Sulfate	1410		7.74	500	100	05/02/2017 04:44	WG975161

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.0371		0.000250	0.00200	1	05/03/2017 14:37	WG975080
Arsenic,Dissolved	0.0471		0.000250	0.00200	1	05/10/2017 16:06	WG978287
Barium	0.0182		0.000360	0.00500	1	05/03/2017 14:37	WG975080
Barium,Dissolved	0.0188		0.000360	0.00500	1	05/10/2017 16:06	WG978287
Calcium	360		0.0460	1.00	1	05/03/2017 14:37	WG975080
Chromium	U		0.000540	0.00200	1	05/03/2017 14:37	WG975080
Chromium,Dissolved	U		0.000540	0.00200	1	05/10/2017 16:06	WG978287
Iron	3.42		0.0150	0.100	1	05/03/2017 14:37	WG975080
Iron,Dissolved	0.0449	J	0.0150	0.100	1	05/10/2017 16:06	WG978287
Lead	U		0.000240	0.00200	1	05/03/2017 14:37	WG975080
Lead,Dissolved	U		0.000240	0.00200	1	05/10/2017 16:06	WG978287
Manganese	7.35		0.000250	0.00500	1	05/03/2017 14:37	WG975080
Manganese,Dissolved	9.32		0.000250	0.00500	1	05/10/2017 16:06	WG978287
Potassium	2.55		0.0370	1.00	1	05/03/2017 14:37	WG975080
Selenium	U		0.000380	0.00200	1	05/03/2017 14:37	WG975080
Selenium,Dissolved	U		0.000380	0.00200	1	05/10/2017 16:06	WG978287
Sodium	758		0.550	5.00	5	05/03/2017 18:21	WG975080

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	0.318		0.0314	0.100	1	04/28/2017 22:56	WG974980
(S) a,a,a-Trifluorotoluene(FID)	*99.9*			*77.0-122*		*04/28/2017 22:56*	WG974980

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		0.0100	0.0500	1	05/02/2017 00:02	WG975485
Benzene	U		0.000331	0.00100	1	05/02/2017 00:02	WG975485
Bromodichloromethane	U		0.000380	0.00100	1	05/02/2017 00:02	WG975485
Bromoform	U		0.000469	0.00100	1	05/02/2017 00:02	WG975485
Bromomethane	U		0.000866	0.00500	1	05/02/2017 00:02	WG975485
n-Butylbenzene	U		0.000361	0.00100	1	05/02/2017 00:02	WG975485
sec-Butylbenzene	U		0.000365	0.00100	1	05/02/2017 00:02	WG975485
Carbon disulfide	U		0.000275	0.00100	1	05/02/2017 00:02	WG975485
Carbon tetrachloride	U		0.000379	0.00100	1	05/02/2017 00:02	WG975485

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chlorobenzene	U		0.000348	0.00100	1	05/02/2017 00:02	WG975485
Chlorodibromomethane	U		0.000327	0.00100	1	05/02/2017 00:02	WG975485
Chloroethane	U		0.000453	0.00500	1	05/02/2017 00:02	WG975485
Chloroform	U		0.000324	0.00500	1	05/02/2017 00:02	WG975485
Chloromethane	U	J4	0.000276	0.00250	1	05/02/2017 00:02	WG975485
1,2-Dibromoethane	U		0.000381	0.00100	1	05/02/2017 00:02	WG975485
1,1-Dichloroethane	U		0.000259	0.00100	1	05/02/2017 00:02	WG975485
1,2-Dichloroethane	U		0.000361	0.00100	1	05/02/2017 00:02	WG975485
1,1-Dichloroethene	U		0.000398	0.00100	1	05/02/2017 00:02	WG975485
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	05/02/2017 00:02	WG975485
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	05/02/2017 00:02	WG975485
1,2-Dichloropropane	U		0.000306	0.00100	1	05/02/2017 00:02	WG975485
cis-1,3-Dichloropropene	U	J4	0.000418	0.00100	1	05/02/2017 00:02	WG975485
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	05/02/2017 00:02	WG975485
Ethylbenzene	U		0.000384	0.00100	1	05/02/2017 00:02	WG975485
Isopropylbenzene	0.000727	J	0.000326	0.00100	1	05/02/2017 00:02	WG975485
p-Isopropyltoluene	U		0.000350	0.00100	1	05/02/2017 00:02	WG975485
2-Butanone (MEK)	U		0.00393	0.0100	1	05/02/2017 00:02	WG975485
2-Hexanone	U	J3 J4	0.00382	0.0100	1	05/02/2017 00:02	WG975485
Methylene Chloride	U		0.00100	0.00500	1	05/02/2017 00:02	WG975485
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	05/02/2017 00:02	WG975485
Methyl tert-butyl ether	U		0.000367	0.00100	1	05/02/2017 00:02	WG975485
Naphthalene	U	J4	0.00100	0.00500	1	05/02/2017 00:02	WG975485
n-Propylbenzene	U		0.000349	0.00100	1	05/02/2017 00:02	WG975485
Styrene	U		0.000307	0.00100	1	05/02/2017 00:02	WG975485
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	05/02/2017 00:02	WG975485
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	05/02/2017 00:02	WG975485
Tetrachloroethene	U		0.000372	0.00100	1	05/02/2017 00:02	WG975485
Toluene	U		0.000412	0.00100	1	05/02/2017 00:02	WG975485
1,1,1-Trichloroethane	U		0.000319	0.00100	1	05/02/2017 00:02	WG975485
1,1,2-Trichloroethane	U	J4	0.000383	0.00100	1	05/02/2017 00:02	WG975485
Trichloroethene	U		0.000398	0.00100	1	05/02/2017 00:02	WG975485
1,2,4-Trimethylbenzene	U		0.000373	0.00100	1	05/02/2017 00:02	WG975485
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	05/02/2017 00:02	WG975485
Vinyl chloride	U		0.000259	0.00100	1	05/02/2017 00:02	WG975485
o-Xylene	U		0.000341	0.00100	1	05/02/2017 00:02	WG975485
m&p-Xylene	U		0.000719	0.00200	1	05/02/2017 00:02	WG975485
Xylenes, Total	U		0.00106	0.00300	1	05/02/2017 00:02	WG975485
(S) Toluene-d8	*104*			*80.0-120*		*05/02/2017 00:02*	WG975485
(S) Dibromofluoromethane	*106*			*76.0-123*		*05/02/2017 00:02*	WG975485
(S) 4-Bromofluorobenzene	*101*			*80.0-120*		*05/02/2017 00:02*	WG975485

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	1.21		0.0247	0.100	1	05/04/2017 22:27	WG975280
(S) o-Terphenyl	*67.6*			*31.0-160*		*05/04/2017 22:27*	WG975280

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Dissolved Solids	9180		2.82	10.0	1	05/01/2017 17:17	WG975257

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	0.402	J	0.197	1.00	10	05/02/2017 15:15	WG975586

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	2880		5.19	100	100	05/02/2017 04:59	WG975161
Fluoride	0.736		0.00990	0.100	1	05/02/2017 04:28	WG975161
Sulfate	3010		7.74	500	100	05/02/2017 04:59	WG975161

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.00221		0.000250	0.00200	1	05/03/2017 14:53	WG975080
Arsenic,Dissolved	0.000880	J	0.000250	0.00200	1	05/10/2017 16:10	WG978287
Barium	0.0258		0.000360	0.00500	1	05/03/2017 14:53	WG975080
Barium,Dissolved	0.0254		0.000360	0.00500	1	05/10/2017 16:10	WG978287
Calcium	763		0.0460	1.00	1	05/03/2017 14:53	WG975080
Chromium	U		0.000540	0.00200	1	05/03/2017 14:53	WG975080
Chromium,Dissolved	0.000638	J	0.000540	0.00200	1	05/10/2017 16:10	WG978287
Iron	4.50		0.0150	0.100	1	05/03/2017 14:53	WG975080
Iron,Dissolved	0.0387	J	0.0150	0.100	1	05/10/2017 16:10	WG978287
Lead	U		0.000240	0.00200	1	05/03/2017 14:53	WG975080
Lead,Dissolved	U		0.000240	0.00200	1	05/10/2017 16:10	WG978287
Manganese	2.38		0.000250	0.00500	1	05/03/2017 14:53	WG975080
Manganese,Dissolved	2.34		0.000250	0.00500	1	05/10/2017 16:10	WG978287
Potassium	5.11		0.0370	1.00	1	05/03/2017 14:53	WG975080
Selenium	U		0.000380	0.00200	1	05/03/2017 14:53	WG975080
Selenium,Dissolved	U		0.000380	0.00200	1	05/10/2017 16:10	WG978287
Sodium	1830		1.10	10.0	10	05/03/2017 18:24	WG975080

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		0.0100	0.0500	1	05/02/2017 00:19	WG975485
Benzene	U		0.000331	0.00100	1	05/02/2017 00:19	WG975485
Bromodichloromethane	U		0.000380	0.00100	1	05/02/2017 00:19	WG975485
Bromoform	U		0.000469	0.00100	1	05/02/2017 00:19	WG975485
Bromomethane	U		0.000866	0.00500	1	05/02/2017 00:19	WG975485
n-Butylbenzene	U		0.000361	0.00100	1	05/02/2017 00:19	WG975485
sec-Butylbenzene	U		0.000365	0.00100	1	05/02/2017 00:19	WG975485
Carbon disulfide	U		0.000275	0.00100	1	05/02/2017 00:19	WG975485
Carbon tetrachloride	U		0.000379	0.00100	1	05/02/2017 00:19	WG975485
Chlorobenzene	U		0.000348	0.00100	1	05/02/2017 00:19	WG975485
Chlorodibromomethane	U		0.000327	0.00100	1	05/02/2017 00:19	WG975485
Chloroethane	U		0.000453	0.00500	1	05/02/2017 00:19	WG975485
Chloroform	U		0.000324	0.00500	1	05/02/2017 00:19	WG975485
Chloromethane	U	J4	0.000276	0.00250	1	05/02/2017 00:19	WG975485
1,2-Dibromoethane	U		0.000381	0.00100	1	05/02/2017 00:19	WG975485
1,1-Dichloroethane	U		0.000259	0.00100	1	05/02/2017 00:19	WG975485

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
1,2-Dichloroethane	U		0.000361	0.00100	1	05/02/2017 00:19	WG975485
1,1-Dichloroethene	U		0.000398	0.00100	1	05/02/2017 00:19	WG975485
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	05/02/2017 00:19	WG975485
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	05/02/2017 00:19	WG975485
1,2-Dichloropropane	U		0.000306	0.00100	1	05/02/2017 00:19	WG975485
cis-1,3-Dichloropropene	U	J4	0.000418	0.00100	1	05/02/2017 00:19	WG975485
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	05/02/2017 00:19	WG975485
Ethylbenzene	U		0.000384	0.00100	1	05/02/2017 00:19	WG975485
Isopropylbenzene	U		0.000326	0.00100	1	05/02/2017 00:19	WG975485
p-Isopropyltoluene	U		0.000350	0.00100	1	05/02/2017 00:19	WG975485
2-Butanone (MEK)	U		0.00393	0.0100	1	05/02/2017 00:19	WG975485
2-Hexanone	U	J3 J4	0.00382	0.0100	1	05/02/2017 00:19	WG975485
Methylene Chloride	U		0.00100	0.00500	1	05/02/2017 00:19	WG975485
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	05/02/2017 00:19	WG975485
Methyl tert-butyl ether	U		0.000367	0.00100	1	05/02/2017 00:19	WG975485
Naphthalene	U	J4	0.00100	0.00500	1	05/02/2017 00:19	WG975485
n-Propylbenzene	U		0.000349	0.00100	1	05/02/2017 00:19	WG975485
Styrene	U		0.000307	0.00100	1	05/02/2017 00:19	WG975485
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	05/02/2017 00:19	WG975485
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	05/02/2017 00:19	WG975485
Tetrachloroethene	U		0.000372	0.00100	1	05/02/2017 00:19	WG975485
Toluene	U		0.000412	0.00100	1	05/02/2017 00:19	WG975485
1,1,1-Trichloroethane	U		0.000319	0.00100	1	05/02/2017 00:19	WG975485
1,1,2-Trichloroethane	U	J4	0.000383	0.00100	1	05/02/2017 00:19	WG975485
Trichloroethene	U		0.000398	0.00100	1	05/02/2017 00:19	WG975485
1,2,4-Trimethylbenzene	U		0.000373	0.00100	1	05/02/2017 00:19	WG975485
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	05/02/2017 00:19	WG975485
Vinyl chloride	U		0.000259	0.00100	1	05/02/2017 00:19	WG975485
o-Xylene	U		0.000341	0.00100	1	05/02/2017 00:19	WG975485
m&p-Xylene	U		0.000719	0.00200	1	05/02/2017 00:19	WG975485
Xylenes, Total	U		0.00106	0.00300	1	05/02/2017 00:19	WG975485
(S) Toluene-d8	*103*			*80.0-120*		*05/02/2017 00:19*	WG975485
(S) Dibromofluoromethane	*103*			*76.0-123*		*05/02/2017 00:19*	WG975485
(S) 4-Bromofluorobenzene	*104*			*80.0-120*		*05/02/2017 00:19*	WG975485

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	0.0583	J	0.0247	0.100	1	05/05/2017 00:12	WG975280
(S) o-Terphenyl	*63.5*			*31.0-160*		*05/05/2017 00:12*	WG975280

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Dissolved Solids	2640		2.82	10.0	1	05/01/2017 17:17	WG975257

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	0.485	J	0.197	1.00	10	05/02/2017 15:16	WG975586

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	612		2.60	50.0	50	04/30/2017 23:21	WG975327
Fluoride	1.58		0.00990	0.100	1	04/30/2017 22:36	WG975327
Sulfate	1100		3.87	250	50	04/30/2017 23:21	WG975327

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.0130		0.000250	0.00200	1	05/03/2017 14:57	WG975080
Arsenic,Dissolved	0.0132		0.000250	0.00200	1	05/10/2017 16:13	WG978287
Barium	0.0180		0.000360	0.00500	1	05/03/2017 14:57	WG975080
Barium,Dissolved	0.0182		0.000360	0.00500	1	05/10/2017 16:13	WG978287
Calcium	285		0.0460	1.00	1	05/03/2017 14:57	WG975080
Chromium	U		0.000540	0.00200	1	05/03/2017 14:57	WG975080
Chromium,Dissolved	0.000671	J	0.000540	0.00200	1	05/10/2017 16:13	WG978287
Iron	0.0239	B J	0.0150	0.100	1	05/03/2017 14:57	WG975080
Iron,Dissolved	U		0.0150	0.100	1	05/10/2017 16:13	WG978287
Lead	U		0.000240	0.00200	1	05/03/2017 14:57	WG975080
Lead,Dissolved	0.000257	J	0.000240	0.00200	1	05/10/2017 16:13	WG978287
Manganese	0.173		0.000250	0.00500	1	05/03/2017 14:57	WG975080
Manganese,Dissolved	0.180		0.000250	0.00500	1	05/10/2017 16:13	WG978287
Potassium	4.31		0.0370	1.00	1	05/03/2017 14:57	WG975080
Selenium	0.000518	J	0.000380	0.00200	1	05/03/2017 14:57	WG975080
Selenium,Dissolved	0.000506	J	0.000380	0.00200	1	05/10/2017 16:13	WG978287
Sodium	447		0.110	1.00	1	05/03/2017 14:57	WG975080

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	0.0940	J	0.0314	0.100	1	04/28/2017 23:20	WG974980
(S) a,a,a-Trifluorotoluene(FID)	*99.4*			*77.0-122*		*04/28/2017 23:20*	WG974980

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		0.0100	0.0500	1	05/02/2017 00:36	WG975485
Benzene	U		0.000331	0.00100	1	05/02/2017 00:36	WG975485
Bromodichloromethane	U		0.000380	0.00100	1	05/02/2017 00:36	WG975485
Bromoform	U		0.000469	0.00100	1	05/02/2017 00:36	WG975485
Bromomethane	U		0.000866	0.00500	1	05/02/2017 00:36	WG975485
n-Butylbenzene	U		0.000361	0.00100	1	05/02/2017 00:36	WG975485
sec-Butylbenzene	U		0.000365	0.00100	1	05/02/2017 00:36	WG975485
Carbon disulfide	U		0.000275	0.00100	1	05/02/2017 00:36	WG975485
Carbon tetrachloride	U		0.000379	0.00100	1	05/02/2017 00:36	WG975485

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chlorobenzene	U		0.000348	0.00100	1	05/02/2017 00:36	WG975485
Chlorodibromomethane	U		0.000327	0.00100	1	05/02/2017 00:36	WG975485
Chloroethane	U		0.000453	0.00500	1	05/02/2017 00:36	WG975485
Chloroform	U		0.000324	0.00500	1	05/02/2017 00:36	WG975485
Chloromethane	U	J4	0.000276	0.00250	1	05/02/2017 00:36	WG975485
1,2-Dibromoethane	U		0.000381	0.00100	1	05/02/2017 00:36	WG975485
1,1-Dichloroethane	U		0.000259	0.00100	1	05/02/2017 00:36	WG975485
1,2-Dichloroethane	U		0.000361	0.00100	1	05/02/2017 00:36	WG975485
1,1-Dichloroethene	U		0.000398	0.00100	1	05/02/2017 00:36	WG975485
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	05/02/2017 00:36	WG975485
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	05/02/2017 00:36	WG975485
1,2-Dichloropropane	U		0.000306	0.00100	1	05/02/2017 00:36	WG975485
cis-1,3-Dichloropropene	U	J4	0.000418	0.00100	1	05/02/2017 00:36	WG975485
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	05/02/2017 00:36	WG975485
Ethylbenzene	U		0.000384	0.00100	1	05/02/2017 00:36	WG975485
Isopropylbenzene	U		0.000326	0.00100	1	05/02/2017 00:36	WG975485
p-Isopropyltoluene	U		0.000350	0.00100	1	05/02/2017 00:36	WG975485
2-Butanone (MEK)	U		0.00393	0.0100	1	05/02/2017 00:36	WG975485
2-Hexanone	U	J3 J4	0.00382	0.0100	1	05/02/2017 00:36	WG975485
Methylene Chloride	U		0.00100	0.00500	1	05/02/2017 00:36	WG975485
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	05/02/2017 00:36	WG975485
Methyl tert-butyl ether	0.000373	J	0.000367	0.00100	1	05/02/2017 00:36	WG975485
Naphthalene	U	J4	0.00100	0.00500	1	05/02/2017 00:36	WG975485
n-Propylbenzene	U		0.000349	0.00100	1	05/02/2017 00:36	WG975485
Styrene	U		0.000307	0.00100	1	05/02/2017 00:36	WG975485
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	05/02/2017 00:36	WG975485
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	05/02/2017 00:36	WG975485
Tetrachloroethene	U		0.000372	0.00100	1	05/02/2017 00:36	WG975485
Toluene	U		0.000412	0.00100	1	05/02/2017 00:36	WG975485
1,1,1-Trichloroethane	U		0.000319	0.00100	1	05/02/2017 00:36	WG975485
1,1,2-Trichloroethane	U	J4	0.000383	0.00100	1	05/02/2017 00:36	WG975485
Trichloroethene	U		0.000398	0.00100	1	05/02/2017 00:36	WG975485
1,2,4-Trimethylbenzene	U		0.000373	0.00100	1	05/02/2017 00:36	WG975485
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	05/02/2017 00:36	WG975485
Vinyl chloride	U		0.000259	0.00100	1	05/02/2017 00:36	WG975485
o-Xylene	U		0.000341	0.00100	1	05/02/2017 00:36	WG975485
m&p-Xylene	U		0.000719	0.00200	1	05/02/2017 00:36	WG975485
Xylenes, Total	U		0.00106	0.00300	1	05/02/2017 00:36	WG975485
(S) Toluene-d8	*103*			*80.0-120*		*05/02/2017 00:36*	WG975485
(S) Dibromofluoromethane	*106*			*76.0-123*		*05/02/2017 00:36*	WG975485
(S) 4-Bromofluorobenzene	*103*			*80.0-120*		*05/02/2017 00:36*	WG975485

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	0.251		0.0247	0.100	1	05/05/2017 00:29	WG975280
(S) o-Terphenyl	*66.6*			*31.0-160*		*05/05/2017 00:29*	WG975280

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Dissolved Solids	8460		2.82	10.0	1	05/01/2017 17:17	WG975257

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	0.213	J	0.197	1.00	10	05/02/2017 15:17	WG975586

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	2490		5.19	100	100	04/30/2017 23:37	WG975327
Fluoride	3.60		0.00990	0.100	1	04/30/2017 23:06	WG975327
Sulfate	3020		7.74	500	100	04/30/2017 23:37	WG975327

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.00319		0.000250	0.00200	1	05/03/2017 15:00	WG975080
Arsenic,Dissolved	0.00284		0.000250	0.00200	1	05/10/2017 16:17	WG978287
Barium	0.0150		0.000360	0.00500	1	05/03/2017 15:00	WG975080
Barium,Dissolved	0.0174		0.000360	0.00500	1	05/10/2017 16:17	WG978287
Calcium	570		0.0460	1.00	1	05/03/2017 15:00	WG975080
Chromium	0.00119	J	0.000540	0.00200	1	05/03/2017 15:00	WG975080
Chromium,Dissolved	U		0.000540	0.00200	1	05/10/2017 16:17	WG978287
Iron	0.275	B	0.0150	0.100	1	05/03/2017 15:00	WG975080
Iron,Dissolved	U		0.0150	0.100	1	05/10/2017 16:17	WG978287
Lead	U		0.000240	0.00200	1	05/03/2017 15:00	WG975080
Lead,Dissolved	U		0.000240	0.00200	1	05/10/2017 16:17	WG978287
Manganese	1.27		0.000250	0.00500	1	05/03/2017 15:00	WG975080
Manganese,Dissolved	1.22		0.000250	0.00500	1	05/10/2017 16:17	WG978287
Potassium	4.22		0.0370	1.00	1	05/03/2017 15:00	WG975080
Selenium	0.000988	J	0.000380	0.00200	1	05/03/2017 15:00	WG975080
Selenium,Dissolved	0.000904	J	0.000380	0.00200	1	05/10/2017 16:17	WG978287
Sodium	1960		1.10	10.0	10	05/03/2017 18:28	WG975080

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
TPH (GC/FID) Low Fraction	U		0.0314	0.100	1	04/28/2017 23:44	WG974980
(S) a,a,a-Trifluorotoluene(FID)	*99.2*			*77.0-122*		*04/28/2017 23:44*	WG974980

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		0.0100	0.0500	1	05/02/2017 00:52	WG975485
Benzene	U		0.000331	0.00100	1	05/02/2017 00:52	WG975485
Bromodichloromethane	U		0.000380	0.00100	1	05/02/2017 00:52	WG975485
Bromoform	U		0.000469	0.00100	1	05/02/2017 00:52	WG975485
Bromomethane	U		0.000866	0.00500	1	05/02/2017 00:52	WG975485
n-Butylbenzene	U		0.000361	0.00100	1	05/02/2017 00:52	WG975485
sec-Butylbenzene	U		0.000365	0.00100	1	05/02/2017 00:52	WG975485
Carbon disulfide	U		0.000275	0.00100	1	05/02/2017 00:52	WG975485
Carbon tetrachloride	U		0.000379	0.00100	1	05/02/2017 00:52	WG975485

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chlorobenzene	U		0.000348	0.00100	1	05/02/2017 00:52	WG975485
Chlorodibromomethane	U		0.000327	0.00100	1	05/02/2017 00:52	WG975485
Chloroethane	U		0.000453	0.00500	1	05/02/2017 00:52	WG975485
Chloroform	U		0.000324	0.00500	1	05/02/2017 00:52	WG975485
Chloromethane	U	J4	0.000276	0.00250	1	05/02/2017 00:52	WG975485
1,2-Dibromoethane	U		0.000381	0.00100	1	05/02/2017 00:52	WG975485
1,1-Dichloroethane	U		0.000259	0.00100	1	05/02/2017 00:52	WG975485
1,2-Dichloroethane	U		0.000361	0.00100	1	05/02/2017 00:52	WG975485
1,1-Dichloroethene	U		0.000398	0.00100	1	05/02/2017 00:52	WG975485
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	05/02/2017 00:52	WG975485
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	05/02/2017 00:52	WG975485
1,2-Dichloropropane	U		0.000306	0.00100	1	05/02/2017 00:52	WG975485
cis-1,3-Dichloropropene	U	J4	0.000418	0.00100	1	05/02/2017 00:52	WG975485
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	05/02/2017 00:52	WG975485
Ethylbenzene	U		0.000384	0.00100	1	05/02/2017 00:52	WG975485
Isopropylbenzene	U		0.000326	0.00100	1	05/02/2017 00:52	WG975485
p-Isopropyltoluene	U		0.000350	0.00100	1	05/02/2017 00:52	WG975485
2-Butanone (MEK)	U		0.00393	0.0100	1	05/02/2017 00:52	WG975485
2-Hexanone	U	J3 J4	0.00382	0.0100	1	05/02/2017 00:52	WG975485
Methylene Chloride	U		0.00100	0.00500	1	05/02/2017 00:52	WG975485
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	05/02/2017 00:52	WG975485
Methyl tert-butyl ether	U		0.000367	0.00100	1	05/02/2017 00:52	WG975485
Naphthalene	U	J4	0.00100	0.00500	1	05/02/2017 00:52	WG975485
n-Propylbenzene	U		0.000349	0.00100	1	05/02/2017 00:52	WG975485
Styrene	U		0.000307	0.00100	1	05/02/2017 00:52	WG975485
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	05/02/2017 00:52	WG975485
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	05/02/2017 00:52	WG975485
Tetrachloroethene	U		0.000372	0.00100	1	05/02/2017 00:52	WG975485
Toluene	U		0.000412	0.00100	1	05/02/2017 00:52	WG975485
1,1,1-Trichloroethane	U		0.000319	0.00100	1	05/02/2017 00:52	WG975485
1,1,2-Trichloroethane	U	J4	0.000383	0.00100	1	05/02/2017 00:52	WG975485
Trichloroethene	U		0.000398	0.00100	1	05/02/2017 00:52	WG975485
1,2,4-Trimethylbenzene	U		0.000373	0.00100	1	05/02/2017 00:52	WG975485
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	05/02/2017 00:52	WG975485
Vinyl chloride	U		0.000259	0.00100	1	05/02/2017 00:52	WG975485
o-Xylene	U		0.000341	0.00100	1	05/02/2017 00:52	WG975485
m&p-Xylene	U		0.000719	0.00200	1	05/02/2017 00:52	WG975485
Xylenes, Total	U		0.00106	0.00300	1	05/02/2017 00:52	WG975485
(S) Toluene-d8	*103*			*80.0-120*		*05/02/2017 00:52*	WG975485
(S) Dibromofluoromethane	*104*			*76.0-123*		*05/02/2017 00:52*	WG975485
(S) 4-Bromofluorobenzene	*98.4*			*80.0-120*		*05/02/2017 00:52*	WG975485

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
TPH (GC/FID) High Fraction	0.255		0.0247	0.100	1	05/05/2017 00:47	WG975280
(S) o-Terphenyl	*65.2*			*31.0-160*		*05/05/2017 00:47*	WG975280

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Dissolved Solids	5850		2.82	10.0	1	05/01/2017 17:17	WG975257

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	U		0.197	1.00	10	05/02/2017 15:19	WG975586

Sample Narrative:

353.2 L905562-27 WG975586: 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	1840		5.19	100	100	04/30/2017 23:52	WG975327
Fluoride	0.800		0.00990	0.100	1	05/01/2017 00:39	WG975327
Sulfate	1860		7.74	500	100	04/30/2017 23:52	WG975327

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.00591		0.000250	0.00200	1	05/03/2017 15:04	WG975080
Arsenic,Dissolved	0.000769	J	0.000250	0.00200	1	05/10/2017 16:21	WG978287
Barium	0.0213		0.000360	0.00500	1	05/03/2017 15:04	WG975080
Barium,Dissolved	0.0228		0.000360	0.00500	1	05/10/2017 16:21	WG978287
Calcium	655		0.0460	1.00	1	05/03/2017 15:04	WG975080
Chromium	U		0.000540	0.00200	1	05/03/2017 15:04	WG975080
Chromium,Dissolved	U		0.000540	0.00200	1	05/10/2017 16:21	WG978287
Iron	6.76		0.0150	0.100	1	05/03/2017 15:04	WG975080
Iron,Dissolved	U		0.0150	0.100	1	05/10/2017 16:21	WG978287
Lead	U		0.000240	0.00200	1	05/03/2017 15:04	WG975080
Lead,Dissolved	U		0.000240	0.00200	1	05/10/2017 16:21	WG978287
Manganese	1.22		0.000250	0.00500	1	05/03/2017 15:04	WG975080
Manganese,Dissolved	1.21		0.000250	0.00500	1	05/10/2017 16:21	WG978287
Potassium	5.49		0.0370	1.00	1	05/03/2017 15:04	WG975080
Selenium	U		0.000380	0.00200	1	05/03/2017 15:04	WG975080
Selenium,Dissolved	U		0.000380	0.00200	1	05/10/2017 16:21	WG978287
Sodium	995		0.550	5.00	5	05/03/2017 18:32	WG975080

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
TPH (GC/FID) Low Fraction	U		0.0314	0.100	1	04/29/2017 00:08	WG974980
(S) a,a,a-Trifluorotoluene(FID)	*99.2*			*77.0-122*		*04/29/2017 00:08*	WG974980

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		0.0100	0.0500	1	05/02/2017 01:09	WG975485
Benzene	U		0.000331	0.00100	1	05/02/2017 01:09	WG975485
Bromodichloromethane	U		0.000380	0.00100	1	05/02/2017 01:09	WG975485
Bromoform	U		0.000469	0.00100	1	05/02/2017 01:09	WG975485
Bromomethane	U		0.000866	0.00500	1	05/02/2017 01:09	WG975485
n-Butylbenzene	U		0.000361	0.00100	1	05/02/2017 01:09	WG975485

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		0.000365	0.00100	1	05/02/2017 01:09	WG975485
Carbon disulfide	U		0.000275	0.00100	1	05/02/2017 01:09	WG975485
Carbon tetrachloride	U		0.000379	0.00100	1	05/02/2017 01:09	WG975485
Chlorobenzene	U		0.000348	0.00100	1	05/02/2017 01:09	WG975485
Chlorodibromomethane	U		0.000327	0.00100	1	05/02/2017 01:09	WG975485
Chloroethane	U		0.000453	0.00500	1	05/02/2017 01:09	WG975485
Chloroform	U		0.000324	0.00500	1	05/02/2017 01:09	WG975485
Chloromethane	U	J4	0.000276	0.00250	1	05/02/2017 01:09	WG975485
1,2-Dibromoethane	U		0.000381	0.00100	1	05/02/2017 01:09	WG975485
1,1-Dichloroethane	U		0.000259	0.00100	1	05/02/2017 01:09	WG975485
1,2-Dichloroethane	U		0.000361	0.00100	1	05/02/2017 01:09	WG975485
1,1-Dichloroethene	U		0.000398	0.00100	1	05/02/2017 01:09	WG975485
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	05/02/2017 01:09	WG975485
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	05/02/2017 01:09	WG975485
1,2-Dichloropropane	U		0.000306	0.00100	1	05/02/2017 01:09	WG975485
cis-1,3-Dichloropropene	U	J4	0.000418	0.00100	1	05/02/2017 01:09	WG975485
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	05/02/2017 01:09	WG975485
Ethylbenzene	U		0.000384	0.00100	1	05/02/2017 01:09	WG975485
Isopropylbenzene	U		0.000326	0.00100	1	05/02/2017 01:09	WG975485
p-Isopropyltoluene	U		0.000350	0.00100	1	05/02/2017 01:09	WG975485
2-Butanone (MEK)	U		0.00393	0.0100	1	05/02/2017 01:09	WG975485
2-Hexanone	U	J3 J4	0.00382	0.0100	1	05/02/2017 01:09	WG975485
Methylene Chloride	U		0.00100	0.00500	1	05/02/2017 01:09	WG975485
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	05/02/2017 01:09	WG975485
Methyl tert-butyl ether	U		0.000367	0.00100	1	05/02/2017 01:09	WG975485
Naphthalene	U	J4	0.00100	0.00500	1	05/02/2017 01:09	WG975485
n-Propylbenzene	U		0.000349	0.00100	1	05/02/2017 01:09	WG975485
Styrene	U		0.000307	0.00100	1	05/02/2017 01:09	WG975485
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	05/02/2017 01:09	WG975485
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	05/02/2017 01:09	WG975485
Tetrachloroethene	U		0.000372	0.00100	1	05/02/2017 01:09	WG975485
Toluene	U		0.000412	0.00100	1	05/02/2017 01:09	WG975485
1,1,1-Trichloroethane	U		0.000319	0.00100	1	05/02/2017 01:09	WG975485
1,1,2-Trichloroethane	U	J4	0.000383	0.00100	1	05/02/2017 01:09	WG975485
Trichloroethene	U		0.000398	0.00100	1	05/02/2017 01:09	WG975485
1,2,4-Trimethylbenzene	U		0.000373	0.00100	1	05/02/2017 01:09	WG975485
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	05/02/2017 01:09	WG975485
Vinyl chloride	U		0.000259	0.00100	1	05/02/2017 01:09	WG975485
o-Xylene	U		0.000341	0.00100	1	05/02/2017 01:09	WG975485
m&p-Xylene	U		0.000719	0.00200	1	05/02/2017 01:09	WG975485
Xylenes, Total	U		0.00106	0.00300	1	05/02/2017 01:09	WG975485
(S) Toluene-d8	*103*			*80.0-120*		*05/02/2017 01:09*	WG975485
(S) Dibromofluoromethane	*105*			*76.0-123*		*05/02/2017 01:09*	WG975485
(S) 4-Bromofluorobenzene	*105*			*80.0-120*		*05/02/2017 01:09*	WG975485

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	0.0497	J	0.0247	0.100	1	05/05/2017 01:04	WG975280
(S) o-Terphenyl	*66.0*			*31.0-160*		*05/05/2017 01:04*	WG975280

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Dissolved Solids	6440		2.82	10.0	1	05/01/2017 17:17	WG975257

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	U		0.197	1.00	10	05/02/2017 15:24	WG975586

Sample Narrative:

353.2 L905562-28 WG975586: 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	2030		5.19	100	100	05/01/2017 01:56	WG975327
Fluoride	0.998		0.00990	0.100	1	05/01/2017 00:54	WG975327
Sulfate	2160		7.74	500	100	05/01/2017 01:56	WG975327

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.00141	J	0.000250	0.00200	1	05/03/2017 15:07	WG975080
Arsenic,Dissolved	0.000537	J	0.000250	0.00200	1	05/10/2017 16:24	WG978287
Barium	0.0207		0.000360	0.00500	1	05/03/2017 15:07	WG975080
Barium,Dissolved	0.0222		0.000360	0.00500	1	05/10/2017 16:24	WG978287
Calcium	733		0.0460	1.00	1	05/03/2017 15:07	WG975080
Chromium	U		0.000540	0.00200	1	05/03/2017 15:07	WG975080
Chromium,Dissolved	U		0.000540	0.00200	1	05/10/2017 16:24	WG978287
Iron	0.681		0.0150	0.100	1	05/03/2017 15:07	WG975080
Iron,Dissolved	U		0.0150	0.100	1	05/10/2017 16:24	WG978287
Lead	U		0.000240	0.00200	1	05/03/2017 15:07	WG975080
Lead,Dissolved	U		0.000240	0.00200	1	05/10/2017 16:24	WG978287
Manganese	0.0337		0.000250	0.00500	1	05/03/2017 15:07	WG975080
Manganese,Dissolved	0.0565		0.000250	0.00500	1	05/10/2017 16:24	WG978287
Potassium	14.4		0.0370	1.00	1	05/03/2017 15:07	WG975080
Selenium	U		0.000380	0.00200	1	05/03/2017 15:07	WG975080
Selenium,Dissolved	U		0.000380	0.00200	1	05/10/2017 16:24	WG978287
Sodium	1120		1.10	10.0	10	05/03/2017 18:35	WG975080

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
TPH (GC/FID) Low Fraction	U		0.0314	0.100	1	04/29/2017 00:32	WG974980
(S) a,a,a-Trifluorotoluene(FID)	*99.1*			*77.0-122*		*04/29/2017 00:32*	WG974980

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		0.0100	0.0500	1	05/02/2017 01:26	WG975485
Benzene	U		0.000331	0.00100	1	05/02/2017 01:26	WG975485
Bromodichloromethane	U		0.000380	0.00100	1	05/02/2017 01:26	WG975485
Bromoform	U		0.000469	0.00100	1	05/02/2017 01:26	WG975485
Bromomethane	U		0.000866	0.00500	1	05/02/2017 01:26	WG975485
n-Butylbenzene	U		0.000361	0.00100	1	05/02/2017 01:26	WG975485

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		0.000365	0.00100	1	05/02/2017 01:26	WG975485
Carbon disulfide	U		0.000275	0.00100	1	05/02/2017 01:26	WG975485
Carbon tetrachloride	U		0.000379	0.00100	1	05/02/2017 01:26	WG975485
Chlorobenzene	U		0.000348	0.00100	1	05/02/2017 01:26	WG975485
Chlorodibromomethane	U		0.000327	0.00100	1	05/02/2017 01:26	WG975485
Chloroethane	U		0.000453	0.00500	1	05/02/2017 01:26	WG975485
Chloroform	U		0.000324	0.00500	1	05/02/2017 01:26	WG975485
Chloromethane	U	J4	0.000276	0.00250	1	05/02/2017 01:26	WG975485
1,2-Dibromoethane	U		0.000381	0.00100	1	05/02/2017 01:26	WG975485
1,1-Dichloroethane	U		0.000259	0.00100	1	05/02/2017 01:26	WG975485
1,2-Dichloroethane	U		0.000361	0.00100	1	05/02/2017 01:26	WG975485
1,1-Dichloroethene	U		0.000398	0.00100	1	05/02/2017 01:26	WG975485
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	05/02/2017 01:26	WG975485
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	05/02/2017 01:26	WG975485
1,2-Dichloropropane	U		0.000306	0.00100	1	05/02/2017 01:26	WG975485
cis-1,3-Dichloropropene	U	J4	0.000418	0.00100	1	05/02/2017 01:26	WG975485
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	05/02/2017 01:26	WG975485
Ethylbenzene	U		0.000384	0.00100	1	05/02/2017 01:26	WG975485
Isopropylbenzene	U		0.000326	0.00100	1	05/02/2017 01:26	WG975485
p-Isopropyltoluene	U		0.000350	0.00100	1	05/02/2017 01:26	WG975485
2-Butanone (MEK)	U		0.00393	0.0100	1	05/02/2017 01:26	WG975485
2-Hexanone	U	J3 J4	0.00382	0.0100	1	05/02/2017 01:26	WG975485
Methylene Chloride	U		0.00100	0.00500	1	05/02/2017 01:26	WG975485
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	05/02/2017 01:26	WG975485
Methyl tert-butyl ether	U		0.000367	0.00100	1	05/02/2017 01:26	WG975485
Naphthalene	U	J4	0.00100	0.00500	1	05/02/2017 01:26	WG975485
n-Propylbenzene	U		0.000349	0.00100	1	05/02/2017 01:26	WG975485
Styrene	U		0.000307	0.00100	1	05/02/2017 01:26	WG975485
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	05/02/2017 01:26	WG975485
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	05/02/2017 01:26	WG975485
Tetrachloroethene	U		0.000372	0.00100	1	05/02/2017 01:26	WG975485
Toluene	U		0.000412	0.00100	1	05/02/2017 01:26	WG975485
1,1,1-Trichloroethane	U		0.000319	0.00100	1	05/02/2017 01:26	WG975485
1,1,2-Trichloroethane	U	J4	0.000383	0.00100	1	05/02/2017 01:26	WG975485
Trichloroethene	U		0.000398	0.00100	1	05/02/2017 01:26	WG975485
1,2,4-Trimethylbenzene	U		0.000373	0.00100	1	05/02/2017 01:26	WG975485
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	05/02/2017 01:26	WG975485
Vinyl chloride	U		0.000259	0.00100	1	05/02/2017 01:26	WG975485
o-Xylene	U		0.000341	0.00100	1	05/02/2017 01:26	WG975485
m&p-Xylene	U		0.000719	0.00200	1	05/02/2017 01:26	WG975485
Xylenes, Total	U		0.00106	0.00300	1	05/02/2017 01:26	WG975485
(S) Toluene-d8	*105*			*80.0-120*		*05/02/2017 01:26*	WG975485
(S) Dibromofluoromethane	*89.2*			*76.0-123*		*05/02/2017 01:26*	WG975485
(S) 4-Bromofluorobenzene	*105*			*80.0-120*		*05/02/2017 01:26*	WG975485

Semi-Volatile Organic Compounds (GC) by 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	05/05/2017 01:22	WG975280
(S) o-Terphenyl	*63.6*			*31.0-160*		*05/05/2017 01:22*	WG975280

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Dissolved Solids	11000		2.82	10.0	1	05/01/2017 17:17	WG975257

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	0.0390	J P1	0.0197	0.100	1	05/02/2017 15:25	WG975586

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	4110		5.19	100	100	05/01/2017 02:11	WG975327
Fluoride	0.908		0.00990	0.100	1	05/01/2017 01:10	WG975327
Sulfate	2850		7.74	500	100	05/01/2017 02:11	WG975327

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.00227		0.000250	0.00200	1	05/03/2017 15:11	WG975080
Arsenic,Dissolved	0.000607	J	0.000250	0.00200	1	05/10/2017 16:28	WG978287
Barium	0.0219		0.000360	0.00500	1	05/03/2017 15:11	WG975080
Barium,Dissolved	0.0235		0.000360	0.00500	1	05/10/2017 16:28	WG978287
Calcium	809		0.0460	1.00	1	05/03/2017 15:11	WG975080
Chromium	U		0.000540	0.00200	1	05/03/2017 15:11	WG975080
Chromium,Dissolved	U		0.000540	0.00200	1	05/10/2017 16:28	WG978287
Iron	2.00		0.0150	0.100	1	05/03/2017 15:11	WG975080
Iron,Dissolved	0.419		0.0150	0.100	1	05/10/2017 16:28	WG978287
Lead	U		0.000240	0.00200	1	05/03/2017 15:11	WG975080
Lead,Dissolved	U		0.000240	0.00200	1	05/10/2017 16:28	WG978287
Manganese	0.0669		0.000250	0.00500	1	05/03/2017 15:11	WG975080
Manganese,Dissolved	0.0660		0.000250	0.00500	1	05/10/2017 16:28	WG978287
Potassium	33.7		0.0370	1.00	1	05/03/2017 15:11	WG975080
Selenium	U		0.000380	0.00200	1	05/03/2017 15:11	WG975080
Selenium,Dissolved	U		0.000380	0.00200	1	05/10/2017 16:28	WG978287
Sodium	2330		2.20	20.0	20	05/03/2017 18:39	WG975080

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
TPH (GC/FID) Low Fraction	U		0.0314	0.100	1	04/29/2017 00:56	WG974980
(S) a,a,a-Trifluorotoluene(FID)	*99.0*			*77.0-122*		*04/29/2017 00:56*	WG974980

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		0.0100	0.0500	1	05/02/2017 01:43	WG975485
Benzene	U		0.000331	0.00100	1	05/02/2017 01:43	WG975485
Bromodichloromethane	U		0.000380	0.00100	1	05/02/2017 01:43	WG975485
Bromoform	U		0.000469	0.00100	1	05/02/2017 01:43	WG975485
Bromomethane	U		0.000866	0.00500	1	05/02/2017 01:43	WG975485
n-Butylbenzene	U		0.000361	0.00100	1	05/02/2017 01:43	WG975485
sec-Butylbenzene	U		0.000365	0.00100	1	05/02/2017 01:43	WG975485
Carbon disulfide	U		0.000275	0.00100	1	05/02/2017 01:43	WG975485
Carbon tetrachloride	U		0.000379	0.00100	1	05/02/2017 01:43	WG975485

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chlorobenzene	U		0.000348	0.00100	1	05/02/2017 01:43	WG975485
Chlorodibromomethane	U		0.000327	0.00100	1	05/02/2017 01:43	WG975485
Chloroethane	U		0.000453	0.00500	1	05/02/2017 01:43	WG975485
Chloroform	U		0.000324	0.00500	1	05/02/2017 01:43	WG975485
Chloromethane	U	J4	0.000276	0.00250	1	05/02/2017 01:43	WG975485
1,2-Dibromoethane	U		0.000381	0.00100	1	05/02/2017 01:43	WG975485
1,1-Dichloroethane	U		0.000259	0.00100	1	05/02/2017 01:43	WG975485
1,2-Dichloroethane	U		0.000361	0.00100	1	05/02/2017 01:43	WG975485
1,1-Dichloroethene	U		0.000398	0.00100	1	05/02/2017 01:43	WG975485
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	05/02/2017 01:43	WG975485
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	05/02/2017 01:43	WG975485
1,2-Dichloropropane	U		0.000306	0.00100	1	05/02/2017 01:43	WG975485
cis-1,3-Dichloropropene	U	J4	0.000418	0.00100	1	05/02/2017 01:43	WG975485
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	05/02/2017 01:43	WG975485
Ethylbenzene	U		0.000384	0.00100	1	05/02/2017 01:43	WG975485
Isopropylbenzene	U		0.000326	0.00100	1	05/02/2017 01:43	WG975485
p-Isopropyltoluene	U		0.000350	0.00100	1	05/02/2017 01:43	WG975485
2-Butanone (MEK)	U		0.00393	0.0100	1	05/02/2017 01:43	WG975485
2-Hexanone	U	J3 J4	0.00382	0.0100	1	05/02/2017 01:43	WG975485
Methylene Chloride	U		0.00100	0.00500	1	05/02/2017 01:43	WG975485
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	05/02/2017 01:43	WG975485
Methyl tert-butyl ether	U		0.000367	0.00100	1	05/02/2017 01:43	WG975485
Naphthalene	U	J4	0.00100	0.00500	1	05/02/2017 01:43	WG975485
n-Propylbenzene	U		0.000349	0.00100	1	05/02/2017 01:43	WG975485
Styrene	U		0.000307	0.00100	1	05/02/2017 01:43	WG975485
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	05/02/2017 01:43	WG975485
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	05/02/2017 01:43	WG975485
Tetrachloroethene	U		0.000372	0.00100	1	05/02/2017 01:43	WG975485
Toluene	U		0.000412	0.00100	1	05/02/2017 01:43	WG975485
1,1,1-Trichloroethane	U		0.000319	0.00100	1	05/02/2017 01:43	WG975485
1,1,2-Trichloroethane	U	J4	0.000383	0.00100	1	05/02/2017 01:43	WG975485
Trichloroethene	U		0.000398	0.00100	1	05/02/2017 01:43	WG975485
1,2,4-Trimethylbenzene	U		0.000373	0.00100	1	05/02/2017 01:43	WG975485
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	05/02/2017 01:43	WG975485
Vinyl chloride	U		0.000259	0.00100	1	05/02/2017 01:43	WG975485
o-Xylene	U		0.000341	0.00100	1	05/02/2017 01:43	WG975485
m&p-Xylene	U		0.000719	0.00200	1	05/02/2017 01:43	WG975485
Xylenes, Total	U		0.00106	0.00300	1	05/02/2017 01:43	WG975485
(S) Toluene-d8	*105*			*80.0-120*		*05/02/2017 01:43*	WG975485
(S) Dibromofluoromethane	*103*			*76.0-123*		*05/02/2017 01:43*	WG975485
(S) 4-Bromofluorobenzene	*104*			*80.0-120*		*05/02/2017 01:43*	WG975485

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	05/05/2017 01:39	WG975280
(S) o-Terphenyl	*63.7*			*31.0-160*		*05/05/2017 01:39*	WG975280

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Dissolved Solids	19500		2.82	10.0	1	05/01/2017 17:17	WG975257

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	0.305	J	0.197	1.00	10	05/02/2017 15:27	WG975586

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	10200		26.0	500	500	05/01/2017 02:27	WG975327
Fluoride	0.683		0.00990	0.100	1	05/01/2017 01:25	WG975327
Sulfate	3290		38.7	2500	500	05/01/2017 02:27	WG975327

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.000556	J	0.000250	0.00200	1	05/03/2017 15:14	WG975080
Arsenic,Dissolved	0.000295	J	0.000250	0.00200	1	05/10/2017 16:31	WG978287
Barium	0.0306		0.000360	0.00500	1	05/03/2017 15:14	WG975080
Barium,Dissolved	0.0329		0.000360	0.00500	1	05/10/2017 16:31	WG978287
Calcium	1280		2.30	50.0	50	05/03/2017 18:43	WG975080
Chromium	0.00121	J	0.000540	0.00200	1	05/03/2017 15:14	WG975080
Chromium,Dissolved	U		0.000540	0.00200	1	05/10/2017 16:31	WG978287
Iron	0.804		0.0150	0.100	1	05/03/2017 15:14	WG975080
Iron,Dissolved	0.0408	J	0.0150	0.100	1	05/10/2017 16:31	WG978287
Lead	U		0.000240	0.00200	1	05/03/2017 15:14	WG975080
Lead,Dissolved	U		0.000240	0.00200	1	05/10/2017 16:31	WG978287
Manganese	0.758		0.000250	0.00500	1	05/03/2017 15:14	WG975080
Manganese,Dissolved	0.773		0.000250	0.00500	1	05/10/2017 16:31	WG978287
Potassium	20.1		0.0370	1.00	1	05/03/2017 15:14	WG975080
Selenium	U		0.000380	0.00200	1	05/03/2017 15:14	WG975080
Selenium,Dissolved	U		0.000380	0.00200	1	05/10/2017 16:31	WG978287
Sodium	5130		5.50	50.0	50	05/03/2017 18:43	WG975080

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
TPH (GC/FID) Low Fraction	U		0.0314	0.100	1	04/29/2017 01:21	WG974980
(S) a,a,a-Trifluorotoluene(FID)	*98.9*			*77.0-122*		*04/29/2017 01:21*	WG974980

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		0.0100	0.0500	1	05/02/2017 02:00	WG975485
Benzene	U		0.000331	0.00100	1	05/02/2017 02:00	WG975485
Bromodichloromethane	U		0.000380	0.00100	1	05/02/2017 02:00	WG975485
Bromoform	U		0.000469	0.00100	1	05/02/2017 02:00	WG975485
Bromomethane	U		0.000866	0.00500	1	05/02/2017 02:00	WG975485
n-Butylbenzene	U		0.000361	0.00100	1	05/02/2017 02:00	WG975485
sec-Butylbenzene	U		0.000365	0.00100	1	05/02/2017 02:00	WG975485
Carbon disulfide	U		0.000275	0.00100	1	05/02/2017 02:00	WG975485
Carbon tetrachloride	U		0.000379	0.00100	1	05/02/2017 02:00	WG975485

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chlorobenzene	U		0.000348	0.00100	1	05/02/2017 02:00	WG975485
Chlorodibromomethane	U		0.000327	0.00100	1	05/02/2017 02:00	WG975485
Chloroethane	U		0.000453	0.00500	1	05/02/2017 02:00	WG975485
Chloroform	U		0.000324	0.00500	1	05/02/2017 02:00	WG975485
Chloromethane	U	J4	0.000276	0.00250	1	05/02/2017 02:00	WG975485
1,2-Dibromoethane	U		0.000381	0.00100	1	05/02/2017 02:00	WG975485
1,1-Dichloroethane	U		0.000259	0.00100	1	05/02/2017 02:00	WG975485
1,2-Dichloroethane	U		0.000361	0.00100	1	05/02/2017 02:00	WG975485
1,1-Dichloroethene	U		0.000398	0.00100	1	05/02/2017 02:00	WG975485
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	05/02/2017 02:00	WG975485
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	05/02/2017 02:00	WG975485
1,2-Dichloropropane	U		0.000306	0.00100	1	05/02/2017 02:00	WG975485
cis-1,3-Dichloropropene	U	J4	0.000418	0.00100	1	05/02/2017 02:00	WG975485
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	05/02/2017 02:00	WG975485
Ethylbenzene	U		0.000384	0.00100	1	05/02/2017 02:00	WG975485
Isopropylbenzene	U		0.000326	0.00100	1	05/02/2017 02:00	WG975485
p-Isopropyltoluene	U		0.000350	0.00100	1	05/02/2017 02:00	WG975485
2-Butanone (MEK)	U		0.00393	0.0100	1	05/02/2017 02:00	WG975485
2-Hexanone	U	J3 J4	0.00382	0.0100	1	05/02/2017 02:00	WG975485
Methylene Chloride	U		0.00100	0.00500	1	05/02/2017 02:00	WG975485
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	05/02/2017 02:00	WG975485
Methyl tert-butyl ether	U		0.000367	0.00100	1	05/02/2017 02:00	WG975485
Naphthalene	U	J4	0.00100	0.00500	1	05/02/2017 02:00	WG975485
n-Propylbenzene	U		0.000349	0.00100	1	05/02/2017 02:00	WG975485
Styrene	U		0.000307	0.00100	1	05/02/2017 02:00	WG975485
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	05/02/2017 02:00	WG975485
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	05/02/2017 02:00	WG975485
Tetrachloroethene	U		0.000372	0.00100	1	05/02/2017 02:00	WG975485
Toluene	U		0.000412	0.00100	1	05/02/2017 02:00	WG975485
1,1,1-Trichloroethane	U		0.000319	0.00100	1	05/02/2017 02:00	WG975485
1,1,2-Trichloroethane	U	J4	0.000383	0.00100	1	05/02/2017 02:00	WG975485
Trichloroethene	U		0.000398	0.00100	1	05/02/2017 02:00	WG975485
1,2,4-Trimethylbenzene	U		0.000373	0.00100	1	05/02/2017 02:00	WG975485
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	05/02/2017 02:00	WG975485
Vinyl chloride	U		0.000259	0.00100	1	05/02/2017 02:00	WG975485
o-Xylene	U		0.000341	0.00100	1	05/02/2017 02:00	WG975485
m&p-Xylene	U		0.000719	0.00200	1	05/02/2017 02:00	WG975485
Xylenes, Total	U		0.00106	0.00300	1	05/02/2017 02:00	WG975485
(S) Toluene-d8	*104*			*80.0-120*		*05/02/2017 02:00*	WG975485
(S) Dibromofluoromethane	*103*			*76.0-123*		*05/02/2017 02:00*	WG975485
(S) 4-Bromofluorobenzene	*108*			*80.0-120*		*05/02/2017 02:00*	WG975485

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	05/05/2017 01:56	WG975280
(S) o-Terphenyl	*62.9*			*31.0-160*		*05/05/2017 01:56*	WG975280

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Dissolved Solids	14000		2.82	10.0	1	05/01/2017 17:17	WG975257

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	U		0.197	1.00	10	05/02/2017 15:28	WG975586

Sample Narrative:

353.2 L905562-31 WG975586: 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	6050		5.19	100	100	05/01/2017 02:42	WG975327
Fluoride	0.825		0.00990	0.100	1	05/01/2017 01:40	WG975327
Sulfate	2890		7.74	500	100	05/01/2017 02:42	WG975327

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.00420		0.000250	0.00200	1	05/03/2017 15:18	WG975080
Arsenic,Dissolved	0.00103	J	0.000250	0.00200	1	05/10/2017 16:35	WG978287
Barium	0.0189		0.000360	0.00500	1	05/03/2017 15:18	WG975080
Barium,Dissolved	0.0188		0.000360	0.00500	1	05/10/2017 16:35	WG978287
Calcium	979		0.0460	1.00	1	05/03/2017 15:18	WG975080
Chromium	U		0.000540	0.00200	1	05/03/2017 15:18	WG975080
Chromium,Dissolved	U		0.000540	0.00200	1	05/10/2017 16:35	WG978287
Iron	4.59		0.0150	0.100	1	05/03/2017 15:18	WG975080
Iron,Dissolved	0.0826	J	0.0150	0.100	1	05/10/2017 16:35	WG978287
Lead	U		0.000240	0.00200	1	05/03/2017 15:18	WG975080
Lead,Dissolved	U		0.000240	0.00200	1	05/10/2017 16:35	WG978287
Manganese	0.374		0.000250	0.00500	1	05/03/2017 15:18	WG975080
Manganese,Dissolved	0.370		0.000250	0.00500	1	05/10/2017 16:35	WG978287
Potassium	35.2		0.0370	1.00	1	05/03/2017 15:18	WG975080
Selenium	U		0.000380	0.00200	1	05/03/2017 15:18	WG975080
Selenium,Dissolved	U		0.000380	0.00200	1	05/10/2017 16:35	WG978287
Sodium	3660		5.50	50.0	50	05/03/2017 18:46	WG975080

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
TPH (GC/FID) Low Fraction	U		0.0314	0.100	1	04/29/2017 01:45	WG974980
(S) a,a,a-Trifluorotoluene(FID)	*98.8*			*77.0-122*		*04/29/2017 01:45*	WG974980

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		0.0100	0.0500	1	05/02/2017 02:16	WG975485
Benzene	U		0.000331	0.00100	1	05/02/2017 02:16	WG975485
Bromodichloromethane	U		0.000380	0.00100	1	05/02/2017 02:16	WG975485
Bromoform	U		0.000469	0.00100	1	05/02/2017 02:16	WG975485
Bromomethane	U		0.000866	0.00500	1	05/02/2017 02:16	WG975485
n-Butylbenzene	U		0.000361	0.00100	1	05/02/2017 02:16	WG975485

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		0.000365	0.00100	1	05/02/2017 02:16	WG975485
Carbon disulfide	U		0.000275	0.00100	1	05/02/2017 02:16	WG975485
Carbon tetrachloride	U		0.000379	0.00100	1	05/02/2017 02:16	WG975485
Chlorobenzene	U		0.000348	0.00100	1	05/02/2017 02:16	WG975485
Chlorodibromomethane	U		0.000327	0.00100	1	05/02/2017 02:16	WG975485
Chloroethane	U		0.000453	0.00500	1	05/02/2017 02:16	WG975485
Chloroform	U		0.000324	0.00500	1	05/02/2017 02:16	WG975485
Chloromethane	U	J4	0.000276	0.00250	1	05/02/2017 02:16	WG975485
1,2-Dibromoethane	U		0.000381	0.00100	1	05/02/2017 02:16	WG975485
1,1-Dichloroethane	U		0.000259	0.00100	1	05/02/2017 02:16	WG975485
1,2-Dichloroethane	U		0.000361	0.00100	1	05/02/2017 02:16	WG975485
1,1-Dichloroethene	U		0.000398	0.00100	1	05/02/2017 02:16	WG975485
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	05/02/2017 02:16	WG975485
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	05/02/2017 02:16	WG975485
1,2-Dichloropropane	U		0.000306	0.00100	1	05/02/2017 02:16	WG975485
cis-1,3-Dichloropropene	U	J4	0.000418	0.00100	1	05/02/2017 02:16	WG975485
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	05/02/2017 02:16	WG975485
Ethylbenzene	U		0.000384	0.00100	1	05/02/2017 02:16	WG975485
Isopropylbenzene	U		0.000326	0.00100	1	05/02/2017 02:16	WG975485
p-Isopropyltoluene	U		0.000350	0.00100	1	05/02/2017 02:16	WG975485
2-Butanone (MEK)	U		0.00393	0.0100	1	05/02/2017 02:16	WG975485
2-Hexanone	U	J3 J4	0.00382	0.0100	1	05/02/2017 02:16	WG975485
Methylene Chloride	U		0.00100	0.00500	1	05/02/2017 02:16	WG975485
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	05/02/2017 02:16	WG975485
Methyl tert-butyl ether	U		0.000367	0.00100	1	05/02/2017 02:16	WG975485
Naphthalene	U	J4	0.00100	0.00500	1	05/02/2017 02:16	WG975485
n-Propylbenzene	U		0.000349	0.00100	1	05/02/2017 02:16	WG975485
Styrene	U		0.000307	0.00100	1	05/02/2017 02:16	WG975485
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	05/02/2017 02:16	WG975485
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	05/02/2017 02:16	WG975485
Tetrachloroethene	U		0.000372	0.00100	1	05/02/2017 02:16	WG975485
Toluene	U		0.000412	0.00100	1	05/02/2017 02:16	WG975485
1,1,1-Trichloroethane	U		0.000319	0.00100	1	05/02/2017 02:16	WG975485
1,1,2-Trichloroethane	U	J4	0.000383	0.00100	1	05/02/2017 02:16	WG975485
Trichloroethene	U		0.000398	0.00100	1	05/02/2017 02:16	WG975485
1,2,4-Trimethylbenzene	U		0.000373	0.00100	1	05/02/2017 02:16	WG975485
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	05/02/2017 02:16	WG975485
Vinyl chloride	U		0.000259	0.00100	1	05/02/2017 02:16	WG975485
o-Xylene	U		0.000341	0.00100	1	05/02/2017 02:16	WG975485
m&p-Xylene	U		0.000719	0.00200	1	05/02/2017 02:16	WG975485
Xylenes, Total	U		0.00106	0.00300	1	05/02/2017 02:16	WG975485
(S) Toluene-d8	*103*			*80.0-120*		*05/02/2017 02:16*	WG975485
(S) Dibromofluoromethane	*105*			*76.0-123*		*05/02/2017 02:16*	WG975485
(S) 4-Bromofluorobenzene	*108*			*80.0-120*		*05/02/2017 02:16*	WG975485

Semi-Volatile Organic Compounds (GC) by 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	05/05/2017 02:14	WG975280
(S) o-Terphenyl	*63.8*			*31.0-160*		*05/05/2017 02:14*	WG975280

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Dissolved Solids	12100		2.82	10.0	1	05/01/2017 17:17	WG975257

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	U		0.197	1.00	10	05/02/2017 15:29	WG975586

Sample Narrative:

353.2 L905562-32 WG975586: 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	4720		5.19	100	100	05/01/2017 05:16	WG975327
Fluoride	0.872		0.00990	0.100	1	05/01/2017 03:28	WG975327
Sulfate	2990		7.74	500	100	05/01/2017 05:16	WG975327

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.0108		0.000250	0.00200	1	05/03/2017 15:22	WG975080
Arsenic,Dissolved	0.00197	J	0.000250	0.00200	1	05/10/2017 16:38	WG978287
Barium	0.0269		0.000360	0.00500	1	05/03/2017 15:22	WG975080
Barium,Dissolved	0.0245		0.000360	0.00500	1	05/10/2017 16:38	WG978287
Calcium	829		0.0460	1.00	1	05/03/2017 15:22	WG975080
Chromium	U		0.000540	0.00200	1	05/03/2017 15:22	WG975080
Chromium,Dissolved	U		0.000540	0.00200	1	05/10/2017 16:38	WG978287
Iron	17.0		0.0150	0.100	1	05/03/2017 15:22	WG975080
Iron,Dissolved	0.357		0.0150	0.100	1	05/10/2017 16:38	WG978287
Lead	U		0.000240	0.00200	1	05/03/2017 15:22	WG975080
Lead,Dissolved	U		0.000240	0.00200	1	05/10/2017 16:38	WG978287
Manganese	0.343		0.000250	0.00500	1	05/03/2017 15:22	WG975080
Manganese,Dissolved	0.290		0.000250	0.00500	1	05/10/2017 16:38	WG978287
Potassium	40.0		0.0370	1.00	1	05/03/2017 15:22	WG975080
Selenium	U		0.000380	0.00200	1	05/03/2017 15:22	WG975080
Selenium,Dissolved	U		0.000380	0.00200	1	05/10/2017 16:38	WG978287
Sodium	2780		2.20	20.0	20	05/03/2017 18:50	WG975080

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	0.0353	J	0.0314	0.100	1	04/29/2017 02:09	WG974980
(S) a,a,a-Trifluorotoluene(FID)	*98.9*			*77.0-122*		*04/29/2017 02:09*	WG974980

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		0.0100	0.0500	1	05/02/2017 02:33	WG975485
Benzene	U		0.000331	0.00100	1	05/02/2017 02:33	WG975485
Bromodichloromethane	U		0.000380	0.00100	1	05/02/2017 02:33	WG975485
Bromoform	U		0.000469	0.00100	1	05/02/2017 02:33	WG975485
Bromomethane	U		0.000866	0.00500	1	05/02/2017 02:33	WG975485
n-Butylbenzene	U		0.000361	0.00100	1	05/02/2017 02:33	WG975485

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		0.000365	0.00100	1	05/02/2017 02:33	WG975485
Carbon disulfide	U		0.000275	0.00100	1	05/02/2017 02:33	WG975485
Carbon tetrachloride	U		0.000379	0.00100	1	05/02/2017 02:33	WG975485
Chlorobenzene	U		0.000348	0.00100	1	05/02/2017 02:33	WG975485
Chlorodibromomethane	U		0.000327	0.00100	1	05/02/2017 02:33	WG975485
Chloroethane	U		0.000453	0.00500	1	05/02/2017 02:33	WG975485
Chloroform	U		0.000324	0.00500	1	05/02/2017 02:33	WG975485
Chloromethane	U	J4	0.000276	0.00250	1	05/02/2017 02:33	WG975485
1,2-Dibromoethane	U		0.000381	0.00100	1	05/02/2017 02:33	WG975485
1,1-Dichloroethane	U		0.000259	0.00100	1	05/02/2017 02:33	WG975485
1,2-Dichloroethane	U		0.000361	0.00100	1	05/02/2017 02:33	WG975485
1,1-Dichloroethene	U		0.000398	0.00100	1	05/02/2017 02:33	WG975485
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	05/02/2017 02:33	WG975485
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	05/02/2017 02:33	WG975485
1,2-Dichloropropane	U		0.000306	0.00100	1	05/02/2017 02:33	WG975485
cis-1,3-Dichloropropene	U	J4	0.000418	0.00100	1	05/02/2017 02:33	WG975485
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	05/02/2017 02:33	WG975485
Ethylbenzene	U		0.000384	0.00100	1	05/02/2017 02:33	WG975485
Isopropylbenzene	U		0.000326	0.00100	1	05/02/2017 02:33	WG975485
p-Isopropyltoluene	U		0.000350	0.00100	1	05/02/2017 02:33	WG975485
2-Butanone (MEK)	U		0.00393	0.0100	1	05/02/2017 02:33	WG975485
2-Hexanone	U	J3 J4	0.00382	0.0100	1	05/02/2017 02:33	WG975485
Methylene Chloride	U		0.00100	0.00500	1	05/02/2017 02:33	WG975485
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	05/02/2017 02:33	WG975485
Methyl tert-butyl ether	U		0.000367	0.00100	1	05/02/2017 02:33	WG975485
Naphthalene	U	J4	0.00100	0.00500	1	05/02/2017 02:33	WG975485
n-Propylbenzene	U		0.000349	0.00100	1	05/02/2017 02:33	WG975485
Styrene	U		0.000307	0.00100	1	05/02/2017 02:33	WG975485
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	05/02/2017 02:33	WG975485
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	05/02/2017 02:33	WG975485
Tetrachloroethene	U		0.000372	0.00100	1	05/02/2017 02:33	WG975485
Toluene	U		0.000412	0.00100	1	05/02/2017 02:33	WG975485
1,1,1-Trichloroethane	U		0.000319	0.00100	1	05/02/2017 02:33	WG975485
1,1,2-Trichloroethane	U	J4	0.000383	0.00100	1	05/02/2017 02:33	WG975485
Trichloroethene	U		0.000398	0.00100	1	05/02/2017 02:33	WG975485
1,2,4-Trimethylbenzene	U		0.000373	0.00100	1	05/02/2017 02:33	WG975485
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	05/02/2017 02:33	WG975485
Vinyl chloride	U		0.000259	0.00100	1	05/02/2017 02:33	WG975485
o-Xylene	U		0.000341	0.00100	1	05/02/2017 02:33	WG975485
m&p-Xylene	U		0.000719	0.00200	1	05/02/2017 02:33	WG975485
Xylenes, Total	U		0.00106	0.00300	1	05/02/2017 02:33	WG975485
(S) Toluene-d8	*103*			*80.0-120*		*05/02/2017 02:33*	WG975485
(S) Dibromofluoromethane	*104*			*76.0-123*		*05/02/2017 02:33*	WG975485
(S) 4-Bromofluorobenzene	*67.5*	J2		*80.0-120*		*05/02/2017 02:33*	WG975485

Semi-Volatile Organic Compounds (GC) by 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	05/05/2017 02:31	WG975280
(S) o-Terphenyl	*63.8*			*31.0-160*		*05/05/2017 02:31*	WG975280

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Dissolved Solids	4210		2.82	10.0	1	05/02/2017 11:45	WG975502

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	U		0.0197	0.100	1	05/02/2017 15:30	WG975586

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	1860		5.19	100	100	05/01/2017 05:32	WG975327
Fluoride	0.743		0.00990	0.100	1	05/01/2017 03:44	WG975327
Sulfate	2160		7.74	500	100	05/01/2017 05:32	WG975327

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.0412		0.000250	0.00200	1	05/03/2017 17:09	WG975080
Arsenic,Dissolved	0.0314		0.000250	0.00200	1	05/10/2017 16:58	WG978287
Barium	0.0155		0.000360	0.00500	1	05/03/2017 17:09	WG975080
Barium,Dissolved	0.0155		0.000360	0.00500	1	05/10/2017 16:58	WG978287
Calcium	503		0.0460	1.00	1	05/03/2017 17:09	WG975080
Chromium	0.000813	J	0.000540	0.00200	1	05/03/2017 17:09	WG975080
Chromium,Dissolved	0.000775	J	0.000540	0.00200	1	05/10/2017 16:58	WG978287
Iron	6.33		0.0150	0.100	1	05/03/2017 17:09	WG975080
Iron,Dissolved	0.0154	J	0.0150	0.100	1	05/10/2017 16:58	WG978287
Lead	U		0.000240	0.00200	1	05/03/2017 17:09	WG975080
Lead,Dissolved	U		0.000240	0.00200	1	05/10/2017 16:58	WG978287
Manganese	6.41		0.000250	0.00500	1	05/03/2017 17:09	WG975080
Manganese,Dissolved	6.70		0.000250	0.00500	1	05/10/2017 16:58	WG978287
Potassium	3.73		0.0370	1.00	1	05/03/2017 17:09	WG975080
Selenium	0.000774	J	0.000380	0.00200	1	05/03/2017 17:09	WG975080
Selenium,Dissolved	0.000846	J	0.000380	0.00200	1	05/10/2017 16:58	WG978287
Sodium	1340		1.10	10.0	10	05/03/2017 18:53	WG975080

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	4.22		0.0314	0.100	1	04/29/2017 02:33	WG974980
(S) a,a,a-Trifluorotoluene(FID)	*100*			*77.0-122*		*04/29/2017 02:33*	WG974980

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		0.0100	0.0500	1	05/02/2017 02:50	WG975485
Benzene	U		0.000331	0.00100	1	05/02/2017 02:50	WG975485
Bromodichloromethane	U		0.000380	0.00100	1	05/02/2017 02:50	WG975485
Bromoform	U		0.000469	0.00100	1	05/02/2017 02:50	WG975485
Bromomethane	U		0.000866	0.00500	1	05/02/2017 02:50	WG975485
n-Butylbenzene	U		0.000361	0.00100	1	05/02/2017 02:50	WG975485
sec-Butylbenzene	0.000401	J	0.000365	0.00100	1	05/02/2017 02:50	WG975485
Carbon disulfide	U		0.000275	0.00100	1	05/02/2017 02:50	WG975485
Carbon tetrachloride	U		0.000379	0.00100	1	05/02/2017 02:50	WG975485

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chlorobenzene	U		0.000348	0.00100	1	05/02/2017 02:50	WG975485
Chlorodibromomethane	U		0.000327	0.00100	1	05/02/2017 02:50	WG975485
Chloroethane	U		0.000453	0.00500	1	05/02/2017 02:50	WG975485
Chloroform	U		0.000324	0.00500	1	05/02/2017 02:50	WG975485
Chloromethane	U	J4	0.000276	0.00250	1	05/02/2017 02:50	WG975485
1,2-Dibromoethane	U		0.000381	0.00100	1	05/02/2017 02:50	WG975485
1,1-Dichloroethane	U		0.000259	0.00100	1	05/02/2017 02:50	WG975485
1,2-Dichloroethane	U		0.000361	0.00100	1	05/02/2017 02:50	WG975485
1,1-Dichloroethene	U		0.000398	0.00100	1	05/02/2017 02:50	WG975485
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	05/02/2017 02:50	WG975485
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	05/02/2017 02:50	WG975485
1,2-Dichloropropane	U		0.000306	0.00100	1	05/02/2017 02:50	WG975485
cis-1,3-Dichloropropene	U	J4	0.000418	0.00100	1	05/02/2017 02:50	WG975485
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	05/02/2017 02:50	WG975485
Ethylbenzene	U		0.000384	0.00100	1	05/02/2017 02:50	WG975485
Isopropylbenzene	U		0.000326	0.00100	1	05/02/2017 02:50	WG975485
p-Isopropyltoluene	U		0.000350	0.00100	1	05/02/2017 02:50	WG975485
2-Butanone (MEK)	U		0.00393	0.0100	1	05/02/2017 02:50	WG975485
2-Hexanone	U	J3 J4	0.00382	0.0100	1	05/02/2017 02:50	WG975485
Methylene Chloride	U		0.00100	0.00500	1	05/02/2017 02:50	WG975485
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	05/02/2017 02:50	WG975485
Methyl tert-butyl ether	0.00654		0.000367	0.00100	1	05/02/2017 02:50	WG975485
Naphthalene	U	J4	0.00100	0.00500	1	05/02/2017 02:50	WG975485
n-Propylbenzene	U		0.000349	0.00100	1	05/02/2017 02:50	WG975485
Styrene	U		0.000307	0.00100	1	05/02/2017 02:50	WG975485
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	05/02/2017 02:50	WG975485
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	05/02/2017 02:50	WG975485
Tetrachloroethene	U		0.000372	0.00100	1	05/02/2017 02:50	WG975485
Toluene	U		0.000412	0.00100	1	05/02/2017 02:50	WG975485
1,1,1-Trichloroethane	U		0.000319	0.00100	1	05/02/2017 02:50	WG975485
1,1,2-Trichloroethane	U	J4	0.000383	0.00100	1	05/02/2017 02:50	WG975485
Trichloroethene	U		0.000398	0.00100	1	05/02/2017 02:50	WG975485
1,2,4-Trimethylbenzene	U		0.000373	0.00100	1	05/02/2017 02:50	WG975485
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	05/02/2017 02:50	WG975485
Vinyl chloride	U		0.000259	0.00100	1	05/02/2017 02:50	WG975485
o-Xylene	U		0.000341	0.00100	1	05/02/2017 02:50	WG975485
m&p-Xylene	U		0.000719	0.00200	1	05/02/2017 02:50	WG975485
Xylenes, Total	U		0.00106	0.00300	1	05/02/2017 02:50	WG975485
(S) Toluene-d8	*106*			*80.0-120*		*05/02/2017 02:50*	WG975485
(S) Dibromofluoromethane	*104*			*76.0-123*		*05/02/2017 02:50*	WG975485
(S) 4-Bromofluorobenzene	*111*			*80.0-120*		*05/02/2017 02:50*	WG975485

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
TPH (GC/FID) High Fraction	6.63		0.0247	0.100	1	05/05/2017 02:49	WG975280
(S) o-Terphenyl	*75.7*			*31.0-160*		*05/05/2017 02:49*	WG975280

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Dissolved Solids	5190		2.82	10.0	1	05/02/2017 11:45	WG975502

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	U		0.0197	0.100	1	05/02/2017 15:31	WG975586

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	1330		5.19	100	100	05/01/2017 03:59	WG975327
Fluoride	1.98		0.00990	0.100	1	05/01/2017 06:18	WG975327
Sulfate	2380		7.74	500	100	05/01/2017 03:59	WG975327

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.0228		0.000250	0.00200	1	05/03/2017 17:13	WG975080
Arsenic,Dissolved	0.0172		0.000250	0.00200	1	05/10/2017 17:01	WG978287
Barium	0.0148		0.000360	0.00500	1	05/03/2017 17:13	WG975080
Barium,Dissolved	0.0152		0.000360	0.00500	1	05/10/2017 17:01	WG978287
Calcium	599		0.0460	1.00	1	05/03/2017 17:13	WG975080
Chromium	0.000571	J	0.000540	0.00200	1	05/03/2017 17:13	WG975080
Chromium,Dissolved	U		0.000540	0.00200	1	05/10/2017 17:01	WG978287
Iron	0.718		0.0150	0.100	1	05/03/2017 17:13	WG975080
Iron,Dissolved	0.0247	J	0.0150	0.100	1	05/10/2017 17:01	WG978287
Lead	0.000272	J	0.000240	0.00200	1	05/03/2017 17:13	WG975080
Lead,Dissolved	U		0.000240	0.00200	1	05/10/2017 17:01	WG978287
Manganese	1.10		0.000250	0.00500	1	05/03/2017 17:13	WG975080
Manganese,Dissolved	1.12		0.000250	0.00500	1	05/10/2017 17:01	WG978287
Potassium	4.57		0.0370	1.00	1	05/03/2017 17:13	WG975080
Selenium	0.00386		0.000380	0.00200	1	05/03/2017 17:13	WG975080
Selenium,Dissolved	0.00293		0.000380	0.00200	1	05/10/2017 17:01	WG978287
Sodium	876		0.550	5.00	5	05/03/2017 19:35	WG975080

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	0.263		0.0314	0.100	1	04/29/2017 02:57	WG974980
(S) a,a,a-Trifluorotoluene(FID)	*99.2*			*77.0-122*		*04/29/2017 02:57*	WG974980

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		0.0100	0.0500	1	05/02/2017 03:07	WG975485
Benzene	U		0.000331	0.00100	1	05/02/2017 03:07	WG975485
Bromodichloromethane	U		0.000380	0.00100	1	05/02/2017 03:07	WG975485
Bromoform	U		0.000469	0.00100	1	05/02/2017 03:07	WG975485
Bromomethane	U		0.000866	0.00500	1	05/02/2017 03:07	WG975485
n-Butylbenzene	U		0.000361	0.00100	1	05/02/2017 03:07	WG975485
sec-Butylbenzene	U		0.000365	0.00100	1	05/02/2017 03:07	WG975485
Carbon disulfide	U		0.000275	0.00100	1	05/02/2017 03:07	WG975485
Carbon tetrachloride	U		0.000379	0.00100	1	05/02/2017 03:07	WG975485

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chlorobenzene	U		0.000348	0.00100	1	05/02/2017 03:07	WG975485
Chlorodibromomethane	U		0.000327	0.00100	1	05/02/2017 03:07	WG975485
Chloroethane	U		0.000453	0.00500	1	05/02/2017 03:07	WG975485
Chloroform	U		0.000324	0.00500	1	05/02/2017 03:07	WG975485
Chloromethane	U	J4	0.000276	0.00250	1	05/02/2017 03:07	WG975485
1,2-Dibromoethane	U		0.000381	0.00100	1	05/02/2017 03:07	WG975485
1,1-Dichloroethane	U		0.000259	0.00100	1	05/02/2017 03:07	WG975485
1,2-Dichloroethane	U		0.000361	0.00100	1	05/02/2017 03:07	WG975485
1,1-Dichloroethene	U		0.000398	0.00100	1	05/02/2017 03:07	WG975485
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	05/02/2017 03:07	WG975485
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	05/02/2017 03:07	WG975485
1,2-Dichloropropane	U		0.000306	0.00100	1	05/02/2017 03:07	WG975485
cis-1,3-Dichloropropene	U	J4	0.000418	0.00100	1	05/02/2017 03:07	WG975485
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	05/02/2017 03:07	WG975485
Ethylbenzene	U		0.000384	0.00100	1	05/02/2017 03:07	WG975485
Isopropylbenzene	U		0.000326	0.00100	1	05/02/2017 03:07	WG975485
p-Isopropyltoluene	U		0.000350	0.00100	1	05/02/2017 03:07	WG975485
2-Butanone (MEK)	U		0.00393	0.0100	1	05/02/2017 03:07	WG975485
2-Hexanone	U	J3 J4	0.00382	0.0100	1	05/02/2017 03:07	WG975485
Methylene Chloride	U		0.00100	0.00500	1	05/02/2017 03:07	WG975485
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	05/02/2017 03:07	WG975485
Methyl tert-butyl ether	U		0.000367	0.00100	1	05/02/2017 03:07	WG975485
Naphthalene	U	J4	0.00100	0.00500	1	05/02/2017 03:07	WG975485
n-Propylbenzene	U		0.000349	0.00100	1	05/02/2017 03:07	WG975485
Styrene	U		0.000307	0.00100	1	05/02/2017 03:07	WG975485
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	05/02/2017 03:07	WG975485
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	05/02/2017 03:07	WG975485
Tetrachloroethene	U		0.000372	0.00100	1	05/02/2017 03:07	WG975485
Toluene	U		0.000412	0.00100	1	05/02/2017 03:07	WG975485
1,1,1-Trichloroethane	U		0.000319	0.00100	1	05/02/2017 03:07	WG975485
1,1,2-Trichloroethane	U	J4	0.000383	0.00100	1	05/02/2017 03:07	WG975485
Trichloroethene	U		0.000398	0.00100	1	05/02/2017 03:07	WG975485
1,2,4-Trimethylbenzene	U		0.000373	0.00100	1	05/02/2017 03:07	WG975485
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	05/02/2017 03:07	WG975485
Vinyl chloride	U		0.000259	0.00100	1	05/02/2017 03:07	WG975485
o-Xylene	U		0.000341	0.00100	1	05/02/2017 03:07	WG975485
m&p-Xylene	U		0.000719	0.00200	1	05/02/2017 03:07	WG975485
Xylenes, Total	U		0.00106	0.00300	1	05/02/2017 03:07	WG975485
(S) Toluene-d8	*105*			*80.0-120*		*05/02/2017 03:07*	WG975485
(S) Dibromofluoromethane	*104*			*76.0-123*		*05/02/2017 03:07*	WG975485
(S) 4-Bromofluorobenzene	*103*			*80.0-120*		*05/02/2017 03:07*	WG975485

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	7.74		0.0247	0.100	1	05/05/2017 03:06	WG975280
(S) o-Terphenyl	*71.8*			*31.0-160*		*05/05/2017 03:06*	WG975280

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Dissolved Solids	U		2.82	10.0	1	05/02/2017 11:45	WG975502

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	U		0.0197	0.100	1	05/02/2017 15:36	WG975586

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	0.359	J P1	0.0519	1.00	1	05/01/2017 04:14	WG975327
Fluoride	U		0.00990	0.100	1	05/01/2017 04:14	WG975327
Sulfate	0.143	J P1	0.0774	5.00	1	05/01/2017 04:14	WG975327

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	U		0.000250	0.00200	1	05/03/2017 17:16	WG975080
Arsenic,Dissolved	U		0.000250	0.00200	1	05/10/2017 17:05	WG978287
Barium	U		0.000360	0.00500	1	05/03/2017 17:16	WG975080
Barium,Dissolved	U		0.000360	0.00500	1	05/10/2017 17:05	WG978287
Calcium	0.267	J	0.0460	1.00	1	05/03/2017 17:16	WG975080
Chromium	U		0.000540	0.00200	1	05/03/2017 17:16	WG975080
Chromium,Dissolved	0.00246		0.000540	0.00200	1	05/10/2017 17:05	WG978287
Iron	U		0.0150	0.100	1	05/03/2017 17:16	WG975080
Iron,Dissolved	U		0.0150	0.100	1	05/10/2017 17:05	WG978287
Lead	U		0.000240	0.00200	1	05/03/2017 17:16	WG975080
Lead,Dissolved	U		0.000240	0.00200	1	05/10/2017 17:05	WG978287
Manganese	0.00316	J	0.000250	0.00500	1	05/03/2017 17:16	WG975080
Manganese,Dissolved	0.000926	B J	0.000250	0.00500	1	05/10/2017 17:05	WG978287
Potassium	U		0.0370	1.00	1	05/03/2017 17:16	WG975080
Selenium	U		0.000380	0.00200	1	05/03/2017 17:16	WG975080
Selenium,Dissolved	U		0.000380	0.00200	1	05/10/2017 17:05	WG978287
Sodium	0.591	J	0.110	1.00	1	05/03/2017 17:16	WG975080

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
TPH (GC/FID) Low Fraction	U		0.0314	0.100	1	04/29/2017 03:21	WG974980
(S) a,a,a-Trifluorotoluene(FID)	*99.3*			*77.0-122*		*04/29/2017 03:21*	WG974980

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		0.0100	0.0500	1	05/02/2017 03:24	WG975485
Benzene	U		0.000331	0.00100	1	05/02/2017 03:24	WG975485
Bromodichloromethane	U		0.000380	0.00100	1	05/02/2017 03:24	WG975485
Bromoform	U		0.000469	0.00100	1	05/02/2017 03:24	WG975485
Bromomethane	U		0.000866	0.00500	1	05/02/2017 03:24	WG975485
n-Butylbenzene	U		0.000361	0.00100	1	05/02/2017 03:24	WG975485
sec-Butylbenzene	U		0.000365	0.00100	1	05/02/2017 03:24	WG975485
Carbon disulfide	U		0.000275	0.00100	1	05/02/2017 03:24	WG975485
Carbon tetrachloride	U		0.000379	0.00100	1	05/02/2017 03:24	WG975485

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chlorobenzene	U		0.000348	0.00100	1	05/02/2017 03:24	WG975485
Chlorodibromomethane	U		0.000327	0.00100	1	05/02/2017 03:24	WG975485
Chloroethane	U		0.000453	0.00500	1	05/02/2017 03:24	WG975485
Chloroform	U		0.000324	0.00500	1	05/02/2017 03:24	WG975485
Chloromethane	U	J4	0.000276	0.00250	1	05/02/2017 03:24	WG975485
1,2-Dibromoethane	U		0.000381	0.00100	1	05/02/2017 03:24	WG975485
1,1-Dichloroethane	U		0.000259	0.00100	1	05/02/2017 03:24	WG975485
1,2-Dichloroethane	U		0.000361	0.00100	1	05/02/2017 03:24	WG975485
1,1-Dichloroethene	U		0.000398	0.00100	1	05/02/2017 03:24	WG975485
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	05/02/2017 03:24	WG975485
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	05/02/2017 03:24	WG975485
1,2-Dichloropropane	U		0.000306	0.00100	1	05/02/2017 03:24	WG975485
cis-1,3-Dichloropropene	U	J4	0.000418	0.00100	1	05/02/2017 03:24	WG975485
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	05/02/2017 03:24	WG975485
Ethylbenzene	U		0.000384	0.00100	1	05/02/2017 03:24	WG975485
Isopropylbenzene	U		0.000326	0.00100	1	05/02/2017 03:24	WG975485
p-Isopropyltoluene	U		0.000350	0.00100	1	05/02/2017 03:24	WG975485
2-Butanone (MEK)	U		0.00393	0.0100	1	05/02/2017 03:24	WG975485
2-Hexanone	U	J3 J4	0.00382	0.0100	1	05/02/2017 03:24	WG975485
Methylene Chloride	U		0.00100	0.00500	1	05/02/2017 03:24	WG975485
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	05/02/2017 03:24	WG975485
Methyl tert-butyl ether	U		0.000367	0.00100	1	05/02/2017 03:24	WG975485
Naphthalene	U	J4	0.00100	0.00500	1	05/02/2017 03:24	WG975485
n-Propylbenzene	U		0.000349	0.00100	1	05/02/2017 03:24	WG975485
Styrene	U		0.000307	0.00100	1	05/02/2017 03:24	WG975485
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	05/02/2017 03:24	WG975485
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	05/02/2017 03:24	WG975485
Tetrachloroethene	U		0.000372	0.00100	1	05/02/2017 03:24	WG975485
Toluene	0.000496	J	0.000412	0.00100	1	05/02/2017 03:24	WG975485
1,1,1-Trichloroethane	U		0.000319	0.00100	1	05/02/2017 03:24	WG975485
1,1,2-Trichloroethane	U	J4	0.000383	0.00100	1	05/02/2017 03:24	WG975485
Trichloroethene	U		0.000398	0.00100	1	05/02/2017 03:24	WG975485
1,2,4-Trimethylbenzene	U		0.000373	0.00100	1	05/02/2017 03:24	WG975485
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	05/02/2017 03:24	WG975485
Vinyl chloride	U		0.000259	0.00100	1	05/02/2017 03:24	WG975485
o-Xylene	U		0.000341	0.00100	1	05/02/2017 03:24	WG975485
m&p-Xylene	U		0.000719	0.00200	1	05/02/2017 03:24	WG975485
Xylenes, Total	U		0.00106	0.00300	1	05/02/2017 03:24	WG975485
(S) Toluene-d8	*104*			*80.0-120*		*05/02/2017 03:24*	WG975485
(S) Dibromofluoromethane	*105*			*76.0-123*		*05/02/2017 03:24*	WG975485
(S) 4-Bromofluorobenzene	*94.7*			*80.0-120*		*05/02/2017 03:24*	WG975485

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	05/05/2017 12:01	WG975280
(S) o-Terphenyl	*62.4*			*31.0-160*		*05/05/2017 12:01*	WG975280

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		0.0100	0.0500	1	05/01/2017 22:04	WG975485
Benzene	U		0.000331	0.00100	1	05/01/2017 22:04	WG975485
Bromodichloromethane	U		0.000380	0.00100	1	05/01/2017 22:04	WG975485
Bromoform	U		0.000469	0.00100	1	05/01/2017 22:04	WG975485
Bromomethane	U		0.000866	0.00500	1	05/01/2017 22:04	WG975485
n-Butylbenzene	U		0.000361	0.00100	1	05/01/2017 22:04	WG975485
sec-Butylbenzene	U		0.000365	0.00100	1	05/01/2017 22:04	WG975485
Carbon disulfide	U		0.000275	0.00100	1	05/01/2017 22:04	WG975485
Carbon tetrachloride	U		0.000379	0.00100	1	05/01/2017 22:04	WG975485
Chlorobenzene	U		0.000348	0.00100	1	05/01/2017 22:04	WG975485
Chlorodibromomethane	U		0.000327	0.00100	1	05/01/2017 22:04	WG975485
Chloroethane	U		0.000453	0.00500	1	05/01/2017 22:04	WG975485
Chloroform	U		0.000324	0.00500	1	05/01/2017 22:04	WG975485
Chloromethane	U	J4	0.000276	0.00250	1	05/01/2017 22:04	WG975485
1,2-Dibromoethane	U		0.000381	0.00100	1	05/01/2017 22:04	WG975485
1,1-Dichloroethane	U		0.000259	0.00100	1	05/01/2017 22:04	WG975485
1,2-Dichloroethane	U		0.000361	0.00100	1	05/01/2017 22:04	WG975485
1,1-Dichloroethene	U		0.000398	0.00100	1	05/01/2017 22:04	WG975485
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	05/01/2017 22:04	WG975485
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	05/01/2017 22:04	WG975485
1,2-Dichloropropane	U		0.000306	0.00100	1	05/01/2017 22:04	WG975485
cis-1,3-Dichloropropene	U	J4	0.000418	0.00100	1	05/01/2017 22:04	WG975485
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	05/01/2017 22:04	WG975485
Ethylbenzene	U		0.000384	0.00100	1	05/01/2017 22:04	WG975485
Isopropylbenzene	U		0.000326	0.00100	1	05/01/2017 22:04	WG975485
p-Isopropyltoluene	U		0.000350	0.00100	1	05/01/2017 22:04	WG975485
2-Butanone (MEK)	U		0.00393	0.0100	1	05/01/2017 22:04	WG975485
2-Hexanone	U	J3 J4	0.00382	0.0100	1	05/01/2017 22:04	WG975485
Methylene Chloride	U		0.00100	0.00500	1	05/01/2017 22:04	WG975485
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	05/01/2017 22:04	WG975485
Methyl tert-butyl ether	U		0.000367	0.00100	1	05/01/2017 22:04	WG975485
Naphthalene	U	J4	0.00100	0.00500	1	05/01/2017 22:04	WG975485
n-Propylbenzene	U		0.000349	0.00100	1	05/01/2017 22:04	WG975485
Styrene	U		0.000307	0.00100	1	05/01/2017 22:04	WG975485
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	05/01/2017 22:04	WG975485
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	05/01/2017 22:04	WG975485
Tetrachloroethene	U		0.000372	0.00100	1	05/01/2017 22:04	WG975485
Toluene	U		0.000412	0.00100	1	05/01/2017 22:04	WG975485
1,1,1-Trichloroethane	U		0.000319	0.00100	1	05/01/2017 22:04	WG975485
1,1,2-Trichloroethane	U	J4	0.000383	0.00100	1	05/01/2017 22:04	WG975485
Trichloroethene	U		0.000398	0.00100	1	05/01/2017 22:04	WG975485
1,2,4-Trimethylbenzene	U		0.000373	0.00100	1	05/01/2017 22:04	WG975485
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	05/01/2017 22:04	WG975485
Vinyl chloride	U		0.000259	0.00100	1	05/01/2017 22:04	WG975485
o-Xylene	U		0.000341	0.00100	1	05/01/2017 22:04	WG975485
m&p-Xylene	U		0.000719	0.00200	1	05/01/2017 22:04	WG975485
Xylenes, Total	U		0.00106	0.00300	1	05/01/2017 22:04	WG975485
(S) Toluene-d8	*103*			*80.0-120*		*05/01/2017 22:04*	WG975485
(S) Dibromofluoromethane	*103*			*76.0-123*		*05/01/2017 22:04*	WG975485
(S) 4-Bromofluorobenzene	*96.6*			*80.0-120*		*05/01/2017 22:04*	WG975485

Method Blank (MB)

(MB) R3215024-1 04/30/17 11:17

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	mg/l		mg/l	mg/l
Dissolved Solids	U		2.82	10.0

L905562-03 Original Sample (OS) • Duplicate (DUP)

(OS) L905562-03 04/30/17 11:17 • (DUP) R3215024-4 04/30/17 11:17

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	mg/l	mg/l		%		%
Dissolved Solids	4290	4470	1	4.23		5

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

(LCS) R3215024-2 04/30/17 11:17 • (LCSD) R3215024-3 04/30/17 11:17

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	mg/l	mg/l	mg/l	%	%	%			%	%
Dissolved Solids	8800	8610	8630	97.8	98.1	85.0-115			0.232	5

Method Blank (MB)

(MB) R3214776-1 04/29/17 14:25

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	mg/l		mg/l	mg/l
Dissolved Solids	U		2.82	10.0

L905562-13 Original Sample (OS) • Duplicate (DUP)

(OS) L905562-13 04/29/17 14:25 • (DUP) R3214776-4 04/29/17 14:25

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	mg/l	mg/l		%		%
Dissolved Solids	8460	8440	1	0.237		5

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

(LCS) R3214776-2 04/29/17 14:25 • (LCSD) R3214776-3 04/29/17 14:25

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	mg/l	mg/l	mg/l	%	%	%			%	%
Dissolved Solids	8800	8700	8750	98.9	99.4	85.0-115			0.573	5

Method Blank (MB)

(MB) R3214781-1 04/29/17 14:56

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Dissolved Solids	U		2.82	10.0

L905562-23 Original Sample (OS) • Duplicate (DUP)

(OS) L905562-23 04/29/17 14:56 • (DUP) R3214781-4 04/29/17 14:56

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Dissolved Solids	3690	3680	1	0.271		5

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

(LCS) R3214781-2 04/29/17 14:56 • (LCSD) R3214781-3 04/29/17 14:56

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 %
Dissolved Solids	8800	8740	8690	99.3	98.8	85.0-115			0.574	5

Method Blank (MB)

(MB) R3215295-1 05/01/17 17:17

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	mg/l		mg/l	mg/l
Dissolved Solids	U		2.82	10.0

L905562-25 Original Sample (OS) • Duplicate (DUP)

(OS) L905562-25 05/01/17 17:17 • (DUP) R3215295-4 05/01/17 17:17

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	mg/l	mg/l		%		%
Dissolved Solids	2640	2690	1	1.88		5

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

(LCS) R3215295-2 05/01/17 17:17 • (LCSD) R3215295-3 05/01/17 17:17

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	mg/l	mg/l	mg/l	%	%	%			%	%
Dissolved Solids	8800	8450	8610	96.0	97.8	85.0-115			1.88	5

Method Blank (MB)

(MB) R3215801-1 05/02/17 11:45

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Dissolved Solids	U		2.82	10.0

L905562-33 Original Sample (OS) • Duplicate (DUP)

(OS) L905562-33 05/02/17 11:45 • (DUP) R3215801-4 05/02/17 11:45

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Dissolved Solids	4210	4050	1	3.87		5

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

(LCS) R3215801-2 05/02/17 11:45 • (LCSD) R3215801-3 05/02/17 11:45

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 %
Dissolved Solids	8800	8380	8470	95.2	96.3	85.0-115			1.07	5

Method Blank (MB)

(MB) R3215034-1 05/02/17 13:10

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	mg/l		mg/l	mg/l
Nitrate-Nitrite	U		0.0197	0.100

L905491-02 Original Sample (OS) • Duplicate (DUP)

(OS) L905491-02 05/02/17 13:17 • (DUP) R3215034-6 05/02/17 13:18

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	mg/l	mg/l		%		%
Nitrate-Nitrite	0.127	0.0930	1	31	P1	20

L905491-04 Original Sample (OS) • Duplicate (DUP)

(OS) L905491-04 05/02/17 13:25 • (DUP) R3215034-8 05/02/17 13:26

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	mg/l	mg/l		%		%
Nitrate-Nitrite	0.190	0.155	1	20		20

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

(LCS) R3215034-2 05/02/17 13:11 • (LCSD) R3215034-3 05/02/17 13:12

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	mg/l	mg/l	mg/l	%	%	%			%	%
Nitrate-Nitrite	5.00	5.17	5.09	103	102	90-110			1	20

L905491-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L905491-01 05/02/17 13:13 • (MS) R3215034-4 05/02/17 13:14 • (MSD) R3215034-5 05/02/17 13:16

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
	mg/l	mg/l	mg/l	mg/l	%	%		%			%	%
Nitrate-Nitrite	5.00	ND	4.84	4.99	96	99	1	90-110			3	20

L905491-03 Original Sample (OS) • Matrix Spike (MS)

(OS) L905491-03 05/02/17 13:23 • (MS) R3215034-7 05/02/17 13:24

Analyte	Spike Amount	Original Result	MS Result	MS Rec.	Dilution	Rec. Limits	MS Qualifier
	mg/l	mg/l	mg/l	%		%	
Nitrate-Nitrite	5.00	0.269	4.97	94	1	90-110	

Method Blank (MB)

(MB) R3215037-1 05/02/17 14:59

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	mg/l		mg/l	mg/l
Nitrate-Nitrite	U		0.0197	0.100

L905562-21 Original Sample (OS) • Duplicate (DUP)

(OS) L905562-21 05/02/17 15:06 • (DUP) R3215037-4 05/02/17 15:11

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	mg/l	mg/l		%		%
Nitrate-Nitrite	0.0540	0.0390	1	32	J P1	20

L905562-29 Original Sample (OS) • Duplicate (DUP)

(OS) L905562-29 05/02/17 15:25 • (DUP) R3215037-6 05/02/17 15:26

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	mg/l	mg/l		%		%
Nitrate-Nitrite	0.0390	0.0230	1	52	J P1	20

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

(LCS) R3215037-2 05/02/17 15:00 • (LCSD) R3215037-3 05/02/17 15:01

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	mg/l	mg/l	mg/l	%	%	%			%	%
Nitrate-Nitrite	5.00	5.06	5.02	101	100	90-110			1	20

L905562-23 Original Sample (OS) • Matrix Spike (MS)

(OS) L905562-23 05/02/17 15:13 • (MS) R3215037-5 05/02/17 15:14

Analyte	Spike Amount	Original Result	MS Result	MS Rec.	Dilution	Rec. Limits	MS Qualifier
	mg/l	mg/l	mg/l	%		%	
Nitrate-Nitrite	5.00	U	4.78	96	1	90-110	

L905562-35 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L905562-35 05/02/17 15:36 • (MS) R3215037-7 05/02/17 15:38 • (MSD) R3215037-8 05/02/17 15:39

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
	mg/l	mg/l	mg/l	mg/l	%	%		%			%	%
Nitrate-Nitrite	5.00	U	4.88	4.91	98	98	1	90-110			1	20

Method Blank (MB)

(MB) R3214772-1 05/01/17 05:43

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Chloride	U		0.0519	1.00
Fluoride	U		0.0099	0.100
Sulfate	U		0.0774	5.00

L905443-02 Original Sample (OS) • Duplicate (DUP)

(OS) L905443-02 05/01/17 10:38 • (DUP) R3214772-5 05/01/17 10:50

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	10.0	9.83	1	2		15
Fluoride	0.308	0.302	1	2		15
Sulfate	19.2	19.2	1	0		15

L905443-06 Original Sample (OS) • Duplicate (DUP)

(OS) L905443-06 05/01/17 12:47 • (DUP) R3214772-8 05/01/17 12:58

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	3.46	3.45	1	0		15
Fluoride	0.209	0.208	1	0		15
Sulfate	6.56	6.52	1	1		15

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

(LCS) R3214772-2 05/01/17 05:55 • (LCSD) R3214772-3 05/01/17 06:07

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 %
Chloride	40.0	39.4	39.5	99	99	80-120			0	15
Fluoride	8.00	7.94	7.93	99	99	80-120			0	15
Sulfate	40.0	38.4	38.3	96	96	80-120			0	15

L905003-01 Original Sample (OS) • Matrix Spike (MS)

(OS) L905003-01 05/01/17 09:17 • (MS) R3214772-4 05/01/17 09:28

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Chloride	50.0	8.42	59.3	102	1	80-120	
Fluoride	5.00	0.591	5.43	97	1	80-120	

L905003-01 Original Sample (OS) • Matrix Spike (MS)

(OS) L905003-01 05/01/17 09:17 • (MS) R3214772-4 05/01/17 09:28

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Sulfate	50.0	22.8	71.0	96	1	80-120	

L905443-07 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L905443-07 05/01/17 11:48 • (MS) R3214772-6 05/01/17 12:00 • (MSD) R3214772-7 05/01/17 12:12

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Chloride	50.0	1.98	52.2	52.7	101	102	1	80-120			1	15
Fluoride	5.00	ND	5.14	4.92	101	96	1	80-120			4	15
Sulfate	50.0	17.3	66.3	66.4	98	98	1	80-120			0	15

Method Blank (MB)

(MB) R3214888-1 05/01/17 12:42

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Chloride	U		0.0519	1.00
Fluoride	U		0.0099	0.100
Sulfate	U		0.0774	5.00

L905562-08 Original Sample (OS) • Duplicate (DUP)

(OS) L905562-08 05/01/17 16:54 • (DUP) R3214888-5 05/01/17 17:10

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Fluoride	0.632	0.642	1	2		15

L905562-08 Original Sample (OS) • Duplicate (DUP)

(OS) L905562-08 05/01/17 17:56 • (DUP) R3214888-6 05/01/17 18:12

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	2090	2050	100	2		15
Sulfate	2530	2460	100	3		15

L905562-18 Original Sample (OS) • Duplicate (DUP)

(OS) L905562-18 05/01/17 23:04 • (DUP) R3214888-7 05/01/17 23:20

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Fluoride	3.59	3.57	1	0		15

L905562-18 Original Sample (OS) • Duplicate (DUP)

(OS) L905562-18 05/02/17 00:21 • (DUP) R3214888-8 05/02/17 00:37

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	2530	2540	100	1		15
Sulfate	2640	2700	100	2		15

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

(LCS) R3214888-2 05/01/17 12:58 • (LCSD) R3214888-3 05/01/17 13:13

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Chloride	40.0	39.4	39.4	99	99	80-120			0	15
Fluoride	8.00	7.98	7.96	100	99	80-120			0	15
Sulfate	40.0	40.0	40.0	100	100	80-120			0	15

L905562-06 Original Sample (OS) • Matrix Spike (MS)

(OS) L905562-06 05/01/17 14:50 • (MS) R3214888-4 05/01/17 15:06

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Fluoride	5.00	1.94	6.33	88	1	80-120	

L905562-21 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L905562-21 05/02/17 01:54 • (MS) R3214888-9 05/02/17 02:09 • (MSD) R3214888-10 05/02/17 02:25

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 %
Fluoride	5.00	1.22	5.94	5.92	94	94	1	80-120			0	15

Method Blank (MB)

(MB) R3214715-1 04/30/17 20:23

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Chloride	U		0.0519	1.00
Fluoride	U		0.0099	0.100
Sulfate	U		0.0774	5.00

L905562-35 Original Sample (OS) • Duplicate (DUP)

(OS) L905562-35 05/01/17 04:14 • (DUP) R3214715-5 05/01/17 04:30

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	0.359	0.288	1	22	J P1	15
Fluoride	U	0.000	1	0		15
Sulfate	0.143	0.000	1	200	P1	15

L905602-10 Original Sample (OS) • Duplicate (DUP)

(OS) L905602-10 05/01/17 11:41 • (DUP) R3214715-8 05/01/17 11:57

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Fluoride	3.97	3.99	1	0		15

L905602-10 Original Sample (OS) • Duplicate (DUP)

(OS) L905602-10 05/01/17 12:12 • (DUP) R3214715-9 05/01/17 12:28

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	394	371	50	6		15
Sulfate	2170	2230	50	3		15

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

(LCS) R3214715-2 04/30/17 20:38 • (LCSD) R3214715-3 04/30/17 20:53

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 %
Chloride	40.0	39.5	39.5	99	99	80-120			0	15
Fluoride	8.00	7.93	7.92	99	99	80-120			0	15
Sulfate	40.0	39.7	39.7	99	99	80-120			0	15

L905562-25 Original Sample (OS) • Matrix Spike (MS)

(OS) L905562-25 04/30/17 22:36 • (MS) R3214715-4 04/30/17 22:51

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Fluoride	5.00	1.58	6.42	97	1	80-120	

L905562-35 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L905562-35 05/01/17 04:14 • (MS) R3214715-6 05/01/17 04:45 • (MSD) R3214715-7 05/01/17 05:01

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 %
Chloride	50.0	0.359	51.6	51.3	102	102	1	80-120			1	15
Fluoride	5.00	U	5.24	5.19	105	104	1	80-120			1	15
Sulfate	50.0	0.143	51.8	51.5	103	103	1	80-120			0	15

Method Blank (MB)

(MB) R3215504-1 05/03/17 12:01

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	mg/l		mg/l	mg/l
Chloride	U		0.0519	1.00

L905668-36 Original Sample (OS) • Duplicate (DUP)

(OS) L905668-36 05/03/17 17:10 • (DUP) R3215504-7 05/03/17 17:49

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	mg/l	mg/l		%		%
Chloride	328	323	50	2		15

L905668-44 Original Sample (OS) • Duplicate (DUP)

(OS) L905668-44 05/04/17 00:46 • (DUP) R3215504-10 05/04/17 01:16

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	mg/l	mg/l		%		%
Chloride	398	387	50	3		15

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

(LCS) R3215504-2 05/03/17 12:17 • (LCSD) R3215504-3 05/03/17 12:32

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	mg/l	mg/l	mg/l	%	%	%			%	%
Chloride	40.0	38.8	40.3	97	101	80-120			4	15

L905345-06 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L905345-06 05/03/17 13:49 • (MS) R3215504-4 05/03/17 14:05 • (MSD) R3215504-5 05/03/17 14:20

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
	mg/l	mg/l	mg/l	mg/l	%	%		%			%	%
Chloride	50.0	56.4	106	106	99	99	1	80-120	E	E	0	15

Method Blank (MB)

(MB) R3215417-1 05/03/17 20:41

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Arsenic,Dissolved	U		0.00025	0.00200
Barium,Dissolved	U		0.00036	0.00500
Chromium,Dissolved	U		0.00054	0.00200
Iron,Dissolved	U		0.015	0.100
Lead,Dissolved	U		0.00024	0.00200
Manganese,Dissolved	U		0.00025	0.00500
Selenium,Dissolved	U		0.00038	0.00200

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

(LCS) R3215417-2 05/03/17 20:44 • (LCSD) R3215417-3 05/03/17 20:48

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 %
Arsenic,Dissolved	0.0500	0.0474	0.0478	95	96	80-120			1	20
Barium,Dissolved	0.0500	0.0482	0.0473	96	95	80-120			2	20
Chromium,Dissolved	0.0500	0.0472	0.0483	94	97	80-120			2	20
Iron,Dissolved	5.00	4.74	4.75	95	95	80-120			0	20
Lead,Dissolved	0.0500	0.0485	0.0473	97	95	80-120			3	20
Manganese,Dissolved	0.0500	0.0461	0.0470	92	94	80-120			2	20
Selenium,Dissolved	0.0500	0.0475	0.0456	95	91	80-120			4	20

L905562-07 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L905562-07 05/03/17 20:51 • (MS) R3215417-5 05/03/17 20:58 • (MSD) R3215417-6 05/03/17 21:02

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 %
Arsenic,Dissolved	0.0500	0.00761	0.0552	0.0541	95	93	1	75-125			2	20
Barium,Dissolved	0.0500	0.0104	0.0592	0.0570	98	93	1	75-125			4	20
Chromium,Dissolved	0.0500	U	0.0472	0.0459	94	92	1	75-125			3	20
Iron,Dissolved	5.00	U	4.70	4.66	94	93	1	75-125			1	20
Lead,Dissolved	0.0500	U	0.0489	0.0487	98	97	1	75-125			0	20
Manganese,Dissolved	0.0500	0.901	0.931	0.926	60	49	1	75-125	V	V	1	20
Selenium,Dissolved	0.0500	0.000412	0.0516	0.0506	102	100	1	75-125			2	20

Method Blank (MB)

(MB) R3215155-1 05/03/17 02:28

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Arsenic	U		0.00025	0.00200
Barium	0.000372	J	0.00036	0.00500
Calcium	U		0.046	1.00
Iron	U		0.015	0.100
Lead	U		0.00024	0.00200
Manganese	U		0.00025	0.00500
Potassium	U		0.037	1.00
Selenium	U		0.00038	0.00200
Sodium	U		0.11	1.00

Method Blank (MB)

(MB) R3215355-1 05/03/17 15:03

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Chromium	U		0.00054	0.00200

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

(LCS) R3215155-2 05/03/17 02:32 • (LCSD) R3215155-3 05/03/17 02:36

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 %
Arsenic	0.0500	0.0492	0.0485	98	97	80-120			2	20
Barium	0.0500	0.0515	0.0510	103	102	80-120			1	20
Calcium	5.00	4.92	4.81	98	96	80-120			2	20
Iron	5.00	4.81	4.76	96	95	80-120			1	20
Lead	0.0500	0.0512	0.0504	102	101	80-120			1	20
Manganese	0.0500	0.0480	0.0471	96	94	80-120			2	20
Potassium	5.00	4.99	4.90	100	98	80-120			2	20
Selenium	0.0500	0.0463	0.0458	93	92	80-120			1	20
Sodium	5.00	5.16	5.03	103	101	80-120			2	20

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

(LCS) R3215355-2 05/03/17 15:07 • (LCSD) R3215355-3 05/03/17 15:11

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Chromium	0.0500	0.0502	0.0483	100	97	80-120			4	20

L905562-19 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L905562-19 05/03/17 02:39 • (MS) R3215155-5 05/03/17 02:46 • (MSD) R3215155-6 05/03/17 02:50

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Arsenic	0.0500	0.00521	0.0531	0.0541	96	98	1	75-125			2	20
Barium	0.0500	0.0166	0.0662	0.0677	99	102	1	75-125			2	20
Calcium	5.00	527	527	517	0	0	1	75-125	V	V	2	20
Potassium	5.00	7.58	12.3	12.2	94	92	1	75-125			1	20
Iron	5.00	0.150	4.57	4.66	88	90	1	75-125			2	20
Lead	0.0500	U	0.0503	0.0523	101	105	1	75-125			4	20
Manganese	0.0500	1.11	1.15	1.14	67	45	1	75-125	V	V	1	20
Selenium	0.0500	0.000569	0.0495	0.0501	98	99	1	75-125			1	20

L905562-19 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L905562-19 05/03/17 15:15 • (MS) R3215355-5 05/03/17 15:22 • (MSD) R3215355-6 05/03/17 15:25

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 %
Chromium	0.0500	U	0.0451	0.0449	90	90	1	75-125			0	20
Sodium	5.00	987	1010	1010	382	411	1	75-125	E V	E V	0	20

Method Blank (MB)

(MB) R3215401-7 05/03/17 14:08

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Arsenic	U		0.00025	0.00200
Barium	U		0.00036	0.00500
Calcium	U		0.046	1.00
Chromium	U		0.00054	0.00200
Iron	0.0648	J	0.015	0.100
Lead	U		0.00024	0.00200
Manganese	U		0.00025	0.00500
Potassium	U		0.037	1.00
Selenium	U		0.00038	0.00200
Sodium	U		0.11	1.00

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

(LCS) R3215401-8 05/03/17 14:12 • (LCSD) R3215401-9 05/03/17 14:15

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 %
Arsenic	0.0500	0.0487	0.0484	97	97	80-120			1	20
Barium	0.0500	0.0479	0.0479	96	96	80-120			0	20
Calcium	5.00	5.03	5.00	101	100	80-120			1	20
Chromium	0.0500	0.0497	0.0487	99	97	80-120			2	20
Iron	5.00	4.98	4.92	100	98	80-120			1	20
Lead	0.0500	0.0493	0.0489	99	98	80-120			1	20
Manganese	0.0500	0.0488	0.0481	98	96	80-120			1	20
Potassium	5.00	5.10	4.96	102	99	80-120			3	20
Selenium	0.0500	0.0507	0.0492	101	98	80-120			3	20
Sodium	5.00	5.04	4.97	101	99	80-120			1	20

L905562-21 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L905562-21 05/03/17 14:19 • (MS) R3215401-11 05/03/17 14:26 • (MSD) R3215401-12 05/03/17 14:30

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	0.0231	0.0704	0.0686	95	91	1	75-125			3	20
Barium	0.0500	0.0213	0.0701	0.0703	98	98	1	75-125			0	20
Calcium	5.00	514	495	509	0	0	1	75-125	V	V	3	20
Chromium	0.0500	U	0.0476	0.0473	95	95	1	75-125			1	20
Potassium	5.00	3.72	8.13	8.41	88	94	1	75-125			3	20
Iron	5.00	0.0684	4.74	4.76	93	94	1	75-125			0	20
Lead	0.0500	U	0.0476	0.0483	95	97	1	75-125			1	20

L905562-21 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L905562-21 05/03/17 14:19 • (MS) R3215401-11 05/03/17 14:26 • (MSD) R3215401-12 05/03/17 14:30

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 %
Manganese	0.0500	2.59	2.63	2.63	81	89	1	75-125			0	20
Selenium	0.0500	0.000395	0.0495	0.0507	98	101	1	75-125			2	20
Sodium	5.00	1140	1100	1120	0	0	1	75-125	E V	E V	2	20

Method Blank (MB)

(MB) R3217063-1 05/10/17 15:25

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Arsenic,Dissolved	U		0.00025	0.00200
Barium,Dissolved	U		0.00036	0.00500
Chromium,Dissolved	U		0.00054	0.00200
Iron,Dissolved	U		0.015	0.100
Lead,Dissolved	U		0.00024	0.00200
Manganese,Dissolved	0.000347	J	0.00025	0.00500
Selenium,Dissolved	U		0.00038	0.00200

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

(LCS) R3217063-2 05/10/17 15:29 • (LCSD) R3217063-3 05/10/17 15:33

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 %
Arsenic,Dissolved	0.0500	0.0485	0.0493	97	99	80-120			2	20
Barium,Dissolved	0.0500	0.0505	0.0500	101	100	80-120			1	20
Chromium,Dissolved	0.0500	0.0500	0.0498	100	100	80-120			0	20
Iron,Dissolved	5.00	4.95	4.98	99	100	80-120			1	20
Lead,Dissolved	0.0500	0.0498	0.0497	100	99	80-120			0	20
Manganese,Dissolved	0.0500	0.0502	0.0495	100	99	80-120			1	20
Selenium,Dissolved	0.0500	0.0529	0.0510	106	102	80-120			4	20

L906804-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L906804-01 05/10/17 15:36 • (MS) R3217063-5 05/10/17 15:43 • (MSD) R3217063-6 05/10/17 15:47

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 %
Arsenic,Dissolved	0.0500	U	0.0467	0.0473	93	95	1	75-125			1	20
Barium,Dissolved	0.0500	0.0145	0.0653	0.0650	102	101	1	75-125			1	20
Chromium,Dissolved	0.0500	U	0.0460	0.0463	92	93	1	75-125			1	20
Iron,Dissolved	5.00	U	4.68	4.67	94	93	1	75-125			0	20
Lead,Dissolved	0.0500	U	0.0485	0.0485	97	97	1	75-125			0	20
Manganese,Dissolved	0.0500	0.000320	0.0462	0.0466	92	93	1	75-125			1	20
Selenium,Dissolved	0.0500	0.00113	0.0527	0.0504	103	99	1	75-125			4	20

Method Blank (MB)

(MB) R3216154-3 04/29/17 01:19

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	mg/l		mg/l	mg/l
TPH (GC/FID) Low Fraction	U		0.0314	0.100
(S) a,a,a-Trifluorotoluene(FID)	*95.0*			*77.0-122*

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

(LCS) R3216154-1 04/29/17 00:12 • (LCSD) R3216154-2 04/29/17 00:35

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	mg/l	mg/l	mg/l	%	%	%			%	%
TPH (GC/FID) Low Fraction	5.50	5.08	4.75	92.3	86.3	71.0-136			6.71	20
(S) a,a,a-Trifluorotoluene(FID)				*104*	*104*	*77.0-122*				

L905562-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L905562-01 04/29/17 02:25 • (MS) R3216154-4 04/29/17 01:41 • (MSD) R3216154-5 04/29/17 02:03

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
	mg/l	mg/l	mg/l	mg/l	%	%		%			%	%
TPH (GC/FID) Low Fraction	5.50	1.02	2.70	2.73	30.6	31.1	1	18.0-160			1.06	20
(S) a,a,a-Trifluorotoluene(FID)					*97.0*	*97.6*		*77.0-122*				

Method Blank (MB)

(MB) R3215633-3 04/28/17 17:49

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	mg/l		mg/l	mg/l
TPH (GC/FID) Low Fraction	U		0.0314	0.100
(S) a,a,a-Trifluorotoluene(FID)	*99.0*			*77.0-122*

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

(LCS) R3215633-1 04/28/17 16:38 • (LCSD) R3215633-2 04/28/17 17:02

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	mg/l	mg/l	mg/l	%	%	%			%	%
TPH (GC/FID) Low Fraction	5.50	5.13	5.06	93.3	91.9	71.0-136			1.45	20
(S) a,a,a-Trifluorotoluene(FID)				*99.7*	*100*	*77.0-122*				

L905459-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L905459-01 04/28/17 19:45 • (MS) R3215633-4 04/28/17 18:33 • (MSD) R3215633-5 04/28/17 18:57

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
	mg/l	mg/l	mg/l	mg/l	%	%		%			%	%
TPH (GC/FID) Low Fraction	5.50	ND	2.48	2.54	45.2	46.2	1	18.0-160			2.21	20
(S) a,a,a-Trifluorotoluene(FID)					*99.0*	*98.5*		*77.0-122*				

Method Blank (MB)

(MB) R3216088-3 04/30/17 19:54

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Acetone	U		0.0100	0.0500
Benzene	U		0.000331	0.00100
Bromodichloromethane	U		0.000380	0.00100
Bromoform	U		0.000469	0.00100
Bromomethane	U		0.000866	0.00500
n-Butylbenzene	U		0.000361	0.00100
sec-Butylbenzene	U		0.000365	0.00100
Carbon disulfide	U		0.000275	0.00100
Carbon tetrachloride	U		0.000379	0.00100
Chlorobenzene	U		0.000348	0.00100
Chlorodibromomethane	U		0.000327	0.00100
Chloroethane	U		0.000453	0.00500
Chloroform	U		0.000324	0.00500
Chloromethane	U		0.000276	0.00250
1,2-Dibromoethane	U		0.000381	0.00100
1,1-Dichloroethane	U		0.000259	0.00100
1,2-Dichloroethane	U		0.000361	0.00100
1,1-Dichloroethene	U		0.000398	0.00100
cis-1,2-Dichloroethene	U		0.000260	0.00100
trans-1,2-Dichloroethene	U		0.000396	0.00100
1,2-Dichloropropane	U		0.000306	0.00100
cis-1,3-Dichloropropene	U		0.000418	0.00100
trans-1,3-Dichloropropene	U		0.000419	0.00100
Ethylbenzene	U		0.000384	0.00100
2-Hexanone	U		0.00382	0.0100
Isopropylbenzene	U		0.000326	0.00100
p-Isopropyltoluene	U		0.000350	0.00100
2-Butanone (MEK)	U		0.00393	0.0100
Methylene Chloride	U		0.00100	0.00500
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100
Methyl tert-butyl ether	U		0.000367	0.00100
Naphthalene	U		0.00100	0.00500
n-Propylbenzene	U		0.000349	0.00100
Styrene	U		0.000307	0.00100
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100
Tetrachloroethene	U		0.000372	0.00100
Toluene	U		0.000412	0.00100
1,1,1-Trichloroethane	U		0.000319	0.00100
1,1,2-Trichloroethane	U		0.000383	0.00100

Method Blank (MB)

(MB) R3216088-3 04/30/17 19:54

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Trichloroethene	U		0.000398	0.00100
1,2,4-Trimethylbenzene	U		0.000373	0.00100
1,3,5-Trimethylbenzene	U		0.000387	0.00100
Vinyl chloride	U		0.000259	0.00100
Xylenes, Total	U		0.00106	0.00300
o-Xylene	U		0.000341	0.00100
m&p-Xylenes	U		0.000719	0.00200
(S) Toluene-d8	*106*			*80.0-120*
(S) Dibromofluoromethane	*112*			*76.0-123*
(S) 4-Bromofluorobenzene	*93.0*			*80.0-120*

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

(LCS) R3216088-1 04/30/17 18:36 • (LCSD) R3216088-2 04/30/17 19:09

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Acetone	0.125	0.155	0.125	124	99.6	10.0-160			21.6	23
Benzene	0.0250	0.0243	0.0243	97.0	97.2	69.0-123			0.210	20
Bromodichloromethane	0.0250	0.0252	0.0243	101	97.0	76.0-120			3.80	20
Bromoform	0.0250	0.0250	0.0234	100	93.6	67.0-132			6.75	20
Bromomethane	0.0250	0.0311	0.0351	124	141	18.0-160			12.4	20
n-Butylbenzene	0.0250	0.0248	0.0232	99.2	92.9	72.0-126			6.56	20
sec-Butylbenzene	0.0250	0.0242	0.0228	96.7	91.4	74.0-121			5.68	20
Carbon disulfide	0.0250	0.0234	0.0240	93.7	96.1	55.0-127			2.50	20
Carbon tetrachloride	0.0250	0.0259	0.0256	103	102	63.0-122			1.02	20
Chlorobenzene	0.0250	0.0224	0.0211	89.4	84.5	79.0-121			5.65	20
Chlorodibromomethane	0.0250	0.0230	0.0216	91.8	86.4	75.0-125			6.08	20
Chloroethane	0.0250	0.0322	0.0330	129	132	47.0-152			2.41	20
Chloroform	0.0250	0.0240	0.0237	95.9	95.0	72.0-121			0.970	20
Chloromethane	0.0250	0.0262	0.0259	105	104	48.0-139			0.970	20
1,2-Dibromoethane	0.0250	0.0227	0.0217	90.9	87.0	77.0-123			4.38	20
1,1-Dichloroethane	0.0250	0.0244	0.0238	97.8	95.3	70.0-126			2.53	20
1,2-Dichloroethane	0.0250	0.0236	0.0227	94.4	90.9	67.0-126			3.79	20
1,1-Dichloroethene	0.0250	0.0233	0.0239	93.1	95.7	64.0-129			2.80	20
cis-1,2-Dichloroethene	0.0250	0.0237	0.0239	94.9	95.4	73.0-120			0.530	20
trans-1,2-Dichloroethene	0.0250	0.0277	0.0235	111	94.0	71.0-121			16.3	20
1,2-Dichloropropane	0.0250	0.0231	0.0228	92.6	91.3	75.0-125			1.36	20
cis-1,3-Dichloropropene	0.0250	0.0237	0.0227	94.9	90.6	79.0-123			4.63	20
trans-1,3-Dichloropropene	0.0250	0.0227	0.0216	90.7	86.6	74.0-127			4.66	20

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

(LCS) R3216088-1 04/30/17 18:36 • (LCSD) R3216088-2 04/30/17 19:09

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Ethylbenzene	0.0250	0.0221	0.0214	88.3	85.4	77.0-120			3.29	20
2-Hexanone	0.125	0.114	0.101	91.6	81.2	58.0-147			12.0	20
Isopropylbenzene	0.0250	0.0230	0.0220	92.0	88.0	75.0-120			4.39	20
p-Isopropyltoluene	0.0250	0.0241	0.0230	96.4	91.9	74.0-126			4.83	20
2-Butanone (MEK)	0.125	0.132	0.132	106	105	37.0-158			0.0900	20
Methylene Chloride	0.0250	0.0301	0.0274	121	110	66.0-121			9.34	20
4-Methyl-2-pentanone (MIBK)	0.125	0.123	0.117	98.0	93.3	59.0-143			4.90	20
Methyl tert-butyl ether	0.0250	0.0280	0.0231	112	92.5	64.0-123			18.9	20
Naphthalene	0.0250	0.0214	0.0203	85.6	81.2	62.0-128			5.26	20
n-Propylbenzene	0.0250	0.0235	0.0226	94.0	90.3	79.0-120			4.03	20
Styrene	0.0250	0.0213	0.0202	85.2	80.8	78.0-124			5.24	20
1,1,1,2-Tetrachloroethane	0.0250	0.0233	0.0222	93.0	88.8	75.0-122			4.62	20
1,1,2,2-Tetrachloroethane	0.0250	0.0242	0.0224	96.7	89.7	71.0-122			7.52	20
Tetrachloroethene	0.0250	0.0223	0.0217	89.3	86.7	70.0-127			2.98	20
Toluene	0.0250	0.0229	0.0225	91.6	89.8	77.0-120			1.94	20
1,1,1-Trichloroethane	0.0250	0.0250	0.0248	100	99.4	68.0-122			0.760	20
1,1,2-Trichloroethane	0.0250	0.0225	0.0209	90.2	83.8	78.0-120			7.39	20
Trichloroethene	0.0250	0.0238	0.0236	95.0	94.4	78.0-120			0.680	20
1,2,4-Trimethylbenzene	0.0250	0.0226	0.0214	90.4	85.6	75.0-120			5.46	20
1,3,5-Trimethylbenzene	0.0250	0.0232	0.0220	92.6	88.0	75.0-120			5.11	20
Vinyl chloride	0.0250	0.0285	0.0291	114	116	64.0-133			2.03	20
Xylenes, Total	0.0750	0.0669	0.0639	89.2	85.2	77.0-120			4.59	20
o-Xylene	0.0250	0.0223	0.0213	89.4	85.1	78.0-120			4.83	20
m&p-Xylenes	0.0500	0.0446	0.0426	89.3	85.3	77.0-120			4.57	20
(S) Toluene-d8				*104*	*104*	*80.0-120*				
(S) Dibromofluoromethane				*106*	*109*	*76.0-123*				
(S) 4-Bromofluorobenzene				*96.3*	*96.3*	*80.0-120*				

Method Blank (MB)

(MB) R3216097-3 05/01/17 21:47

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Acetone	U		0.0100	0.0500
Benzene	U		0.000331	0.00100
Bromodichloromethane	U		0.000380	0.00100
Bromoform	U		0.000469	0.00100
Bromomethane	U		0.000866	0.00500
n-Butylbenzene	U		0.000361	0.00100
sec-Butylbenzene	U		0.000365	0.00100
Carbon disulfide	U		0.000275	0.00100
Carbon tetrachloride	U		0.000379	0.00100
Chlorobenzene	U		0.000348	0.00100
Chlorodibromomethane	U		0.000327	0.00100
Chloroethane	U		0.000453	0.00500
Chloroform	U		0.000324	0.00500
Chloromethane	U		0.000276	0.00250
1,2-Dibromoethane	U		0.000381	0.00100
1,1-Dichloroethane	U		0.000259	0.00100
1,2-Dichloroethane	U		0.000361	0.00100
1,1-Dichloroethene	U		0.000398	0.00100
cis-1,2-Dichloroethene	U		0.000260	0.00100
trans-1,2-Dichloroethene	U		0.000396	0.00100
1,2-Dichloropropane	U		0.000306	0.00100
cis-1,3-Dichloropropene	U		0.000418	0.00100
trans-1,3-Dichloropropene	U		0.000419	0.00100
Ethylbenzene	U		0.000384	0.00100
2-Hexanone	U		0.00382	0.0100
Isopropylbenzene	U		0.000326	0.00100
p-Isopropyltoluene	U		0.000350	0.00100
2-Butanone (MEK)	U		0.00393	0.0100
Methylene Chloride	U		0.00100	0.00500
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100
Methyl tert-butyl ether	U		0.000367	0.00100
Naphthalene	U		0.00100	0.00500
n-Propylbenzene	U		0.000349	0.00100
Tetrachloroethene	U		0.000372	0.00100
Styrene	U		0.000307	0.00100
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100
Toluene	U		0.000412	0.00100
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100
1,1,1-Trichloroethane	U		0.000319	0.00100
Trichloroethene	U		0.000398	0.00100

Method Blank (MB)

(MB) R3216097-3 05/01/17 21:47

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	mg/l		mg/l	mg/l
1,1,2-Trichloroethane	U		0.000383	0.00100
1,2,4-Trimethylbenzene	U		0.000373	0.00100
1,3,5-Trimethylbenzene	U		0.000387	0.00100
Vinyl chloride	U		0.000259	0.00100
Xylenes, Total	U		0.00106	0.00300
o-Xylene	U		0.000341	0.00100
m&p-Xylenes	U		0.000719	0.00200
(S) Toluene-d8	*103*			*80.0-120*
(S) Dibromofluoromethane	*102*			*76.0-123*
(S) 4-Bromofluorobenzene	*98.0*			*80.0-120*

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

(LCS) R3216097-1 05/01/17 20:43 • (LCSD) R3216097-2 05/01/17 21:14

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	mg/l	mg/l	mg/l	%	%	%			%	%
Acetone	0.125	0.102	0.107	81.5	85.3	10.0-160			4.61	23
Benzene	0.0250	0.0229	0.0204	91.4	81.5	69.0-123			11.5	20
Bromodichloromethane	0.0250	0.0238	0.0210	95.1	84.2	76.0-120			12.2	20
Bromoform	0.0250	0.0211	0.0190	84.3	76.1	67.0-132			10.3	20
Bromomethane	0.0250	0.0213	0.0222	85.2	89.0	18.0-160			4.29	20
n-Butylbenzene	0.0250	0.0215	0.0197	85.8	78.8	72.0-126			8.54	20
sec-Butylbenzene	0.0250	0.0220	0.0202	87.9	81.0	74.0-121			8.20	20
Carbon disulfide	0.0250	0.0256	0.0224	103	89.8	55.0-127			13.3	20
Carbon tetrachloride	0.0250	0.0193	0.0190	77.2	76.1	63.0-122			1.53	20
Chlorobenzene	0.0250	0.0231	0.0214	92.4	85.6	79.0-121			7.72	20
Chlorodibromomethane	0.0250	0.0209	0.0196	83.6	78.4	75.0-125			6.39	20
Chloroethane	0.0250	0.0204	0.0196	81.6	78.3	47.0-152			4.09	20
Chloroform	0.0250	0.0242	0.0217	96.6	86.7	72.0-121			10.9	20
Chloromethane	0.0250	0.0353	0.0304	141	122	48.0-139	J4		15.0	20
1,2-Dibromoethane	0.0250	0.0222	0.0196	88.8	78.6	77.0-123			12.2	20
1,1-Dichloroethane	0.0250	0.0233	0.0204	93.4	81.6	70.0-126			13.4	20
1,2-Dichloroethane	0.0250	0.0246	0.0218	98.3	87.1	67.0-126			12.1	20
1,1-Dichloroethene	0.0250	0.0255	0.0209	102	83.8	64.0-129			19.5	20
cis-1,2-Dichloroethene	0.0250	0.0235	0.0199	94.1	79.5	73.0-120			16.8	20
trans-1,2-Dichloroethene	0.0250	0.0229	0.0207	91.6	82.8	71.0-121			10.1	20
1,2-Dichloropropane	0.0250	0.0233	0.0207	93.1	82.7	75.0-125			11.8	20
cis-1,3-Dichloropropene	0.0250	0.0218	0.0194	87.1	77.7	79.0-123		J4	11.5	20
trans-1,3-Dichloropropene	0.0250	0.0213	0.0190	85.4	76.0	74.0-127			11.6	20

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

(LCS) R3216097-1 05/01/17 20:43 • (LCSD) R3216097-2 05/01/17 21:14

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 %
Ethylbenzene	0.0250	0.0234	0.0208	93.6	83.1	77.0-120			11.9	20
2-Hexanone	0.125	0.0982	ND	78.6	0.000	58.0-147		J3 J4	200	20
Isopropylbenzene	0.0250	0.0233	0.0214	93.1	85.5	75.0-120			8.54	20
p-Isopropyltoluene	0.0250	0.0217	0.0204	86.9	81.4	74.0-126			6.43	20
2-Butanone (MEK)	0.125	0.0801	0.0720	64.1	57.6	37.0-158			10.7	20
Methylene Chloride	0.0250	0.0224	0.0201	89.8	80.2	66.0-121			11.2	20
4-Methyl-2-pentanone (MIBK)	0.125	0.107	0.0880	85.6	70.4	59.0-143			19.5	20
Methyl tert-butyl ether	0.0250	0.0215	0.0189	85.8	75.6	64.0-123			12.7	20
Naphthalene	0.0250	0.0172	0.0146	68.9	58.4	62.0-128		J4	16.5	20
n-Propylbenzene	0.0250	0.0232	0.0210	92.7	84.2	79.0-120			9.64	20
Styrene	0.0250	0.0226	0.0201	90.4	80.3	78.0-124			11.8	20
1,1,1,2-Tetrachloroethane	0.0250	0.0215	0.0202	86.1	81.0	75.0-122			6.15	20
1,1,2,2-Tetrachloroethane	0.0250	0.0220	0.0190	88.1	75.8	71.0-122			15.0	20
Tetrachloroethene	0.0250	0.0263	0.0226	105	90.6	70.0-127			14.8	20
Toluene	0.0250	0.0248	0.0214	99.0	85.7	77.0-120			14.4	20
1,1,1-Trichloroethane	0.0250	0.0261	0.0222	104	89.0	68.0-122			15.8	20
1,1,2-Trichloroethane	0.0250	0.0219	0.0194	87.6	77.6	78.0-120		J4	12.1	20
Trichloroethene	0.0250	0.0259	0.0226	104	90.3	78.0-120			13.7	20
1,2,4-Trimethylbenzene	0.0250	0.0219	0.0201	87.8	80.6	75.0-120			8.57	20
1,3,5-Trimethylbenzene	0.0250	0.0225	0.0204	89.9	81.8	75.0-120			9.40	20
Vinyl chloride	0.0250	0.0248	0.0207	99.3	82.7	64.0-133			18.3	20
Xylenes, Total	0.0750	0.0680	0.0617	90.7	82.3	77.0-120			9.71	20
o-Xylene	0.0250	0.0223	0.0205	89.1	81.9	78.0-120			8.40	20
m&p-Xylenes	0.0500	0.0457	0.0412	91.5	82.3	77.0-120			10.6	20
(S) Toluene-d8				*103*	*101*	*80.0-120*				
(S) Dibromofluoromethane				*98.9*	*99.3*	*76.0-123*				
(S) 4-Bromofluorobenzene				*100*	*101*	*80.0-120*				

Method Blank (MB)

(MB) R3215343-1 05/02/17 12:32

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	mg/l		mg/l	mg/l
TPH (GC/FID) High Fraction	U		0.0247	0.100
(S) o-Terphenyl	*62.6*			*31.0-160*

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

(LCS) R3215343-2 05/02/17 12:50 • (LCSD) R3215343-3 05/02/17 13:08

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	mg/l	mg/l	mg/l	%	%	%			%	%
TPH (GC/FID) High Fraction	1.50	1.74	1.69	116	113	50.0-150			2.80	20
(S) o-Terphenyl				*68.2*	*66.4*	*31.0-160*				

L905440-05 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L905440-05 05/03/17 16:50 • (MS) R3215528-1 05/03/17 17:08 • (MSD) R3215528-2 05/03/17 17:26

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
	mg/l	mg/l	mg/l	mg/l	%	%		%			%	%
TPH (GC/FID) High Fraction	1.50	0.625	2.22	2.23	106	107	1	50.0-150			0.730	20
(S) o-Terphenyl					*66.5*	*65.5*		*31.0-160*				

Method Blank (MB)

(MB) R3215853-1 05/04/17 12:29

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	mg/l		mg/l	mg/l
TPH (GC/FID) High Fraction	U		0.0247	0.100
(S) o-Terphenyl	*64.8*			*31.0-160*

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

(LCS) R3215853-2 05/04/17 12:46 • (LCSD) R3215853-3 05/04/17 13:04

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	mg/l	mg/l	mg/l	%	%	%			%	%
TPH (GC/FID) High Fraction	1.50	1.71	1.68	114	112	50.0-150			1.52	20
(S) o-Terphenyl				*68.4*	*67.7*	*31.0-160*				

Abbreviations and Definitions

SDG	Sample Delivery Group.
MDL	Method Detection Limit.
RDL	Reported Detection Limit.
ND	Not detected at the Reporting Limit (or MDL where applicable).
U	Not detected at the Reporting Limit (or MDL where applicable).
RPD	Relative Percent Difference.
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.
(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.
Rec.	Recovery.

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.
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.
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.
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.

ESC Lab Sciences is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our "one location" design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be **YOUR LAB OF CHOICE.**
* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

State Accreditations

Alabama	40660	Nevada	TN-03-2002-34
Alaska	UST-080	New Hampshire	2975
Arizona	AZ0612	New Jersey–NELAP	TN002
Arkansas	88-0469	New Mexico	TN00003
California	01157CA	New York	11742
Colorado	TN00003	North Carolina	Env375
Conneticut	PH-0197	North Carolina [1]	DW21704
Florida	E87487	North Carolina [2]	41
Georgia	NELAP	North Dakota	R-140
Georgia [1]	923	Ohio–VAP	CL0069
Idaho	TN00003	Oklahoma	9915
Illinois	200008	Oregon	TN200002
Indiana	C-TN-01	Pennsylvania	68-02979
Iowa	364	Rhode Island	221
Kansas	E-10277	South Carolina	84004
Kentucky [1]	90010	South Dakota	n/a
Kentucky [2]	16	Tennessee [1 4]	2006
Louisiana	AI30792	Texas	T 104704245-07-TX
Maine	TN0002	Texas [5]	LAB0152
Maryland	324	Utah	6157585858
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	109
Minnesota	047-999-395	Washington	C1915
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	9980939910
Montana	CERT0086	Wyoming	A2LA
Nebraska	NE-OS-15-05		

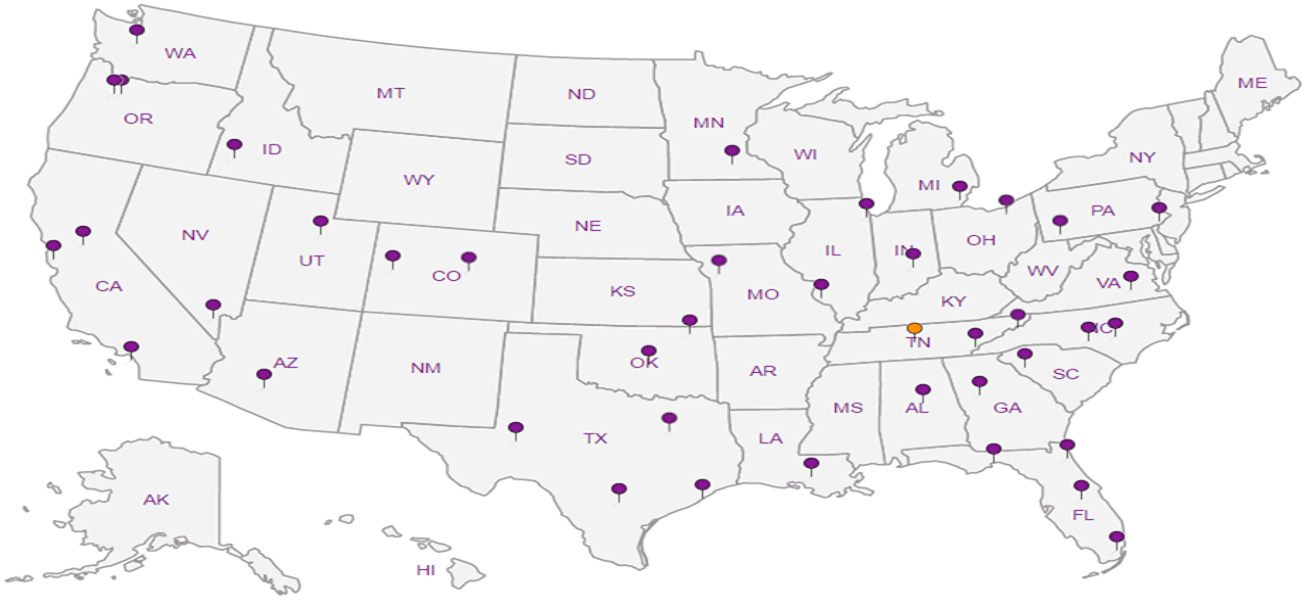
Third Party & Federal Accreditations

A2LA – ISO 17025	1461.01	AIHA-LAP,LLC	100789
A2LA – ISO 17025 [5]	1461.02	DOD	1461.01
Canada	1461.01	USDA	S-67674
EPA–Crypto	TN00003		

[1] Drinking Water [2] Underground Storage Tanks [3] Aquatic Toxicity [4] Chemical/Microbiological [5] Mold [n/a] Accreditation not applicable

Our Locations

ESC Lab Sciences has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. **ESC Lab Sciences performs all testing at our central laboratory.**



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Chain of Custody

ESC LABORATORIES
YOUR LAB OF CHOICE
12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

L# L905562

G169

Company Name/Address:
TRC Solutions - Austin, TX
505 E. Huntland Dr, Ste 250
Austin, TX 78752

Billing Information:
Accounts Payable
21 Griffin Road North
Windsor, CT 06095

Report to: Julie Speer

Email To: jspeer@trcwsolutions.com

Project Description: **EP Spring 2017**

City/State Collected: NM

Phone: 512-684-3170
Fax:

Client Project #

Lab Project #

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

Site/Facility ID #: EP (Navajo - Artesia)

P.O. # 107027

Collected by (signature): Scott Ude

Immediately Packed on Ice N ___ Y ✓

Rush? (Lab MUST Be Notified)
___ Same Day 200%
___ Next Day 100%
___ Two Day 50%
___ Three Day 25%

Date Results Needed

Email? ___No ✓Yes
FAX? ___No ___Yes

Acctnum: TRCATX
Template:
Prelogin:
TSR: **Chris McCord**
Cooler:
Shipped Via:

Analysis / Container / Preservative

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	VOC	DRO	GRO	Short List Metals (Total & Dissolved)	Cations (from "total metals" bottle) L2	Anions	NO2NO3, TDS L2	Long List Metals (Total & Dissolved)	Cyanide	Rem./Contaminant	Sample # (lab only)
MW-76	Grab	GW		4/26/17	1640	10	X	X	X	X	X	X	X				-01
MW-77	Grab	GW		4/26/17	1725		X	X	X	X	X	X	X				02
MW-78	Grab	GW		4/26/17	1805		X	X	X	X	X	X	X				03
MW-75	Grab	GW		4/26/17	1850		X	X	X	X	X	X	X				04
MW-83	Grab	GW		4/26/17	1555		X	X	X	X	X	X	X				05
MW-3	Grab	GW		4/26/17	1455		X	X	X	X	X	X	X				06
MW-88	Grab	GW		4/26/17	1055		X	X	X	X	X	X	X				07
MW-22A	Grab	GW		4/26/17	1140		X	X	X	X	X	X	X				08
MW-22B	Grab	GW		4/26/17	1235		X	X	X	X	X	X	X				09
MW-10	Grab	GW		4/26/17	1320		X	X	X	X	X	X	X				10

* Matrix: **SS** - Soil **GW** - Groundwater **WW** - WasteWater **DW** - Drinking Water **OT** - Other ___

Remarks: **Dissolved metals field-filtered.**

pH ___ Temp ___
Flow ___ Other ___

Hold #

Condition: (lab use only)

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Scott Ude	4/27/17	0800	
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)

Samples returned via: ☐ UPS ✓ FedEx ☐ Courier ☐ ___ MW

Temp: 2.4 °C Bottles Received: 35+349

Date: 4-28-17 Time: 9:00

COC Seal Intact: ___Y ___N ___NA

pH Checked: L2 NCF:

Chain of Custody Page 1 of 38

ESC LAB SCIENCES — YOUR LAB OF CHOICE
12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

L# L905612
Table #
Acctnum: TRCATX
Template:
Prelogin:
TSR: Chris McCord
Cooler:
Shipped Via:

Company Name/Address:	Billing Information:
TRC Solutions - Austin, TX **505 E. Huntland Dr, Ste 250** **Austin, TX 78752**	**Accounts Payable** **21 Griffin Road North** **Windsor, CT 06095**
Report to: Julie Speer	Email To: jspeer@trcwsolutions.com
Project Description: **EP Spring 2017**	City/State Collected: NM
Phone: 512-684-3170 Fax:	Client Project #	Lab Project #
Collected by (print): **Scott Ude/HMI Team**	Site/Facility ID # EP (Navajo - Artesia)	P.O. # 107027
Collected by (signature): Scott Ude Immediately Packed on Ice N ___ Y ✓	***Rush?*** (Lab MUST Be Notified) ___ Same Day ....200% ___ Next Day ....100% ___ Two Day ....50% ___ Three Day 25%	Date Results Needed Email? ___No ✓Yes FAX? ___No ___Yes

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	VOC	DRO	GRO	Short List Metals (Total & Dissolved)	Cations (from "total metals" bottle) L2	Anions	NO2NO3, TDS L2	Long List Metals (Total & Dissolved)	Cyanide		Rem./Contaminant	Sample # (lab only)
MW-6A	Grab	GW		4/26/17	1810	10	X	X	X	X	X	X	X					11
MW-6B	Grab	GW		4/26/17	1850	10	X	X	X	X	X	X	X					12
~~MW-85~~	Grab	GW					X	X	X	X	X	X	X					
~~MW-86~~	Grab	GW					X	X	X		X	X	X	X	X			
MW-120	Grab	GW		4/26/17	1725	10	X	X	X	X	X	X	X					13
MW-121	Grab	GW		4/26/17	1640	|	X	X	X	X	X	X	X					N
MW-84	Grab	GW		4/26/17	1415	|	X	X	X	X	X	X	X					15
MW-122	Grab	GW		4/26/17	1555	|	X	X	X	X	X	X	X					16
MW-81	Grab	GW		4/26/17	1330	|	X	X	X	X	X	X	X					17
MW-80	Grab	GW		4/26/17	1245	|	X	X	X	X	X	X	X					18

* Matrix: **SS** - Soil **GW** - Groundwater **WW** - WasteWater **DW** - Drinking Water **OT** - Other ____

Remarks: **Dissolved metals field-filtered.** This COC represents shipment 2. (Field event is continuing)

pH ____ Temp ____
Flow ____ Other ____

Hold #

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Scott Ude	4/27/17	0800	
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)
			MW

Samples returned via: ☐ UPS ☑ FedEx ☐ Courier ☐ ____
Temp: 2.6 °C Bottles Received: 35/349 MW
Date: 4-28-17 Time: 800

Condition: (lab use only) OK
COC Seal Intact: ✓ Y ___N ___NA
pH Checked: C2 NCF:

Company Name/Address:	Billing Information:
TRC Solutions - Austin, TX **505 E. Huntland Dr, Ste 250** **Austin, TX 78752**	**Accounts Payable** **21 Griffin Road North** **Windsor, CT 06095**
Report to: Julie Speer	Email To: jspeer@trcwsolutions.com
Project Description: **EP Spring 2017**	City/State Collected: NM
Phone: 512-684-3170 Fax:	Client Project #	Lab Project #
Collected by (print): **Scott Ude/HMI Team**	Site/Facility ID #: EP (Navajo - Artesia)	P.O. #: 107027
Collected by (signature): Scott Ude Immediately Packed on Ice N ___ Y ✓	***Rush?*** (Lab MUST Be Notified) ___ Same Day .....200% ___ Next Day .....100% ___ Two Day .....50% ___ Three Day 25%	Date Results Needed Email? ___No ✓Yes FAX? ___No ___Yes

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	VOC	DRO	GRO	Short List Metals (Total & Dissolved)	Cations (from "total metals" bottle) L2	Anions	NO2NO3, TDS L2	Long List Metals (Total & Dissolved)	Cyanide		Rem./Contaminant	Sample # (lab only)
MW-79	Grab	GW		4/26/17	1155	10	X	X	X	X	X	X	X					19
~~MW-82~~	Grab	GW					X	X	X	X	X	X	X					
~~MW-74~~	Grab	GW					X	X	X	X	X	X	X					
~~MW-73~~	Grab	GW					X	X	X	X	X	X	X					
MW-2A	Grab	GW		4/26/17	1500	10	X	X	X	X	X	X	X					20
~~MW-72~~	Grab	GW					X	X	X	X	X	X	X					
~~OCD-6~~	Grab	GW					X	X	X	X	X	X	X					
~~OCD-7AR~~	Grab	GW					X	X	X	X	X	X	X					
~~OCD-7B~~	Grab	GW					X	X	X	X	X	X	X					
	Grab	GW																

Analysis / Container / Preservative

Chain of Custody

ESC LABORATORIES — YOUR LAB OF CHOICE
12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

L# 1905562
Table #
Acctnum: TRCATX
Template:
Prelogin:
TSR: **Chris McCord**
Cooler:
Shipped Via:

* Matrix: **SS** - Soil **GW** - Groundwater **WW** - WasteWater **DW** - Drinking Water **OT** - Other_____

Remarks: **Dissolved metals field-filtered.**

pH _____ Temp _____
Flow _____ Other _____

Hold #

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Scott Ude	4/27/17	0800	
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)
			MW

Samples returned via: ☐ UPS ☑ FedEx ☐ Courier ☐ _____
Temp: 2-6 °C Bottles Received: 349
Date: 4-28-17 Time: 900

Condition: (lab use only) ✓
COC Seal Intact: ✓ Y ___N ___NA
pH Checked: L2 NCF:

Chain of Custody

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

L# L905612

Table #

Acctnum: TRCATX

Template:

Prelogin:

TSR: Chris McCord

Cooler:

Shipped Via:

Company Name/Address:	Billing Information:
TRC Solutions - Austin, TX **505 E. Huntland Dr, Ste 250** **Austin, TX 78752**	**Accounts Payable** **21 Griffin Road North** **Windsor, CT 06095**
Report to: Julie Speer	Email To: jspeer@trcwsolutions.com
Project Description: **EP Spring 2017**	City/State Collected: NM
Phone: 512-684-3170 Fax:	Client Project #	Lab Project #
Collected by (print): **Scott Ude/HMI Team**	Site/Facility ID #: EP (Navajo - Artesia)	P.O. #: 107027
Collected by (signature): Scott Ude Immediately Packed on Ice N ___ Y ✓	***Rush?*** (Lab MUST Be Notified) ___ Same Day .....200% ___ Next Day .....100% ___ Two Day .....50% ___ Three Day 25%	Date Results Needed Email? ___No ✓Yes FAX? ___No ___Yes

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	VOC	DRO	GRO	Short List Metals (Total & Dissolved)	Cations (from "total metals" bottle) L2	Anions	NO2NO3, TDS L2	Long List Metals (Total & Dissolved)	Cyanide		Rem./Contaminant	Sample # (lab only)
MW-123	Grab	GW		4/26/17	1405	10	X	X	X	X	X	X	X					21
MW-4A	Grab	GW		4/26/17	925		X	X	X	X	X	X	X					22
MW-4B	Grab	GW		4/26/17	1010		X	X	X	X	X	X	X					23
~~MW-5A~~	Grab	GW					X	X	X	X	X	X	X					
~~MW-5B~~	Grab	GW					X	X	X	X	X	X	X					
~~MW-5C~~	Grab	GW					X	X	X	X	X	X	X					
~~MW-7A~~	Grab	GW					X	X	X	X	X	X	X					
~~MW-7B~~	Grab	GW					X	X	X	X	X	X	X					
~~OCD-8A~~	Grab	GW					X	X	X		X	X	X	X	X			
~~OCD-8B~~	Grab	GW					X	X	X	X	X	X	X					

* Matrix: **SS** - Soil **GW** - Groundwater **WW** - WasteWater **DW** - Drinking Water **OT** - Other_____

Remarks: **Dissolved metals field-filtered.**

pH _____ Temp _____

Flow _____ Other _____

Hold #

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Scott Ude	4/27/17	0800	
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)
			Mint

Samples returned via: ☐ UPS ☑ FedEx ☐ Courier ☐ _____

Temp: 2.6 °C Bottles Received: 349

Date: 4-28-17 Time: 900

Condition: (lab use only) 0

COC Seal Intact: ✓ Y ___N ___NA

pH Checked: C2 NCF:

Company Name/Address:
TRC Solutions - Austin, TX
505 E. Huntland Dr, Ste 250
Austin, TX 78752

Billing Information:
Accounts Payable
21 Griffin Road North
Windsor, CT 06095

Report to: Julie Speer
Email To: jspeer@trcwsolutions.com

Project Description: **EP Spring 2017**
City/State Collected: NM

Phone: 512-684-3170
Fax:
Client Project #
Lab Project #

Collected by (print): **Scott Ude/HMI Team**
Site/Facility ID #: EP (Navajo - Artesia)
P.O. # 107027

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

Rush? (Lab MUST Be Notified)
___ Same Day 200%
___ Next Day 100%
___ Two Day 50%
___ Three Day 25%

Date Results Needed
Email? ___No ✓Yes
FAX? ___No ___Yes

Chain of Custody — Page 5 of 28

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

L# L905562
Table #
Acctnum: TRCATX
Template:
Prelogin:
TSR: **Chris McCord**
Cooler:
Shipped Via:

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	VOC	DRO	GRO	Short List Metals (Total & Dissolved)	Cations (from "total metals" bottle) 12	Anions	NO2NO3, TDS 12	Long List Metals (Total & Dissolved)	Cyanide		Rem./Contaminant	Sample # (lab only)
MW-1R	Grab	GW		4/26/17	1600	8	X	X		X	X	X	X					24
MW-15	Grab	GW		4/26/17	1650	10	X	X	X	X	X	X	X					25
OCD-1R	Grab	GW		4/26/17	1425		X	X	X	X	X	X	X					26
OCD-2A	Grab	GW		4/26/17	1340		X	X	X	X	X	X	X					27
OCD-3	Grab	GW		4/26/17	1250		X	X	X	X	X	X	X					28
OCD-4	Grab	GW		4/26/17	950		X	X	X	X	X	X	X					29
MW-11A	Grab	GW		4/26/17	1120		X	X	X	X	X	X	X					30
MW-11B	Grab	GW		4/26/17	1205		X	X	X	X	X	X	X					31
OCD-5	Grab	GW		4/26/17	1035		X	X	X	X	X	X	X					32
~~MW-87~~	Grab	GW					X	X	X	X	X	X	X					

* Matrix: **SS** - Soil **GW** - Groundwater **WW** - WasteWater **DW** - Drinking Water **OT** - Other_____

Remarks: **Dissolved metals field-filtered.**

pH _____ Temp _____
Flow _____ Other _____

Hold #

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Scott Ude	4/27/17	0800	
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)
			Mark

Samples returned via: ☐ UPS ☑ FedEx ☐ Courier ☐ _____
Temp: 2.6 °C Bottles Received: 349
Date: 4-28-17 Time: 900

Condition: (lab use only)
COC Seal Intact: ___Y ___N ___NA
pH Checked: C2 NCF:

Company Name/Address:	Billing Information:
TRC Solutions - Austin, TX **505 E. Huntland Dr, Ste 250** **Austin, TX 78752**	**Accounts Payable** **21 Griffin Road North** **Windsor, CT 06095**
Report to: Julie Speer	Email To: jspeer@trcwsolutions.com
Project Description: **EP Spring 2017**	City/State Collected: NM
Phone: 512-684-3170 Fax:	Client Project #	Lab Project #
Collected by (print): **Scott Ude/HMI Team**	Site/Facility ID #: EP (Navajo - Artesia)	P.O. #: 107027
Collected by (signature): Scott Ude Immediately Packed on Ice N ___ Y ✓	***Rush?*** (Lab MUST Be Notified) ___ Same Day .....200% ___ Next Day .....100% ___ Two Day .....50% ___ Three Day 25%	Date Results Needed Email? ___No ✓Yes FAX? ___No ___Yes

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	VOC	DRO	GRO	Short List Metals (Total & Dissolved)	Cations (from "total metals" bottle)	Anions	NO2NO3, TDS	Long List Metals (Total & Dissolved)	Cyanide		Rem./Contaminant	Sample # (lab only)
~~DUP-EP-01~~	Grab	GW					X	X	X	X	X	X	X					
DUP-EP-02	Grab	GW		4/26/17	900	10	X	X	X	X	X	X	X					33
DUP-EP-03	Grab	GW		4/26/17	1000	10	X	X	X	X	X	X	X					34
~~EB-EP-01~~	Grab	GW					X	X	X	X	X	X	X					
~~EB-EP-02~~	Grab	GW					X	X	X	X	X	X	X					
~~EB-EP-03~~	Grab	GW					X	X	X	X	X	X	X					
EB-EP-04	Grab	GW		4/26/17	1210	10	X	X	X	X	X	X	X					35
~~Trip Blank-EP-01~~	Grab	GW					X											
~~Trip Blank-EP-02~~	Grab	GW					X											
Trip Blank-EP-03	Grab	GW		4/26/17	—	1	X											36

* Matrix: **SS** - Soil **GW** - Groundwater **WW** - WasteWater **DW** - Drinking Water **OT** - Other_____

Remarks: **Dissolved metals field-filtered.**

pH _____ Temp _____

Flow _____ Other _____

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Scott Ude	4/27/17	0800	
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)
			MWE

Samples returned via: ☐ UPS ☑ FedEx ☐ Courier ☐ _____

Temp: 2.6 °C Bottles Received: 34

Date: 4-28-17 Time: 900

Hold #

Condition: (lab use only)

COC Seal Intact: ___Y ___N ___NA

pH Checked: L2 NCF:

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

L# L905567

Table #

Acctnum: TRCATX

Template:

Prelogin:

TSR: **Chris McCord**

Cooler:

Shipped Via:

ESC LAB SCIENCES
Cooler Receipt Form

Client: TRCATX	SDG#	L905562
Cooler Received/Opened On: 4/ 28 /17	Temperature:	2.6
Received By: MICHAEL Witherspoon		
Signature: MWT		

Receipt Check List	NP	Yes	No
COC Seal Present / Intact?			
COC Signed / Accurate?			
Bottles arrive intact?			
Correct bottles used?			
Sufficient volume sent?			
If Applicable			
VOA Zero headspace?			
Preservation Correct / Checked?			

ANALYTICAL REPORT

May 10, 2017

TRC Solutions - Austin, TX

Sample Delivery Group:	L905602
Samples Received:	04/28/2017
Project Number:	249545.0000.0000 000
Description:	TMD Spring 2017
Site:	TMD - NAVAJO-ARTESIA
Report To:	Julie Speer 505 E. Huntland Dr, Ste 250 Austin, TX 78752

Entire Report Reviewed By:

Chris McCord
Technical Service Representative

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 ESC is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.



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MW-25 L905602-01 GW

Collected by: Scott Ude-HMI Team | Collected date/time: 04/26/17 15:10 | Received date/time: 04/28/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG975502	1	05/02/17 11:43	05/02/17 11:45	AS
Wet Chemistry by Method 353.2	WG975587	1	05/02/17 14:09	05/02/17 14:09	DR
Wet Chemistry by Method 9056A	WG975327	1	05/01/17 06:33	05/01/17 06:33	KCF
Wet Chemistry by Method 9056A	WG975327	100	05/01/17 07:35	05/01/17 07:35	KCF
Metals (ICPMS) by Method 6020	WG975070	1	05/01/17 19:42	05/02/17 05:10	LAT
Metals (ICPMS) by Method 6020	WG975081	1	05/03/17 08:39	05/04/17 17:46	VSS
Metals (ICPMS) by Method 6020	WG975081	10	05/03/17 08:39	05/04/17 19:24	VSS
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975485	1	05/01/17 22:38	05/01/17 22:38	JHH
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG975556	1	05/02/17 13:40	05/06/17 16:38	TRF

MW-20 L905602-02 GW

Collected by: Scott Ude-HMI Team | Collected date/time: 04/27/17 10:20 | Received date/time: 04/28/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG975907	1	05/03/17 12:40	05/03/17 13:18	MMF
Wet Chemistry by Method 353.2	WG975587	10	05/02/17 14:14	05/02/17 14:14	DR
Wet Chemistry by Method 9056A	WG975327	1	05/01/17 06:49	05/01/17 06:49	KCF
Wet Chemistry by Method 9056A	WG975327	100	05/01/17 07:50	05/01/17 07:50	KCF
Metals (ICPMS) by Method 6020	WG975070	1	05/01/17 19:42	05/02/17 05:21	LAT
Metals (ICPMS) by Method 6020	WG975081	1	05/03/17 08:39	05/04/17 18:55	VSS
Metals (ICPMS) by Method 6020	WG975081	1	05/03/17 08:39	05/05/17 02:12	LAT
Metals (ICPMS) by Method 6020	WG975081	1	05/03/17 08:39	05/05/17 11:37	LAT
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975485	1	05/01/17 22:54	05/01/17 22:54	JHH
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG975556	1	05/02/17 13:40	05/05/17 18:31	DMG

MW-8 L905602-03 GW

Collected by: Scott Ude-HMI Team | Collected date/time: 04/27/17 11:50 | Received date/time: 04/28/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG975907	1	05/03/17 12:40	05/03/17 13:18	MMF
Wet Chemistry by Method 353.2	WG975587	1	05/02/17 14:15	05/02/17 14:15	DR
Wet Chemistry by Method 9056A	WG975327	1	05/01/17 07:04	05/01/17 07:04	KCF
Wet Chemistry by Method 9056A	WG975327	100	05/01/17 08:06	05/01/17 08:06	KCF
Metals (ICPMS) by Method 6020	WG975070	1	05/01/17 19:42	05/02/17 05:25	LAT
Metals (ICPMS) by Method 6020	WG975081	1	05/03/17 08:39	05/04/17 18:58	VSS
Metals (ICPMS) by Method 6020	WG975081	1	05/03/17 08:39	05/05/17 02:16	LAT
Metals (ICPMS) by Method 6020	WG975081	1	05/03/17 08:39	05/05/17 11:41	LAT
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG975302	1	04/30/17 21:14	04/30/17 21:14	LRL
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975485	1	05/01/17 23:11	05/01/17 23:11	JHH
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG975556	1	05/02/17 13:40	05/05/17 18:48	DMG

MW-21 L905602-04 GW

Collected by: Scott Ude-HMI Team | Collected date/time: 04/27/17 11:05 | Received date/time: 04/28/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG975907	1	05/03/17 12:40	05/03/17 13:18	MMF
Wet Chemistry by Method 353.2	WG975587	10	05/02/17 14:16	05/02/17 14:16	DR
Wet Chemistry by Method 9056A	WG975327	1	05/01/17 07:19	05/01/17 07:19	KCF
Wet Chemistry by Method 9056A	WG975327	100	05/01/17 08:21	05/01/17 08:21	KCF
Metals (ICPMS) by Method 6020	WG975070	1	05/01/17 19:42	05/02/17 05:28	LAT
Metals (ICPMS) by Method 6020	WG975081	1	05/03/17 08:39	05/04/17 19:02	VSS
Metals (ICPMS) by Method 6020	WG975081	1	05/03/17 08:39	05/05/17 02:19	LAT

MW-21 L905602-04 GW

Collected by: Scott Ude-HMI Team | Collected date/time: 04/27/17 11:05 | Received date/time: 04/28/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICPMS) by Method 6020	WG975081	1	05/03/17 08:39	05/05/17 11:44	LAT
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG975302	1	04/30/17 21:39	04/30/17 21:39	LRL
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975945	1	05/02/17 20:47	05/02/17 20:47	ACG
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG975556	1	05/02/17 13:40	05/05/17 19:05	DMG

NP-1 L905602-05 GW

Collected by: Scott Ude-HMI Team | Collected date/time: 04/26/17 18:20 | Received date/time: 04/28/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG975502	1	05/02/17 11:43	05/02/17 11:45	AS
Wet Chemistry by Method 353.2	WG975587	10	05/02/17 14:18	05/02/17 14:18	DR
Wet Chemistry by Method 9056A	WG975327	1	05/01/17 09:07	05/01/17 09:07	KCF
Wet Chemistry by Method 9056A	WG975327	100	05/01/17 10:09	05/01/17 10:09	KCF
Metals (ICPMS) by Method 6020	WG975081	1	05/03/17 08:39	05/04/17 19:05	VSS
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975945	1	05/02/17 21:09	05/02/17 21:09	ACG
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975945	10	05/03/17 21:51	05/03/17 21:51	LRL

NP-6 L905602-06 GW

Collected by: Scott Ude-HMI Team | Collected date/time: 04/26/17 17:40 | Received date/time: 04/28/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975945	1	05/02/17 21:31	05/02/17 21:31	ACG

MW-71 L905602-07 GW

Collected by: Scott Ude-HMI Team | Collected date/time: 04/26/17 11:05 | Received date/time: 04/28/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG975502	1	05/02/17 11:43	05/02/17 11:45	AS
Wet Chemistry by Method 353.2	WG975587	50	05/02/17 14:19	05/02/17 14:19	DR
Wet Chemistry by Method 4500CN E-2011	WG975005	1	05/01/17 10:39	05/02/17 10:55	DR
Wet Chemistry by Method 9056A	WG975327	1	05/01/17 09:23	05/01/17 09:23	KCF
Wet Chemistry by Method 9056A	WG975327	100	05/01/17 10:24	05/01/17 10:24	KCF
Mercury by Method 7470A	WG974957	1	04/29/17 06:59	05/02/17 15:38	TRB
Mercury by Method 7470A	WG975644	1	05/02/17 11:20	05/03/17 11:42	TRB
Metals (ICPMS) by Method 6020	WG975070	1	05/01/17 19:42	05/02/17 05:32	LAT
Metals (ICPMS) by Method 6020	WG975070	1	05/01/17 19:42	05/02/17 15:11	LAT
Metals (ICPMS) by Method 6020	WG975081	1	05/03/17 08:39	05/04/17 18:00	LAT
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975500	1	05/02/17 15:44	05/02/17 15:44	JHH
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG975556	1	05/02/17 13:40	05/05/17 19:22	DMG

MW-68 L905602-08 GW

Collected by: Scott Ude-HMI Team | Collected date/time: 04/26/17 11:55 | Received date/time: 04/28/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG975502	1	05/02/17 11:43	05/02/17 11:45	AS
Wet Chemistry by Method 353.2	WG975587	1	05/02/17 14:20	05/02/17 14:20	DR
Wet Chemistry by Method 9056A	WG975327	1	05/01/17 09:38	05/01/17 09:38	KCF
Wet Chemistry by Method 9056A	WG975327	50	05/01/17 10:40	05/01/17 10:40	KCF
Metals (ICPMS) by Method 6020	WG975070	1	05/01/17 19:42	05/02/17 05:35	LAT
Metals (ICPMS) by Method 6020	WG975081	1	05/03/17 08:39	05/04/17 19:09	VSS
Metals (ICPMS) by Method 6020	WG975081	1	05/03/17 08:39	05/05/17 02:22	LAT

MW-68 L905602-08 GW

Collected by: Scott Ude-HMI Team
Collected date/time: 04/26/17 11:55
Received date/time: 04/28/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICPMS) by Method 6020	WG975081	1	05/03/17 08:39	05/05/17 11:51	LAT
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975500	1	05/02/17 15:59	05/02/17 15:59	JHH
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG975556	1	05/02/17 13:40	05/05/17 19:39	DMG

MW-27 L905602-09 GW

Collected by: Scott Ude-HMI Team
Collected date/time: 04/26/17 15:55
Received date/time: 04/28/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG975502	1	05/02/17 11:43	05/02/17 11:45	AS
Wet Chemistry by Method 353.2	WG975587	1	05/02/17 14:21	05/02/17 14:21	DR
Wet Chemistry by Method 9056A	WG975327	1	05/01/17 09:53	05/01/17 09:53	KCF
Wet Chemistry by Method 9056A	WG975327	50	05/01/17 10:55	05/01/17 10:55	KCF
Metals (ICPMS) by Method 6020	WG975070	1	05/01/17 19:42	05/02/17 05:39	LAT
Metals (ICPMS) by Method 6020	WG975081	1	05/03/17 08:39	05/04/17 19:12	VSS
Metals (ICPMS) by Method 6020	WG975081	1	05/03/17 08:39	05/05/17 02:26	LAT
Metals (ICPMS) by Method 6020	WG975081	1	05/03/17 08:39	05/05/17 11:55	LAT
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975500	1	05/02/17 16:13	05/02/17 16:13	JHH
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG975556	1	05/02/17 13:40	05/05/17 19:56	DMG

MW-89 L905602-10 GW

Collected by: Scott Ude-HMI Team
Collected date/time: 04/26/17 14:55
Received date/time: 04/28/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG975502	1	05/02/17 11:43	05/02/17 11:45	AS
Wet Chemistry by Method 353.2	WG975587	10	05/02/17 14:22	05/02/17 14:22	DR
Wet Chemistry by Method 9056A	WG975327	1	05/01/17 11:41	05/01/17 11:41	KCF
Wet Chemistry by Method 9056A	WG975327	50	05/01/17 12:12	05/01/17 12:12	KCF
Metals (ICPMS) by Method 6020	WG975070	1	05/01/17 19:42	05/02/17 05:42	LAT
Metals (ICPMS) by Method 6020	WG975081	1	05/03/17 08:39	05/04/17 19:16	VSS
Metals (ICPMS) by Method 6020	WG975081	1	05/03/17 08:39	05/05/17 02:30	LAT
Metals (ICPMS) by Method 6020	WG975081	1	05/03/17 08:39	05/05/17 12:07	LAT
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975500	1	05/02/17 16:28	05/02/17 16:28	JHH
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG975556	1	05/02/17 13:40	05/05/17 20:13	DMG

MW-16 L905602-11 GW

Collected by: Scott Ude-HMI Team
Collected date/time: 04/26/17 14:00
Received date/time: 04/28/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG975502	1	05/02/17 11:43	05/02/17 11:45	AS
Wet Chemistry by Method 353.2	WG975587	10	05/02/17 14:27	05/02/17 14:27	DR
Wet Chemistry by Method 9056A	WG975534	1	05/02/17 23:02	05/02/17 23:02	KCF
Wet Chemistry by Method 9056A	WG975534	100	05/02/17 23:54	05/02/17 23:54	KCF
Metals (ICPMS) by Method 6020	WG975070	1	05/01/17 19:42	05/02/17 05:46	LAT
Metals (ICPMS) by Method 6020	WG975081	1	05/03/17 08:39	05/04/17 19:20	VSS
Metals (ICPMS) by Method 6020	WG975081	1	05/03/17 08:39	05/05/17 02:33	LAT
Metals (ICPMS) by Method 6020	WG975081	1	05/03/17 08:39	05/05/17 12:10	LAT
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975500	1	05/02/17 16:43	05/02/17 16:43	JHH
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG975556	1	05/02/17 13:40	05/05/17 20:30	DMG

MW-26 L905602-12 GW

Collected by: Scott Ude-HMI Team
Collected date/time: 04/26/17 12:55
Received date/time: 04/28/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG975503	1	05/03/17 11:01	05/03/17 12:09	MMF
Wet Chemistry by Method 353.2	WG975587	1	05/02/17 14:28	05/02/17 14:28	DR
Wet Chemistry by Method 9056A	WG975534	1	05/03/17 00:47	05/03/17 00:47	KCF
Wet Chemistry by Method 9056A	WG975534	100	05/03/17 01:04	05/03/17 01:04	KCF
Wet Chemistry by Method 9056A	WG976223	50	05/04/17 11:23	05/04/17 11:23	KCF
Metals (ICPMS) by Method 6020	WG975070	1	05/01/17 19:42	05/02/17 05:49	LAT
Metals (ICPMS) by Method 6020	WG975081	1	05/03/17 08:39	05/04/17 19:46	VSS
Metals (ICPMS) by Method 6020	WG975081	1	05/03/17 08:39	05/05/17 02:37	LAT
Metals (ICPMS) by Method 6020	WG975081	1	05/03/17 08:39	05/05/17 12:14	LAT
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975500	1	05/02/17 16:58	05/02/17 16:58	JHH
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG975556	1	05/02/17 13:40	05/05/17 22:45	DMG

MW-46R L905602-13 GW

Collected by: Scott Ude-HMI Team
Collected date/time: 04/27/17 11:40
Received date/time: 04/28/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG975907	1	05/03/17 12:40	05/03/17 13:18	MMF
Wet Chemistry by Method 353.2	WG975587	1	05/02/17 14:29	05/02/17 14:29	DR
Wet Chemistry by Method 9056A	WG975534	1	05/02/17 18:58	05/02/17 18:58	KCF
Wet Chemistry by Method 9056A	WG975534	100	05/02/17 19:16	05/02/17 19:16	KCF
Metals (ICPMS) by Method 6020	WG975070	1	05/01/17 19:42	05/02/17 04:16	LAT
Metals (ICPMS) by Method 6020	WG975081	1	05/03/17 08:39	05/04/17 19:50	VSS
Metals (ICPMS) by Method 6020	WG975081	1	05/03/17 08:39	05/05/17 02:48	LAT
Metals (ICPMS) by Method 6020	WG975081	1	05/03/17 08:39	05/05/17 12:17	LAT
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975500	1	05/02/17 17:12	05/02/17 17:12	JHH
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG975556	2	05/02/17 13:40	05/05/17 23:02	DMG

TRIP BLANK-TMD-01 L905602-14 GW

Collected by: Scott Ude-HMI Team
Collected date/time: 04/26/17 00:00
Received date/time: 04/28/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975500	1	05/02/17 11:51	05/02/17 11:51	JHH

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times. 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
Technical Service Representative

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Dissolved Solids	6240		2.82	10.0	1	05/02/2017 11:45	WG975502

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	0.152		0.0197	0.100	1	05/02/2017 14:09	WG975587

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	2330		5.19	100	100	05/01/2017 07:35	WG975327
Fluoride	1.17		0.00990	0.100	1	05/01/2017 06:33	WG975327
Sulfate	2800		7.74	500	100	05/01/2017 07:35	WG975327

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.00300		0.000250	0.00200	1	05/04/2017 17:46	WG975081
Arsenic,Dissolved	0.00306		0.000250	0.00200	1	05/02/2017 05:10	WG975070
Barium	0.0121		0.000360	0.00500	1	05/04/2017 17:46	WG975081
Barium,Dissolved	0.0129		0.000360	0.00500	1	05/02/2017 05:10	WG975070
Calcium	484	V	0.0460	1.00	1	05/04/2017 17:46	WG975081
Chromium	0.000842	J	0.000540	0.00200	1	05/04/2017 17:46	WG975081
Chromium,Dissolved	U		0.000540	0.00200	1	05/02/2017 05:10	WG975070
Iron	0.0157	J	0.0150	0.100	1	05/04/2017 17:46	WG975081
Iron,Dissolved	U		0.0150	0.100	1	05/02/2017 05:10	WG975070
Lead	U		0.000240	0.00200	1	05/04/2017 17:46	WG975081
Lead,Dissolved	U		0.000240	0.00200	1	05/02/2017 05:10	WG975070
Manganese	0.507	V	0.000250	0.00500	1	05/04/2017 17:46	WG975081
Manganese,Dissolved	0.290		0.000250	0.00500	1	05/02/2017 05:10	WG975070
Potassium	5.11		0.0370	1.00	1	05/04/2017 17:46	WG975081
Selenium	0.00254		0.000380	0.00200	1	05/04/2017 17:46	WG975081
Selenium,Dissolved	0.00234		0.000380	0.00200	1	05/02/2017 05:10	WG975070
Sodium	1540		1.10	10.0	10	05/04/2017 19:24	WG975081

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		0.0100	0.0500	1	05/01/2017 22:38	WG975485
Benzene	U		0.000331	0.00100	1	05/01/2017 22:38	WG975485
Bromodichloromethane	U		0.000380	0.00100	1	05/01/2017 22:38	WG975485
Bromoform	U		0.000469	0.00100	1	05/01/2017 22:38	WG975485
Bromomethane	U		0.000866	0.00500	1	05/01/2017 22:38	WG975485
n-Butylbenzene	U		0.000361	0.00100	1	05/01/2017 22:38	WG975485
sec-Butylbenzene	U		0.000365	0.00100	1	05/01/2017 22:38	WG975485
Carbon disulfide	U		0.000275	0.00100	1	05/01/2017 22:38	WG975485
Carbon tetrachloride	U		0.000379	0.00100	1	05/01/2017 22:38	WG975485
Chlorobenzene	U		0.000348	0.00100	1	05/01/2017 22:38	WG975485
Chlorodibromomethane	U		0.000327	0.00100	1	05/01/2017 22:38	WG975485
Chloroethane	U		0.000453	0.00500	1	05/01/2017 22:38	WG975485
Chloroform	U		0.000324	0.00500	1	05/01/2017 22:38	WG975485
Chloromethane	U	J4	0.000276	0.00250	1	05/01/2017 22:38	WG975485
1,2-Dibromoethane	U		0.000381	0.00100	1	05/01/2017 22:38	WG975485
1,1-Dichloroethane	U		0.000259	0.00100	1	05/01/2017 22:38	WG975485

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		0.000361	0.00100	1	05/01/2017 22:38	WG975485
1,1-Dichloroethene	U		0.000398	0.00100	1	05/01/2017 22:38	WG975485
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	05/01/2017 22:38	WG975485
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	05/01/2017 22:38	WG975485
1,2-Dichloropropane	U		0.000306	0.00100	1	05/01/2017 22:38	WG975485
cis-1,3-Dichloropropene	U	J4	0.000418	0.00100	1	05/01/2017 22:38	WG975485
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	05/01/2017 22:38	WG975485
Ethylbenzene	U		0.000384	0.00100	1	05/01/2017 22:38	WG975485
Isopropylbenzene	U		0.000326	0.00100	1	05/01/2017 22:38	WG975485
p-Isopropyltoluene	U		0.000350	0.00100	1	05/01/2017 22:38	WG975485
2-Butanone (MEK)	U		0.00393	0.0100	1	05/01/2017 22:38	WG975485
2-Hexanone	U	J3 J4	0.00382	0.0100	1	05/01/2017 22:38	WG975485
Methylene Chloride	U		0.00100	0.00500	1	05/01/2017 22:38	WG975485
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	05/01/2017 22:38	WG975485
Methyl tert-butyl ether	U		0.000367	0.00100	1	05/01/2017 22:38	WG975485
Naphthalene	U	J4	0.00100	0.00500	1	05/01/2017 22:38	WG975485
n-Propylbenzene	U		0.000349	0.00100	1	05/01/2017 22:38	WG975485
Styrene	U		0.000307	0.00100	1	05/01/2017 22:38	WG975485
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	05/01/2017 22:38	WG975485
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	05/01/2017 22:38	WG975485
Tetrachloroethene	U		0.000372	0.00100	1	05/01/2017 22:38	WG975485
Toluene	U		0.000412	0.00100	1	05/01/2017 22:38	WG975485
1,1,1-Trichloroethane	U		0.000319	0.00100	1	05/01/2017 22:38	WG975485
1,1,2-Trichloroethane	U	J4	0.000383	0.00100	1	05/01/2017 22:38	WG975485
Trichloroethene	U		0.000398	0.00100	1	05/01/2017 22:38	WG975485
1,2,4-Trimethylbenzene	U		0.000373	0.00100	1	05/01/2017 22:38	WG975485
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	05/01/2017 22:38	WG975485
Vinyl chloride	U		0.000259	0.00100	1	05/01/2017 22:38	WG975485
o-Xylene	U		0.000341	0.00100	1	05/01/2017 22:38	WG975485
m&p-Xylene	U		0.000719	0.00200	1	05/01/2017 22:38	WG975485
Xylenes, Total	U		0.00106	0.00300	1	05/01/2017 22:38	WG975485
(S) Toluene-d8	*103*			*80.0-120*		*05/01/2017 22:38*	WG975485
(S) Dibromofluoromethane	*101*			*76.0-123*		*05/01/2017 22:38*	WG975485
(S) 4-Bromofluorobenzene	*96.1*			*80.0-120*		*05/01/2017 22:38*	WG975485

Semi-Volatile Organic Compounds (GC) by 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		0.0247	0.100	1	05/06/2017 16:38	WG975556
(S) o-Terphenyl	*60.0*			*31.0-160*		*05/06/2017 16:38*	WG975556

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Dissolved Solids	5650		2.82	10.0	1	05/03/2017 13:18	WG975907

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	8.74		0.197	1.00	10	05/02/2017 14:14	WG975587

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	588		5.19	100	100	05/01/2017 07:50	WG975327
Fluoride	2.27		0.00990	0.100	1	05/01/2017 06:49	WG975327
Sulfate	2800		7.74	500	100	05/01/2017 07:50	WG975327

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.00575		0.000250	0.00200	1	05/04/2017 18:55	WG975081
Arsenic,Dissolved	0.00614		0.000250	0.00200	1	05/02/2017 05:21	WG975070
Barium	0.00980		0.000360	0.00500	1	05/04/2017 18:55	WG975081
Barium,Dissolved	0.0124		0.000360	0.00500	1	05/02/2017 05:21	WG975070
Calcium	525		0.0460	1.00	1	05/04/2017 18:55	WG975081
Chromium	U		0.000540	0.00200	1	05/04/2017 18:55	WG975081
Chromium,Dissolved	U		0.000540	0.00200	1	05/02/2017 05:21	WG975070
Iron	U		0.0150	0.100	1	05/04/2017 18:55	WG975081
Iron,Dissolved	U		0.0150	0.100	1	05/02/2017 05:21	WG975070
Lead	U		0.000240	0.00200	1	05/05/2017 11:37	WG975081
Lead,Dissolved	U		0.000240	0.00200	1	05/02/2017 05:21	WG975070
Manganese	0.00756		0.000250	0.00500	1	05/04/2017 18:55	WG975081
Manganese,Dissolved	0.00845		0.000250	0.00500	1	05/02/2017 05:21	WG975070
Potassium	0.425	J	0.0370	1.00	1	05/04/2017 18:55	WG975081
Selenium	0.0188		0.000380	0.00200	1	05/05/2017 02:12	WG975081
Selenium,Dissolved	0.0192		0.000380	0.00200	1	05/02/2017 05:21	WG975070
Sodium	274		0.110	1.00	1	05/04/2017 18:55	WG975081

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		0.0100	0.0500	1	05/01/2017 22:54	WG975485
Benzene	U		0.000331	0.00100	1	05/01/2017 22:54	WG975485
Bromodichloromethane	U		0.000380	0.00100	1	05/01/2017 22:54	WG975485
Bromoform	U		0.000469	0.00100	1	05/01/2017 22:54	WG975485
Bromomethane	U		0.000866	0.00500	1	05/01/2017 22:54	WG975485
n-Butylbenzene	U		0.000361	0.00100	1	05/01/2017 22:54	WG975485
sec-Butylbenzene	U		0.000365	0.00100	1	05/01/2017 22:54	WG975485
Carbon disulfide	U		0.000275	0.00100	1	05/01/2017 22:54	WG975485
Carbon tetrachloride	U		0.000379	0.00100	1	05/01/2017 22:54	WG975485
Chlorobenzene	U		0.000348	0.00100	1	05/01/2017 22:54	WG975485
Chlorodibromomethane	U		0.000327	0.00100	1	05/01/2017 22:54	WG975485
Chloroethane	U		0.000453	0.00500	1	05/01/2017 22:54	WG975485
Chloroform	U		0.000324	0.00500	1	05/01/2017 22:54	WG975485
Chloromethane	U	J4	0.000276	0.00250	1	05/01/2017 22:54	WG975485
1,2-Dibromoethane	U		0.000381	0.00100	1	05/01/2017 22:54	WG975485
1,1-Dichloroethane	U		0.000259	0.00100	1	05/01/2017 22:54	WG975485

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
1,2-Dichloroethane	U		0.000361	0.00100	1	05/01/2017 22:54	WG975485
1,1-Dichloroethene	U		0.000398	0.00100	1	05/01/2017 22:54	WG975485
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	05/01/2017 22:54	WG975485
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	05/01/2017 22:54	WG975485
1,2-Dichloropropane	U		0.000306	0.00100	1	05/01/2017 22:54	WG975485
cis-1,3-Dichloropropene	U	J4	0.000418	0.00100	1	05/01/2017 22:54	WG975485
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	05/01/2017 22:54	WG975485
Ethylbenzene	U		0.000384	0.00100	1	05/01/2017 22:54	WG975485
Isopropylbenzene	U		0.000326	0.00100	1	05/01/2017 22:54	WG975485
p-Isopropyltoluene	U		0.000350	0.00100	1	05/01/2017 22:54	WG975485
2-Butanone (MEK)	U		0.00393	0.0100	1	05/01/2017 22:54	WG975485
2-Hexanone	U	J3 J4	0.00382	0.0100	1	05/01/2017 22:54	WG975485
Methylene Chloride	U		0.00100	0.00500	1	05/01/2017 22:54	WG975485
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	05/01/2017 22:54	WG975485
Methyl tert-butyl ether	U		0.000367	0.00100	1	05/01/2017 22:54	WG975485
Naphthalene	U	J4	0.00100	0.00500	1	05/01/2017 22:54	WG975485
n-Propylbenzene	U		0.000349	0.00100	1	05/01/2017 22:54	WG975485
Styrene	U		0.000307	0.00100	1	05/01/2017 22:54	WG975485
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	05/01/2017 22:54	WG975485
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	05/01/2017 22:54	WG975485
Tetrachloroethene	U		0.000372	0.00100	1	05/01/2017 22:54	WG975485
Toluene	U		0.000412	0.00100	1	05/01/2017 22:54	WG975485
1,1,1-Trichloroethane	U		0.000319	0.00100	1	05/01/2017 22:54	WG975485
1,1,2-Trichloroethane	U	J4	0.000383	0.00100	1	05/01/2017 22:54	WG975485
Trichloroethene	U		0.000398	0.00100	1	05/01/2017 22:54	WG975485
1,2,4-Trimethylbenzene	U		0.000373	0.00100	1	05/01/2017 22:54	WG975485
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	05/01/2017 22:54	WG975485
Vinyl chloride	U		0.000259	0.00100	1	05/01/2017 22:54	WG975485
o-Xylene	U		0.000341	0.00100	1	05/01/2017 22:54	WG975485
m&p-Xylene	U		0.000719	0.00200	1	05/01/2017 22:54	WG975485
Xylenes, Total	U		0.00106	0.00300	1	05/01/2017 22:54	WG975485
(S) Toluene-d8	*104*			*80.0-120*		*05/01/2017 22:54*	WG975485
(S) Dibromofluoromethane	*103*			*76.0-123*		*05/01/2017 22:54*	WG975485
(S) 4-Bromofluorobenzene	*96.8*			*80.0-120*		*05/01/2017 22:54*	WG975485

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	0.280		0.0247	0.100	1	05/05/2017 18:31	WG975556
(S) o-Terphenyl	*59.4*			*31.0-160*		*05/05/2017 18:31*	WG975556

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Dissolved Solids	3900		2.82	10.0	1	05/03/2017 13:18	WG975907

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	1.04		0.0197	0.100	1	05/02/2017 14:15	WG975587

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	334		5.19	100	100	05/01/2017 08:06	WG975327
Fluoride	2.20		0.00990	0.100	1	05/01/2017 07:04	WG975327
Sulfate	2100		7.74	500	100	05/01/2017 08:06	WG975327

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.00678		0.000250	0.00200	1	05/04/2017 18:58	WG975081
Arsenic,Dissolved	0.00606		0.000250	0.00200	1	05/02/2017 05:25	WG975070
Barium	0.0102		0.000360	0.00500	1	05/04/2017 18:58	WG975081
Barium,Dissolved	0.0119		0.000360	0.00500	1	05/02/2017 05:25	WG975070
Calcium	346		0.0460	1.00	1	05/04/2017 18:58	WG975081
Chromium	0.0259		0.000540	0.00200	1	05/04/2017 18:58	WG975081
Chromium,Dissolved	U		0.000540	0.00200	1	05/02/2017 05:25	WG975070
Iron	0.111		0.0150	0.100	1	05/04/2017 18:58	WG975081
Iron,Dissolved	U		0.0150	0.100	1	05/02/2017 05:25	WG975070
Lead	U		0.000240	0.00200	1	05/05/2017 11:41	WG975081
Lead,Dissolved	U		0.000240	0.00200	1	05/02/2017 05:25	WG975070
Manganese	0.467		0.000250	0.00500	1	05/04/2017 18:58	WG975081
Manganese,Dissolved	0.494		0.000250	0.00500	1	05/02/2017 05:25	WG975070
Potassium	1.44		0.0370	1.00	1	05/04/2017 18:58	WG975081
Selenium	0.00647		0.000380	0.00200	1	05/05/2017 02:16	WG975081
Selenium,Dissolved	0.00637		0.000380	0.00200	1	05/02/2017 05:25	WG975070
Sodium	262		0.110	1.00	1	05/04/2017 18:58	WG975081

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	0.585		0.0314	0.100	1	04/30/2017 21:14	WG975302
(S) a,a,a-Trifluorotoluene(FID)	*99.8*			*77.0-122*		*04/30/2017 21:14*	WG975302

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		0.0100	0.0500	1	05/01/2017 23:11	WG975485
Benzene	U		0.000331	0.00100	1	05/01/2017 23:11	WG975485
Bromodichloromethane	U		0.000380	0.00100	1	05/01/2017 23:11	WG975485
Bromoform	U		0.000469	0.00100	1	05/01/2017 23:11	WG975485
Bromomethane	U		0.000866	0.00500	1	05/01/2017 23:11	WG975485
n-Butylbenzene	U		0.000361	0.00100	1	05/01/2017 23:11	WG975485
sec-Butylbenzene	U		0.000365	0.00100	1	05/01/2017 23:11	WG975485
Carbon disulfide	U		0.000275	0.00100	1	05/01/2017 23:11	WG975485
Carbon tetrachloride	U		0.000379	0.00100	1	05/01/2017 23:11	WG975485

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chlorobenzene	U		0.000348	0.00100	1	05/01/2017 23:11	WG975485
Chlorodibromomethane	U		0.000327	0.00100	1	05/01/2017 23:11	WG975485
Chloroethane	U		0.000453	0.00500	1	05/01/2017 23:11	WG975485
Chloroform	U		0.000324	0.00500	1	05/01/2017 23:11	WG975485
Chloromethane	U	J4	0.000276	0.00250	1	05/01/2017 23:11	WG975485
1,2-Dibromoethane	U		0.000381	0.00100	1	05/01/2017 23:11	WG975485
1,1-Dichloroethane	U		0.000259	0.00100	1	05/01/2017 23:11	WG975485
1,2-Dichloroethane	U		0.000361	0.00100	1	05/01/2017 23:11	WG975485
1,1-Dichloroethene	U		0.000398	0.00100	1	05/01/2017 23:11	WG975485
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	05/01/2017 23:11	WG975485
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	05/01/2017 23:11	WG975485
1,2-Dichloropropane	U		0.000306	0.00100	1	05/01/2017 23:11	WG975485
cis-1,3-Dichloropropene	U	J4	0.000418	0.00100	1	05/01/2017 23:11	WG975485
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	05/01/2017 23:11	WG975485
Ethylbenzene	U		0.000384	0.00100	1	05/01/2017 23:11	WG975485
Isopropylbenzene	U		0.000326	0.00100	1	05/01/2017 23:11	WG975485
p-Isopropyltoluene	U		0.000350	0.00100	1	05/01/2017 23:11	WG975485
2-Butanone (MEK)	U		0.00393	0.0100	1	05/01/2017 23:11	WG975485
2-Hexanone	U	J3 J4	0.00382	0.0100	1	05/01/2017 23:11	WG975485
Methylene Chloride	U		0.00100	0.00500	1	05/01/2017 23:11	WG975485
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	05/01/2017 23:11	WG975485
Methyl tert-butyl ether	0.00228		0.000367	0.00100	1	05/01/2017 23:11	WG975485
Naphthalene	U	J4	0.00100	0.00500	1	05/01/2017 23:11	WG975485
n-Propylbenzene	U		0.000349	0.00100	1	05/01/2017 23:11	WG975485
Styrene	U		0.000307	0.00100	1	05/01/2017 23:11	WG975485
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	05/01/2017 23:11	WG975485
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	05/01/2017 23:11	WG975485
Tetrachloroethene	U		0.000372	0.00100	1	05/01/2017 23:11	WG975485
Toluene	U		0.000412	0.00100	1	05/01/2017 23:11	WG975485
1,1,1-Trichloroethane	U		0.000319	0.00100	1	05/01/2017 23:11	WG975485
1,1,2-Trichloroethane	U	J4	0.000383	0.00100	1	05/01/2017 23:11	WG975485
Trichloroethene	U		0.000398	0.00100	1	05/01/2017 23:11	WG975485
1,2,4-Trimethylbenzene	U		0.000373	0.00100	1	05/01/2017 23:11	WG975485
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	05/01/2017 23:11	WG975485
Vinyl chloride	U		0.000259	0.00100	1	05/01/2017 23:11	WG975485
o-Xylene	U		0.000341	0.00100	1	05/01/2017 23:11	WG975485
m&p-Xylene	U		0.000719	0.00200	1	05/01/2017 23:11	WG975485
Xylenes, Total	U		0.00106	0.00300	1	05/01/2017 23:11	WG975485
(S) Toluene-d8	*104*			*80.0-120*		*05/01/2017 23:11*	WG975485
(S) Dibromofluoromethane	*104*			*76.0-123*		*05/01/2017 23:11*	WG975485
(S) 4-Bromofluorobenzene	*95.4*			*80.0-120*		*05/01/2017 23:11*	WG975485

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	0.238		0.0247	0.100	1	05/05/2017 18:48	WG975556
(S) o-Terphenyl	*60.0*			*31.0-160*		*05/05/2017 18:48*	WG975556

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Dissolved Solids	6630		2.82	10.0	1	05/03/2017 13:18	WG975907

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	20.4		0.197	1.00	10	05/02/2017 14:16	WG975587

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	599		5.19	100	100	05/01/2017 08:21	WG975327
Fluoride	1.95		0.00990	0.100	1	05/01/2017 07:19	WG975327
Sulfate	2860		7.74	500	100	05/01/2017 08:21	WG975327

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.00530		0.000250	0.00200	1	05/04/2017 19:02	WG975081
Arsenic,Dissolved	0.00536		0.000250	0.00200	1	05/02/2017 05:28	WG975070
Barium	0.00817		0.000360	0.00500	1	05/04/2017 19:02	WG975081
Barium,Dissolved	0.00969		0.000360	0.00500	1	05/02/2017 05:28	WG975070
Calcium	507		0.0460	1.00	1	05/04/2017 19:02	WG975081
Chromium	U		0.000540	0.00200	1	05/04/2017 19:02	WG975081
Chromium,Dissolved	U		0.000540	0.00200	1	05/02/2017 05:28	WG975070
Iron	U		0.0150	0.100	1	05/04/2017 19:02	WG975081
Iron,Dissolved	U		0.0150	0.100	1	05/02/2017 05:28	WG975070
Lead	U		0.000240	0.00200	1	05/05/2017 11:44	WG975081
Lead,Dissolved	U		0.000240	0.00200	1	05/02/2017 05:28	WG975070
Manganese	0.204		0.000250	0.00500	1	05/04/2017 19:02	WG975081
Manganese,Dissolved	0.191		0.000250	0.00500	1	05/02/2017 05:28	WG975070
Potassium	1.88		0.0370	1.00	1	05/04/2017 19:02	WG975081
Selenium	0.0258		0.000380	0.00200	1	05/05/2017 02:19	WG975081
Selenium,Dissolved	0.0266		0.000380	0.00200	1	05/02/2017 05:28	WG975070
Sodium	423		0.110	1.00	1	05/04/2017 19:02	WG975081

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	0.0721	J	0.0314	0.100	1	04/30/2017 21:39	WG975302
(S) a,a,a-Trifluorotoluene(FID)	*100*			*77.0-122*		*04/30/2017 21:39*	WG975302

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		0.0100	0.0500	1	05/02/2017 20:47	WG975945
Benzene	U		0.000331	0.00100	1	05/02/2017 20:47	WG975945
Bromodichloromethane	U		0.000380	0.00100	1	05/02/2017 20:47	WG975945
Bromoform	U		0.000469	0.00100	1	05/02/2017 20:47	WG975945
Bromomethane	U		0.000866	0.00500	1	05/02/2017 20:47	WG975945
n-Butylbenzene	U		0.000361	0.00100	1	05/02/2017 20:47	WG975945
sec-Butylbenzene	U		0.000365	0.00100	1	05/02/2017 20:47	WG975945
Carbon disulfide	U		0.000275	0.00100	1	05/02/2017 20:47	WG975945
Carbon tetrachloride	U		0.000379	0.00100	1	05/02/2017 20:47	WG975945

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chlorobenzene	U		0.000348	0.00100	1	05/02/2017 20:47	WG975945
Chlorodibromomethane	U		0.000327	0.00100	1	05/02/2017 20:47	WG975945
Chloroethane	U		0.000453	0.00500	1	05/02/2017 20:47	WG975945
Chloroform	U		0.000324	0.00500	1	05/02/2017 20:47	WG975945
Chloromethane	U		0.000276	0.00250	1	05/02/2017 20:47	WG975945
1,2-Dibromoethane	U		0.000381	0.00100	1	05/02/2017 20:47	WG975945
1,1-Dichloroethane	U		0.000259	0.00100	1	05/02/2017 20:47	WG975945
1,2-Dichloroethane	U		0.000361	0.00100	1	05/02/2017 20:47	WG975945
1,1-Dichloroethene	U		0.000398	0.00100	1	05/02/2017 20:47	WG975945
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	05/02/2017 20:47	WG975945
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	05/02/2017 20:47	WG975945
1,2-Dichloropropane	U		0.000306	0.00100	1	05/02/2017 20:47	WG975945
cis-1,3-Dichloropropene	U		0.000418	0.00100	1	05/02/2017 20:47	WG975945
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	05/02/2017 20:47	WG975945
Ethylbenzene	U		0.000384	0.00100	1	05/02/2017 20:47	WG975945
Isopropylbenzene	U		0.000326	0.00100	1	05/02/2017 20:47	WG975945
p-Isopropyltoluene	U		0.000350	0.00100	1	05/02/2017 20:47	WG975945
2-Butanone (MEK)	U		0.00393	0.0100	1	05/02/2017 20:47	WG975945
2-Hexanone	U		0.00382	0.0100	1	05/02/2017 20:47	WG975945
Methylene Chloride	U		0.00100	0.00500	1	05/02/2017 20:47	WG975945
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	05/02/2017 20:47	WG975945
Methyl tert-butyl ether	0.0149		0.000367	0.00100	1	05/02/2017 20:47	WG975945
Naphthalene	U		0.00100	0.00500	1	05/02/2017 20:47	WG975945
n-Propylbenzene	U		0.000349	0.00100	1	05/02/2017 20:47	WG975945
Styrene	U		0.000307	0.00100	1	05/02/2017 20:47	WG975945
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	05/02/2017 20:47	WG975945
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	05/02/2017 20:47	WG975945
Tetrachloroethene	U		0.000372	0.00100	1	05/02/2017 20:47	WG975945
Toluene	U		0.000412	0.00100	1	05/02/2017 20:47	WG975945
1,1,1-Trichloroethane	U		0.000319	0.00100	1	05/02/2017 20:47	WG975945
1,1,2-Trichloroethane	U		0.000383	0.00100	1	05/02/2017 20:47	WG975945
Trichloroethene	U		0.000398	0.00100	1	05/02/2017 20:47	WG975945
1,2,4-Trimethylbenzene	U		0.000373	0.00100	1	05/02/2017 20:47	WG975945
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	05/02/2017 20:47	WG975945
Vinyl chloride	U		0.000259	0.00100	1	05/02/2017 20:47	WG975945
o-Xylene	U		0.000341	0.00100	1	05/02/2017 20:47	WG975945
m&p-Xylene	U		0.000719	0.00200	1	05/02/2017 20:47	WG975945
Xylenes, Total	U		0.00106	0.00300	1	05/02/2017 20:47	WG975945
(S) Toluene-d8	*107*			*80.0-120*		*05/02/2017 20:47*	WG975945
(S) Dibromofluoromethane	*112*			*76.0-123*		*05/02/2017 20:47*	WG975945
(S) 4-Bromofluorobenzene	*91.0*			*80.0-120*		*05/02/2017 20:47*	WG975945

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	0.169		0.0247	0.100	1	05/05/2017 19:05	WG975556
(S) o-Terphenyl	*57.2*			*31.0-160*		*05/05/2017 19:05*	WG975556

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Dissolved Solids	4060		2.82	10.0	1	05/02/2017 11:45	WG975502

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	9.95		0.197	1.00	10	05/02/2017 14:18	WG975587

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	422		5.19	100	100	05/01/2017 10:09	WG975327
Fluoride	2.08		0.00990	0.100	1	05/01/2017 09:07	WG975327
Sulfate	2440		7.74	500	100	05/01/2017 10:09	WG975327

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Calcium	421		0.0460	1.00	1	05/04/2017 19:05	WG975081
Potassium	2.73		0.0370	1.00	1	05/04/2017 19:05	WG975081
Sodium	340		0.110	1.00	1	05/04/2017 19:05	WG975081

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		0.0100	0.0500	1	05/02/2017 21:09	WG975945
Benzene	U		0.000331	0.00100	1	05/02/2017 21:09	WG975945
Bromodichloromethane	U		0.000380	0.00100	1	05/02/2017 21:09	WG975945
Bromoform	U		0.000469	0.00100	1	05/02/2017 21:09	WG975945
Bromomethane	U		0.000866	0.00500	1	05/02/2017 21:09	WG975945
n-Butylbenzene	U		0.000361	0.00100	1	05/02/2017 21:09	WG975945
sec-Butylbenzene	U		0.000365	0.00100	1	05/02/2017 21:09	WG975945
Carbon disulfide	U		0.000275	0.00100	1	05/02/2017 21:09	WG975945
Carbon tetrachloride	U		0.000379	0.00100	1	05/02/2017 21:09	WG975945
Chlorobenzene	U		0.000348	0.00100	1	05/02/2017 21:09	WG975945
Chlorodibromomethane	U		0.000327	0.00100	1	05/02/2017 21:09	WG975945
Chloroethane	U		0.000453	0.00500	1	05/02/2017 21:09	WG975945
Chloroform	U		0.000324	0.00500	1	05/02/2017 21:09	WG975945
Chloromethane	U		0.000276	0.00250	1	05/02/2017 21:09	WG975945
1,2-Dibromoethane	U		0.000381	0.00100	1	05/02/2017 21:09	WG975945
1,1-Dichloroethane	U		0.000259	0.00100	1	05/02/2017 21:09	WG975945
1,2-Dichloroethane	0.000408	J	0.000361	0.00100	1	05/02/2017 21:09	WG975945
1,1-Dichloroethene	U		0.000398	0.00100	1	05/02/2017 21:09	WG975945
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	05/02/2017 21:09	WG975945
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	05/02/2017 21:09	WG975945
1,2-Dichloropropane	U		0.000306	0.00100	1	05/02/2017 21:09	WG975945
cis-1,3-Dichloropropene	U		0.000418	0.00100	1	05/02/2017 21:09	WG975945
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	05/02/2017 21:09	WG975945
Ethylbenzene	U		0.000384	0.00100	1	05/02/2017 21:09	WG975945
Isopropylbenzene	U		0.000326	0.00100	1	05/02/2017 21:09	WG975945
p-Isopropyltoluene	U		0.000350	0.00100	1	05/02/2017 21:09	WG975945
2-Butanone (MEK)	U		0.00393	0.0100	1	05/02/2017 21:09	WG975945
2-Hexanone	U		0.00382	0.0100	1	05/02/2017 21:09	WG975945
Methylene Chloride	U		0.00100	0.00500	1	05/02/2017 21:09	WG975945
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	05/02/2017 21:09	WG975945

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Methyl tert-butyl ether	0.391		0.00367	0.0100	10	05/03/2017 21:51	WG975945
Naphthalene	U		0.00100	0.00500	1	05/02/2017 21:09	WG975945
n-Propylbenzene	U		0.000349	0.00100	1	05/02/2017 21:09	WG975945
Styrene	U		0.000307	0.00100	1	05/02/2017 21:09	WG975945
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	05/02/2017 21:09	WG975945
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	05/02/2017 21:09	WG975945
Tetrachloroethene	U		0.000372	0.00100	1	05/02/2017 21:09	WG975945
Toluene	U		0.000412	0.00100	1	05/02/2017 21:09	WG975945
1,1,1-Trichloroethane	U		0.000319	0.00100	1	05/02/2017 21:09	WG975945
1,1,2-Trichloroethane	U		0.000383	0.00100	1	05/02/2017 21:09	WG975945
Trichloroethene	U		0.000398	0.00100	1	05/02/2017 21:09	WG975945
1,2,4-Trimethylbenzene	U		0.000373	0.00100	1	05/02/2017 21:09	WG975945
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	05/02/2017 21:09	WG975945
Vinyl chloride	U		0.000259	0.00100	1	05/02/2017 21:09	WG975945
o-Xylene	U		0.000341	0.00100	1	05/02/2017 21:09	WG975945
m&p-Xylene	U		0.000719	0.00200	1	05/02/2017 21:09	WG975945
Xylenes, Total	U		0.00106	0.00300	1	05/02/2017 21:09	WG975945
(S) Toluene-d8	*104*			*80.0-120*		*05/03/2017 21:51*	WG975945
(S) Toluene-d8	*106*			*80.0-120*		*05/02/2017 21:09*	WG975945
(S) Dibromofluoromethane	*101*			*76.0-123*		*05/03/2017 21:51*	WG975945
(S) Dibromofluoromethane	*112*			*76.0-123*		*05/02/2017 21:09*	WG975945
(S) 4-Bromofluorobenzene	*90.6*			*80.0-120*		*05/02/2017 21:09*	WG975945
(S) 4-Bromofluorobenzene	*98.2*			*80.0-120*		*05/03/2017 21:51*	WG975945

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		0.0100	0.0500	1	05/02/2017 21:31	WG975945
Benzene	U		0.000331	0.00100	1	05/02/2017 21:31	WG975945
Bromodichloromethane	U		0.000380	0.00100	1	05/02/2017 21:31	WG975945
Bromoform	U		0.000469	0.00100	1	05/02/2017 21:31	WG975945
Bromomethane	U		0.000866	0.00500	1	05/02/2017 21:31	WG975945
n-Butylbenzene	U		0.000361	0.00100	1	05/02/2017 21:31	WG975945
sec-Butylbenzene	U		0.000365	0.00100	1	05/02/2017 21:31	WG975945
Carbon disulfide	U		0.000275	0.00100	1	05/02/2017 21:31	WG975945
Carbon tetrachloride	U		0.000379	0.00100	1	05/02/2017 21:31	WG975945
Chlorobenzene	U		0.000348	0.00100	1	05/02/2017 21:31	WG975945
Chlorodibromomethane	U		0.000327	0.00100	1	05/02/2017 21:31	WG975945
Chloroethane	U		0.000453	0.00500	1	05/02/2017 21:31	WG975945
Chloroform	U		0.000324	0.00500	1	05/02/2017 21:31	WG975945
Chloromethane	U		0.000276	0.00250	1	05/02/2017 21:31	WG975945
1,2-Dibromoethane	U		0.000381	0.00100	1	05/02/2017 21:31	WG975945
1,1-Dichloroethane	U		0.000259	0.00100	1	05/02/2017 21:31	WG975945
1,2-Dichloroethane	U		0.000361	0.00100	1	05/02/2017 21:31	WG975945
1,1-Dichloroethene	U		0.000398	0.00100	1	05/02/2017 21:31	WG975945
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	05/02/2017 21:31	WG975945
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	05/02/2017 21:31	WG975945
1,2-Dichloropropane	U		0.000306	0.00100	1	05/02/2017 21:31	WG975945
cis-1,3-Dichloropropene	U		0.000418	0.00100	1	05/02/2017 21:31	WG975945
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	05/02/2017 21:31	WG975945
Ethylbenzene	U		0.000384	0.00100	1	05/02/2017 21:31	WG975945
Isopropylbenzene	U		0.000326	0.00100	1	05/02/2017 21:31	WG975945
p-Isopropyltoluene	U		0.000350	0.00100	1	05/02/2017 21:31	WG975945
2-Butanone (MEK)	U		0.00393	0.0100	1	05/02/2017 21:31	WG975945
2-Hexanone	U		0.00382	0.0100	1	05/02/2017 21:31	WG975945
Methylene Chloride	U		0.00100	0.00500	1	05/02/2017 21:31	WG975945
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	05/02/2017 21:31	WG975945
Methyl tert-butyl ether	0.0353		0.000367	0.00100	1	05/02/2017 21:31	WG975945
Naphthalene	U		0.00100	0.00500	1	05/02/2017 21:31	WG975945
n-Propylbenzene	U		0.000349	0.00100	1	05/02/2017 21:31	WG975945
Styrene	U		0.000307	0.00100	1	05/02/2017 21:31	WG975945
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	05/02/2017 21:31	WG975945
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	05/02/2017 21:31	WG975945
Tetrachloroethene	U		0.000372	0.00100	1	05/02/2017 21:31	WG975945
Toluene	U		0.000412	0.00100	1	05/02/2017 21:31	WG975945
1,1,1-Trichloroethane	U		0.000319	0.00100	1	05/02/2017 21:31	WG975945
1,1,2-Trichloroethane	U		0.000383	0.00100	1	05/02/2017 21:31	WG975945
Trichloroethene	U		0.000398	0.00100	1	05/02/2017 21:31	WG975945
1,2,4-Trimethylbenzene	U		0.000373	0.00100	1	05/02/2017 21:31	WG975945
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	05/02/2017 21:31	WG975945
Vinyl chloride	U		0.000259	0.00100	1	05/02/2017 21:31	WG975945
o-Xylene	U		0.000341	0.00100	1	05/02/2017 21:31	WG975945
m&p-Xylene	U		0.000719	0.00200	1	05/02/2017 21:31	WG975945
Xylenes, Total	U		0.00106	0.00300	1	05/02/2017 21:31	WG975945
(S) Toluene-d8	*108*			*80.0-120*		*05/02/2017 21:31*	WG975945
(S) Dibromofluoromethane	*111*			*76.0-123*		*05/02/2017 21:31*	WG975945
(S) 4-Bromofluorobenzene	*91.8*			*80.0-120*		*05/02/2017 21:31*	WG975945

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Dissolved Solids	5300		2.82	10.0	1	05/02/2017 11:45	WG975502

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	54.0		0.985	5.00	50	05/02/2017 14:19	WG975587

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	05/02/2017 10:55	WG975005

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	848		5.19	100	100	05/01/2017 10:24	WG975327
Fluoride	1.63		0.00990	0.100	1	05/01/2017 09:23	WG975327
Sulfate	2940		7.74	500	100	05/01/2017 10:24	WG975327

Mercury by Method 7470A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Mercury	U		0.0000490	0.000200	1	05/02/2017 15:38	WG974957
Mercury,Dissolved	U		0.0000490	0.000200	1	05/03/2017 11:42	WG975644

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.00387		0.000250	0.00200	1	05/04/2017 18:00	WG975081
Arsenic,Dissolved	0.00408		0.000250	0.00200	1	05/02/2017 05:32	WG975070
Barium	0.00845		0.000360	0.00500	1	05/04/2017 18:00	WG975081
Barium,Dissolved	0.00978		0.000360	0.00500	1	05/02/2017 05:32	WG975070
Boron	0.538		0.00150	0.0200	1	05/04/2017 18:00	WG975081
Boron,Dissolved	0.606		0.00150	0.0200	1	05/02/2017 15:11	WG975070
Cadmium	U		0.000160	0.00100	1	05/04/2017 18:00	WG975081
Cadmium,Dissolved	U		0.000160	0.00100	1	05/02/2017 15:11	WG975070
Calcium	601		0.0460	1.00	1	05/04/2017 18:00	WG975081
Chromium	U		0.000540	0.00200	1	05/04/2017 18:00	WG975081
Chromium,Dissolved	U		0.000540	0.00200	1	05/02/2017 05:32	WG975070
Cobalt	U		0.000260	0.00200	1	05/04/2017 18:00	WG975081
Cobalt,Dissolved	U		0.000260	0.00200	1	05/02/2017 05:32	WG975070
Iron	U		0.0150	0.100	1	05/04/2017 18:00	WG975081
Iron,Dissolved	U		0.0150	0.100	1	05/02/2017 05:32	WG975070
Lead	U		0.000240	0.00200	1	05/04/2017 18:00	WG975081
Lead,Dissolved	U		0.000240	0.00200	1	05/02/2017 05:32	WG975070
Manganese	0.000841	J	0.000250	0.00500	1	05/04/2017 18:00	WG975081
Manganese,Dissolved	0.000265	J	0.000250	0.00500	1	05/02/2017 05:32	WG975070
Nickel	0.000916	J	0.000350	0.00200	1	05/04/2017 18:00	WG975081
Nickel,Dissolved	0.000892	J	0.000350	0.00200	1	05/02/2017 05:32	WG975070
Potassium	3.62		0.0370	1.00	1	05/04/2017 18:00	WG975081
Selenium	0.0324		0.000380	0.00200	1	05/04/2017 18:00	WG975081
Selenium,Dissolved	0.0331		0.000380	0.00200	1	05/02/2017 05:32	WG975070
Sodium	491		0.110	1.00	1	05/04/2017 18:00	WG975081

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Uranium	0.0587		0.000330	0.0100	1	05/04/2017 18:00	WG975081
Uranium,Dissolved	0.0617		0.000330	0.0100	1	05/02/2017 05:32	WG975070
Vanadium	0.0248		0.000180	0.00500	1	05/04/2017 18:00	WG975081
Vanadium,Dissolved	0.0260		0.000180	0.00500	1	05/02/2017 05:32	WG975070

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		0.0100	0.0500	1	05/02/2017 15:44	WG975500
Benzene	U		0.000331	0.00100	1	05/02/2017 15:44	WG975500
Bromodichloromethane	U		0.000380	0.00100	1	05/02/2017 15:44	WG975500
Bromoform	U		0.000469	0.00100	1	05/02/2017 15:44	WG975500
Bromomethane	U		0.000866	0.00500	1	05/02/2017 15:44	WG975500
n-Butylbenzene	U		0.000361	0.00100	1	05/02/2017 15:44	WG975500
sec-Butylbenzene	U		0.000365	0.00100	1	05/02/2017 15:44	WG975500
Carbon disulfide	U		0.000275	0.00100	1	05/02/2017 15:44	WG975500
Carbon tetrachloride	U		0.000379	0.00100	1	05/02/2017 15:44	WG975500
Chlorobenzene	U		0.000348	0.00100	1	05/02/2017 15:44	WG975500
Chlorodibromomethane	U		0.000327	0.00100	1	05/02/2017 15:44	WG975500
Chloroethane	U		0.000453	0.00500	1	05/02/2017 15:44	WG975500
Chloroform	U		0.000324	0.00500	1	05/02/2017 15:44	WG975500
Chloromethane	U		0.000276	0.00250	1	05/02/2017 15:44	WG975500
1,2-Dibromoethane	U		0.000381	0.00100	1	05/02/2017 15:44	WG975500
1,1-Dichloroethane	U		0.000259	0.00100	1	05/02/2017 15:44	WG975500
1,2-Dichloroethane	U		0.000361	0.00100	1	05/02/2017 15:44	WG975500
1,1-Dichloroethene	U		0.000398	0.00100	1	05/02/2017 15:44	WG975500
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	05/02/2017 15:44	WG975500
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	05/02/2017 15:44	WG975500
1,2-Dichloropropane	U		0.000306	0.00100	1	05/02/2017 15:44	WG975500
cis-1,3-Dichloropropene	U		0.000418	0.00100	1	05/02/2017 15:44	WG975500
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	05/02/2017 15:44	WG975500
Ethylbenzene	U		0.000384	0.00100	1	05/02/2017 15:44	WG975500
Isopropylbenzene	U		0.000326	0.00100	1	05/02/2017 15:44	WG975500
p-Isopropyltoluene	U		0.000350	0.00100	1	05/02/2017 15:44	WG975500
2-Butanone (MEK)	U		0.00393	0.0100	1	05/02/2017 15:44	WG975500
2-Hexanone	U		0.00382	0.0100	1	05/02/2017 15:44	WG975500
Methylene Chloride	U		0.00100	0.00500	1	05/02/2017 15:44	WG975500
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	05/02/2017 15:44	WG975500
Methyl tert-butyl ether	U		0.000367	0.00100	1	05/02/2017 15:44	WG975500
Naphthalene	U		0.00100	0.00500	1	05/02/2017 15:44	WG975500
n-Propylbenzene	U		0.000349	0.00100	1	05/02/2017 15:44	WG975500
Styrene	U		0.000307	0.00100	1	05/02/2017 15:44	WG975500
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	05/02/2017 15:44	WG975500
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	05/02/2017 15:44	WG975500
Tetrachloroethene	U		0.000372	0.00100	1	05/02/2017 15:44	WG975500
Toluene	U		0.000412	0.00100	1	05/02/2017 15:44	WG975500
1,1,1-Trichloroethane	U		0.000319	0.00100	1	05/02/2017 15:44	WG975500
1,1,2-Trichloroethane	U		0.000383	0.00100	1	05/02/2017 15:44	WG975500
Trichloroethene	U		0.000398	0.00100	1	05/02/2017 15:44	WG975500
1,2,4-Trimethylbenzene	U		0.000373	0.00100	1	05/02/2017 15:44	WG975500
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	05/02/2017 15:44	WG975500
Vinyl chloride	U		0.000259	0.00100	1	05/02/2017 15:44	WG975500
o-Xylene	U		0.000341	0.00100	1	05/02/2017 15:44	WG975500
m&p-Xylene	U		0.000719	0.00200	1	05/02/2017 15:44	WG975500
Xylenes, Total	U		0.00106	0.00300	1	05/02/2017 15:44	WG975500
(S) Toluene-d8	*92.8*			*80.0-120*		*05/02/2017 15:44*	WG975500

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

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

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
(S) Dibromofluoromethane	*80.8*			*76.0-123*		*05/02/2017 15:44*	WG975500
(S) 4-Bromofluorobenzene	*94.6*			*80.0-120*		*05/02/2017 15:44*	WG975500

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	0.0947	J	0.0247	0.100	1	05/05/2017 19:22	WG975556
(S) o-Terphenyl	*57.9*			*31.0-160*		*05/05/2017 19:22*	WG975556

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Dissolved Solids	2890		2.82	10.0	1	05/02/2017 11:45	WG975502

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	0.381		0.0197	0.100	1	05/02/2017 14:20	WG975587

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	237		2.60	50.0	50	05/01/2017 10:40	WG975327
Fluoride	1.88		0.00990	0.100	1	05/01/2017 09:38	WG975327
Sulfate	1620		3.87	250	50	05/01/2017 10:40	WG975327

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.00244		0.000250	0.00200	1	05/04/2017 19:09	WG975081
Arsenic,Dissolved	0.00250		0.000250	0.00200	1	05/02/2017 05:35	WG975070
Barium	0.0107		0.000360	0.00500	1	05/04/2017 19:09	WG975081
Barium,Dissolved	0.0125		0.000360	0.00500	1	05/02/2017 05:35	WG975070
Calcium	381		0.0460	1.00	1	05/04/2017 19:09	WG975081
Chromium	U		0.000540	0.00200	1	05/04/2017 19:09	WG975081
Chromium,Dissolved	U		0.000540	0.00200	1	05/02/2017 05:35	WG975070
Iron	U		0.0150	0.100	1	05/04/2017 19:09	WG975081
Iron,Dissolved	U		0.0150	0.100	1	05/02/2017 05:35	WG975070
Lead	U		0.000240	0.00200	1	05/05/2017 11:51	WG975081
Lead,Dissolved	U		0.000240	0.00200	1	05/02/2017 05:35	WG975070
Manganese	0.0824		0.000250	0.00500	1	05/04/2017 19:09	WG975081
Manganese,Dissolved	0.0929		0.000250	0.00500	1	05/02/2017 05:35	WG975070
Potassium	4.60		0.0370	1.00	1	05/04/2017 19:09	WG975081
Selenium	0.00275		0.000380	0.00200	1	05/05/2017 02:22	WG975081
Selenium,Dissolved	0.00331		0.000380	0.00200	1	05/02/2017 05:35	WG975070
Sodium	165		0.110	1.00	1	05/04/2017 19:09	WG975081

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		0.0100	0.0500	1	05/02/2017 15:59	WG975500
Benzene	U		0.000331	0.00100	1	05/02/2017 15:59	WG975500
Bromodichloromethane	U		0.000380	0.00100	1	05/02/2017 15:59	WG975500
Bromoform	U		0.000469	0.00100	1	05/02/2017 15:59	WG975500
Bromomethane	U		0.000866	0.00500	1	05/02/2017 15:59	WG975500
n-Butylbenzene	U		0.000361	0.00100	1	05/02/2017 15:59	WG975500
sec-Butylbenzene	U		0.000365	0.00100	1	05/02/2017 15:59	WG975500
Carbon disulfide	U		0.000275	0.00100	1	05/02/2017 15:59	WG975500
Carbon tetrachloride	U		0.000379	0.00100	1	05/02/2017 15:59	WG975500
Chlorobenzene	U		0.000348	0.00100	1	05/02/2017 15:59	WG975500
Chlorodibromomethane	U		0.000327	0.00100	1	05/02/2017 15:59	WG975500
Chloroethane	U		0.000453	0.00500	1	05/02/2017 15:59	WG975500
Chloroform	U		0.000324	0.00500	1	05/02/2017 15:59	WG975500
Chloromethane	U		0.000276	0.00250	1	05/02/2017 15:59	WG975500
1,2-Dibromoethane	U		0.000381	0.00100	1	05/02/2017 15:59	WG975500
1,1-Dichloroethane	U		0.000259	0.00100	1	05/02/2017 15:59	WG975500

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
1,2-Dichloroethane	U		0.000361	0.00100	1	05/02/2017 15:59	WG975500
1,1-Dichloroethene	U		0.000398	0.00100	1	05/02/2017 15:59	WG975500
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	05/02/2017 15:59	WG975500
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	05/02/2017 15:59	WG975500
1,2-Dichloropropane	U		0.000306	0.00100	1	05/02/2017 15:59	WG975500
cis-1,3-Dichloropropene	U		0.000418	0.00100	1	05/02/2017 15:59	WG975500
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	05/02/2017 15:59	WG975500
Ethylbenzene	U		0.000384	0.00100	1	05/02/2017 15:59	WG975500
Isopropylbenzene	U		0.000326	0.00100	1	05/02/2017 15:59	WG975500
p-Isopropyltoluene	U		0.000350	0.00100	1	05/02/2017 15:59	WG975500
2-Butanone (MEK)	U		0.00393	0.0100	1	05/02/2017 15:59	WG975500
2-Hexanone	U		0.00382	0.0100	1	05/02/2017 15:59	WG975500
Methylene Chloride	U		0.00100	0.00500	1	05/02/2017 15:59	WG975500
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	05/02/2017 15:59	WG975500
Methyl tert-butyl ether	U		0.000367	0.00100	1	05/02/2017 15:59	WG975500
Naphthalene	U		0.00100	0.00500	1	05/02/2017 15:59	WG975500
n-Propylbenzene	U		0.000349	0.00100	1	05/02/2017 15:59	WG975500
Styrene	U		0.000307	0.00100	1	05/02/2017 15:59	WG975500
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	05/02/2017 15:59	WG975500
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	05/02/2017 15:59	WG975500
Tetrachloroethene	U		0.000372	0.00100	1	05/02/2017 15:59	WG975500
Toluene	U		0.000412	0.00100	1	05/02/2017 15:59	WG975500
1,1,1-Trichloroethane	U		0.000319	0.00100	1	05/02/2017 15:59	WG975500
1,1,2-Trichloroethane	U		0.000383	0.00100	1	05/02/2017 15:59	WG975500
Trichloroethene	U		0.000398	0.00100	1	05/02/2017 15:59	WG975500
1,2,4-Trimethylbenzene	U		0.000373	0.00100	1	05/02/2017 15:59	WG975500
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	05/02/2017 15:59	WG975500
Vinyl chloride	U		0.000259	0.00100	1	05/02/2017 15:59	WG975500
o-Xylene	U		0.000341	0.00100	1	05/02/2017 15:59	WG975500
m&p-Xylene	U		0.000719	0.00200	1	05/02/2017 15:59	WG975500
Xylenes, Total	U		0.00106	0.00300	1	05/02/2017 15:59	WG975500
(S) Toluene-d8	*93.9*			*80.0-120*		*05/02/2017 15:59*	WG975500
(S) Dibromofluoromethane	*81.8*			*76.0-123*		*05/02/2017 15:59*	WG975500
(S) 4-Bromofluorobenzene	*93.6*			*80.0-120*		*05/02/2017 15:59*	WG975500

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	0.138		0.0247	0.100	1	05/05/2017 19:39	WG975556
(S) o-Terphenyl	*58.6*			*31.0-160*		*05/05/2017 19:39*	WG975556

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Dissolved Solids	2150		2.82	10.0	1	05/02/2017 11:45	WG975502

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	1.22		0.0197	0.100	1	05/02/2017 14:21	WG975587

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	138		2.60	50.0	50	05/01/2017 10:55	WG975327
Fluoride	1.29		0.00990	0.100	1	05/01/2017 09:53	WG975327
Sulfate	1550		3.87	250	50	05/01/2017 10:55	WG975327

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.00216		0.000250	0.00200	1	05/04/2017 19:12	WG975081
Arsenic,Dissolved	0.00212		0.000250	0.00200	1	05/02/2017 05:39	WG975070
Barium	0.0153		0.000360	0.00500	1	05/04/2017 19:12	WG975081
Barium,Dissolved	0.0182		0.000360	0.00500	1	05/02/2017 05:39	WG975070
Calcium	410		0.0460	1.00	1	05/04/2017 19:12	WG975081
Chromium	U		0.000540	0.00200	1	05/04/2017 19:12	WG975081
Chromium,Dissolved	U		0.000540	0.00200	1	05/02/2017 05:39	WG975070
Iron	U		0.0150	0.100	1	05/04/2017 19:12	WG975081
Iron,Dissolved	U		0.0150	0.100	1	05/02/2017 05:39	WG975070
Lead	U		0.000240	0.00200	1	05/05/2017 11:55	WG975081
Lead,Dissolved	0.000708	J	0.000240	0.00200	1	05/02/2017 05:39	WG975070
Manganese	0.0158		0.000250	0.00500	1	05/04/2017 19:12	WG975081
Manganese,Dissolved	0.0173		0.000250	0.00500	1	05/02/2017 05:39	WG975070
Potassium	8.43		0.0370	1.00	1	05/04/2017 19:12	WG975081
Selenium	0.00706		0.000380	0.00200	1	05/05/2017 02:26	WG975081
Selenium,Dissolved	0.00708		0.000380	0.00200	1	05/02/2017 05:39	WG975070
Sodium	136		0.110	1.00	1	05/04/2017 19:12	WG975081

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		0.0100	0.0500	1	05/02/2017 16:13	WG975500
Benzene	U		0.000331	0.00100	1	05/02/2017 16:13	WG975500
Bromodichloromethane	U		0.000380	0.00100	1	05/02/2017 16:13	WG975500
Bromoform	U		0.000469	0.00100	1	05/02/2017 16:13	WG975500
Bromomethane	U		0.000866	0.00500	1	05/02/2017 16:13	WG975500
n-Butylbenzene	U		0.000361	0.00100	1	05/02/2017 16:13	WG975500
sec-Butylbenzene	U		0.000365	0.00100	1	05/02/2017 16:13	WG975500
Carbon disulfide	U		0.000275	0.00100	1	05/02/2017 16:13	WG975500
Carbon tetrachloride	U		0.000379	0.00100	1	05/02/2017 16:13	WG975500
Chlorobenzene	U		0.000348	0.00100	1	05/02/2017 16:13	WG975500
Chlorodibromomethane	U		0.000327	0.00100	1	05/02/2017 16:13	WG975500
Chloroethane	U		0.000453	0.00500	1	05/02/2017 16:13	WG975500
Chloroform	U		0.000324	0.00500	1	05/02/2017 16:13	WG975500
Chloromethane	U		0.000276	0.00250	1	05/02/2017 16:13	WG975500
1,2-Dibromoethane	U		0.000381	0.00100	1	05/02/2017 16:13	WG975500
1,1-Dichloroethane	U		0.000259	0.00100	1	05/02/2017 16:13	WG975500

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		0.000361	0.00100	1	05/02/2017 16:13	WG975500
1,1-Dichloroethene	U		0.000398	0.00100	1	05/02/2017 16:13	WG975500
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	05/02/2017 16:13	WG975500
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	05/02/2017 16:13	WG975500
1,2-Dichloropropane	U		0.000306	0.00100	1	05/02/2017 16:13	WG975500
cis-1,3-Dichloropropene	U		0.000418	0.00100	1	05/02/2017 16:13	WG975500
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	05/02/2017 16:13	WG975500
Ethylbenzene	U		0.000384	0.00100	1	05/02/2017 16:13	WG975500
Isopropylbenzene	U		0.000326	0.00100	1	05/02/2017 16:13	WG975500
p-Isopropyltoluene	U		0.000350	0.00100	1	05/02/2017 16:13	WG975500
2-Butanone (MEK)	U		0.00393	0.0100	1	05/02/2017 16:13	WG975500
2-Hexanone	U		0.00382	0.0100	1	05/02/2017 16:13	WG975500
Methylene Chloride	U		0.00100	0.00500	1	05/02/2017 16:13	WG975500
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	05/02/2017 16:13	WG975500
Methyl tert-butyl ether	U		0.000367	0.00100	1	05/02/2017 16:13	WG975500
Naphthalene	U		0.00100	0.00500	1	05/02/2017 16:13	WG975500
n-Propylbenzene	U		0.000349	0.00100	1	05/02/2017 16:13	WG975500
Styrene	U		0.000307	0.00100	1	05/02/2017 16:13	WG975500
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	05/02/2017 16:13	WG975500
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	05/02/2017 16:13	WG975500
Tetrachloroethene	U		0.000372	0.00100	1	05/02/2017 16:13	WG975500
Toluene	U		0.000412	0.00100	1	05/02/2017 16:13	WG975500
1,1,1-Trichloroethane	U		0.000319	0.00100	1	05/02/2017 16:13	WG975500
1,1,2-Trichloroethane	U		0.000383	0.00100	1	05/02/2017 16:13	WG975500
Trichloroethene	U		0.000398	0.00100	1	05/02/2017 16:13	WG975500
1,2,4-Trimethylbenzene	U		0.000373	0.00100	1	05/02/2017 16:13	WG975500
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	05/02/2017 16:13	WG975500
Vinyl chloride	U		0.000259	0.00100	1	05/02/2017 16:13	WG975500
o-Xylene	U		0.000341	0.00100	1	05/02/2017 16:13	WG975500
m&p-Xylene	U		0.000719	0.00200	1	05/02/2017 16:13	WG975500
Xylenes, Total	U		0.00106	0.00300	1	05/02/2017 16:13	WG975500
(S) Toluene-d8	*93.7*			*80.0-120*		*05/02/2017 16:13*	WG975500
(S) Dibromofluoromethane	*80.1*			*76.0-123*		*05/02/2017 16:13*	WG975500
(S) 4-Bromofluorobenzene	*93.4*			*80.0-120*		*05/02/2017 16:13*	WG975500

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	0.0992	J	0.0247	0.100	1	05/05/2017 19:56	WG975556
(S) o-Terphenyl	*56.6*			*31.0-160*		*05/05/2017 19:56*	WG975556

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Dissolved Solids	3600		2.82	10.0	1	05/02/2017 11:45	WG975502

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	4.77		0.197	1.00	10	05/02/2017 14:22	WG975587

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	394		2.60	50.0	50	05/01/2017 12:12	WG975327
Fluoride	3.97		0.00990	0.100	1	05/01/2017 11:41	WG975327
Sulfate	2170		3.87	250	50	05/01/2017 12:12	WG975327

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.00657		0.000250	0.00200	1	05/04/2017 19:16	WG975081
Arsenic,Dissolved	0.00684		0.000250	0.00200	1	05/02/2017 05:42	WG975070
Barium	0.0145		0.000360	0.00500	1	05/04/2017 19:16	WG975081
Barium,Dissolved	0.0160		0.000360	0.00500	1	05/02/2017 05:42	WG975070
Calcium	550		0.0460	1.00	1	05/04/2017 19:16	WG975081
Chromium	0.00102	J	0.000540	0.00200	1	05/04/2017 19:16	WG975081
Chromium,Dissolved	U		0.000540	0.00200	1	05/02/2017 05:42	WG975070
Iron	U		0.0150	0.100	1	05/04/2017 19:16	WG975081
Iron,Dissolved	U		0.0150	0.100	1	05/02/2017 05:42	WG975070
Lead	U		0.000240	0.00200	1	05/05/2017 12:07	WG975081
Lead,Dissolved	U		0.000240	0.00200	1	05/02/2017 05:42	WG975070
Manganese	0.0420		0.000250	0.00500	1	05/04/2017 19:16	WG975081
Manganese,Dissolved	0.0452		0.000250	0.00500	1	05/02/2017 05:42	WG975070
Potassium	12.2		0.0370	1.00	1	05/04/2017 19:16	WG975081
Selenium	0.0534		0.000380	0.00200	1	05/05/2017 02:30	WG975081
Selenium,Dissolved	0.0559		0.000380	0.00200	1	05/02/2017 05:42	WG975070
Sodium	289		0.110	1.00	1	05/04/2017 19:16	WG975081

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		0.0100	0.0500	1	05/02/2017 16:28	WG975500
Benzene	U		0.000331	0.00100	1	05/02/2017 16:28	WG975500
Bromodichloromethane	U		0.000380	0.00100	1	05/02/2017 16:28	WG975500
Bromoform	U		0.000469	0.00100	1	05/02/2017 16:28	WG975500
Bromomethane	U		0.000866	0.00500	1	05/02/2017 16:28	WG975500
n-Butylbenzene	U		0.000361	0.00100	1	05/02/2017 16:28	WG975500
sec-Butylbenzene	U		0.000365	0.00100	1	05/02/2017 16:28	WG975500
Carbon disulfide	U		0.000275	0.00100	1	05/02/2017 16:28	WG975500
Carbon tetrachloride	U		0.000379	0.00100	1	05/02/2017 16:28	WG975500
Chlorobenzene	U		0.000348	0.00100	1	05/02/2017 16:28	WG975500
Chlorodibromomethane	U		0.000327	0.00100	1	05/02/2017 16:28	WG975500
Chloroethane	U		0.000453	0.00500	1	05/02/2017 16:28	WG975500
Chloroform	U		0.000324	0.00500	1	05/02/2017 16:28	WG975500
Chloromethane	U		0.000276	0.00250	1	05/02/2017 16:28	WG975500
1,2-Dibromoethane	U		0.000381	0.00100	1	05/02/2017 16:28	WG975500
1,1-Dichloroethane	U		0.000259	0.00100	1	05/02/2017 16:28	WG975500

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		0.000361	0.00100	1	05/02/2017 16:28	WG975500
1,1-Dichloroethene	U		0.000398	0.00100	1	05/02/2017 16:28	WG975500
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	05/02/2017 16:28	WG975500
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	05/02/2017 16:28	WG975500
1,2-Dichloropropane	U		0.000306	0.00100	1	05/02/2017 16:28	WG975500
cis-1,3-Dichloropropene	U		0.000418	0.00100	1	05/02/2017 16:28	WG975500
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	05/02/2017 16:28	WG975500
Ethylbenzene	U		0.000384	0.00100	1	05/02/2017 16:28	WG975500
Isopropylbenzene	U		0.000326	0.00100	1	05/02/2017 16:28	WG975500
p-Isopropyltoluene	U		0.000350	0.00100	1	05/02/2017 16:28	WG975500
2-Butanone (MEK)	U		0.00393	0.0100	1	05/02/2017 16:28	WG975500
2-Hexanone	U		0.00382	0.0100	1	05/02/2017 16:28	WG975500
Methylene Chloride	U		0.00100	0.00500	1	05/02/2017 16:28	WG975500
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	05/02/2017 16:28	WG975500
Methyl tert-butyl ether	U		0.000367	0.00100	1	05/02/2017 16:28	WG975500
Naphthalene	U		0.00100	0.00500	1	05/02/2017 16:28	WG975500
n-Propylbenzene	U		0.000349	0.00100	1	05/02/2017 16:28	WG975500
Styrene	U		0.000307	0.00100	1	05/02/2017 16:28	WG975500
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	05/02/2017 16:28	WG975500
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	05/02/2017 16:28	WG975500
Tetrachloroethene	U		0.000372	0.00100	1	05/02/2017 16:28	WG975500
Toluene	U		0.000412	0.00100	1	05/02/2017 16:28	WG975500
1,1,1-Trichloroethane	U		0.000319	0.00100	1	05/02/2017 16:28	WG975500
1,1,2-Trichloroethane	U		0.000383	0.00100	1	05/02/2017 16:28	WG975500
Trichloroethene	U		0.000398	0.00100	1	05/02/2017 16:28	WG975500
1,2,4-Trimethylbenzene	U		0.000373	0.00100	1	05/02/2017 16:28	WG975500
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	05/02/2017 16:28	WG975500
Vinyl chloride	U		0.000259	0.00100	1	05/02/2017 16:28	WG975500
o-Xylene	U		0.000341	0.00100	1	05/02/2017 16:28	WG975500
m&p-Xylene	U		0.000719	0.00200	1	05/02/2017 16:28	WG975500
Xylenes, Total	U		0.00106	0.00300	1	05/02/2017 16:28	WG975500
(S) Toluene-d8	*95.1*			*80.0-120*		*05/02/2017 16:28*	WG975500
(S) Dibromofluoromethane	*79.5*			*76.0-123*		*05/02/2017 16:28*	WG975500
(S) 4-Bromofluorobenzene	*95.1*			*80.0-120*		*05/02/2017 16:28*	WG975500

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	2.15		0.0247	0.100	1	05/05/2017 20:13	WG975556
(S) o-Terphenyl	*63.9*			*31.0-160*		*05/05/2017 20:13*	WG975556

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Dissolved Solids	4150		2.82	10.0	1	05/02/2017 11:45	WG975502

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	1.75		0.197	1.00	10	05/02/2017 14:27	WG975587

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	936		5.19	100	100	05/02/2017 23:54	WG975534
Fluoride	2.36	J6	0.00990	0.100	1	05/02/2017 23:02	WG975534
Sulfate	2900		7.74	500	100	05/02/2017 23:54	WG975534

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.00498		0.000250	0.00200	1	05/04/2017 19:20	WG975081
Arsenic,Dissolved	0.00513		0.000250	0.00200	1	05/02/2017 05:46	WG975070
Barium	0.0127		0.000360	0.00500	1	05/04/2017 19:20	WG975081
Barium,Dissolved	0.0164		0.000360	0.00500	1	05/02/2017 05:46	WG975070
Calcium	558		0.0460	1.00	1	05/04/2017 19:20	WG975081
Chromium	U		0.000540	0.00200	1	05/04/2017 19:20	WG975081
Chromium,Dissolved	U		0.000540	0.00200	1	05/02/2017 05:46	WG975070
Iron	U		0.0150	0.100	1	05/04/2017 19:20	WG975081
Iron,Dissolved	0.0333	J	0.0150	0.100	1	05/02/2017 05:46	WG975070
Lead	U		0.000240	0.00200	1	05/05/2017 12:10	WG975081
Lead,Dissolved	U		0.000240	0.00200	1	05/02/2017 05:46	WG975070
Manganese	0.00510		0.000250	0.00500	1	05/04/2017 19:20	WG975081
Manganese,Dissolved	0.00335	J	0.000250	0.00500	1	05/02/2017 05:46	WG975070
Potassium	9.27		0.0370	1.00	1	05/04/2017 19:20	WG975081
Selenium	0.0106		0.000380	0.00200	1	05/05/2017 02:33	WG975081
Selenium,Dissolved	0.0116		0.000380	0.00200	1	05/02/2017 05:46	WG975070
Sodium	689		0.110	1.00	1	05/04/2017 19:20	WG975081

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		0.0100	0.0500	1	05/02/2017 16:43	WG975500
Benzene	U		0.000331	0.00100	1	05/02/2017 16:43	WG975500
Bromodichloromethane	U		0.000380	0.00100	1	05/02/2017 16:43	WG975500
Bromoform	U		0.000469	0.00100	1	05/02/2017 16:43	WG975500
Bromomethane	U		0.000866	0.00500	1	05/02/2017 16:43	WG975500
n-Butylbenzene	U		0.000361	0.00100	1	05/02/2017 16:43	WG975500
sec-Butylbenzene	U		0.000365	0.00100	1	05/02/2017 16:43	WG975500
Carbon disulfide	U		0.000275	0.00100	1	05/02/2017 16:43	WG975500
Carbon tetrachloride	U		0.000379	0.00100	1	05/02/2017 16:43	WG975500
Chlorobenzene	U		0.000348	0.00100	1	05/02/2017 16:43	WG975500
Chlorodibromomethane	U		0.000327	0.00100	1	05/02/2017 16:43	WG975500
Chloroethane	U		0.000453	0.00500	1	05/02/2017 16:43	WG975500
Chloroform	U		0.000324	0.00500	1	05/02/2017 16:43	WG975500
Chloromethane	U		0.000276	0.00250	1	05/02/2017 16:43	WG975500
1,2-Dibromoethane	U		0.000381	0.00100	1	05/02/2017 16:43	WG975500
1,1-Dichloroethane	U		0.000259	0.00100	1	05/02/2017 16:43	WG975500

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
1,2-Dichloroethane	U		0.000361	0.00100	1	05/02/2017 16:43	WG975500
1,1-Dichloroethene	U		0.000398	0.00100	1	05/02/2017 16:43	WG975500
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	05/02/2017 16:43	WG975500
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	05/02/2017 16:43	WG975500
1,2-Dichloropropane	U		0.000306	0.00100	1	05/02/2017 16:43	WG975500
cis-1,3-Dichloropropene	U		0.000418	0.00100	1	05/02/2017 16:43	WG975500
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	05/02/2017 16:43	WG975500
Ethylbenzene	U		0.000384	0.00100	1	05/02/2017 16:43	WG975500
Isopropylbenzene	U		0.000326	0.00100	1	05/02/2017 16:43	WG975500
p-Isopropyltoluene	U		0.000350	0.00100	1	05/02/2017 16:43	WG975500
2-Butanone (MEK)	U		0.00393	0.0100	1	05/02/2017 16:43	WG975500
2-Hexanone	U		0.00382	0.0100	1	05/02/2017 16:43	WG975500
Methylene Chloride	U		0.00100	0.00500	1	05/02/2017 16:43	WG975500
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	05/02/2017 16:43	WG975500
Methyl tert-butyl ether	U		0.000367	0.00100	1	05/02/2017 16:43	WG975500
Naphthalene	U		0.00100	0.00500	1	05/02/2017 16:43	WG975500
n-Propylbenzene	U		0.000349	0.00100	1	05/02/2017 16:43	WG975500
Styrene	U		0.000307	0.00100	1	05/02/2017 16:43	WG975500
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	05/02/2017 16:43	WG975500
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	05/02/2017 16:43	WG975500
Tetrachloroethene	U		0.000372	0.00100	1	05/02/2017 16:43	WG975500
Toluene	U		0.000412	0.00100	1	05/02/2017 16:43	WG975500
1,1,1-Trichloroethane	U		0.000319	0.00100	1	05/02/2017 16:43	WG975500
1,1,2-Trichloroethane	U		0.000383	0.00100	1	05/02/2017 16:43	WG975500
Trichloroethene	U		0.000398	0.00100	1	05/02/2017 16:43	WG975500
1,2,4-Trimethylbenzene	U		0.000373	0.00100	1	05/02/2017 16:43	WG975500
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	05/02/2017 16:43	WG975500
Vinyl chloride	U		0.000259	0.00100	1	05/02/2017 16:43	WG975500
o-Xylene	U		0.000341	0.00100	1	05/02/2017 16:43	WG975500
m&p-Xylene	U		0.000719	0.00200	1	05/02/2017 16:43	WG975500
Xylenes, Total	U		0.00106	0.00300	1	05/02/2017 16:43	WG975500
(S) Toluene-d8	*94.7*			*80.0-120*		*05/02/2017 16:43*	WG975500
(S) Dibromofluoromethane	*80.6*			*76.0-123*		*05/02/2017 16:43*	WG975500
(S) 4-Bromofluorobenzene	*90.7*			*80.0-120*		*05/02/2017 16:43*	WG975500

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	0.275		0.0247	0.100	1	05/05/2017 20:30	WG975556
(S) o-Terphenyl	*62.0*			*31.0-160*		*05/05/2017 20:30*	WG975556

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Dissolved Solids	8730		2.82	10.0	1	05/03/2017 12:09	WG975503

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	0.580		0.0197	0.100	1	05/02/2017 14:28	WG975587

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	1580		2.60	50.0	50	05/04/2017 11:23	WG976223
Fluoride	1.75		0.00990	0.100	1	05/03/2017 00:47	WG975534
Sulfate	5120		7.74	500	100	05/03/2017 01:04	WG975534

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.00335		0.000250	0.00200	1	05/04/2017 19:46	WG975081
Arsenic,Dissolved	0.00330		0.000250	0.00200	1	05/02/2017 05:49	WG975070
Barium	0.00916		0.000360	0.00500	1	05/04/2017 19:46	WG975081
Barium,Dissolved	0.00987		0.000360	0.00500	1	05/02/2017 05:49	WG975070
Calcium	707		0.0460	1.00	1	05/04/2017 19:46	WG975081
Chromium	U		0.000540	0.00200	1	05/04/2017 19:46	WG975081
Chromium,Dissolved	U		0.000540	0.00200	1	05/02/2017 05:49	WG975070
Iron	U		0.0150	0.100	1	05/04/2017 19:46	WG975081
Iron,Dissolved	0.0359	J	0.0150	0.100	1	05/02/2017 05:49	WG975070
Lead	U		0.000240	0.00200	1	05/05/2017 12:14	WG975081
Lead,Dissolved	U		0.000240	0.00200	1	05/02/2017 05:49	WG975070
Manganese	0.560		0.000250	0.00500	1	05/04/2017 19:46	WG975081
Manganese,Dissolved	0.635		0.000250	0.00500	1	05/02/2017 05:49	WG975070
Potassium	5.90		0.0370	1.00	1	05/04/2017 19:46	WG975081
Selenium	0.0232		0.000380	0.00200	1	05/05/2017 02:37	WG975081
Selenium,Dissolved	0.0251		0.000380	0.00200	1	05/02/2017 05:49	WG975070
Sodium	760		0.110	1.00	1	05/04/2017 19:46	WG975081

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		0.0100	0.0500	1	05/02/2017 16:58	WG975500
Benzene	U		0.000331	0.00100	1	05/02/2017 16:58	WG975500
Bromodichloromethane	U		0.000380	0.00100	1	05/02/2017 16:58	WG975500
Bromoform	U		0.000469	0.00100	1	05/02/2017 16:58	WG975500
Bromomethane	U		0.000866	0.00500	1	05/02/2017 16:58	WG975500
n-Butylbenzene	U		0.000361	0.00100	1	05/02/2017 16:58	WG975500
sec-Butylbenzene	U		0.000365	0.00100	1	05/02/2017 16:58	WG975500
Carbon disulfide	U		0.000275	0.00100	1	05/02/2017 16:58	WG975500
Carbon tetrachloride	U		0.000379	0.00100	1	05/02/2017 16:58	WG975500
Chlorobenzene	U		0.000348	0.00100	1	05/02/2017 16:58	WG975500
Chlorodibromomethane	U		0.000327	0.00100	1	05/02/2017 16:58	WG975500
Chloroethane	U		0.000453	0.00500	1	05/02/2017 16:58	WG975500
Chloroform	U		0.000324	0.00500	1	05/02/2017 16:58	WG975500
Chloromethane	U		0.000276	0.00250	1	05/02/2017 16:58	WG975500
1,2-Dibromoethane	U		0.000381	0.00100	1	05/02/2017 16:58	WG975500
1,1-Dichloroethane	U		0.000259	0.00100	1	05/02/2017 16:58	WG975500

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
1,2-Dichloroethane	U		0.000361	0.00100	1	05/02/2017 16:58	WG975500
1,1-Dichloroethene	U		0.000398	0.00100	1	05/02/2017 16:58	WG975500
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	05/02/2017 16:58	WG975500
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	05/02/2017 16:58	WG975500
1,2-Dichloropropane	U		0.000306	0.00100	1	05/02/2017 16:58	WG975500
cis-1,3-Dichloropropene	U		0.000418	0.00100	1	05/02/2017 16:58	WG975500
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	05/02/2017 16:58	WG975500
Ethylbenzene	U		0.000384	0.00100	1	05/02/2017 16:58	WG975500
Isopropylbenzene	U		0.000326	0.00100	1	05/02/2017 16:58	WG975500
p-Isopropyltoluene	U		0.000350	0.00100	1	05/02/2017 16:58	WG975500
2-Butanone (MEK)	U		0.00393	0.0100	1	05/02/2017 16:58	WG975500
2-Hexanone	U		0.00382	0.0100	1	05/02/2017 16:58	WG975500
Methylene Chloride	U		0.00100	0.00500	1	05/02/2017 16:58	WG975500
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	05/02/2017 16:58	WG975500
Methyl tert-butyl ether	U		0.000367	0.00100	1	05/02/2017 16:58	WG975500
Naphthalene	U		0.00100	0.00500	1	05/02/2017 16:58	WG975500
n-Propylbenzene	U		0.000349	0.00100	1	05/02/2017 16:58	WG975500
Styrene	U		0.000307	0.00100	1	05/02/2017 16:58	WG975500
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	05/02/2017 16:58	WG975500
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	05/02/2017 16:58	WG975500
Tetrachloroethene	U		0.000372	0.00100	1	05/02/2017 16:58	WG975500
Toluene	U		0.000412	0.00100	1	05/02/2017 16:58	WG975500
1,1,1-Trichloroethane	U		0.000319	0.00100	1	05/02/2017 16:58	WG975500
1,1,2-Trichloroethane	U		0.000383	0.00100	1	05/02/2017 16:58	WG975500
Trichloroethene	U		0.000398	0.00100	1	05/02/2017 16:58	WG975500
1,2,4-Trimethylbenzene	U		0.000373	0.00100	1	05/02/2017 16:58	WG975500
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	05/02/2017 16:58	WG975500
Vinyl chloride	U		0.000259	0.00100	1	05/02/2017 16:58	WG975500
o-Xylene	U		0.000341	0.00100	1	05/02/2017 16:58	WG975500
m&p-Xylene	U		0.000719	0.00200	1	05/02/2017 16:58	WG975500
Xylenes, Total	U		0.00106	0.00300	1	05/02/2017 16:58	WG975500
(S) Toluene-d8	*93.6*			*80.0-120*		*05/02/2017 16:58*	WG975500
(S) Dibromofluoromethane	*80.5*			*76.0-123*		*05/02/2017 16:58*	WG975500
(S) 4-Bromofluorobenzene	*92.5*			*80.0-120*		*05/02/2017 16:58*	WG975500

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	0.0773	J	0.0247	0.100	1	05/05/2017 22:45	WG975556
(S) o-Terphenyl	*56.3*			*31.0-160*		*05/05/2017 22:45*	WG975556

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Dissolved Solids	3930		2.82	10.0	1	05/03/2017 13:18	WG975907

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	0.206		0.0197	0.100	1	05/02/2017 14:29	WG975587

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	315		5.19	100	100	05/02/2017 19:16	WG975534
Fluoride	1.70		0.00990	0.100	1	05/02/2017 18:58	WG975534
Sulfate	2420		7.74	500	100	05/02/2017 19:16	WG975534

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.00266		0.000250	0.00200	1	05/04/2017 19:50	WG975081
Arsenic,Dissolved	0.00247		0.000250	0.00200	1	05/02/2017 04:16	WG975070
Barium	0.0134		0.000360	0.00500	1	05/04/2017 19:50	WG975081
Barium,Dissolved	0.0124		0.000360	0.00500	1	05/02/2017 04:16	WG975070
Calcium	588		0.0460	1.00	1	05/04/2017 19:50	WG975081
Chromium	U		0.000540	0.00200	1	05/04/2017 19:50	WG975081
Chromium,Dissolved	U		0.000540	0.00200	1	05/02/2017 04:16	WG975070
Iron	0.167		0.0150	0.100	1	05/04/2017 19:50	WG975081
Iron,Dissolved	U		0.0150	0.100	1	05/02/2017 04:16	WG975070
Lead	0.000538	J	0.000240	0.00200	1	05/05/2017 12:17	WG975081
Lead,Dissolved	U		0.000240	0.00200	1	05/02/2017 04:16	WG975070
Manganese	0.162		0.000250	0.00500	1	05/04/2017 19:50	WG975081
Manganese,Dissolved	0.131		0.000250	0.00500	1	05/02/2017 04:16	WG975070
Potassium	1.30		0.0370	1.00	1	05/04/2017 19:50	WG975081
Selenium	0.00199	J	0.000380	0.00200	1	05/05/2017 02:48	WG975081
Selenium,Dissolved	0.00193	J	0.000380	0.00200	1	05/02/2017 04:16	WG975070
Sodium	182		0.110	1.00	1	05/04/2017 19:50	WG975081

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		0.0100	0.0500	1	05/02/2017 17:12	WG975500
Benzene	U		0.000331	0.00100	1	05/02/2017 17:12	WG975500
Bromodichloromethane	U		0.000380	0.00100	1	05/02/2017 17:12	WG975500
Bromoform	U		0.000469	0.00100	1	05/02/2017 17:12	WG975500
Bromomethane	U		0.000866	0.00500	1	05/02/2017 17:12	WG975500
n-Butylbenzene	U		0.000361	0.00100	1	05/02/2017 17:12	WG975500
sec-Butylbenzene	U		0.000365	0.00100	1	05/02/2017 17:12	WG975500
Carbon disulfide	U		0.000275	0.00100	1	05/02/2017 17:12	WG975500
Carbon tetrachloride	U		0.000379	0.00100	1	05/02/2017 17:12	WG975500
Chlorobenzene	U		0.000348	0.00100	1	05/02/2017 17:12	WG975500
Chlorodibromomethane	U		0.000327	0.00100	1	05/02/2017 17:12	WG975500
Chloroethane	U		0.000453	0.00500	1	05/02/2017 17:12	WG975500
Chloroform	U		0.000324	0.00500	1	05/02/2017 17:12	WG975500
Chloromethane	U		0.000276	0.00250	1	05/02/2017 17:12	WG975500
1,2-Dibromoethane	U		0.000381	0.00100	1	05/02/2017 17:12	WG975500
1,1-Dichloroethane	U		0.000259	0.00100	1	05/02/2017 17:12	WG975500

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		0.000361	0.00100	1	05/02/2017 17:12	WG975500
1,1-Dichloroethene	U		0.000398	0.00100	1	05/02/2017 17:12	WG975500
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	05/02/2017 17:12	WG975500
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	05/02/2017 17:12	WG975500
1,2-Dichloropropane	U		0.000306	0.00100	1	05/02/2017 17:12	WG975500
cis-1,3-Dichloropropene	U		0.000418	0.00100	1	05/02/2017 17:12	WG975500
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	05/02/2017 17:12	WG975500
Ethylbenzene	U		0.000384	0.00100	1	05/02/2017 17:12	WG975500
Isopropylbenzene	U		0.000326	0.00100	1	05/02/2017 17:12	WG975500
p-Isopropyltoluene	U		0.000350	0.00100	1	05/02/2017 17:12	WG975500
2-Butanone (MEK)	U		0.00393	0.0100	1	05/02/2017 17:12	WG975500
2-Hexanone	U		0.00382	0.0100	1	05/02/2017 17:12	WG975500
Methylene Chloride	U		0.00100	0.00500	1	05/02/2017 17:12	WG975500
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	05/02/2017 17:12	WG975500
Methyl tert-butyl ether	U		0.000367	0.00100	1	05/02/2017 17:12	WG975500
Naphthalene	U		0.00100	0.00500	1	05/02/2017 17:12	WG975500
n-Propylbenzene	U		0.000349	0.00100	1	05/02/2017 17:12	WG975500
Styrene	U		0.000307	0.00100	1	05/02/2017 17:12	WG975500
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	05/02/2017 17:12	WG975500
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	05/02/2017 17:12	WG975500
Tetrachloroethene	U		0.000372	0.00100	1	05/02/2017 17:12	WG975500
Toluene	U		0.000412	0.00100	1	05/02/2017 17:12	WG975500
1,1,1-Trichloroethane	U		0.000319	0.00100	1	05/02/2017 17:12	WG975500
1,1,2-Trichloroethane	U		0.000383	0.00100	1	05/02/2017 17:12	WG975500
Trichloroethene	U		0.000398	0.00100	1	05/02/2017 17:12	WG975500
1,2,4-Trimethylbenzene	U		0.000373	0.00100	1	05/02/2017 17:12	WG975500
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	05/02/2017 17:12	WG975500
Vinyl chloride	U		0.000259	0.00100	1	05/02/2017 17:12	WG975500
o-Xylene	U		0.000341	0.00100	1	05/02/2017 17:12	WG975500
m&p-Xylene	U		0.000719	0.00200	1	05/02/2017 17:12	WG975500
Xylenes, Total	U		0.00106	0.00300	1	05/02/2017 17:12	WG975500
(S) Toluene-d8	*93.6*			*80.0-120*		*05/02/2017 17:12*	WG975500
(S) Dibromofluoromethane	*82.7*			*76.0-123*		*05/02/2017 17:12*	WG975500
(S) 4-Bromofluorobenzene	*93.6*			*80.0-120*		*05/02/2017 17:12*	WG975500

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	0.0889	J	0.0494	0.200	2	05/05/2017 23:02	WG975556
(S) o-Terphenyl	*111*			*31.0-160*		*05/05/2017 23:02*	WG975556

Sample Narrative:

3511/8015 L905602-13 WG975556: Cannot run at lower dilution due to viscosity of extract

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		0.0100	0.0500	1	05/02/2017 11:51	WG975500
Benzene	U		0.000331	0.00100	1	05/02/2017 11:51	WG975500
Bromodichloromethane	U		0.000380	0.00100	1	05/02/2017 11:51	WG975500
Bromoform	U		0.000469	0.00100	1	05/02/2017 11:51	WG975500
Bromomethane	U		0.000866	0.00500	1	05/02/2017 11:51	WG975500
n-Butylbenzene	U		0.000361	0.00100	1	05/02/2017 11:51	WG975500
sec-Butylbenzene	U		0.000365	0.00100	1	05/02/2017 11:51	WG975500
Carbon disulfide	U		0.000275	0.00100	1	05/02/2017 11:51	WG975500
Carbon tetrachloride	U		0.000379	0.00100	1	05/02/2017 11:51	WG975500
Chlorobenzene	U		0.000348	0.00100	1	05/02/2017 11:51	WG975500
Chlorodibromomethane	U		0.000327	0.00100	1	05/02/2017 11:51	WG975500
Chloroethane	U		0.000453	0.00500	1	05/02/2017 11:51	WG975500
Chloroform	U		0.000324	0.00500	1	05/02/2017 11:51	WG975500
Chloromethane	U		0.000276	0.00250	1	05/02/2017 11:51	WG975500
1,2-Dibromoethane	U		0.000381	0.00100	1	05/02/2017 11:51	WG975500
1,1-Dichloroethane	U		0.000259	0.00100	1	05/02/2017 11:51	WG975500
1,2-Dichloroethane	U		0.000361	0.00100	1	05/02/2017 11:51	WG975500
1,1-Dichloroethene	U		0.000398	0.00100	1	05/02/2017 11:51	WG975500
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	05/02/2017 11:51	WG975500
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	05/02/2017 11:51	WG975500
1,2-Dichloropropane	U		0.000306	0.00100	1	05/02/2017 11:51	WG975500
cis-1,3-Dichloropropene	U		0.000418	0.00100	1	05/02/2017 11:51	WG975500
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	05/02/2017 11:51	WG975500
Ethylbenzene	U		0.000384	0.00100	1	05/02/2017 11:51	WG975500
Isopropylbenzene	U		0.000326	0.00100	1	05/02/2017 11:51	WG975500
p-Isopropyltoluene	U		0.000350	0.00100	1	05/02/2017 11:51	WG975500
2-Butanone (MEK)	U		0.00393	0.0100	1	05/02/2017 11:51	WG975500
2-Hexanone	U		0.00382	0.0100	1	05/02/2017 11:51	WG975500
Methylene Chloride	U		0.00100	0.00500	1	05/02/2017 11:51	WG975500
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	05/02/2017 11:51	WG975500
Methyl tert-butyl ether	U		0.000367	0.00100	1	05/02/2017 11:51	WG975500
Naphthalene	U		0.00100	0.00500	1	05/02/2017 11:51	WG975500
n-Propylbenzene	U		0.000349	0.00100	1	05/02/2017 11:51	WG975500
Styrene	U		0.000307	0.00100	1	05/02/2017 11:51	WG975500
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	05/02/2017 11:51	WG975500
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	05/02/2017 11:51	WG975500
Tetrachloroethene	U		0.000372	0.00100	1	05/02/2017 11:51	WG975500
Toluene	U		0.000412	0.00100	1	05/02/2017 11:51	WG975500
1,1,1-Trichloroethane	U		0.000319	0.00100	1	05/02/2017 11:51	WG975500
1,1,2-Trichloroethane	U		0.000383	0.00100	1	05/02/2017 11:51	WG975500
Trichloroethene	U		0.000398	0.00100	1	05/02/2017 11:51	WG975500
1,2,4-Trimethylbenzene	U		0.000373	0.00100	1	05/02/2017 11:51	WG975500
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	05/02/2017 11:51	WG975500
Vinyl chloride	U		0.000259	0.00100	1	05/02/2017 11:51	WG975500
o-Xylene	U		0.000341	0.00100	1	05/02/2017 11:51	WG975500
m&p-Xylene	U		0.000719	0.00200	1	05/02/2017 11:51	WG975500
Xylenes, Total	U		0.00106	0.00300	1	05/02/2017 11:51	WG975500
(S) Toluene-d8	*92.8*			*80.0-120*		*05/02/2017 11:51*	WG975500
(S) Dibromofluoromethane	*84.1*			*76.0-123*		*05/02/2017 11:51*	WG975500
(S) 4-Bromofluorobenzene	*95.5*			*80.0-120*		*05/02/2017 11:51*	WG975500

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Method Blank (MB)

(MB) R3215801-1 05/02/17 11:45

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Dissolved Solids	U		2.82	10.0

L905562-33 Original Sample (OS) • Duplicate (DUP)

(OS) L905562-33 05/02/17 11:45 • (DUP) R3215801-4 05/02/17 11:45

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Dissolved Solids	4210	4050	1	3.87		5

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

(LCS) R3215801-2 05/02/17 11:45 • (LCSD) R3215801-3 05/02/17 11:45

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 %
Dissolved Solids	8800	8380	8470	95.2	96.3	85.0-115			1.07	5

Method Blank (MB)

(MB) R3215908-1 05/03/17 12:09

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Dissolved Solids	U		2.82	10.0

L905602-12 Original Sample (OS) • Duplicate (DUP)

(OS) L905602-12 05/03/17 12:09 • (DUP) R3215908-4 05/03/17 12:09

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Dissolved Solids	8730	8810	1	0.912		5

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

(LCS) R3215908-2 05/03/17 12:09 • (LCSD) R3215908-3 05/03/17 12:09

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Dissolved Solids	8800	8670	8590	98.5	97.6	85.0-115			0.927	5

Method Blank (MB)

(MB) R3215860-1 05/03/17 13:18

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Dissolved Solids	U		2.82	10.0

L905645-02 Original Sample (OS) • Duplicate (DUP)

(OS) L905645-02 05/03/17 13:18 • (DUP) R3215860-4 05/03/17 13:18

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Dissolved Solids	1980	2080	1	4.94		5

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

(LCS) R3215860-2 05/03/17 13:18 • (LCSD) R3215860-3 05/03/17 13:18

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 %
Dissolved Solids	8800	8640	8600	98.2	97.7	85.0-115			0.464	5

Method Blank (MB)

(MB) R3215036-1 05/02/17 14:02

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	mg/l		mg/l	mg/l
Nitrate-Nitrite	U		0.0197	0.100

L905563-01 Original Sample (OS) • Duplicate (DUP)

(OS) L905563-01 05/02/17 14:05 • (DUP) R3215036-4 05/02/17 14:06

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	mg/l	mg/l		%		%
Nitrate-Nitrite	1.87	1.86	1	0		20

L905616-02 Original Sample (OS) • Duplicate (DUP)

(OS) L905616-02 05/02/17 14:31 • (DUP) R3215036-6 05/02/17 14:32

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	mg/l	mg/l		%		%
Nitrate-Nitrite	0.348	0.500	1	36	J3	20

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

(LCS) R3215036-2 05/02/17 14:03 • (LCSD) R3215036-3 05/02/17 14:04

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	mg/l	mg/l	mg/l	%	%	%			%	%
Nitrate-Nitrite	5.00	5.17	5.10	103	102	90-110			1	20

L905563-01 Original Sample (OS) • Matrix Spike (MS)

(OS) L905563-01 05/02/17 14:05 • (MS) R3215036-5 05/02/17 14:07

Analyte	Spike Amount	Original Result	MS Result	MS Rec.	Dilution	Rec. Limits	MS Qualifier
	mg/l	mg/l	mg/l	%		%	
Nitrate-Nitrite	5.00	1.87	6.68	96	1	90-110	

L905624-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L905624-01 05/02/17 14:33 • (MS) R3215036-7 05/02/17 14:34 • (MSD) R3215036-8 05/02/17 14:40

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
	mg/l	mg/l	mg/l	mg/l	%	%		%			%	%
Nitrate-Nitrite	5.00	1.02	5.76	5.81	95	96	1	90-110			1	20

Method Blank (MB)

(MB) R3214912-1 05/02/17 10:38

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	mg/l		mg/l	mg/l
Cyanide	U		0.0018	0.00500

L905561-02 Original Sample (OS) • Duplicate (DUP)

(OS) L905561-02 05/02/17 10:51 • (DUP) R3214912-6 05/02/17 10:52

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	mg/l	mg/l		%		%
Cyanide	ND	0.000	1	0		20

L905668-23 Original Sample (OS) • Duplicate (DUP)

(OS) L905668-23 05/02/17 11:03 • (DUP) R3214912-7 05/02/17 11:04

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	mg/l	mg/l		%		%
Cyanide	U	0.000	1	0		20

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

(LCS) R3214912-2 05/02/17 10:39 • (LCSD) R3214912-3 05/02/17 10:40

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	mg/l	mg/l	mg/l	%	%	%			%	%
Cyanide	0.100	0.105	0.0907	105	91	85-115			15	20

L905437-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L905437-02 05/02/17 10:44 • (MS) R3214912-4 05/02/17 10:45 • (MSD) R3214912-5 05/02/17 10:46

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
	mg/l	mg/l	mg/l	mg/l	%	%		%			%	%
Cyanide	0.100	ND	0.101	0.0997	101	100	1	75-125			1	20

Method Blank (MB)

(MB) R3214715-1 04/30/17 20:23

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	mg/l		mg/l	mg/l
Chloride	U		0.0519	1.00
Fluoride	U		0.0099	0.100
Sulfate	U		0.0774	5.00

L905562-35 Original Sample (OS) • Duplicate (DUP)

(OS) L905562-35 05/01/17 04:14 • (DUP) R3214715-5 05/01/17 04:30

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	mg/l	mg/l		%		%
Chloride	0.359	0.288	1	22	J P1	15
Fluoride	U	0.000	1	0		15
Sulfate	0.143	0.000	1	200	P1	15

L905602-10 Original Sample (OS) • Duplicate (DUP)

(OS) L905602-10 05/01/17 11:41 • (DUP) R3214715-8 05/01/17 11:57

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	mg/l	mg/l		%		%
Fluoride	3.97	3.99	1	0		15

L905602-10 Original Sample (OS) • Duplicate (DUP)

(OS) L905602-10 05/01/17 12:12 • (DUP) R3214715-9 05/01/17 12:28

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	mg/l	mg/l		%		%
Chloride	394	371	50	6		15
Sulfate	2170	2230	50	3		15

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

(LCS) R3214715-2 04/30/17 20:38 • (LCSD) R3214715-3 04/30/17 20:53

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	mg/l	mg/l	mg/l	%	%	%			%	%
Chloride	40.0	39.5	39.5	99	99	80-120			0	15
Fluoride	8.00	7.93	7.92	99	99	80-120			0	15
Sulfate	40.0	39.7	39.7	99	99	80-120			0	15

L905562-25 Original Sample (OS) • Matrix Spike (MS)

(OS) L905562-25 04/30/17 22:36 • (MS) R3214715-4 04/30/17 22:51

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Fluoride	5.00	1.58	6.42	97	1	80-120	

L905562-35 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L905562-35 05/01/17 04:14 • (MS) R3214715-6 05/01/17 04:45 • (MSD) R3214715-7 05/01/17 05:01

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 %
Chloride	50.0	0.359	51.6	51.3	102	102	1	80-120			1	15
Fluoride	5.00	U	5.24	5.19	105	104	1	80-120			1	15
Sulfate	50.0	0.143	51.8	51.5	103	103	1	80-120			0	15

Method Blank (MB)

(MB) R3215194-1 05/02/17 07:05

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Chloride	U		0.0519	1.00
Fluoride	U		0.0099	0.100
Sulfate	U		0.0774	5.00

L905307-17 Original Sample (OS) • Duplicate (DUP)

(OS) L905307-17 05/02/17 15:29 • (DUP) R3215194-4 05/02/17 15:47

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	78.9	78.8	1	0		15
Fluoride	1.59	1.59	1	0		15
Sulfate	U	0.000	1	0		15

L905645-04 Original Sample (OS) • Duplicate (DUP)

(OS) L905645-04 05/02/17 21:52 • (DUP) R3215194-6 05/02/17 22:27

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Fluoride	2.73	2.75	1	1		15

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

(LCS) R3215194-2 05/02/17 07:22 • (LCSD) R3215194-3 05/02/17 07:40

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Chloride	40.0	40.5	40.4	101	101	80-120			0	15
Fluoride	8.00	8.21	8.18	103	102	80-120			0	15
Sulfate	40.0	40.9	40.7	102	102	80-120			1	15

L905307-32 Original Sample (OS) • Matrix Spike (MS)

(OS) L905307-32 05/02/17 17:49 • (MS) R3215194-5 05/02/17 18:06

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Chloride	50.0	0.269	48.8	97	1	80-120	
Fluoride	5.00	U	4.97	99	1	80-120	
Sulfate	50.0	U	49.0	98	1	80-120	

L905602-11 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L905602-11 05/02/17 23:02 • (MS) R3215194-8 05/03/17 00:12 • (MSD) R3215194-9 05/03/17 00:29

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 %
Fluoride	5.00	2.36	6.24	6.30	78	79	1	80-120	J6	J6	1	15

Method Blank (MB)

(MB) R3215820-1 05/04/17 06:15

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	mg/l		mg/l	mg/l
Chloride	U		0.0519	1.00

L905651-08 Original Sample (OS) • Duplicate (DUP)

(OS) L905651-08 05/04/17 12:33 • (DUP) R3215820-4 05/04/17 13:25

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	mg/l	mg/l		%		%
Chloride	74.0	81.0	10	9		15

L905831-01 Original Sample (OS) • Duplicate (DUP)

(OS) L905831-01 05/04/17 21:33 • (DUP) R3215820-8 05/04/17 21:50

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	mg/l	mg/l		%		%
Chloride	3.27	3.13	1	4		15

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

(LCS) R3215820-2 05/04/17 06:33 • (LCSD) R3215820-3 05/04/17 06:50

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	mg/l	mg/l	mg/l	%	%	%			%	%
Chloride	40.0	40.3	40.1	101	100	80-120			0	15

L905847-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L905847-01 05/04/17 15:44 • (MS) R3215820-6 05/04/17 16:37 • (MSD) R3215820-7 05/04/17 16:54

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
	mg/l	mg/l	mg/l	mg/l	%	%		%			%	%
Chloride	50.0	1.49	52.4	52.7	102	102	1	80-120			1	15

Method Blank (MB)

(MB) R3215049-1 05/02/17 15:24

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	mg/l		mg/l	mg/l
Mercury	U		0.000049	0.000200

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

(LCS) R3215049-2 05/02/17 15:27 • (LCSD) R3215049-3 05/02/17 15:29

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	mg/l	mg/l	mg/l	%	%	%			%	%
Mercury	0.00300	0.00287	0.00282	96	94	80-120			2	20

L905668-17 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L905668-17 05/02/17 15:31 • (MS) R3215049-4 05/02/17 15:34 • (MSD) R3215049-5 05/02/17 15:36

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
	mg/l	mg/l	mg/l	mg/l	%	%		%			%	%
Mercury	0.00300	U	0.00270	0.00268	90	89	1	75-125			1	20

Method Blank (MB)

(MB) R3215266-1 05/03/17 11:29

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Mercury,Dissolved	U		0.000049	0.000200

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

(LCS) R3215266-2 05/03/17 11:31 • (LCSD) R3215266-3 05/03/17 11:33

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 %
Mercury,Dissolved	0.00300	0.00302	0.00300	101	100	80-120			1	20

L905940-17 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L905940-17 05/03/17 11:35 • (MS) R3215266-4 05/03/17 11:38 • (MSD) R3215266-5 05/03/17 11:40

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 %
Mercury,Dissolved	0.00300	ND	0.00309	0.00307	103	102	1	75-125			1	20

Method Blank (MB)

(MB) R3214900-1 05/02/17 04:05

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Arsenic,Dissolved	U		0.00025	0.00200
Barium,Dissolved	U		0.00036	0.00500
Cadmium,Dissolved	U		0.00016	0.00100
Chromium,Dissolved	U		0.00054	0.00200
Cobalt,Dissolved	U		0.00026	0.00200
Iron,Dissolved	U		0.015	0.100
Lead,Dissolved	U		0.00024	0.00200
Manganese,Dissolved	U		0.00025	0.00500
Nickel,Dissolved	U		0.00035	0.00200
Selenium,Dissolved	U		0.00038	0.00200
Uranium,Dissolved	U		0.00033	0.0100
Vanadium,Dissolved	U		0.00018	0.00500

Method Blank (MB)

(MB) R3215029-1 05/02/17 14:46

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Boron,Dissolved	U		0.0015	0.0200

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

(LCS) R3214900-2 05/02/17 04:09 • (LCSD) R3214900-3 05/02/17 04:12

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 %
Arsenic,Dissolved	0.0500	0.0489	0.0477	98	95	80-120			2	20
Barium,Dissolved	0.0500	0.0498	0.0462	100	92	80-120			8	20
Cadmium,Dissolved	0.0500	0.0519	0.0502	104	100	80-120			3	20
Chromium,Dissolved	0.0500	0.0501	0.0475	100	95	80-120			5	20
Cobalt,Dissolved	0.0500	0.0518	0.0494	104	99	80-120			5	20
Iron,Dissolved	5.00	5.02	4.78	100	96	80-120			5	20
Lead,Dissolved	0.0500	0.0502	0.0491	100	98	80-120			2	20
Manganese,Dissolved	0.0500	0.0522	0.0462	104	92	80-120			12	20
Nickel,Dissolved	0.0500	0.0507	0.0488	101	98	80-120			4	20
Selenium,Dissolved	0.0500	0.0483	0.0488	97	98	80-120			1	20
Uranium,Dissolved	0.0500	0.0497	0.0484	99	97	80-120			3	20
Vanadium,Dissolved	0.0500	0.0498	0.0477	100	95	80-120			4	20

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

(LCS) R3215029-2 05/02/17 14:49 • (LCSD) R3215029-3 05/02/17 14:53

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 %
Boron,Dissolved	0.0500	0.0443	0.0448	89	90	80-120			1	20

L905602-13 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L905602-13 05/02/17 04:16 • (MS) R3214900-5 05/02/17 04:23 • (MSD) R3214900-6 05/02/17 04:27

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 %
Arsenic,Dissolved	0.0500	0.00247	0.0515	0.0505	98	96	1	75-125			2	20
Barium,Dissolved	0.0500	0.0124	0.0638	0.0628	103	101	1	75-125			1	20
Cadmium,Dissolved	0.0500	U	0.0511	0.0514	102	103	1	75-125			0	20
Chromium,Dissolved	0.0500	U	0.0489	0.0493	98	99	1	75-125			1	20
Cobalt,Dissolved	0.0500	0.00539	0.0551	0.0544	99	98	1	75-125			1	20
Iron,Dissolved	5.00	U	4.93	4.92	99	98	1	75-125			0	20
Lead,Dissolved	0.0500	U	0.0491	0.0505	98	101	1	75-125			3	20
Manganese,Dissolved	0.0500	0.131	0.182	0.182	102	102	1	75-125			0	20
Nickel,Dissolved	0.0500	0.00730	0.0558	0.0562	97	98	1	75-125			1	20
Selenium,Dissolved	0.0500	0.00193	0.0511	0.0518	98	100	1	75-125			1	20
Uranium,Dissolved	0.0500	0.0294	0.0820	0.0837	105	109	1	75-125			2	20
Vanadium,Dissolved	0.0500	0.0300	0.0800	0.0801	100	100	1	75-125			0	20

Method Blank (MB)

(MB) R3215702-1 05/04/17 17:34

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Arsenic	U		0.00025	0.00200
Barium	U		0.00036	0.00500
Boron	U		0.0015	0.0200
Cadmium	U		0.00016	0.00100
Calcium	0.314	J	0.046	1.00
Chromium	U		0.00054	0.00200
Cobalt	U		0.00026	0.00200
Iron	U		0.015	0.100
Lead	U		0.00024	0.00200
Manganese	U		0.00025	0.00500
Nickel	U		0.00035	0.00200
Potassium	U		0.037	1.00
Selenium	U		0.00038	0.00200
Sodium	U		0.11	1.00
Uranium	U		0.00033	0.0100
Vanadium	U		0.00018	0.00500

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

(LCS) R3215702-2 05/04/17 17:38 • (LCSD) R3215702-3 05/04/17 17:42

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 %
Arsenic	0.0500	0.0489	0.0489	98	98	80-120			0	20
Barium	0.0500	0.0451	0.0452	90	90	80-120			0	20
Boron	0.0500	0.0450	0.0451	90	90	80-120			0	20
Cadmium	0.0500	0.0530	0.0533	106	107	80-120			1	20
Calcium	5.00	4.87	4.76	97	95	80-120			2	20
Chromium	0.0500	0.0520	0.0514	104	103	80-120			1	20
Cobalt	0.0500	0.0537	0.0534	107	107	80-120			1	20
Iron	5.00	5.15	5.06	103	101	80-120			2	20
Lead	0.0500	0.0492	0.0495	98	99	80-120			1	20
Manganese	0.0500	0.0480	0.0474	96	95	80-120			1	20
Nickel	0.0500	0.0532	0.0534	106	107	80-120			0	20
Potassium	5.00	4.99	4.88	100	98	80-120			2	20
Selenium	0.0500	0.0505	0.0525	101	105	80-120			4	20
Sodium	5.00	5.42	5.36	108	107	80-120			1	20
Uranium	0.0500	0.0498	0.0494	100	99	80-120			1	20
Vanadium	0.0500	0.0504	0.0503	101	101	80-120			0	20

L905602-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L905602-01 05/04/17 17:46 • (MS) R3215702-5 05/04/17 17:53 • (MSD) R3215702-6 05/04/17 17:56

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	0.00300	0.0516	0.0512	97	96	1	75-125			1	20
Barium	0.0500	0.0121	0.0615	0.0606	99	97	1	75-125			2	20
Boron	0.0500	0.216	0.260	0.258	89	85	1	75-125			1	20
Cadmium	0.0500	U	0.0497	0.0500	99	100	1	75-125			0	20
Calcium	5.00	484	494	484	193	0	1	75-125	V	V	2	20
Chromium	0.0500	0.000842	0.0493	0.0485	97	95	1	75-125			2	20
Cobalt	0.0500	0.00185	0.0513	0.0503	99	97	1	75-125			2	20
Potassium	5.00	5.11	9.87	9.75	95	93	1	75-125			1	20
Iron	5.00	0.0157	4.84	4.73	96	94	1	75-125			2	20
Lead	0.0500	U	0.0489	0.0489	98	98	1	75-125			0	20
Manganese	0.0500	0.507	0.573	0.558	131	102	1	75-125	V		3	20
Nickel	0.0500	0.00272	0.0500	0.0492	95	93	1	75-125			2	20
Selenium	0.0500	0.00254	0.0545	0.0548	104	105	1	75-125			0	20
Sodium	5.00	1480	1460	1450	0	0	1	75-125	E V	E V	0	20
Uranium	0.0500	0.00903	0.0617	0.0617	105	105	1	75-125			0	20
Vanadium	0.0500	0.0101	0.0598	0.0589	99	98	1	75-125			1	20

Method Blank (MB)

(MB) R3215819-3 04/30/17 19:38

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	mg/l		mg/l	mg/l
TPH (GC/FID) Low Fraction	U		0.0314	0.100
(S) a,a,a-Trifluorotoluene(FID)	*99.9*			*77.0-122*

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

(LCS) R3215819-1 04/30/17 18:25 • (LCSD) R3215819-2 04/30/17 18:50

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	mg/l	mg/l	mg/l	%	%	%			%	%
TPH (GC/FID) Low Fraction	5.50	5.42	5.17	98.5	93.9	71.0-136			4.75	20
(S) a,a,a-Trifluorotoluene(FID)				*103*	*103*	*77.0-122*				

L905602-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L905602-03 04/30/17 21:14 • (MS) R3215819-4 04/30/17 20:02 • (MSD) R3215819-5 04/30/17 20:26

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
	mg/l	mg/l	mg/l	mg/l	%	%		%			%	%
TPH (GC/FID) Low Fraction	5.50	0.585	2.84	2.81	41.0	40.4	1	18.0-160			1.24	20
(S) a,a,a-Trifluorotoluene(FID)					*97.3*	*97.9*		*77.0-122*				

Method Blank (MB)

(MB) R3216097-3 05/01/17 21:47

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Acetone	U		0.0100	0.0500
Benzene	U		0.000331	0.00100
Bromodichloromethane	U		0.000380	0.00100
Bromoform	U		0.000469	0.00100
Bromomethane	U		0.000866	0.00500
n-Butylbenzene	U		0.000361	0.00100
sec-Butylbenzene	U		0.000365	0.00100
Carbon disulfide	U		0.000275	0.00100
Carbon tetrachloride	U		0.000379	0.00100
Chlorobenzene	U		0.000348	0.00100
Chlorodibromomethane	U		0.000327	0.00100
Chloroethane	U		0.000453	0.00500
Chloroform	U		0.000324	0.00500
Chloromethane	U		0.000276	0.00250
1,2-Dibromoethane	U		0.000381	0.00100
1,1-Dichloroethane	U		0.000259	0.00100
1,2-Dichloroethane	U		0.000361	0.00100
1,1-Dichloroethene	U		0.000398	0.00100
cis-1,2-Dichloroethene	U		0.000260	0.00100
trans-1,2-Dichloroethene	U		0.000396	0.00100
1,2-Dichloropropane	U		0.000306	0.00100
cis-1,3-Dichloropropene	U		0.000418	0.00100
trans-1,3-Dichloropropene	U		0.000419	0.00100
Ethylbenzene	U		0.000384	0.00100
2-Hexanone	U		0.00382	0.0100
Isopropylbenzene	U		0.000326	0.00100
p-Isopropyltoluene	U		0.000350	0.00100
2-Butanone (MEK)	U		0.00393	0.0100
Methylene Chloride	U		0.00100	0.00500
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100
Methyl tert-butyl ether	U		0.000367	0.00100
Naphthalene	U		0.00100	0.00500
n-Propylbenzene	U		0.000349	0.00100
Tetrachloroethene	U		0.000372	0.00100
Styrene	U		0.000307	0.00100
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100
Toluene	U		0.000412	0.00100
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100
1,1,1-Trichloroethane	U		0.000319	0.00100
Trichloroethene	U		0.000398	0.00100

Method Blank (MB)

(MB) R3216097-3 05/01/17 21:47

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	mg/l		mg/l	mg/l
1,1,2-Trichloroethane	U		0.000383	0.00100
1,2,4-Trimethylbenzene	U		0.000373	0.00100
1,3,5-Trimethylbenzene	U		0.000387	0.00100
Vinyl chloride	U		0.000259	0.00100
Xylenes, Total	U		0.00106	0.00300
o-Xylene	U		0.000341	0.00100
m&p-Xylenes	U		0.000719	0.00200
(S) Toluene-d8	*103*			*80.0-120*
(S) Dibromofluoromethane	*102*			*76.0-123*
(S) 4-Bromofluorobenzene	*98.0*			*80.0-120*

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

(LCS) R3216097-1 05/01/17 20:43 • (LCSD) R3216097-2 05/01/17 21:14

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	mg/l	mg/l	mg/l	%	%	%			%	%
Acetone	0.125	0.102	0.107	81.5	85.3	10.0-160			4.61	23
Benzene	0.0250	0.0229	0.0204	91.4	81.5	69.0-123			11.5	20
Bromodichloromethane	0.0250	0.0238	0.0210	95.1	84.2	76.0-120			12.2	20
Bromoform	0.0250	0.0211	0.0190	84.3	76.1	67.0-132			10.3	20
Bromomethane	0.0250	0.0213	0.0222	85.2	89.0	18.0-160			4.29	20
n-Butylbenzene	0.0250	0.0215	0.0197	85.8	78.8	72.0-126			8.54	20
sec-Butylbenzene	0.0250	0.0220	0.0202	87.9	81.0	74.0-121			8.20	20
Carbon disulfide	0.0250	0.0256	0.0224	103	89.8	55.0-127			13.3	20
Carbon tetrachloride	0.0250	0.0193	0.0190	77.2	76.1	63.0-122			1.53	20
Chlorobenzene	0.0250	0.0231	0.0214	92.4	85.6	79.0-121			7.72	20
Chlorodibromomethane	0.0250	0.0209	0.0196	83.6	78.4	75.0-125			6.39	20
Chloroethane	0.0250	0.0204	0.0196	81.6	78.3	47.0-152			4.09	20
Chloroform	0.0250	0.0242	0.0217	96.6	86.7	72.0-121			10.9	20
Chloromethane	0.0250	0.0353	0.0304	141	122	48.0-139	J4		15.0	20
1,2-Dibromoethane	0.0250	0.0222	0.0196	88.8	78.6	77.0-123			12.2	20
1,1-Dichloroethane	0.0250	0.0233	0.0204	93.4	81.6	70.0-126			13.4	20
1,2-Dichloroethane	0.0250	0.0246	0.0218	98.3	87.1	67.0-126			12.1	20
1,1-Dichloroethene	0.0250	0.0255	0.0209	102	83.8	64.0-129			19.5	20
cis-1,2-Dichloroethene	0.0250	0.0235	0.0199	94.1	79.5	73.0-120			16.8	20
trans-1,2-Dichloroethene	0.0250	0.0229	0.0207	91.6	82.8	71.0-121			10.1	20
1,2-Dichloropropane	0.0250	0.0233	0.0207	93.1	82.7	75.0-125			11.8	20
cis-1,3-Dichloropropene	0.0250	0.0218	0.0194	87.1	77.7	79.0-123		J4	11.5	20
trans-1,3-Dichloropropene	0.0250	0.0213	0.0190	85.4	76.0	74.0-127			11.6	20

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

(LCS) R3216097-1 05/01/17 20:43 • (LCSD) R3216097-2 05/01/17 21:14

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 %
Ethylbenzene	0.0250	0.0234	0.0208	93.6	83.1	77.0-120			11.9	20
2-Hexanone	0.125	0.0982	ND	78.6	0.000	58.0-147		J3 J4	200	20
Isopropylbenzene	0.0250	0.0233	0.0214	93.1	85.5	75.0-120			8.54	20
p-Isopropyltoluene	0.0250	0.0217	0.0204	86.9	81.4	74.0-126			6.43	20
2-Butanone (MEK)	0.125	0.0801	0.0720	64.1	57.6	37.0-158			10.7	20
Methylene Chloride	0.0250	0.0224	0.0201	89.8	80.2	66.0-121			11.2	20
4-Methyl-2-pentanone (MIBK)	0.125	0.107	0.0880	85.6	70.4	59.0-143			19.5	20
Methyl tert-butyl ether	0.0250	0.0215	0.0189	85.8	75.6	64.0-123			12.7	20
Naphthalene	0.0250	0.0172	0.0146	68.9	58.4	62.0-128		J4	16.5	20
n-Propylbenzene	0.0250	0.0232	0.0210	92.7	84.2	79.0-120			9.64	20
Styrene	0.0250	0.0226	0.0201	90.4	80.3	78.0-124			11.8	20
1,1,1,2-Tetrachloroethane	0.0250	0.0215	0.0202	86.1	81.0	75.0-122			6.15	20
1,1,2,2-Tetrachloroethane	0.0250	0.0220	0.0190	88.1	75.8	71.0-122			15.0	20
Tetrachloroethene	0.0250	0.0263	0.0226	105	90.6	70.0-127			14.8	20
Toluene	0.0250	0.0248	0.0214	99.0	85.7	77.0-120			14.4	20
1,1,1-Trichloroethane	0.0250	0.0261	0.0222	104	89.0	68.0-122			15.8	20
1,1,2-Trichloroethane	0.0250	0.0219	0.0194	87.6	77.6	78.0-120		J4	12.1	20
Trichloroethene	0.0250	0.0259	0.0226	104	90.3	78.0-120			13.7	20
1,2,4-Trimethylbenzene	0.0250	0.0219	0.0201	87.8	80.6	75.0-120			8.57	20
1,3,5-Trimethylbenzene	0.0250	0.0225	0.0204	89.9	81.8	75.0-120			9.40	20
Vinyl chloride	0.0250	0.0248	0.0207	99.3	82.7	64.0-133			18.3	20
Xylenes, Total	0.0750	0.0680	0.0617	90.7	82.3	77.0-120			9.71	20
o-Xylene	0.0250	0.0223	0.0205	89.1	81.9	78.0-120			8.40	20
m&p-Xylenes	0.0500	0.0457	0.0412	91.5	82.3	77.0-120			10.6	20
(S) Toluene-d8				*103*	*101*	*80.0-120*				
(S) Dibromofluoromethane				*98.9*	*99.3*	*76.0-123*				
(S) 4-Bromofluorobenzene				*100*	*101*	*80.0-120*				

Method Blank (MB)

(MB) R3216547-3 05/02/17 11:07

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Acetone	U		0.0100	0.0500
Benzene	U		0.000331	0.00100
Bromodichloromethane	U		0.000380	0.00100
Bromoform	U		0.000469	0.00100
Bromomethane	U		0.000866	0.00500
n-Butylbenzene	U		0.000361	0.00100
sec-Butylbenzene	U		0.000365	0.00100
Carbon disulfide	U		0.000275	0.00100
Carbon tetrachloride	U		0.000379	0.00100
Chlorobenzene	U		0.000348	0.00100
Chlorodibromomethane	U		0.000327	0.00100
Chloroethane	U		0.000453	0.00500
Chloroform	U		0.000324	0.00500
Chloromethane	U		0.000276	0.00250
1,2-Dibromoethane	U		0.000381	0.00100
1,1-Dichloroethane	U		0.000259	0.00100
1,2-Dichloroethane	U		0.000361	0.00100
1,1-Dichloroethene	U		0.000398	0.00100
cis-1,2-Dichloroethene	U		0.000260	0.00100
trans-1,2-Dichloroethene	U		0.000396	0.00100
1,2-Dichloropropane	U		0.000306	0.00100
cis-1,3-Dichloropropene	U		0.000418	0.00100
trans-1,3-Dichloropropene	U		0.000419	0.00100
Ethylbenzene	U		0.000384	0.00100
2-Hexanone	U		0.00382	0.0100
Isopropylbenzene	U		0.000326	0.00100
p-Isopropyltoluene	U		0.000350	0.00100
2-Butanone (MEK)	U		0.00393	0.0100
Methylene Chloride	U		0.00100	0.00500
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100
Methyl tert-butyl ether	U		0.000367	0.00100
Naphthalene	U		0.00100	0.00500
n-Propylbenzene	U		0.000349	0.00100
Styrene	U		0.000307	0.00100
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100
Tetrachloroethene	U		0.000372	0.00100
Toluene	U		0.000412	0.00100
1,1,1-Trichloroethane	U		0.000319	0.00100
1,1,2-Trichloroethane	U		0.000383	0.00100

Method Blank (MB)

(MB) R3216547-3 05/02/17 11:07

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Trichloroethene	U		0.000398	0.00100
1,2,4-Trimethylbenzene	U		0.000373	0.00100
1,3,5-Trimethylbenzene	U		0.000387	0.00100
Vinyl chloride	U		0.000259	0.00100
Xylenes, Total	U		0.00106	0.00300
o-Xylene	U		0.000341	0.00100
m&p-Xylenes	U		0.000719	0.00200
(S) Toluene-d8	*93.4*			*80.0-120*
(S) Dibromofluoromethane	*80.5*			*76.0-123*
(S) 4-Bromofluorobenzene	*96.9*			*80.0-120*

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

(LCS) R3216547-1 05/02/17 09:39 • (LCSD) R3216547-2 05/02/17 09:53

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	0.125	0.108	0.103	86.1	82.7	10.0-160			4.04	23
Benzene	0.0250	0.0216	0.0211	86.2	84.2	69.0-123			2.34	20
Bromodichloromethane	0.0250	0.0242	0.0242	96.6	96.8	76.0-120			0.190	20
Bromoform	0.0250	0.0251	0.0264	100	106	67.0-132			5.19	20
Bromomethane	0.0250	0.0215	0.0202	86.2	80.8	18.0-160			6.45	20
n-Butylbenzene	0.0250	0.0247	0.0249	98.9	99.4	72.0-126			0.470	20
sec-Butylbenzene	0.0250	0.0242	0.0237	97.0	94.9	74.0-121			2.16	20
Carbon disulfide	0.0250	0.0215	0.0202	86.1	81.0	55.0-127			6.15	20
Carbon tetrachloride	0.0250	0.0224	0.0212	89.7	84.9	63.0-122			5.48	20
Chlorobenzene	0.0250	0.0246	0.0255	98.6	102	79.0-121			3.56	20
Chlorodibromomethane	0.0250	0.0246	0.0256	98.2	103	75.0-125			4.27	20
Chloroethane	0.0250	0.0222	0.0207	88.9	82.7	47.0-152			7.23	20
Chloroform	0.0250	0.0219	0.0209	87.7	83.6	72.0-121			4.82	20
Chloromethane	0.0250	0.0238	0.0221	95.1	88.2	48.0-139			7.53	20
1,2-Dibromoethane	0.0250	0.0240	0.0260	96.1	104	77.0-123			7.82	20
1,1-Dichloroethane	0.0250	0.0216	0.0205	86.3	81.9	70.0-126			5.18	20
1,2-Dichloroethane	0.0250	0.0221	0.0218	88.2	87.1	67.0-126			1.33	20
1,1-Dichloroethene	0.0250	0.0221	0.0209	88.4	83.6	64.0-129			5.60	20
cis-1,2-Dichloroethene	0.0250	0.0217	0.0205	86.9	82.0	73.0-120			5.84	20
trans-1,2-Dichloroethene	0.0250	0.0219	0.0204	87.5	81.6	71.0-121			7.02	20
1,2-Dichloropropane	0.0250	0.0239	0.0242	95.5	96.8	75.0-125			1.29	20
cis-1,3-Dichloropropene	0.0250	0.0249	0.0263	99.6	105	79.0-123			5.48	20
trans-1,3-Dichloropropene	0.0250	0.0242	0.0267	96.8	107	74.0-127			9.89	20

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

(LCS) R3216547-1 05/02/17 09:39 • (LCSD) R3216547-2 05/02/17 09:53

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 %
Ethylbenzene	0.0250	0.0250	0.0253	100	101	77.0-120			1.20	20
2-Hexanone	0.125	0.103	0.114	82.2	91.4	58.0-147			10.5	20
Isopropylbenzene	0.0250	0.0256	0.0250	102	100	75.0-120			2.31	20
p-Isopropyltoluene	0.0250	0.0243	0.0238	97.1	95.3	74.0-126			1.88	20
2-Butanone (MEK)	0.125	0.129	0.133	103	106	37.0-158			2.67	20
Methylene Chloride	0.0250	0.0220	0.0206	88.0	82.2	66.0-121			6.82	20
4-Methyl-2-pentanone (MIBK)	0.125	0.117	0.123	93.4	98.4	59.0-143			5.26	20
Methyl tert-butyl ether	0.0250	0.0224	0.0212	89.6	84.8	64.0-123			5.52	20
Naphthalene	0.0250	0.0240	0.0243	96.1	97.3	62.0-128			1.21	20
n-Propylbenzene	0.0250	0.0248	0.0250	99.0	99.8	79.0-120			0.760	20
Styrene	0.0250	0.0256	0.0268	103	107	78.0-124			4.39	20
1,1,1,2-Tetrachloroethane	0.0250	0.0248	0.0240	99.3	95.9	75.0-122			3.44	20
1,1,2,2-Tetrachloroethane	0.0250	0.0235	0.0240	94.0	96.1	71.0-122			2.28	20
Tetrachloroethene	0.0250	0.0255	0.0259	102	104	70.0-127			1.50	20
Toluene	0.0250	0.0245	0.0250	97.8	100	77.0-120			2.39	20
1,1,1-Trichloroethane	0.0250	0.0221	0.0209	88.4	83.7	68.0-122			5.47	20
1,1,2-Trichloroethane	0.0250	0.0236	0.0251	94.2	100	78.0-120			6.38	20
Trichloroethene	0.0250	0.0251	0.0246	100	98.4	78.0-120			2.03	20
1,2,4-Trimethylbenzene	0.0250	0.0247	0.0243	98.7	97.2	75.0-120			1.58	20
1,3,5-Trimethylbenzene	0.0250	0.0250	0.0245	99.9	98.0	75.0-120			1.90	20
Vinyl chloride	0.0250	0.0248	0.0231	99.1	92.3	64.0-133			7.06	20
Xylenes, Total	0.0750	0.0749	0.0755	99.9	101	77.0-120			0.800	20
o-Xylene	0.0250	0.0250	0.0247	100	99.0	78.0-120			1.17	20
m&p-Xylenes	0.0500	0.0499	0.0508	99.8	102	77.0-120			1.71	20
(S) Toluene-d8				*92.7*	*93.5*	*80.0-120*				
(S) Dibromofluoromethane				*84.0*	*80.1*	*76.0-123*				
(S) 4-Bromofluorobenzene				*87.8*	*92.6*	*80.0-120*				

Method Blank (MB)

(MB) R3215215-3 05/02/17 16:02

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Acetone	U		0.0100	0.0500
Benzene	U		0.000331	0.00100
Bromodichloromethane	U		0.000380	0.00100
Bromoform	U		0.000469	0.00100
Bromomethane	U		0.000866	0.00500
n-Butylbenzene	U		0.000361	0.00100
sec-Butylbenzene	U		0.000365	0.00100
Carbon disulfide	U		0.000275	0.00100
Carbon tetrachloride	U		0.000379	0.00100
Chlorobenzene	U		0.000348	0.00100
Chlorodibromomethane	U		0.000327	0.00100
Chloroethane	U		0.000453	0.00500
Chloroform	U		0.000324	0.00500
Chloromethane	U		0.000276	0.00250
1,2-Dibromoethane	U		0.000381	0.00100
1,1-Dichloroethane	U		0.000259	0.00100
1,2-Dichloroethane	U		0.000361	0.00100
1,1-Dichloroethene	U		0.000398	0.00100
cis-1,2-Dichloroethene	U		0.000260	0.00100
trans-1,2-Dichloroethene	U		0.000396	0.00100
1,2-Dichloropropane	U		0.000306	0.00100
cis-1,3-Dichloropropene	U		0.000418	0.00100
trans-1,3-Dichloropropene	U		0.000419	0.00100
Ethylbenzene	U		0.000384	0.00100
2-Hexanone	U		0.00382	0.0100
Isopropylbenzene	U		0.000326	0.00100
p-Isopropyltoluene	U		0.000350	0.00100
2-Butanone (MEK)	U		0.00393	0.0100
Methylene Chloride	U		0.00100	0.00500
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100
Methyl tert-butyl ether	U		0.000367	0.00100
Naphthalene	U		0.00100	0.00500
n-Propylbenzene	U		0.000349	0.00100
Styrene	U		0.000307	0.00100
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100
Tetrachloroethene	U		0.000372	0.00100
Toluene	U		0.000412	0.00100
1,1,1-Trichloroethane	U		0.000319	0.00100
1,1,2-Trichloroethane	U		0.000383	0.00100

Method Blank (MB)

(MB) R3215215-3 05/02/17 16:02

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	mg/l		mg/l	mg/l
Trichloroethene	U		0.000398	0.00100
1,2,4-Trimethylbenzene	U		0.000373	0.00100
1,3,5-Trimethylbenzene	U		0.000387	0.00100
Vinyl chloride	U		0.000259	0.00100
Xylenes, Total	U		0.00106	0.00300
o-Xylene	U		0.000341	0.00100
m&p-Xylenes	U		0.000719	0.00200
(S) Toluene-d8	*105*			*80.0-120*
(S) Dibromofluoromethane	*108*			*76.0-123*
(S) 4-Bromofluorobenzene	*92.1*			*80.0-120*

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

(LCS) R3215215-1 05/02/17 14:56 • (LCSD) R3215215-2 05/02/17 15:18

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	mg/l	mg/l	mg/l	%	%	%			%	%
Acetone	0.125	0.171	0.171	137	137	10.0-160			0.310	23
Benzene	0.0250	0.0236	0.0236	94.6	94.5	69.0-123			0.0300	20
Bromodichloromethane	0.0250	0.0237	0.0239	94.7	95.6	76.0-120			0.930	20
Bromoform	0.0250	0.0228	0.0231	91.3	92.5	67.0-132			1.24	20
Bromomethane	0.0250	0.0366	0.0359	147	144	18.0-160			2.00	20
n-Butylbenzene	0.0250	0.0244	0.0246	97.7	98.5	72.0-126			0.810	20
sec-Butylbenzene	0.0250	0.0248	0.0251	99.2	100	74.0-121			1.07	20
Carbon disulfide	0.0250	0.0215	0.0218	86.0	87.3	55.0-127			1.47	20
Carbon tetrachloride	0.0250	0.0245	0.0250	98.0	99.9	63.0-122			1.89	20
Chlorobenzene	0.0250	0.0221	0.0224	88.3	89.5	79.0-121			1.42	20
Chlorodibromomethane	0.0250	0.0219	0.0222	87.4	88.7	75.0-125			1.47	20
Chloroethane	0.0250	0.0307	0.0323	123	129	47.0-152			5.13	20
Chloroform	0.0250	0.0235	0.0233	93.8	93.3	72.0-121			0.530	20
Chloromethane	0.0250	0.0238	0.0242	95.4	96.9	48.0-139			1.56	20
1,2-Dibromoethane	0.0250	0.0217	0.0221	86.9	88.3	77.0-123			1.53	20
1,1-Dichloroethane	0.0250	0.0235	0.0237	93.9	94.9	70.0-126			1.11	20
1,2-Dichloroethane	0.0250	0.0220	0.0220	88.0	87.9	67.0-126			0.170	20
1,1-Dichloroethene	0.0250	0.0223	0.0228	89.1	91.0	64.0-129			2.17	20
cis-1,2-Dichloroethene	0.0250	0.0229	0.0230	91.6	92.0	73.0-120			0.420	20
trans-1,2-Dichloroethene	0.0250	0.0266	0.0272	106	109	71.0-121			2.38	20
1,2-Dichloropropane	0.0250	0.0224	0.0225	89.4	90.0	75.0-125			0.620	20
cis-1,3-Dichloropropene	0.0250	0.0216	0.0215	86.3	86.0	79.0-123			0.350	20
trans-1,3-Dichloropropene	0.0250	0.0203	0.0203	81.3	81.0	74.0-127			0.350	20

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

(LCS) R3215215-1 05/02/17 14:56 • (LCSD) R3215215-2 05/02/17 15:18

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Ethylbenzene	0.0250	0.0223	0.0225	89.1	90.1	77.0-120			1.18	20
2-Hexanone	0.125	0.121	0.120	97.1	95.7	58.0-147			1.48	20
Isopropylbenzene	0.0250	0.0232	0.0235	92.9	94.2	75.0-120			1.40	20
p-Isopropyltoluene	0.0250	0.0246	0.0251	98.5	100	74.0-126			1.74	20
2-Butanone (MEK)	0.125	0.120	0.120	95.7	96.1	37.0-158			0.360	20
Methylene Chloride	0.0250	0.0290	0.0291	116	116	66.0-121			0.220	20
4-Methyl-2-pentanone (MIBK)	0.125	0.113	0.112	90.2	89.4	59.0-143			0.890	20
Methyl tert-butyl ether	0.0250	0.0258	0.0269	103	107	64.0-123			4.12	20
Naphthalene	0.0250	0.0205	0.0208	81.9	83.2	62.0-128			1.56	20
n-Propylbenzene	0.0250	0.0237	0.0241	94.8	96.2	79.0-120			1.48	20
Styrene	0.0250	0.0213	0.0216	85.2	86.2	78.0-124			1.11	20
1,1,1,2-Tetrachloroethane	0.0250	0.0241	0.0242	96.3	96.7	75.0-122			0.450	20
1,1,2,2-Tetrachloroethane	0.0250	0.0220	0.0227	88.1	90.9	71.0-122			3.06	20
Tetrachloroethene	0.0250	0.0224	0.0228	89.8	91.4	70.0-127			1.77	20
Toluene	0.0250	0.0226	0.0224	90.4	89.7	77.0-120			0.770	20
1,1,1-Trichloroethane	0.0250	0.0244	0.0240	97.4	95.9	68.0-122			1.56	20
1,1,2-Trichloroethane	0.0250	0.0221	0.0218	88.4	87.2	78.0-120			1.35	20
Trichloroethene	0.0250	0.0246	0.0243	98.5	97.2	78.0-120			1.40	20
1,2,4-Trimethylbenzene	0.0250	0.0228	0.0230	91.1	92.1	75.0-120			1.06	20
1,3,5-Trimethylbenzene	0.0250	0.0235	0.0239	94.0	95.7	75.0-120			1.75	20
Vinyl chloride	0.0250	0.0268	0.0278	107	111	64.0-133			3.68	20
Xylenes, Total	0.0750	0.0667	0.0680	88.9	90.7	77.0-120			1.93	20
o-Xylene	0.0250	0.0223	0.0228	89.3	91.1	78.0-120			1.93	20
m&p-Xylenes	0.0500	0.0444	0.0452	88.9	90.5	77.0-120			1.77	20
(S) Toluene-d8				*103*	*102*	*80.0-120*				
(S) Dibromofluoromethane				*105*	*106*	*76.0-123*				
(S) 4-Bromofluorobenzene				*95.8*	*96.7*	*80.0-120*				

Method Blank (MB)

(MB) R3215970-1 05/05/17 13:02

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	*61.1*			*31.0-160*

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

(LCS) R3215970-2 05/05/17 13:18 • (LCSD) R3215970-3 05/05/17 13:34

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 %
TPH (GC/FID) High Fraction	1.50	1.57	1.62	105	108	50.0-150			3.23	20
(S) o-Terphenyl				*68.1*	*69.5*	*31.0-160*				

Abbreviations and Definitions

SDG	Sample Delivery Group.
MDL	Method Detection Limit.
RDL	Reported Detection Limit.
ND	Not detected at the Reporting Limit (or MDL where applicable).
U	Not detected at the Reporting Limit (or MDL where applicable).
RPD	Relative Percent Difference.
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.
(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.
Rec.	Recovery.

Qualifier	Description
E	The analyte concentration exceeds the upper limit of the calibration range of the instrument established by the initial calibration (ICAL).
J	The identification of the analyte is acceptable; the reported value is an estimate.
J3	The associated batch QC was outside the established quality control range for precision.
J4	The associated batch QC was outside the established quality control range for accuracy.
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.

ESC Lab Sciences is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our "one location" design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be **YOUR LAB OF CHOICE.**
* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

State Accreditations

Alabama	40660	Nevada	TN-03-2002-34
Alaska	UST-080	New Hampshire	2975
Arizona	AZ0612	New Jersey–NELAP	TN002
Arkansas	88-0469	New Mexico	TN00003
California	01157CA	New York	11742
Colorado	TN00003	North Carolina	Env375
Conneticut	PH-0197	North Carolina [1]	DW21704
Florida	E87487	North Carolina [2]	41
Georgia	NELAP	North Dakota	R-140
Georgia [1]	923	Ohio–VAP	CL0069
Idaho	TN00003	Oklahoma	9915
Illinois	200008	Oregon	TN200002
Indiana	C-TN-01	Pennsylvania	68-02979
Iowa	364	Rhode Island	221
Kansas	E-10277	South Carolina	84004
Kentucky [1]	90010	South Dakota	n/a
Kentucky [2]	16	Tennessee [1 4]	2006
Louisiana	AI30792	Texas	T 104704245-07-TX
Maine	TN0002	Texas [5]	LAB0152
Maryland	324	Utah	6157585858
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	109
Minnesota	047-999-395	Washington	C1915
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	9980939910
Montana	CERT0086	Wyoming	A2LA
Nebraska	NE-OS-15-05		

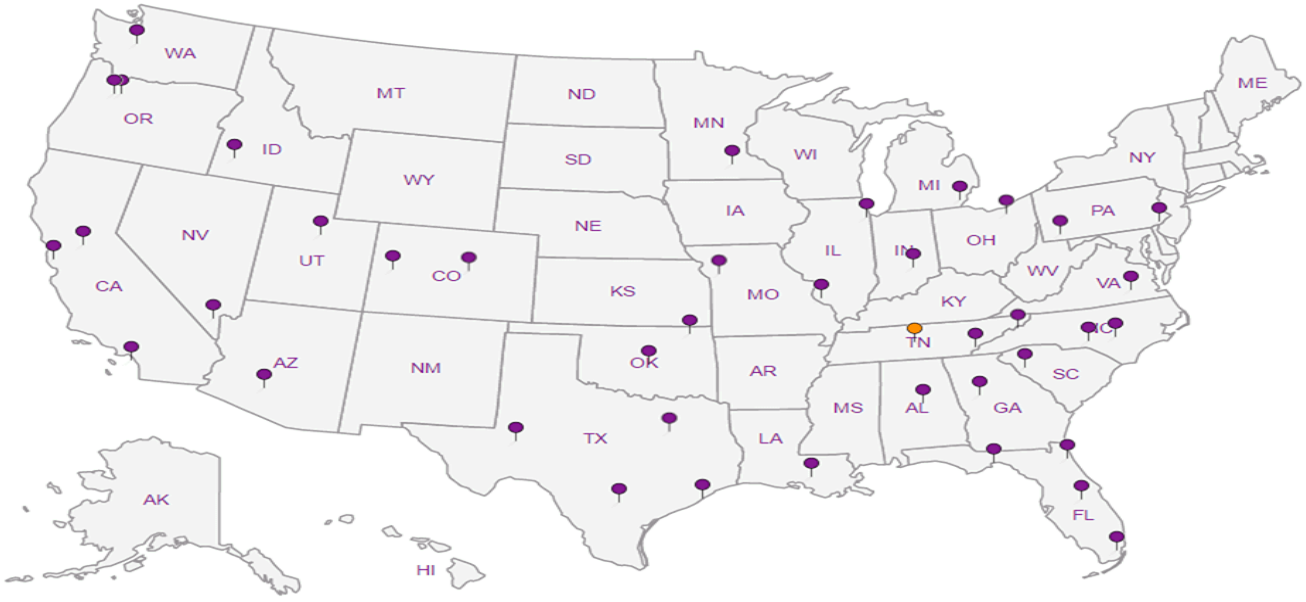
Third Party & Federal Accreditations

A2LA – ISO 17025	1461.01	AIHA-LAP,LLC	100789
A2LA – ISO 17025 [5]	1461.02	DOD	1461.01
Canada	1461.01	USDA	S-67674
EPA–Crypto	TN00003		

[1] Drinking Water [2] Underground Storage Tanks [3] Aquatic Toxicity [4] Chemical/Microbiological [5] Mold [n/a] Accreditation not applicable

Our Locations

ESC Lab Sciences has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. **ESC Lab Sciences performs all testing at our central laboratory.**



Company Name/Address:
TRC Solutions - Austin, TX
505 E. Huntland Dr, Ste 250
Austin, TX 78752

Billing Information:
Accounts Payable
21 Griffin Road North
Windsor, CT 06095

Report to: Julie Speer
Email To: jspeer@trcwsolutions.com

Project Description: **TMD Spring 2017**
City/State Collected: NM

Phone: 512-684-3170
Fax:
Client Project #
Lab Project #

Collected by (print): **Scott Ude/HMI Team**
Site/Facility ID #: TMD (Navajo - Artesia)
P.O. #: 107027

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

Rush? (Lab MUST Be Notified)
___ Same Day 200%
___ Next Day 100%
___ Two Day 50%
___ Three Day 25%

Date Results Needed
Email? ___No ✓Yes
FAX? ___No ___Yes

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	VOC	DRO	GRO	Short List Metals (Total & Dissolved)	Cations (from "total metals" bottle) L2	Anions	NO2NO3, TDS L2	Long List Metals (Total & Dissolved)	Cyanide		Rem./Contaminant	Sample # (lab only)
MW-25	Grab	GW		4/26/17	1510	8	X	X		X	X	X	X					-01
	Grab	GW																
	Grab	GW																
	Grab	GW																
	Grab	GW																
	Grab	GW																
	Grab	GW																
	Grab	GW																
	Grab	GW																
	Grab	GW																

Analysis / Container / Preservative

Chain of Custody Page ___ of ___

ESC LABORATORIES
YOUR LAB OF CHOICE
12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

L# 1905607
G170

Acctnum: TRCATX
Template:
Prelogin:
TSR: **Chris McCord**
Cooler:
Shipped Via:

* Matrix: **SS** - Soil **GW** - Groundwater **WW** - WasteWater **DW** - Drinking Water **OT** - Other_____

Remarks: **Dissolved metals field-filtered.**

pH _____ Temp _____
Flow _____ Other _____

Hold #

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Scott Ude	4/27/17	0800	
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)
			Mwt

Samples returned via: ☐ UPS ☑ FedEx ☐ Courier ☐ _____
Temp: 2.6 °C Bottles Received: 9
Date: 4-28-17 Time: 845

Condition: (lab use only) ok
COC Seal Intact: ✓Y ___N ___NA
pH Checked: <7 NCF:

Company Name/Address:	Billing Information:
TRC Solutions - Austin, TX **505 E. Huntland Dr, Ste 250** **Austin, TX 78752**	**Accounts Payable** **21 Griffin Road North** **Windsor, CT 06095**
Report to: Julie Speer	Email To: jspeer@trcwsolutions.com
Project Description: **TMD Spring 2017**	City/State Collected: NM
Phone: 512-684-3170 Fax:	Client Project #	Lab Project #
Collected by (print): **Scott Ude/HMI Team**	Site/Facility ID #: TMD (Navajo - Artesia)	P.O. #: 107027
Collected by (signature): Scott Ude Immediately Packed on Ice N ___ Y ✓	***Rush?*** (Lab MUST Be Notified) ___ Same Day .....200% ___ Next Day .....100% ___ Two Day .....50% ___ Three Day 25%	Date Results Needed Email? ___No ✓Yes FAX? ___No ___Yes

Analysis / Container / Preservative

Chain of Custody Page ___ of ___

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

L# L905607

Table #

Acctnum: TRCATX

Template:

Prelogin:

TSR: **Chris McCord**

Cooler:

Shipped Via:

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	VOC	DRO	GRO	Short List Metals (Total & Dissolved)	Cations (from "total metals" bottle) 12	Anions	NO2NO3, TDS 12	Long List Metals (Total & Dissolved)	Cyanide 7 12	Rem./Contaminant	Sample # (lab only)
MW-20	Grab	GW		4/27/17	1020	8	X	X		X	X	X	X				02
~~NP-1~~	Grab	GW					X				X	X	X				
~~NP-6~~	Grab	GW					X										
MW-8	Grab	GW		4/27/17	1150	8	X	X	X	X	X	X	X				03
MW-21	Grab	GW		4/27/17	1105	8	X	X	X	X	X	X	X				04
~~MW-71~~	Grab	GW					X	X			X	X	X	X	X		
~~MW-68~~	Grab	GW					X	X		X	X	X	X				
~~MW-27~~	Grab	GW					X	X		X	X	X	X				
~~MW-89~~	Grab	GW					X	X		X	X	X	X				
~~MW-16~~	Grab	GW					X	X		X	X	X	X				

* Matrix: **SS** - Soil **GW** - Groundwater **WW** - WasteWater **DW** - Drinking Water **OT** - Other_____

pH _____ Temp _____

Remarks: **Dissolved metals field-filtered.**

Flow _____ Other _____

Hold #

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Scott Ude	4/27/17	1500	
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)
			Mat

Samples returned via: ☐ UPS ☑ FedEx ☐ Courier ☐ _____

Temp: 2.6 °C Bottles Received: 97

Date: 4-28-17 Time: 845

Condition: (lab use only)

COC Seal Intact: ___Y ___N ___NA

pH Checked: C2, 7/2 NCF:

Company Name/Address: **TRC Solutions - Austin, TX** **505 E. Huntland Dr, Ste 250** **Austin, TX 78752**	Billing Information: **Accounts Payable** **21 Griffin Road North** **Windsor, CT 06095**
Report to: Julie Speer	Email To: jspeer@trcwsolutions.com
Project Description: **TMD Spring 2017**	City/State Collected: NM
Phone: 512-684-3170 Fax:	Client Project #	Lab Project #
Collected by (print): **Scott Ude/HMI Team**	Site/Facility ID #: TMD (Navajo - Artesia)	P.O. #: 107027
Collected by (signature): Scott Ude Immediately Packed on Ice N ___ Y ✓	***Rush?*** (Lab MUST Be Notified) ___ Same Day .....200% ___ Next Day .....100% ___ Two Day .....50% ___ Three Day 25%	Date Results Needed Email? ___No ✓Yes FAX? ___No ___Yes

Analysis / Container / Preservative

Chain of Custody Page ___ of ___

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

L# L905607
Table #
Acctnum: TRCATX
Template:
Prelogin:
TSR: **Chris McCord**
Cooler:
Shipped Via:

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	VOC	DRO	GRO	Short List Metals (Total & Dissolved)	Cations (from "total metals" bottle)	Anions	NO2NO3, TDS	Long List Metals (Total & Dissolved)	Cyanide		Rem./Contaminant	Sample # (lab only)
~~MW-20~~	Grab	GW				5	X	X		X	X	X	X					
NP-1	Grab	GW		4/26/17	1820	5	X				X	X	X					05
NP-6	Grab	GW		4/26/17	1740	2	X											06
~~MW-8~~	Grab	GW					X	X	X	X	X	X	X					
~~MW-21~~	Grab	GW					X	X	X	X	X	X	X					
MW-71	Grab	GW		4/26/17	1105	9	X	X			X	X	X	X	X			07
MW-68	Grab	GW		4/26/17	1155	8	X	X		X	X	X	X					08
MW-27	Grab	GW		4/26/17	1555	8	X	X		X	X	X	X					09
MW-89	Grab	GW		4/26/17	1455	8	X	X		X	X	X	X					10
MW-16	Grab	GW		4/26/17	1400	8	X	X		X	X	X	X					11

* Matrix: **SS** - Soil **GW** - Groundwater **WW** - WasteWater **DW** - Drinking Water **OT** - Other_____

Remarks: **Dissolved metals field-filtered.**

pH _____ Temp _____
Flow _____ Other _____

Hold #

Relinquished by : (Signature) Scott Ude	Date: 4/27/17	Time: 0800	Received by: (Signature)	Samples returned via: ☐ UPS ☑ FedEx ☐ Courier ☐ _____
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: 2.6 °C Bottles Received: 97
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature) MW	Date: 4-28-17 Time: 845

Condition: (lab use only) 0
COC Seal Intact: ___Y ___N ___NA
pH Checked: C2, 7/2 NCF:

Company Name/Address:
TRC Solutions - Austin, TX
505 E. Huntland Dr, Ste 250
Austin, TX 78752

Billing Information:
Accounts Payable
21 Griffin Road North
Windsor, CT 06095

Report to: Julie Speer
Email To: jspeer@trcwsolutions.com

Project Description: **TMD Spring 2017**
City/State Collected: NM

Phone: 512-684-3170
Fax:
Client Project #
Lab Project #

Collected by (print): **Scott Ude/HMI Team**
Site/Facility ID #: TMD (Navajo - Artesia)
P.O. #: 107027

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

Rush? (Lab MUST Be Notified)
___ Same Day 200%
___ Next Day 100%
___ Two Day 50%
___ Three Day 25%

Date Results Needed
Email? ___No ✓Yes
FAX? ___No ___Yes

Analysis / Container / Preservative

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	VOC	DRO	GRO	Short List Metals (Total & Dissolved)	Cations (from "total metals" bottle) L2	Anions	NO2NO3, TDS L2	Long List Metals (Total & Dissolved)	Cyanide		Rem./Contaminant	Sample # (lab only)
MW-26	Grab	GW		4/26/17	1255	8	X	X		X	X	X	X					12
	Grab	GW																
	Grab	GW																
	Grab	GW																
	Grab	GW																
	Grab	GW																
	Grab	GW																
	Grab	GW																
	Grab	GW																
	Grab	GW																

* Matrix: **SS** - Soil **GW** - Groundwater **WW** - WasteWater **DW** - Drinking Water **OT** - Other_____

Remarks: **Dissolved metals field-filtered.**

pH _____ Temp _____
Flow _____ Other _____

Chain of Custody Page ___ of ___

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

L# L905602
Table #
Acctnum: TRCATX
Template:
Prelogin:
TSR: **Chris McCord**
Cooler:
Shipped Via:

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Scott Ude	4/27/17	0800	
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)
			Mint

Samples returned via: ☐ UPS ☑ FedEx ☐ Courier ☐ ____
Temp: 2.6 °C Bottles Received: 9?
Date: 4-28-17 Time: 845

Hold #
Condition: (lab use only)
COC Seal Intact: ___Y ___N ___NA
pH Checked: L2 NCF:

33 34

Company Name/Address:	Billing Information:
TRC Solutions - Austin, TX **505 E. Huntland Dr, Ste 250** **Austin, TX 78752**	**Accounts Payable** **21 Griffin Road North** **Windsor, CT 06095**
Report to: Julie Speer	Email To: jspeer@trcwsolutions.com
Project Description: **TMD Spring 2017**	City/State Collected: NM
Phone: 512-684-3170 Fax:	Client Project #	Lab Project #
Collected by (print): **Scott Ude/HMI Team**	Site/Facility ID #: TMD (Navajo - Artesia)	P.O. #: 107027
Collected by (signature): Scott Ude Immediately Packed on Ice N ___ Y ✓	***Rush?*** (Lab MUST Be Notified) ___ Same Day .....200% ___ Next Day .....100% ___ Two Day .....50% ___ Three Day 25%	Date Results Needed Email? ___No ✓Yes FAX? ___No ___Yes

Analysis / Container / Preservative

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	VOC	DRO	GRO	Short List Metals (Total & Dissolved)	Cations (from "total metals" bottle) C2	Anions	NO2NO3, TDS C2	Long List Metals (Total & Dissolved)	Cyanide		Rem./Contaminant	Sample # (lab only)
MW-46R	Grab	GW		4/27/17	1140	8	X	X		X	X	X	X					13
	Grab	GW																
	Grab	GW																
	Grab	GW																
	Grab	GW																
	Grab	GW																
	Grab	GW																
	Grab	GW																
	Grab	GW																
	Grab	GW																

* Matrix: **SS** - Soil **GW** - Groundwater **WW** - WasteWater **DW** - Drinking Water **OT** - Other_____

Remarks: **Dissolved metals field-filtered.**

pH _____ Temp _____

Flow _____ Other _____

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Scott Ude	4/27/17	1500	
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)

Samples returned via: ☐ UPS ☑ FedEx ☐ Courier ☐ _____

Temp: 2-6 °C Bottles Received: 97

Date: 4-28-17 Time: 845

Chain of Custody Page ___ of ___

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

L# L905602

Table #

Acctnum: TRCATX

Template:

Prelogin:

TSR: **Chris McCord**

Cooler:

Shipped Via:

Hold #

Condition: (lab use only)

COC Seal Intact: ___Y ___N ___NA

pH Checked: NCF:

Company Name/Address: **TRC Solutions - Austin, TX** **505 E. Huntland Dr, Ste 250** **Austin, TX 78752**	Billing Information: **Accounts Payable** **21 Griffin Road North** **Windsor, CT 06095**
Report to: Julie Speer	Email To: jspeer@trcwsolutions.com
Project Description: **TMD Spring 2017**	City/State Collected: NM
Phone: 512-684-3170 Fax:	Client Project #	Lab Project #
Collected by (print): **Scott Ude/HMI Team**	Site/Facility ID # TMD (Navajo - Artesia)	P.O. # 107027
Collected by (signature): Scott Ude Immediately Packed on Ice N ___ Y ✓	***Rush?*** (Lab MUST Be Notified) ___ Same Day .....200% ___ Next Day .....100% ___ Two Day .....50% ___ Three Day 25%	Date Results Needed Email? ___No ✓Yes FAX? ___No ___Yes

Analysis / Container / Preservative

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	VOC	DRO	GRO	Short List Metals (Total & Dissolved)	Cations (from "total metals" bottle)	Anions	NO2NO3, TDS	Long List Metals (Total & Dissolved)	Cyanide		Rem./Contaminant	Sample # (lab only)
Trip Blank-TMD-01	Grab	GW		4/26/17	—	1	X											14
	Grab	GW																
	Grab	GW																
	Grab	GW																
	Grab	GW																
	Grab	GW																
	Grab	GW																
	Grab	GW																
	Grab	GW																
	Grab	GW																
	Grab	GW																

Chain of Custody Page ___ of ___

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Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

L# L905012

Table #

Acctnum: TRCATX

Template:

Prelogin:

TSR: **Chris McCord**

Cooler:

Shipped Via:

* Matrix: **SS** - Soil **GW** - Groundwater **WW** - WasteWater **DW** - Drinking Water **OT** - Other_____

Remarks: **Dissolved metals field-filtered.**

pH _____ Temp _____

Flow _____ Other _____

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Scott Ude	4/27/17	0800	
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)

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

Temp: 2.6 °C Bottles Received: 97

Date: 4-28-17 Time: 845

Hold #

Condition: (lab use only) a

COC Seal Intact: ___Y ___N ___NA

pH Checked: NCF:

ESC LAB SCIENCES
Cooler Receipt Form

Client: TRCATX	SDG#	L905602
Cooler Received/Opened On: 4/ 28 /17	Temperature:	2.4
Received By: MICHAEL Witherspoon		
Signature:		

Receipt Check List	NP	Yes	No
COC Seal Present / Intact?			
COC Signed / Accurate?			
Bottles arrive intact?			
Correct bottles used?			
Sufficient volume sent?			
If Applicable			
VOA Zero headspace?			
Preservation Correct / Checked?			

ANALYTICAL REPORT

May 11, 2017

TRC Solutions - Austin, TX

Sample Delivery Group:	L905645
Samples Received:	04/28/2017
Project Number:	249545.0000.0000 000
Description:	TEL Spring 2017
Site:	TEL - NAVAJO-ARTESIA
Report To:	Julie Speer 505 E. Huntland Dr, Ste 250 Austin, TX 78752

Entire Report Reviewed By:

Chris McCord
Technical Service Representative

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 ESC is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.

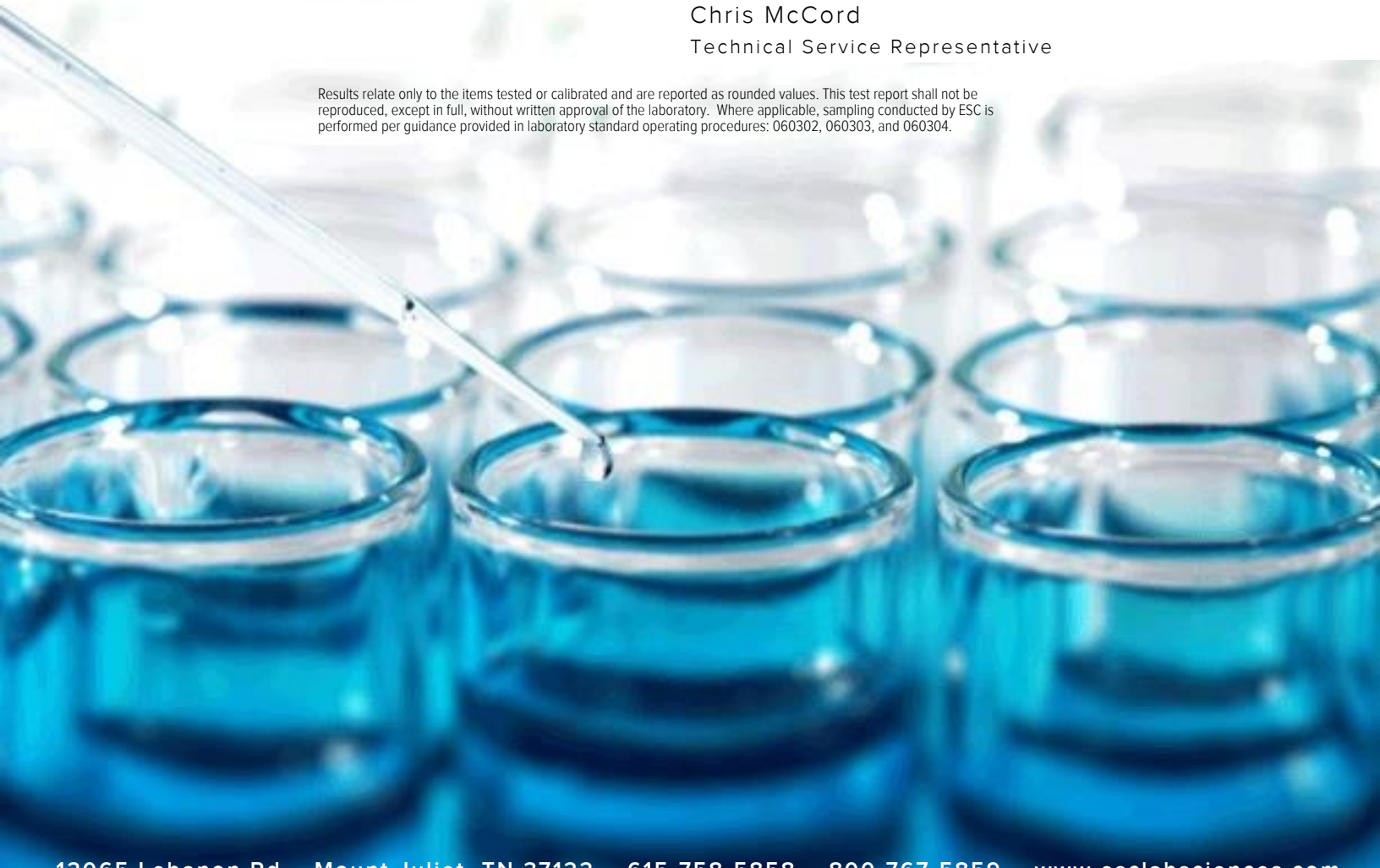


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TEL-4 L905645-01 GW

Collected by: Scott Ude-HMI Team
Collected date/time: 04/27/17 10:55
Received date/time: 04/28/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG975907	1	05/03/17 12:40	05/03/17 13:18	MMF
Wet Chemistry by Method 353.2	WG975587	10	05/02/17 14:41	05/02/17 14:41	DR
Wet Chemistry by Method 9056A	WG975534	1	05/02/17 19:33	05/02/17 19:33	KCF
Wet Chemistry by Method 9056A	WG975534	100	05/02/17 19:51	05/02/17 19:51	KCF
Wet Chemistry by Method 9056A	WG976223	50	05/04/17 11:41	05/04/17 11:41	KCF
Metals (ICPMS) by Method 6020	WG975071	1	05/03/17 22:13	05/05/17 02:01	LAT
Metals (ICPMS) by Method 6020	WG975081	1	05/03/17 08:39	05/04/17 19:53	VSS
Metals (ICPMS) by Method 6020	WG975081	1	05/03/17 08:39	05/05/17 02:51	LAT
Metals (ICPMS) by Method 6020	WG975081	1	05/03/17 08:39	05/05/17 12:21	LAT
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG975302	1	05/05/17 11:18	05/05/17 11:18	LRL
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975531	10	05/02/17 09:20	05/02/17 09:20	DWR
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG975930	1	05/03/17 00:21	05/05/17 03:42	TRF

TEL-3 L905645-02 GW

Collected by: Scott Ude-HMI Team
Collected date/time: 04/27/17 11:50
Received date/time: 04/28/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG975907	1	05/03/17 12:40	05/03/17 13:18	MMF
Wet Chemistry by Method 353.2	WG975587	10	05/02/17 14:42	05/02/17 14:42	DR
Wet Chemistry by Method 9056A	WG975534	1	05/02/17 20:43	05/02/17 20:43	KCF
Wet Chemistry by Method 9056A	WG975534	100	05/02/17 21:00	05/02/17 21:00	KCF
Metals (ICPMS) by Method 6020	WG975071	1	05/03/17 22:13	05/05/17 02:22	LAT
Metals (ICPMS) by Method 6020	WG975081	1	05/03/17 08:39	05/04/17 19:57	VSS
Metals (ICPMS) by Method 6020	WG975081	1	05/03/17 08:39	05/05/17 02:54	LAT
Metals (ICPMS) by Method 6020	WG975081	1	05/03/17 08:39	05/05/17 12:24	LAT
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG975302	1	05/05/17 11:40	05/05/17 11:40	LRL
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975531	1	05/02/17 09:43	05/02/17 09:43	DWR
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG975930	1	05/03/17 00:21	05/05/17 03:59	TRF

TEL-2 L905645-03 GW

Collected by: Scott Ude-HMI Team
Collected date/time: 04/27/17 10:45
Received date/time: 04/28/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG975909	1	05/03/17 13:20	05/03/17 14:04	MMF
Wet Chemistry by Method 353.2	WG975587	10	05/02/17 14:43	05/02/17 14:43	DR
Wet Chemistry by Method 9056A	WG975534	1	05/02/17 21:18	05/02/17 21:18	KCF
Wet Chemistry by Method 9056A	WG975534	100	05/02/17 21:35	05/02/17 21:35	KCF
Wet Chemistry by Method 9056A	WG976223	10	05/04/17 11:58	05/04/17 11:58	KCF
Metals (ICPMS) by Method 6020	WG975071	1	05/03/17 22:13	05/05/17 02:25	LAT
Metals (ICPMS) by Method 6020	WG975081	1	05/03/17 08:39	05/04/17 20:00	VSS
Metals (ICPMS) by Method 6020	WG975081	1	05/03/17 08:39	05/05/17 02:58	LAT
Metals (ICPMS) by Method 6020	WG975081	1	05/03/17 08:39	05/05/17 12:39	LAT
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG975302	1	05/05/17 12:02	05/05/17 12:02	LRL
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975531	10	05/02/17 10:07	05/02/17 10:07	DWR
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG975930	5	05/03/17 00:21	05/05/17 15:29	DMG

TEL-1 L905645-04 GW

Collected by: Scott Ude-HMI Team
Collected date/time: 04/27/17 08:55
Received date/time: 04/28/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG975909	1	05/03/17 13:20	05/03/17 14:04	MMF
Wet Chemistry by Method 353.2	WG975894	10	05/03/17 15:00	05/03/17 15:00	DR

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

TEL-1 L905645-04 GW

Collected by: Scott Ude-HMI Team
Collected date/time: 04/27/17 08:55
Received date/time: 04/28/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Wet Chemistry by Method 9056A	WG975534	1	05/02/17 21:52	05/02/17 21:52	KCF
Wet Chemistry by Method 9056A	WG976223	50	05/04/17 12:15	05/04/17 12:15	KCF
Metals (ICPMS) by Method 6020	WG975071	1	05/03/17 22:13	05/05/17 02:29	LAT
Metals (ICPMS) by Method 6020	WG975081	1	05/03/17 08:39	05/04/17 20:04	VSS
Metals (ICPMS) by Method 6020	WG975081	1	05/03/17 08:39	05/05/17 03:02	LAT
Metals (ICPMS) by Method 6020	WG975081	1	05/03/17 08:39	05/05/17 12:42	LAT
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG975302	1	04/30/17 23:40	04/30/17 23:40	LRL
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975531	1	05/02/17 10:30	05/02/17 10:30	DWR
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG975930	2	05/03/17 00:21	05/05/17 15:13	DMG

DUP-TEL-01 L905645-05 GW

Collected by: Scott Ude-HMI Team
Collected date/time: 04/27/17 11:00
Received date/time: 04/28/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG975909	1	05/03/17 13:20	05/03/17 14:04	MMF
Wet Chemistry by Method 353.2	WG975894	10	05/03/17 15:01	05/03/17 15:01	DR
Wet Chemistry by Method 9056A	WG976555	1	05/04/17 12:24	05/04/17 12:24	SAM
Wet Chemistry by Method 9056A	WG976555	50	05/04/17 12:39	05/04/17 12:39	SAM
Metals (ICPMS) by Method 6020	WG975071	1	05/03/17 22:13	05/05/17 02:32	LAT
Metals (ICPMS) by Method 6020	WG975081	1	05/03/17 08:39	05/04/17 20:07	VSS
Metals (ICPMS) by Method 6020	WG975081	1	05/03/17 08:39	05/05/17 03:05	LAT
Metals (ICPMS) by Method 6020	WG975081	1	05/03/17 08:39	05/05/17 12:45	LAT
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG975302	1	05/05/17 12:24	05/05/17 12:24	LRL
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975535	1	05/08/17 02:56	05/08/17 02:56	LRL
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG975930	1	05/03/17 00:21	05/05/17 04:49	TRF

EB-TEL-01 L905645-06 GW

Collected by: Scott Ude-HMI Team
Collected date/time: 04/27/17 12:05
Received date/time: 04/28/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG975909	1	05/03/17 13:20	05/03/17 14:04	MMF
Wet Chemistry by Method 353.2	WG975894	10	05/03/17 15:02	05/03/17 15:02	DR
Wet Chemistry by Method 9056A	WG976555	1	05/04/17 12:55	05/04/17 12:55	SAM
Metals (ICPMS) by Method 6020	WG975071	1	05/03/17 22:13	05/05/17 02:36	LAT
Metals (ICPMS) by Method 6020	WG975081	1	05/03/17 08:39	05/04/17 20:11	VSS
Metals (ICPMS) by Method 6020	WG975081	1	05/03/17 08:39	05/05/17 03:09	LAT
Metals (ICPMS) by Method 6020	WG975081	1	05/03/17 08:39	05/05/17 12:49	LAT
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG975302	1	05/01/17 00:29	05/01/17 00:29	LRL
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975535	1	05/02/17 18:55	05/02/17 18:55	JHH
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG975930	1	05/03/17 00:21	05/05/17 05:06	TRF

TRIP BLANK-TEL-01 L905645-07 GW

Collected by: Scott Ude-HMI Team
Collected date/time: 04/27/17 00:00
Received date/time: 04/28/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975535	1	05/02/17 18:41	05/02/17 18:41	JHH

MW-49 L905645-08 GW

Collected by: Scott Ude-HMI Team
Collected date/time: 04/27/17 10:30
Received date/time: 04/29/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG975909	1	05/03/17 13:20	05/03/17 14:04	MMF
Wet Chemistry by Method 353.2	WG975894	10	05/03/17 15:03	05/03/17 15:03	DR
Wet Chemistry by Method 4500CN E-2011	WG975885	50	05/03/17 09:09	05/03/17 13:40	DR
Wet Chemistry by Method 9056A	WG976555	1	05/04/17 13:26	05/04/17 13:26	SAM
Wet Chemistry by Method 9056A	WG976555	10	05/04/17 13:41	05/04/17 13:41	SAM
Mercury by Method 7470A	WG975644	1	05/02/17 11:20	05/03/17 11:45	TRB
Mercury by Method 7470A	WG975835	1	05/02/17 14:13	05/03/17 10:45	TRB
Metals (ICPMS) by Method 6020	WG975340	1	05/02/17 14:58	05/02/17 18:39	VSS
Metals (ICPMS) by Method 6020	WG978287	1	05/10/17 12:38	05/10/17 17:09	VSS
Metals (ICPMS) by Method 6020	WG978287	1	05/10/17 12:38	05/10/17 21:40	VSS
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG975393	1	05/01/17 13:58	05/01/17 13:58	BMB
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975945	10	05/02/17 22:15	05/02/17 22:15	ACG
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG975930	1	05/03/17 00:21	05/05/17 05:23	TRF

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times. 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
Technical Service Representative

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Dissolved Solids	6520		2.82	10.0	1	05/03/2017 13:18	WG975907

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	0.404	J	0.197	1.00	10	05/02/2017 14:41	WG975587

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	442		2.60	50.0	50	05/04/2017 11:41	WG976223
Fluoride	1.36		0.00990	0.100	1	05/02/2017 19:33	WG975534
Sulfate	2680		7.74	500	100	05/02/2017 19:51	WG975534

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.00723		0.000250	0.00200	1	05/04/2017 19:53	WG975081
Arsenic,Dissolved	0.00660		0.000250	0.00200	1	05/05/2017 02:01	WG975071
Barium	0.0185		0.000360	0.00500	1	05/04/2017 19:53	WG975081
Barium,Dissolved	0.0188		0.000360	0.00500	1	05/05/2017 02:01	WG975071
Calcium	432		0.0460	1.00	1	05/04/2017 19:53	WG975081
Chromium	0.790		0.000540	0.00200	1	05/04/2017 19:53	WG975081
Chromium,Dissolved	0.0114		0.000540	0.00200	1	05/05/2017 02:01	WG975071
Iron	1.45		0.0150	0.100	1	05/04/2017 19:53	WG975081
Iron,Dissolved	U		0.0150	0.100	1	05/05/2017 02:01	WG975071
Lead	0.00173	J	0.000240	0.00200	1	05/05/2017 12:21	WG975081
Lead,Dissolved	0.000416	J	0.000240	0.00200	1	05/05/2017 02:01	WG975071
Manganese	0.973		0.000250	0.00500	1	05/04/2017 19:53	WG975081
Manganese,Dissolved	1.04		0.000250	0.00500	1	05/05/2017 02:01	WG975071
Potassium	0.587	J	0.0370	1.00	1	05/04/2017 19:53	WG975081
Selenium	0.000535	J	0.000380	0.00200	1	05/05/2017 02:51	WG975081
Selenium,Dissolved	0.000623	J	0.000380	0.00200	1	05/05/2017 02:01	WG975071
Sodium	542		0.110	1.00	1	05/04/2017 19:53	WG975081

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	1.25		0.0314	0.100	1	05/05/2017 11:18	WG975302
(S) a,a,a-Trifluorotoluene(FID)	*96.5*			*77.0-122*		*05/05/2017 11:18*	WG975302

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Acetone	U	J3	0.100	0.500	10	05/02/2017 09:20	WG975531
Benzene	0.0595		0.00331	0.0100	10	05/02/2017 09:20	WG975531
Bromodichloromethane	U		0.00380	0.0100	10	05/02/2017 09:20	WG975531
Bromoform	U		0.00469	0.0100	10	05/02/2017 09:20	WG975531
Bromomethane	U		0.00866	0.0500	10	05/02/2017 09:20	WG975531
n-Butylbenzene	U		0.00361	0.0100	10	05/02/2017 09:20	WG975531
sec-Butylbenzene	0.00766	J	0.00365	0.0100	10	05/02/2017 09:20	WG975531
Carbon disulfide	U		0.00275	0.0100	10	05/02/2017 09:20	WG975531
Carbon tetrachloride	U		0.00379	0.0100	10	05/02/2017 09:20	WG975531

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chlorobenzene	U		0.00348	0.0100	10	05/02/2017 09:20	WG975531
Chlorodibromomethane	U		0.00327	0.0100	10	05/02/2017 09:20	WG975531
Chloroethane	U		0.00453	0.0500	10	05/02/2017 09:20	WG975531
Chloroform	U		0.00324	0.0500	10	05/02/2017 09:20	WG975531
Chloromethane	U		0.00276	0.0250	10	05/02/2017 09:20	WG975531
1,2-Dibromoethane	U		0.00381	0.0100	10	05/02/2017 09:20	WG975531
1,1-Dichloroethane	U		0.00259	0.0100	10	05/02/2017 09:20	WG975531
1,2-Dichloroethane	U		0.00361	0.0100	10	05/02/2017 09:20	WG975531
1,1-Dichloroethene	U		0.00398	0.0100	10	05/02/2017 09:20	WG975531
cis-1,2-Dichloroethene	U		0.00260	0.0100	10	05/02/2017 09:20	WG975531
trans-1,2-Dichloroethene	U		0.00396	0.0100	10	05/02/2017 09:20	WG975531
1,2-Dichloropropane	U		0.00306	0.0100	10	05/02/2017 09:20	WG975531
cis-1,3-Dichloropropene	U		0.00418	0.0100	10	05/02/2017 09:20	WG975531
trans-1,3-Dichloropropene	U		0.00419	0.0100	10	05/02/2017 09:20	WG975531
Ethylbenzene	U		0.00384	0.0100	10	05/02/2017 09:20	WG975531
Isopropylbenzene	0.0344		0.00326	0.0100	10	05/02/2017 09:20	WG975531
p-Isopropyltoluene	U		0.00350	0.0100	10	05/02/2017 09:20	WG975531
2-Butanone (MEK)	U		0.0393	0.100	10	05/02/2017 09:20	WG975531
2-Hexanone	U		0.0382	0.100	10	05/02/2017 09:20	WG975531
Methylene Chloride	U		0.0100	0.0500	10	05/02/2017 09:20	WG975531
4-Methyl-2-pentanone (MIBK)	U		0.0214	0.100	10	05/02/2017 09:20	WG975531
Methyl tert-butyl ether	0.0522		0.00367	0.0100	10	05/02/2017 09:20	WG975531
Naphthalene	U		0.0100	0.0500	10	05/02/2017 09:20	WG975531
n-Propylbenzene	0.0423		0.00349	0.0100	10	05/02/2017 09:20	WG975531
Styrene	U		0.00307	0.0100	10	05/02/2017 09:20	WG975531
1,1,1,2-Tetrachloroethane	U		0.00385	0.0100	10	05/02/2017 09:20	WG975531
1,1,2,2-Tetrachloroethane	U		0.00130	0.0100	10	05/02/2017 09:20	WG975531
Tetrachloroethene	U		0.00372	0.0100	10	05/02/2017 09:20	WG975531
Toluene	U		0.00412	0.0100	10	05/02/2017 09:20	WG975531
1,1,1-Trichloroethane	U		0.00319	0.0100	10	05/02/2017 09:20	WG975531
1,1,2-Trichloroethane	U		0.00383	0.0100	10	05/02/2017 09:20	WG975531
Trichloroethene	U		0.00398	0.0100	10	05/02/2017 09:20	WG975531
1,2,4-Trimethylbenzene	0.0287		0.00373	0.0100	10	05/02/2017 09:20	WG975531
1,3,5-Trimethylbenzene	U		0.00387	0.0100	10	05/02/2017 09:20	WG975531
Vinyl chloride	U		0.00259	0.0100	10	05/02/2017 09:20	WG975531
o-Xylene	U		0.00341	0.0100	10	05/02/2017 09:20	WG975531
m&p-Xylene	0.0243		0.00719	0.0200	10	05/02/2017 09:20	WG975531
Xylenes, Total	0.0243	J	0.0106	0.0300	10	05/02/2017 09:20	WG975531
(S) Toluene-d8	*104*			*80.0-120*		*05/02/2017 09:20*	WG975531
(S) Dibromofluoromethane	*103*			*76.0-123*		*05/02/2017 09:20*	WG975531
(S) 4-Bromofluorobenzene	*99.6*			*80.0-120*		*05/02/2017 09:20*	WG975531

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	8.44		0.0247	0.100	1	05/05/2017 03:42	WG975930
(S) o-Terphenyl	*71.9*			*31.0-160*		*05/05/2017 03:42*	WG975930

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Dissolved Solids	1980		2.82	10.0	1	05/03/2017 13:18	WG975907

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	0.269	J	0.197	1.00	10	05/02/2017 14:42	WG975587

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	55.1		0.0519	1.00	1	05/02/2017 20:43	WG975534
Fluoride	3.04		0.00990	0.100	1	05/02/2017 20:43	WG975534
Sulfate	1070		7.74	500	100	05/02/2017 21:00	WG975534

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.00204		0.000250	0.00200	1	05/04/2017 19:57	WG975081
Arsenic,Dissolved	0.00225		0.000250	0.00200	1	05/05/2017 02:22	WG975071
Barium	0.0161		0.000360	0.00500	1	05/04/2017 19:57	WG975081
Barium,Dissolved	0.0173		0.000360	0.00500	1	05/05/2017 02:22	WG975071
Calcium	463		0.0460	1.00	1	05/04/2017 19:57	WG975081
Chromium	0.156		0.000540	0.00200	1	05/04/2017 19:57	WG975081
Chromium,Dissolved	0.00158	B J	0.000540	0.00200	1	05/05/2017 02:22	WG975071
Iron	0.473		0.0150	0.100	1	05/04/2017 19:57	WG975081
Iron,Dissolved	U		0.0150	0.100	1	05/05/2017 02:22	WG975071
Lead	0.000250	J	0.000240	0.00200	1	05/05/2017 12:24	WG975081
Lead,Dissolved	U		0.000240	0.00200	1	05/05/2017 02:22	WG975071
Manganese	0.0121		0.000250	0.00500	1	05/04/2017 19:57	WG975081
Manganese,Dissolved	0.0115		0.000250	0.00500	1	05/05/2017 02:22	WG975071
Potassium	5.21		0.0370	1.00	1	05/04/2017 19:57	WG975081
Selenium	U		0.000380	0.00200	1	05/05/2017 02:54	WG975081
Selenium,Dissolved	U		0.000380	0.00200	1	05/05/2017 02:22	WG975071
Sodium	39.8		0.110	1.00	1	05/04/2017 19:57	WG975081

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	0.716		0.0314	0.100	1	05/05/2017 11:40	WG975302
(S) a,a,a-Trifluorotoluene(FID)	*95.1*			*77.0-122*		*05/05/2017 11:40*	WG975302

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Acetone	U	J3	0.0100	0.0500	1	05/02/2017 09:43	WG975531
Benzene	0.0799		0.000331	0.00100	1	05/02/2017 09:43	WG975531
Bromodichloromethane	U		0.000380	0.00100	1	05/02/2017 09:43	WG975531
Bromoform	U		0.000469	0.00100	1	05/02/2017 09:43	WG975531
Bromomethane	U		0.000866	0.00500	1	05/02/2017 09:43	WG975531
n-Butylbenzene	0.00121		0.000361	0.00100	1	05/02/2017 09:43	WG975531
sec-Butylbenzene	0.00806		0.000365	0.00100	1	05/02/2017 09:43	WG975531
Carbon disulfide	0.000918	J	0.000275	0.00100	1	05/02/2017 09:43	WG975531
Carbon tetrachloride	U		0.000379	0.00100	1	05/02/2017 09:43	WG975531

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		0.000348	0.00100	1	05/02/2017 09:43	WG975531
Chlorodibromomethane	U		0.000327	0.00100	1	05/02/2017 09:43	WG975531
Chloroethane	U		0.000453	0.00500	1	05/02/2017 09:43	WG975531
Chloroform	U		0.000324	0.00500	1	05/02/2017 09:43	WG975531
Chloromethane	U		0.000276	0.00250	1	05/02/2017 09:43	WG975531
1,2-Dibromoethane	U		0.000381	0.00100	1	05/02/2017 09:43	WG975531
1,1-Dichloroethane	U		0.000259	0.00100	1	05/02/2017 09:43	WG975531
1,2-Dichloroethane	U		0.000361	0.00100	1	05/02/2017 09:43	WG975531
1,1-Dichloroethene	U		0.000398	0.00100	1	05/02/2017 09:43	WG975531
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	05/02/2017 09:43	WG975531
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	05/02/2017 09:43	WG975531
1,2-Dichloropropane	U		0.000306	0.00100	1	05/02/2017 09:43	WG975531
cis-1,3-Dichloropropene	U		0.000418	0.00100	1	05/02/2017 09:43	WG975531
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	05/02/2017 09:43	WG975531
Ethylbenzene	0.000764	J	0.000384	0.00100	1	05/02/2017 09:43	WG975531
Isopropylbenzene	0.0465		0.000326	0.00100	1	05/02/2017 09:43	WG975531
p-Isopropyltoluene	0.000657	J	0.000350	0.00100	1	05/02/2017 09:43	WG975531
2-Butanone (MEK)	U		0.00393	0.0100	1	05/02/2017 09:43	WG975531
2-Hexanone	U		0.00382	0.0100	1	05/02/2017 09:43	WG975531
Methylene Chloride	U		0.00100	0.00500	1	05/02/2017 09:43	WG975531
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	05/02/2017 09:43	WG975531
Methyl tert-butyl ether	0.00327		0.000367	0.00100	1	05/02/2017 09:43	WG975531
Naphthalene	U		0.00100	0.00500	1	05/02/2017 09:43	WG975531
n-Propylbenzene	0.00869		0.000349	0.00100	1	05/02/2017 09:43	WG975531
Styrene	U		0.000307	0.00100	1	05/02/2017 09:43	WG975531
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	05/02/2017 09:43	WG975531
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	05/02/2017 09:43	WG975531
Tetrachloroethene	U		0.000372	0.00100	1	05/02/2017 09:43	WG975531
Toluene	0.00219		0.000412	0.00100	1	05/02/2017 09:43	WG975531
1,1,1-Trichloroethane	U		0.000319	0.00100	1	05/02/2017 09:43	WG975531
1,1,2-Trichloroethane	U		0.000383	0.00100	1	05/02/2017 09:43	WG975531
Trichloroethene	U		0.000398	0.00100	1	05/02/2017 09:43	WG975531
1,2,4-Trimethylbenzene	0.0163		0.000373	0.00100	1	05/02/2017 09:43	WG975531
1,3,5-Trimethylbenzene	0.000748	J	0.000387	0.00100	1	05/02/2017 09:43	WG975531
Vinyl chloride	U		0.000259	0.00100	1	05/02/2017 09:43	WG975531
o-Xylene	0.00192		0.000341	0.00100	1	05/02/2017 09:43	WG975531
m&p-Xylene	0.00827		0.000719	0.00200	1	05/02/2017 09:43	WG975531
Xylenes, Total	0.0102		0.00106	0.00300	1	05/02/2017 09:43	WG975531
(S) Toluene-d8	*104*			*80.0-120*		*05/02/2017 09:43*	WG975531
(S) Dibromofluoromethane	*103*			*76.0-123*		*05/02/2017 09:43*	WG975531
(S) 4-Bromofluorobenzene	*99.4*			*80.0-120*		*05/02/2017 09:43*	WG975531

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	5.32		0.0247	0.100	1	05/05/2017 03:59	WG975930
(S) o-Terphenyl	*102*			*31.0-160*		*05/05/2017 03:59*	WG975930

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Dissolved Solids	2730		2.82	10.0	1	05/03/2017 14:04	WG975909

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	U		0.197	1.00	10	05/02/2017 14:43	WG975587

Sample Narrative:

353.2 L905645-03 WG975587: 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	302		0.519	10.0	10	05/04/2017 11:58	WG976223
Fluoride	1.11		0.00990	0.100	1	05/02/2017 21:18	WG975534
Sulfate	865		7.74	500	100	05/02/2017 21:35	WG975534

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.0123		0.000250	0.00200	1	05/04/2017 20:00	WG975081
Arsenic,Dissolved	0.0124		0.000250	0.00200	1	05/05/2017 02:25	WG975071
Barium	0.162		0.000360	0.00500	1	05/04/2017 20:00	WG975081
Barium,Dissolved	0.0717		0.000360	0.00500	1	05/05/2017 02:25	WG975071
Calcium	224		0.0460	1.00	1	05/04/2017 20:00	WG975081
Chromium	0.00307		0.000540	0.00200	1	05/04/2017 20:00	WG975081
Chromium,Dissolved	0.00100	B J	0.000540	0.00200	1	05/05/2017 02:25	WG975071
Iron	0.0749	J	0.0150	0.100	1	05/04/2017 20:00	WG975081
Iron,Dissolved	U		0.0150	0.100	1	05/05/2017 02:25	WG975071
Lead	0.00143	J	0.000240	0.00200	1	05/05/2017 12:39	WG975081
Lead,Dissolved	0.00148	J	0.000240	0.00200	1	05/05/2017 02:25	WG975071
Manganese	0.0149		0.000250	0.00500	1	05/04/2017 20:00	WG975081
Manganese,Dissolved	0.0150		0.000250	0.00500	1	05/05/2017 02:25	WG975071
Potassium	1.04		0.0370	1.00	1	05/04/2017 20:00	WG975081
Selenium	0.000558	J	0.000380	0.00200	1	05/05/2017 02:58	WG975081
Selenium,Dissolved	U		0.000380	0.00200	1	05/05/2017 02:25	WG975071
Sodium	411		0.110	1.00	1	05/04/2017 20:00	WG975081

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	3.02		0.0314	0.100	1	05/05/2017 12:02	WG975302
(S) a,a,a-Trifluorotoluene(FID)	*95.7*			*77.0-122*		*05/05/2017 12:02*	WG975302

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Acetone	U	J3	0.100	0.500	10	05/02/2017 10:07	WG975531
Benzene	0.556		0.00331	0.0100	10	05/02/2017 10:07	WG975531
Bromodichloromethane	U		0.00380	0.0100	10	05/02/2017 10:07	WG975531
Bromoform	U		0.00469	0.0100	10	05/02/2017 10:07	WG975531
Bromomethane	U		0.00866	0.0500	10	05/02/2017 10:07	WG975531
n-Butylbenzene	U		0.00361	0.0100	10	05/02/2017 10:07	WG975531

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	0.00400	J	0.00365	0.0100	10	05/02/2017 10:07	WG975531
Carbon disulfide	0.00376	J	0.00275	0.0100	10	05/02/2017 10:07	WG975531
Carbon tetrachloride	U		0.00379	0.0100	10	05/02/2017 10:07	WG975531
Chlorobenzene	U		0.00348	0.0100	10	05/02/2017 10:07	WG975531
Chlorodibromomethane	U		0.00327	0.0100	10	05/02/2017 10:07	WG975531
Chloroethane	U		0.00453	0.0500	10	05/02/2017 10:07	WG975531
Chloroform	U		0.00324	0.0500	10	05/02/2017 10:07	WG975531
Chloromethane	U		0.00276	0.0250	10	05/02/2017 10:07	WG975531
1,2-Dibromoethane	U		0.00381	0.0100	10	05/02/2017 10:07	WG975531
1,1-Dichloroethane	U		0.00259	0.0100	10	05/02/2017 10:07	WG975531
1,2-Dichloroethane	U		0.00361	0.0100	10	05/02/2017 10:07	WG975531
1,1-Dichloroethene	U		0.00398	0.0100	10	05/02/2017 10:07	WG975531
cis-1,2-Dichloroethene	U		0.00260	0.0100	10	05/02/2017 10:07	WG975531
trans-1,2-Dichloroethene	U		0.00396	0.0100	10	05/02/2017 10:07	WG975531
1,2-Dichloropropane	U		0.00306	0.0100	10	05/02/2017 10:07	WG975531
cis-1,3-Dichloropropene	U		0.00418	0.0100	10	05/02/2017 10:07	WG975531
trans-1,3-Dichloropropene	U		0.00419	0.0100	10	05/02/2017 10:07	WG975531
Ethylbenzene	U		0.00384	0.0100	10	05/02/2017 10:07	WG975531
Isopropylbenzene	0.0230		0.00326	0.0100	10	05/02/2017 10:07	WG975531
p-Isopropyltoluene	U		0.00350	0.0100	10	05/02/2017 10:07	WG975531
2-Butanone (MEK)	U		0.0393	0.100	10	05/02/2017 10:07	WG975531
2-Hexanone	U		0.0382	0.100	10	05/02/2017 10:07	WG975531
Methylene Chloride	U		0.0100	0.0500	10	05/02/2017 10:07	WG975531
4-Methyl-2-pentanone (MIBK)	U		0.0214	0.100	10	05/02/2017 10:07	WG975531
Methyl tert-butyl ether	0.0104		0.00367	0.0100	10	05/02/2017 10:07	WG975531
Naphthalene	U		0.0100	0.0500	10	05/02/2017 10:07	WG975531
n-Propylbenzene	0.0270		0.00349	0.0100	10	05/02/2017 10:07	WG975531
Styrene	U		0.00307	0.0100	10	05/02/2017 10:07	WG975531
1,1,1,2-Tetrachloroethane	U		0.00385	0.0100	10	05/02/2017 10:07	WG975531
1,1,2,2-Tetrachloroethane	U		0.00130	0.0100	10	05/02/2017 10:07	WG975531
Tetrachloroethene	U		0.00372	0.0100	10	05/02/2017 10:07	WG975531
Toluene	0.00914	J	0.00412	0.0100	10	05/02/2017 10:07	WG975531
1,1,1-Trichloroethane	U		0.00319	0.0100	10	05/02/2017 10:07	WG975531
1,1,2-Trichloroethane	U		0.00383	0.0100	10	05/02/2017 10:07	WG975531
Trichloroethene	U		0.00398	0.0100	10	05/02/2017 10:07	WG975531
1,2,4-Trimethylbenzene	0.0706		0.00373	0.0100	10	05/02/2017 10:07	WG975531
1,3,5-Trimethylbenzene	0.00599	J	0.00387	0.0100	10	05/02/2017 10:07	WG975531
Vinyl chloride	U		0.00259	0.0100	10	05/02/2017 10:07	WG975531
o-Xylene	0.00370	J	0.00341	0.0100	10	05/02/2017 10:07	WG975531
m&p-Xylene	0.0837		0.00719	0.0200	10	05/02/2017 10:07	WG975531
Xylenes, Total	0.0874		0.0106	0.0300	10	05/02/2017 10:07	WG975531
(S) Toluene-d8	*103*			*80.0-120*		*05/02/2017 10:07*	WG975531
(S) Dibromofluoromethane	*104*			*76.0-123*		*05/02/2017 10:07*	WG975531
(S) 4-Bromofluorobenzene	*97.9*			*80.0-120*		*05/02/2017 10:07*	WG975531

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	14.8		0.124	0.500	5	05/05/2017 15:29	WG975930
(S) o-Terphenyl	*76.5*			*31.0-160*		*05/05/2017 15:29*	WG975930

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Dissolved Solids	2940		2.82	10.0	1	05/03/2017 14:04	WG975909

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	U		0.197	1.00	10	05/03/2017 15:00	WG975894

Sample Narrative:

353.2 L905645-04 WG975894: 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	195		2.60	50.0	50	05/04/2017 12:15	WG976223
Fluoride	2.73		0.00990	0.100	1	05/02/2017 21:52	WG975534
Sulfate	1320		3.87	250	50	05/04/2017 12:15	WG976223

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.00520		0.000250	0.00200	1	05/04/2017 20:04	WG975081
Arsenic,Dissolved	0.00533		0.000250	0.00200	1	05/05/2017 02:29	WG975071
Barium	0.0116		0.000360	0.00500	1	05/04/2017 20:04	WG975081
Barium,Dissolved	0.0130		0.000360	0.00500	1	05/05/2017 02:29	WG975071
Calcium	284		0.0460	1.00	1	05/04/2017 20:04	WG975081
Chromium	0.0260		0.000540	0.00200	1	05/04/2017 20:04	WG975081
Chromium,Dissolved	0.00782		0.000540	0.00200	1	05/05/2017 02:29	WG975071
Iron	0.382		0.0150	0.100	1	05/04/2017 20:04	WG975081
Iron,Dissolved	0.0488	J	0.0150	0.100	1	05/05/2017 02:29	WG975071
Lead	U		0.000240	0.00200	1	05/05/2017 12:42	WG975081
Lead,Dissolved	U		0.000240	0.00200	1	05/05/2017 02:29	WG975071
Manganese	0.117		0.000250	0.00500	1	05/04/2017 20:04	WG975081
Manganese,Dissolved	0.125		0.000250	0.00500	1	05/05/2017 02:29	WG975071
Potassium	1.32		0.0370	1.00	1	05/04/2017 20:04	WG975081
Selenium	U		0.000380	0.00200	1	05/05/2017 03:02	WG975081
Selenium,Dissolved	U		0.000380	0.00200	1	05/05/2017 02:29	WG975071
Sodium	370		0.110	1.00	1	05/04/2017 20:04	WG975081

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	0.285		0.0314	0.100	1	04/30/2017 23:40	WG975302
(S) a,a,a-Trifluorotoluene(FID)	*98.2*			*77.0-122*		*04/30/2017 23:40*	WG975302

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	0.0125	J J3	0.0100	0.0500	1	05/02/2017 10:30	WG975531
Benzene	0.000647	J	0.000331	0.00100	1	05/02/2017 10:30	WG975531
Bromodichloromethane	U		0.000380	0.00100	1	05/02/2017 10:30	WG975531
Bromoform	U		0.000469	0.00100	1	05/02/2017 10:30	WG975531
Bromomethane	U		0.000866	0.00500	1	05/02/2017 10:30	WG975531
n-Butylbenzene	U		0.000361	0.00100	1	05/02/2017 10:30	WG975531

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		0.000365	0.00100	1	05/02/2017 10:30	WG975531
Carbon disulfide	0.000420	J	0.000275	0.00100	1	05/02/2017 10:30	WG975531
Carbon tetrachloride	U		0.000379	0.00100	1	05/02/2017 10:30	WG975531
Chlorobenzene	U		0.000348	0.00100	1	05/02/2017 10:30	WG975531
Chlorodibromomethane	U		0.000327	0.00100	1	05/02/2017 10:30	WG975531
Chloroethane	U		0.000453	0.00500	1	05/02/2017 10:30	WG975531
Chloroform	U		0.000324	0.00500	1	05/02/2017 10:30	WG975531
Chloromethane	U		0.000276	0.00250	1	05/02/2017 10:30	WG975531
1,2-Dibromoethane	U		0.000381	0.00100	1	05/02/2017 10:30	WG975531
1,1-Dichloroethane	U		0.000259	0.00100	1	05/02/2017 10:30	WG975531
1,2-Dichloroethane	U		0.000361	0.00100	1	05/02/2017 10:30	WG975531
1,1-Dichloroethene	U		0.000398	0.00100	1	05/02/2017 10:30	WG975531
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	05/02/2017 10:30	WG975531
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	05/02/2017 10:30	WG975531
1,2-Dichloropropane	U		0.000306	0.00100	1	05/02/2017 10:30	WG975531
cis-1,3-Dichloropropene	U		0.000418	0.00100	1	05/02/2017 10:30	WG975531
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	05/02/2017 10:30	WG975531
Ethylbenzene	0.000506	J	0.000384	0.00100	1	05/02/2017 10:30	WG975531
Isopropylbenzene	0.000391	J	0.000326	0.00100	1	05/02/2017 10:30	WG975531
p-Isopropyltoluene	U		0.000350	0.00100	1	05/02/2017 10:30	WG975531
2-Butanone (MEK)	0.00602	J	0.00393	0.0100	1	05/02/2017 10:30	WG975531
2-Hexanone	U		0.00382	0.0100	1	05/02/2017 10:30	WG975531
Methylene Chloride	U		0.00100	0.00500	1	05/02/2017 10:30	WG975531
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	05/02/2017 10:30	WG975531
Methyl tert-butyl ether	0.00231		0.000367	0.00100	1	05/02/2017 10:30	WG975531
Naphthalene	U		0.00100	0.00500	1	05/02/2017 10:30	WG975531
n-Propylbenzene	U		0.000349	0.00100	1	05/02/2017 10:30	WG975531
Styrene	U		0.000307	0.00100	1	05/02/2017 10:30	WG975531
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	05/02/2017 10:30	WG975531
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	05/02/2017 10:30	WG975531
Tetrachloroethene	U		0.000372	0.00100	1	05/02/2017 10:30	WG975531
Toluene	0.000539	J	0.000412	0.00100	1	05/02/2017 10:30	WG975531
1,1,1-Trichloroethane	U		0.000319	0.00100	1	05/02/2017 10:30	WG975531
1,1,2-Trichloroethane	U		0.000383	0.00100	1	05/02/2017 10:30	WG975531
Trichloroethene	U		0.000398	0.00100	1	05/02/2017 10:30	WG975531
1,2,4-Trimethylbenzene	0.000500	J	0.000373	0.00100	1	05/02/2017 10:30	WG975531
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	05/02/2017 10:30	WG975531
Vinyl chloride	U		0.000259	0.00100	1	05/02/2017 10:30	WG975531
o-Xylene	0.000572	J	0.000341	0.00100	1	05/02/2017 10:30	WG975531
m&p-Xylene	U		0.000719	0.00200	1	05/02/2017 10:30	WG975531
Xylenes, Total	U		0.00106	0.00300	1	05/02/2017 10:30	WG975531
(S) Toluene-d8	*104*			*80.0-120*		*05/02/2017 10:30*	WG975531
(S) Dibromofluoromethane	*104*			*76.0-123*		*05/02/2017 10:30*	WG975531
(S) 4-Bromofluorobenzene	*100*			*80.0-120*		*05/02/2017 10:30*	WG975531

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	9.45		0.0494	0.200	2	05/05/2017 15:13	WG975930
(S) o-Terphenyl	*87.6*			*31.0-160*		*05/05/2017 15:13*	WG975930

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Dissolved Solids	5570		2.82	10.0	1	05/03/2017 14:04	WG975909

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	U		0.197	1.00	10	05/03/2017 15:01	WG975894

Sample Narrative:

353.2 L905645-05 WG975894: 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	436		2.60	50.0	50	05/04/2017 12:39	WG976555
Fluoride	1.22		0.00990	0.100	1	05/04/2017 12:24	WG976555
Sulfate	2630		3.87	250	50	05/04/2017 12:39	WG976555

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.00707		0.000250	0.00200	1	05/04/2017 20:07	WG975081
Arsenic,Dissolved	0.00692		0.000250	0.00200	1	05/05/2017 02:32	WG975071
Barium	0.0180		0.000360	0.00500	1	05/04/2017 20:07	WG975081
Barium,Dissolved	0.0199		0.000360	0.00500	1	05/05/2017 02:32	WG975071
Calcium	427		0.0460	1.00	1	05/04/2017 20:07	WG975081
Chromium	0.443		0.000540	0.00200	1	05/04/2017 20:07	WG975081
Chromium,Dissolved	0.0101		0.000540	0.00200	1	05/05/2017 02:32	WG975071
Iron	0.105		0.0150	0.100	1	05/04/2017 20:07	WG975081
Iron,Dissolved	U		0.0150	0.100	1	05/05/2017 02:32	WG975071
Lead	0.00110	J	0.000240	0.00200	1	05/05/2017 12:45	WG975081
Lead,Dissolved	0.000510	J	0.000240	0.00200	1	05/05/2017 02:32	WG975071
Manganese	0.963		0.000250	0.00500	1	05/04/2017 20:07	WG975081
Manganese,Dissolved	1.07		0.000250	0.00500	1	05/05/2017 02:32	WG975071
Potassium	0.588	J	0.0370	1.00	1	05/04/2017 20:07	WG975081
Selenium	U		0.000380	0.00200	1	05/05/2017 03:05	WG975081
Selenium,Dissolved	0.000522	J	0.000380	0.00200	1	05/05/2017 02:32	WG975071
Sodium	546		0.110	1.00	1	05/04/2017 20:07	WG975081

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	1.29		0.0314	0.100	1	05/05/2017 12:24	WG975302
(S) a,a,a-Trifluorotoluene(FID)	*97.4*			*77.0-122*		*05/05/2017 12:24*	WG975302

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		0.0100	0.0500	1	05/08/2017 02:56	WG975535
Benzene	0.0583		0.000331	0.00100	1	05/08/2017 02:56	WG975535
Bromodichloromethane	U		0.000380	0.00100	1	05/08/2017 02:56	WG975535
Bromoform	U		0.000469	0.00100	1	05/08/2017 02:56	WG975535
Bromomethane	U		0.000866	0.00500	1	05/08/2017 02:56	WG975535
n-Butylbenzene	0.00430		0.000361	0.00100	1	05/08/2017 02:56	WG975535

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	0.0108		0.000365	0.00100	1	05/08/2017 02:56	WG975535
Carbon disulfide	0.000882	J	0.000275	0.00100	1	05/08/2017 02:56	WG975535
Carbon tetrachloride	U		0.000379	0.00100	1	05/08/2017 02:56	WG975535
Chlorobenzene	U		0.000348	0.00100	1	05/08/2017 02:56	WG975535
Chlorodibromomethane	U		0.000327	0.00100	1	05/08/2017 02:56	WG975535
Chloroethane	U		0.000453	0.00500	1	05/08/2017 02:56	WG975535
Chloroform	U		0.000324	0.00500	1	05/08/2017 02:56	WG975535
Chloromethane	U		0.000276	0.00250	1	05/08/2017 02:56	WG975535
1,2-Dibromoethane	U		0.000381	0.00100	1	05/08/2017 02:56	WG975535
1,1-Dichloroethane	U		0.000259	0.00100	1	05/08/2017 02:56	WG975535
1,2-Dichloroethane	U		0.000361	0.00100	1	05/08/2017 02:56	WG975535
1,1-Dichloroethene	U		0.000398	0.00100	1	05/08/2017 02:56	WG975535
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	05/08/2017 02:56	WG975535
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	05/08/2017 02:56	WG975535
1,2-Dichloropropane	U		0.000306	0.00100	1	05/08/2017 02:56	WG975535
cis-1,3-Dichloropropene	U		0.000418	0.00100	1	05/08/2017 02:56	WG975535
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	05/08/2017 02:56	WG975535
Ethylbenzene	0.000616	J	0.000384	0.00100	1	05/08/2017 02:56	WG975535
Isopropylbenzene	0.0442		0.000326	0.00100	1	05/08/2017 02:56	WG975535
p-Isopropyltoluene	0.000555	J	0.000350	0.00100	1	05/08/2017 02:56	WG975535
2-Butanone (MEK)	U		0.00393	0.0100	1	05/08/2017 02:56	WG975535
2-Hexanone	U		0.00382	0.0100	1	05/08/2017 02:56	WG975535
Methylene Chloride	U		0.00100	0.00500	1	05/08/2017 02:56	WG975535
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	05/08/2017 02:56	WG975535
Methyl tert-butyl ether	0.0492		0.000367	0.00100	1	05/08/2017 02:56	WG975535
Naphthalene	U		0.00100	0.00500	1	05/08/2017 02:56	WG975535
n-Propylbenzene	0.0522		0.000349	0.00100	1	05/08/2017 02:56	WG975535
Styrene	U		0.000307	0.00100	1	05/08/2017 02:56	WG975535
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	05/08/2017 02:56	WG975535
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	05/08/2017 02:56	WG975535
Tetrachloroethene	U		0.000372	0.00100	1	05/08/2017 02:56	WG975535
Toluene	0.00218		0.000412	0.00100	1	05/08/2017 02:56	WG975535
1,1,1-Trichloroethane	U		0.000319	0.00100	1	05/08/2017 02:56	WG975535
1,1,2-Trichloroethane	U		0.000383	0.00100	1	05/08/2017 02:56	WG975535
Trichloroethene	U		0.000398	0.00100	1	05/08/2017 02:56	WG975535
1,2,4-Trimethylbenzene	0.0352		0.000373	0.00100	1	05/08/2017 02:56	WG975535
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	05/08/2017 02:56	WG975535
Vinyl chloride	U		0.000259	0.00100	1	05/08/2017 02:56	WG975535
o-Xylene	0.000606	J	0.000341	0.00100	1	05/08/2017 02:56	WG975535
m&p-Xylene	0.0281		0.000719	0.00200	1	05/08/2017 02:56	WG975535
Xylenes, Total	0.0287		0.00106	0.00300	1	05/08/2017 02:56	WG975535
(S) Toluene-d8	*106*			*80.0-120*		*05/08/2017 02:56*	WG975535
(S) Dibromofluoromethane	*100*			*76.0-123*		*05/08/2017 02:56*	WG975535
(S) 4-Bromofluorobenzene	*95.1*			*80.0-120*		*05/08/2017 02:56*	WG975535

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	8.00		0.0247	0.100	1	05/05/2017 04:49	WG975930
(S) o-Terphenyl	*84.1*			*31.0-160*		*05/05/2017 04:49*	WG975930

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Dissolved Solids	3.00	J	2.82	10.0	1	05/03/2017 14:04	WG975909

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	U		0.197	1.00	10	05/03/2017 15:02	WG975894

Sample Narrative:

353.2 L905645-06 WG975894: 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	0.472	J	0.0519	1.00	1	05/04/2017 12:55	WG976555
Fluoride	U		0.00990	0.100	1	05/04/2017 12:55	WG976555
Sulfate	U		0.0774	5.00	1	05/04/2017 12:55	WG976555

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	U		0.000250	0.00200	1	05/04/2017 20:11	WG975081
Arsenic,Dissolved	U		0.000250	0.00200	1	05/05/2017 02:36	WG975071
Barium	U		0.000360	0.00500	1	05/04/2017 20:11	WG975081
Barium,Dissolved	U		0.000360	0.00500	1	05/05/2017 02:36	WG975071
Calcium	U		0.0460	1.00	1	05/04/2017 20:11	WG975081
Chromium	U		0.000540	0.00200	1	05/04/2017 20:11	WG975081
Chromium,Dissolved	0.000979	B J	0.000540	0.00200	1	05/05/2017 02:36	WG975071
Iron	0.0321	J	0.0150	0.100	1	05/04/2017 20:11	WG975081
Iron,Dissolved	U		0.0150	0.100	1	05/05/2017 02:36	WG975071
Lead	U		0.000240	0.00200	1	05/05/2017 12:49	WG975081
Lead,Dissolved	U		0.000240	0.00200	1	05/05/2017 02:36	WG975071
Manganese	U		0.000250	0.00500	1	05/04/2017 20:11	WG975081
Manganese,Dissolved	0.000362	J	0.000250	0.00500	1	05/05/2017 02:36	WG975071
Potassium	U		0.0370	1.00	1	05/04/2017 20:11	WG975081
Selenium	U		0.000380	0.00200	1	05/05/2017 03:09	WG975081
Selenium,Dissolved	U		0.000380	0.00200	1	05/05/2017 02:36	WG975071
Sodium	0.258	J	0.110	1.00	1	05/04/2017 20:11	WG975081

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	05/01/2017 00:29	WG975302
(S) a,a,a-Trifluorotoluene(FID)	*100*			*77.0-122*		*05/01/2017 00:29*	WG975302

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		0.0100	0.0500	1	05/02/2017 18:55	WG975535
Benzene	U		0.000331	0.00100	1	05/02/2017 18:55	WG975535
Bromodichloromethane	U		0.000380	0.00100	1	05/02/2017 18:55	WG975535
Bromoform	U		0.000469	0.00100	1	05/02/2017 18:55	WG975535
Bromomethane	U		0.000866	0.00500	1	05/02/2017 18:55	WG975535
n-Butylbenzene	U		0.000361	0.00100	1	05/02/2017 18:55	WG975535

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		0.000365	0.00100	1	05/02/2017 18:55	WG975535
Carbon disulfide	U		0.000275	0.00100	1	05/02/2017 18:55	WG975535
Carbon tetrachloride	U		0.000379	0.00100	1	05/02/2017 18:55	WG975535
Chlorobenzene	U		0.000348	0.00100	1	05/02/2017 18:55	WG975535
Chlorodibromomethane	U		0.000327	0.00100	1	05/02/2017 18:55	WG975535
Chloroethane	U		0.000453	0.00500	1	05/02/2017 18:55	WG975535
Chloroform	U		0.000324	0.00500	1	05/02/2017 18:55	WG975535
Chloromethane	U		0.000276	0.00250	1	05/02/2017 18:55	WG975535
1,2-Dibromoethane	U		0.000381	0.00100	1	05/02/2017 18:55	WG975535
1,1-Dichloroethane	U		0.000259	0.00100	1	05/02/2017 18:55	WG975535
1,2-Dichloroethane	U		0.000361	0.00100	1	05/02/2017 18:55	WG975535
1,1-Dichloroethene	U		0.000398	0.00100	1	05/02/2017 18:55	WG975535
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	05/02/2017 18:55	WG975535
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	05/02/2017 18:55	WG975535
1,2-Dichloropropane	U		0.000306	0.00100	1	05/02/2017 18:55	WG975535
cis-1,3-Dichloropropene	U		0.000418	0.00100	1	05/02/2017 18:55	WG975535
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	05/02/2017 18:55	WG975535
Ethylbenzene	U		0.000384	0.00100	1	05/02/2017 18:55	WG975535
Isopropylbenzene	U		0.000326	0.00100	1	05/02/2017 18:55	WG975535
p-Isopropyltoluene	U		0.000350	0.00100	1	05/02/2017 18:55	WG975535
2-Butanone (MEK)	U		0.00393	0.0100	1	05/02/2017 18:55	WG975535
2-Hexanone	U		0.00382	0.0100	1	05/02/2017 18:55	WG975535
Methylene Chloride	U		0.00100	0.00500	1	05/02/2017 18:55	WG975535
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	05/02/2017 18:55	WG975535
Methyl tert-butyl ether	U		0.000367	0.00100	1	05/02/2017 18:55	WG975535
Naphthalene	U		0.00100	0.00500	1	05/02/2017 18:55	WG975535
n-Propylbenzene	U		0.000349	0.00100	1	05/02/2017 18:55	WG975535
Styrene	U		0.000307	0.00100	1	05/02/2017 18:55	WG975535
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	05/02/2017 18:55	WG975535
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	05/02/2017 18:55	WG975535
Tetrachloroethene	U		0.000372	0.00100	1	05/02/2017 18:55	WG975535
Toluene	U		0.000412	0.00100	1	05/02/2017 18:55	WG975535
1,1,1-Trichloroethane	U		0.000319	0.00100	1	05/02/2017 18:55	WG975535
1,1,2-Trichloroethane	U		0.000383	0.00100	1	05/02/2017 18:55	WG975535
Trichloroethene	U		0.000398	0.00100	1	05/02/2017 18:55	WG975535
1,2,4-Trimethylbenzene	U		0.000373	0.00100	1	05/02/2017 18:55	WG975535
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	05/02/2017 18:55	WG975535
Vinyl chloride	U		0.000259	0.00100	1	05/02/2017 18:55	WG975535
o-Xylene	U		0.000341	0.00100	1	05/02/2017 18:55	WG975535
m&p-Xylene	U		0.000719	0.00200	1	05/02/2017 18:55	WG975535
Xylenes, Total	U		0.00106	0.00300	1	05/02/2017 18:55	WG975535
(S) Toluene-d8	*96.5*			*80.0-120*		*05/02/2017 18:55*	WG975535
(S) Dibromofluoromethane	*80.4*			*76.0-123*		*05/02/2017 18:55*	WG975535
(S) 4-Bromofluorobenzene	*91.3*			*80.0-120*		*05/02/2017 18:55*	WG975535

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	0.0844	J	0.0247	0.100	1	05/05/2017 05:06	WG975930
(S) o-Terphenyl	*74.5*			*31.0-160*		*05/05/2017 05:06*	WG975930

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		0.0100	0.0500	1	05/02/2017 18:41	WG975535
Benzene	U		0.000331	0.00100	1	05/02/2017 18:41	WG975535
Bromodichloromethane	U		0.000380	0.00100	1	05/02/2017 18:41	WG975535
Bromoform	U		0.000469	0.00100	1	05/02/2017 18:41	WG975535
Bromomethane	U		0.000866	0.00500	1	05/02/2017 18:41	WG975535
n-Butylbenzene	U		0.000361	0.00100	1	05/02/2017 18:41	WG975535
sec-Butylbenzene	U		0.000365	0.00100	1	05/02/2017 18:41	WG975535
Carbon disulfide	U		0.000275	0.00100	1	05/02/2017 18:41	WG975535
Carbon tetrachloride	U		0.000379	0.00100	1	05/02/2017 18:41	WG975535
Chlorobenzene	U		0.000348	0.00100	1	05/02/2017 18:41	WG975535
Chlorodibromomethane	U		0.000327	0.00100	1	05/02/2017 18:41	WG975535
Chloroethane	U		0.000453	0.00500	1	05/02/2017 18:41	WG975535
Chloroform	U		0.000324	0.00500	1	05/02/2017 18:41	WG975535
Chloromethane	U		0.000276	0.00250	1	05/02/2017 18:41	WG975535
1,2-Dibromoethane	U		0.000381	0.00100	1	05/02/2017 18:41	WG975535
1,1-Dichloroethane	U		0.000259	0.00100	1	05/02/2017 18:41	WG975535
1,2-Dichloroethane	U		0.000361	0.00100	1	05/02/2017 18:41	WG975535
1,1-Dichloroethene	U		0.000398	0.00100	1	05/02/2017 18:41	WG975535
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	05/02/2017 18:41	WG975535
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	05/02/2017 18:41	WG975535
1,2-Dichloropropane	U		0.000306	0.00100	1	05/02/2017 18:41	WG975535
cis-1,3-Dichloropropene	U		0.000418	0.00100	1	05/02/2017 18:41	WG975535
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	05/02/2017 18:41	WG975535
Ethylbenzene	U		0.000384	0.00100	1	05/02/2017 18:41	WG975535
Isopropylbenzene	U		0.000326	0.00100	1	05/02/2017 18:41	WG975535
p-Isopropyltoluene	U		0.000350	0.00100	1	05/02/2017 18:41	WG975535
2-Butanone (MEK)	U		0.00393	0.0100	1	05/02/2017 18:41	WG975535
2-Hexanone	U		0.00382	0.0100	1	05/02/2017 18:41	WG975535
Methylene Chloride	U		0.00100	0.00500	1	05/02/2017 18:41	WG975535
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	05/02/2017 18:41	WG975535
Methyl tert-butyl ether	U		0.000367	0.00100	1	05/02/2017 18:41	WG975535
Naphthalene	U		0.00100	0.00500	1	05/02/2017 18:41	WG975535
n-Propylbenzene	U		0.000349	0.00100	1	05/02/2017 18:41	WG975535
Styrene	U		0.000307	0.00100	1	05/02/2017 18:41	WG975535
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	05/02/2017 18:41	WG975535
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	05/02/2017 18:41	WG975535
Tetrachloroethene	U		0.000372	0.00100	1	05/02/2017 18:41	WG975535
Toluene	U		0.000412	0.00100	1	05/02/2017 18:41	WG975535
1,1,1-Trichloroethane	U		0.000319	0.00100	1	05/02/2017 18:41	WG975535
1,1,2-Trichloroethane	U		0.000383	0.00100	1	05/02/2017 18:41	WG975535
Trichloroethene	U		0.000398	0.00100	1	05/02/2017 18:41	WG975535
1,2,4-Trimethylbenzene	U		0.000373	0.00100	1	05/02/2017 18:41	WG975535
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	05/02/2017 18:41	WG975535
Vinyl chloride	U		0.000259	0.00100	1	05/02/2017 18:41	WG975535
o-Xylene	U		0.000341	0.00100	1	05/02/2017 18:41	WG975535
m&p-Xylene	U		0.000719	0.00200	1	05/02/2017 18:41	WG975535
Xylenes, Total	U		0.00106	0.00300	1	05/02/2017 18:41	WG975535
(S) Toluene-d8	*94.6*			*80.0-120*		*05/02/2017 18:41*	WG975535
(S) Dibromofluoromethane	*79.6*			*76.0-123*		*05/02/2017 18:41*	WG975535
(S) 4-Bromofluorobenzene	*94.2*			*80.0-120*		*05/02/2017 18:41*	WG975535

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Dissolved Solids	2390		2.82	10.0	1	05/03/2017 14:04	WG975909

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	U		0.197	1.00	10	05/03/2017 15:03	WG975894

Sample Narrative:

353.2 L905645-08 WG975894: Dilution due to matrix

Wet Chemistry by Method 4500CN E-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Cyanide	U		0.0900	0.250	50	05/03/2017 13:40	WG975885

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	373		0.519	10.0	10	05/04/2017 13:41	WG976555
Fluoride	1.35		0.00990	0.100	1	05/04/2017 13:26	WG976555
Sulfate	531		0.774	50.0	10	05/04/2017 13:41	WG976555

Mercury by Method 7470A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Mercury	U		0.0000490	0.000200	1	05/03/2017 10:45	WG975835
Mercury,Dissolved	U		0.0000490	0.000200	1	05/03/2017 11:45	WG975644

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.00426		0.000250	0.00200	1	05/02/2017 18:39	WG975340
Arsenic,Dissolved	0.00441		0.000250	0.00200	1	05/10/2017 17:09	WG978287
Barium	0.0461		0.000360	0.00500	1	05/02/2017 18:39	WG975340
Barium,Dissolved	0.0471		0.000360	0.00500	1	05/10/2017 17:09	WG978287
Boron	0.733		0.00150	0.0200	1	05/02/2017 18:39	WG975340
Boron,Dissolved	0.591		0.00150	0.0200	1	05/10/2017 21:40	WG978287
Cadmium	U		0.000160	0.00100	1	05/02/2017 18:39	WG975340
Cadmium,Dissolved	U		0.000160	0.00100	1	05/10/2017 17:09	WG978287
Calcium	194		0.0460	1.00	1	05/02/2017 18:39	WG975340
Chromium	U		0.000540	0.00200	1	05/02/2017 18:39	WG975340
Chromium,Dissolved	U		0.000540	0.00200	1	05/10/2017 17:09	WG978287
Cobalt	U		0.000260	0.00200	1	05/02/2017 18:39	WG975340
Cobalt,Dissolved	U		0.000260	0.00200	1	05/10/2017 17:09	WG978287
Iron	0.100		0.0150	0.100	1	05/02/2017 18:39	WG975340
Iron,Dissolved	0.0602	J	0.0150	0.100	1	05/10/2017 17:09	WG978287
Lead	0.000499	J	0.000240	0.00200	1	05/02/2017 18:39	WG975340
Lead,Dissolved	U		0.000240	0.00200	1	05/10/2017 17:09	WG978287
Manganese	0.250		0.000250	0.00500	1	05/02/2017 18:39	WG975340
Manganese,Dissolved	0.248		0.000250	0.00500	1	05/10/2017 17:09	WG978287
Nickel	0.00809		0.000350	0.00200	1	05/02/2017 18:39	WG975340
Nickel,Dissolved	0.00535		0.000350	0.00200	1	05/10/2017 17:09	WG978287
Potassium	2.19		0.0370	1.00	1	05/02/2017 18:39	WG975340

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Selenium	U		0.000380	0.00200	1	05/02/2017 18:39	WG975340
Selenium,Dissolved	U		0.000380	0.00200	1	05/10/2017 17:09	WG978287
Sodium	328		0.110	1.00	1	05/02/2017 18:39	WG975340
Uranium	U		0.000330	0.0100	1	05/02/2017 18:39	WG975340
Uranium,Dissolved	U		0.000330	0.0100	1	05/10/2017 17:09	WG978287
Vanadium	0.000515	J	0.000180	0.00500	1	05/02/2017 18:39	WG975340
Vanadium,Dissolved	0.000883	J	0.000180	0.00500	1	05/10/2017 17:09	WG978287

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	2.65		0.0314	0.100	1	05/01/2017 13:58	WG975393
(S) a,a,a-Trifluorotoluene(FID)	*90.5*			*77.0-122*		*05/01/2017 13:58*	WG975393

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

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	0.137	J	0.100	0.500	10	05/02/2017 22:15	WG975945
Benzene	0.227		0.00331	0.0100	10	05/02/2017 22:15	WG975945
Bromodichloromethane	U		0.00380	0.0100	10	05/02/2017 22:15	WG975945
Bromoform	U		0.00469	0.0100	10	05/02/2017 22:15	WG975945
Bromomethane	U		0.00866	0.0500	10	05/02/2017 22:15	WG975945
n-Butylbenzene	U		0.00361	0.0100	10	05/02/2017 22:15	WG975945
sec-Butylbenzene	0.00406	J	0.00365	0.0100	10	05/02/2017 22:15	WG975945
Carbon disulfide	U		0.00275	0.0100	10	05/02/2017 22:15	WG975945
Carbon tetrachloride	U		0.00379	0.0100	10	05/02/2017 22:15	WG975945
Chlorobenzene	U		0.00348	0.0100	10	05/02/2017 22:15	WG975945
Chlorodibromomethane	U		0.00327	0.0100	10	05/02/2017 22:15	WG975945
Chloroethane	U		0.00453	0.0500	10	05/02/2017 22:15	WG975945
Chloroform	0.0119	J	0.00324	0.0500	10	05/02/2017 22:15	WG975945
Chloromethane	U		0.00276	0.0250	10	05/02/2017 22:15	WG975945
1,2-Dibromoethane	U		0.00381	0.0100	10	05/02/2017 22:15	WG975945
1,1-Dichloroethane	U		0.00259	0.0100	10	05/02/2017 22:15	WG975945
1,2-Dichloroethane	U		0.00361	0.0100	10	05/02/2017 22:15	WG975945
1,1-Dichloroethene	U		0.00398	0.0100	10	05/02/2017 22:15	WG975945
cis-1,2-Dichloroethene	U		0.00260	0.0100	10	05/02/2017 22:15	WG975945
trans-1,2-Dichloroethene	U		0.00396	0.0100	10	05/02/2017 22:15	WG975945
1,2-Dichloropropane	U		0.00306	0.0100	10	05/02/2017 22:15	WG975945
cis-1,3-Dichloropropene	U		0.00418	0.0100	10	05/02/2017 22:15	WG975945
trans-1,3-Dichloropropene	U		0.00419	0.0100	10	05/02/2017 22:15	WG975945
Ethylbenzene	0.00427	J	0.00384	0.0100	10	05/02/2017 22:15	WG975945
Isopropylbenzene	0.0218		0.00326	0.0100	10	05/02/2017 22:15	WG975945
p-Isopropyltoluene	U		0.00350	0.0100	10	05/02/2017 22:15	WG975945
2-Butanone (MEK)	U		0.0393	0.100	10	05/02/2017 22:15	WG975945
2-Hexanone	U		0.0382	0.100	10	05/02/2017 22:15	WG975945
Methylene Chloride	U		0.0100	0.0500	10	05/02/2017 22:15	WG975945
4-Methyl-2-pentanone (MIBK)	U		0.0214	0.100	10	05/02/2017 22:15	WG975945
Methyl tert-butyl ether	0.0811		0.00367	0.0100	10	05/02/2017 22:15	WG975945
Naphthalene	U		0.0100	0.0500	10	05/02/2017 22:15	WG975945
n-Propylbenzene	0.0266		0.00349	0.0100	10	05/02/2017 22:15	WG975945
Styrene	U		0.00307	0.0100	10	05/02/2017 22:15	WG975945
1,1,1,2-Tetrachloroethane	U		0.00385	0.0100	10	05/02/2017 22:15	WG975945
1,1,2,2-Tetrachloroethane	U		0.00130	0.0100	10	05/02/2017 22:15	WG975945
Tetrachloroethene	U		0.00372	0.0100	10	05/02/2017 22:15	WG975945
Toluene	U		0.00412	0.0100	10	05/02/2017 22:15	WG975945

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-Trichloroethane	U		0.00319	0.0100	10	05/02/2017 22:15	WG975945
1,1,2-Trichloroethane	U		0.00383	0.0100	10	05/02/2017 22:15	WG975945
Trichloroethene	U		0.00398	0.0100	10	05/02/2017 22:15	WG975945
1,2,4-Trimethylbenzene	0.0409		0.00373	0.0100	10	05/02/2017 22:15	WG975945
1,3,5-Trimethylbenzene	0.00628	J	0.00387	0.0100	10	05/02/2017 22:15	WG975945
Vinyl chloride	U		0.00259	0.0100	10	05/02/2017 22:15	WG975945
o-Xylene	U		0.00341	0.0100	10	05/02/2017 22:15	WG975945
m&p-Xylene	0.0564		0.00719	0.0200	10	05/02/2017 22:15	WG975945
Xylenes, Total	0.0564		0.0106	0.0300	10	05/02/2017 22:15	WG975945
(S) Toluene-d8	*105*			*80.0-120*		*05/02/2017 22:15*	WG975945
(S) Dibromofluoromethane	*107*			*76.0-123*		*05/02/2017 22:15*	WG975945
(S) 4-Bromofluorobenzene	*92.1*			*80.0-120*		*05/02/2017 22:15*	WG975945

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	7.62		0.0247	0.100	1	05/05/2017 05:23	WG975930
(S) o-Terphenyl	*76.1*			*31.0-160*		*05/05/2017 05:23*	WG975930

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Method Blank (MB)

(MB) R3215860-1 05/03/17 13:18

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Dissolved Solids	U		2.82	10.0

L905645-02 Original Sample (OS) • Duplicate (DUP)

(OS) L905645-02 05/03/17 13:18 • (DUP) R3215860-4 05/03/17 13:18

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Dissolved Solids	1980	2080	1	4.94		5

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

(LCS) R3215860-2 05/03/17 13:18 • (LCSD) R3215860-3 05/03/17 13:18

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 %
Dissolved Solids	8800	8640	8600	98.2	97.7	85.0-115			0.464	5

Method Blank (MB)

(MB) R3215924-1 05/03/17 14:04

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	mg/l		mg/l	mg/l
Dissolved Solids	U		2.82	10.0

L905645-03 Original Sample (OS) • Duplicate (DUP)

(OS) L905645-03 05/03/17 14:04 • (DUP) R3215924-4 05/03/17 14:04

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	mg/l	mg/l		%		%
Dissolved Solids	2730	2730	1	0.000		5

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

(LCS) R3215924-2 05/03/17 14:04 • (LCSD) R3215924-3 05/03/17 14:04

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	mg/l	mg/l	mg/l	%	%	%			%	%
Dissolved Solids	8800	8670	8700	98.5	98.9	85.0-115			0.345	5

Method Blank (MB)

(MB) R3215036-1 05/02/17 14:02

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	mg/l		mg/l	mg/l
Nitrate-Nitrite	U		0.0197	0.100

L905563-01 Original Sample (OS) • Duplicate (DUP)

(OS) L905563-01 05/02/17 14:05 • (DUP) R3215036-4 05/02/17 14:06

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	mg/l	mg/l		%		%
Nitrate-Nitrite	1.87	1.86	1	0		20

L905616-02 Original Sample (OS) • Duplicate (DUP)

(OS) L905616-02 05/02/17 14:31 • (DUP) R3215036-6 05/02/17 14:32

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	mg/l	mg/l		%		%
Nitrate-Nitrite	0.348	0.500	1	36	J3	20

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

(LCS) R3215036-2 05/02/17 14:03 • (LCSD) R3215036-3 05/02/17 14:04

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	mg/l	mg/l	mg/l	%	%	%			%	%
Nitrate-Nitrite	5.00	5.17	5.10	103	102	90-110			1	20

L905563-01 Original Sample (OS) • Matrix Spike (MS)

(OS) L905563-01 05/02/17 14:05 • (MS) R3215036-5 05/02/17 14:07

Analyte	Spike Amount	Original Result	MS Result	MS Rec.	Dilution	Rec. Limits	MS Qualifier
	mg/l	mg/l	mg/l	%		%	
Nitrate-Nitrite	5.00	1.87	6.68	96	1	90-110	

L905624-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L905624-01 05/02/17 14:33 • (MS) R3215036-7 05/02/17 14:34 • (MSD) R3215036-8 05/02/17 14:40

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
	mg/l	mg/l	mg/l	mg/l	%	%		%			%	%
Nitrate-Nitrite	5.00	1.02	5.76	5.81	95	96	1	90-110			1	20

Method Blank (MB)

(MB) R3215384-1 05/03/17 14:35

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	mg/l		mg/l	mg/l
Nitrate-Nitrite	U		0.0197	0.100

L905307-17 Original Sample (OS) • Duplicate (DUP)

(OS) L905307-17 05/03/17 14:38 • (DUP) R3215384-4 05/03/17 14:39

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	mg/l	mg/l		%		%
Nitrate-Nitrite	16.3	16.7	10	2		20

L905307-24 Original Sample (OS) • Duplicate (DUP)

(OS) L905307-24 05/03/17 14:50 • (DUP) R3215384-5 05/03/17 14:51

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	mg/l	mg/l		%		%
Nitrate-Nitrite	U	0.000	10	0		20

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

(LCS) R3215384-2 05/03/17 14:36 • (LCSD) R3215384-3 05/03/17 14:37

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	mg/l	mg/l	mg/l	%	%	%			%	%
Nitrate-Nitrite	5.00	5.32	4.93	106	99	90-110			8	20

L905371-15 Original Sample (OS) • Matrix Spike (MS)

(OS) L905371-15 05/03/17 14:54 • (MS) R3215384-6 05/03/17 14:55

Analyte	Spike Amount	Original Result	MS Result	MS Rec.	Dilution	Rec. Limits	MS Qualifier
	mg/l	mg/l	mg/l	%		%	
Nitrate-Nitrite	5.00	ND	4.56	91	1	90-110	

L905651-04 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L905651-04 05/03/17 15:07 • (MS) R3215384-7 05/03/17 15:13 • (MSD) R3215384-8 05/03/17 15:14

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
	mg/l	mg/l	mg/l	mg/l	%	%		%			%	%
Nitrate-Nitrite	5.00	0.0570	0.323	0.310	5	5	1	90-110	J6	J6	4	20

Method Blank (MB)

(MB) R3215308-1 05/03/17 13:34

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	mg/l		mg/l	mg/l
Cyanide	U		0.0018	0.00500

L906177-02 Original Sample (OS) • Duplicate (DUP)

(OS) L906177-02 05/03/17 13:47 • (DUP) R3215308-4 05/03/17 13:48

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	mg/l	mg/l		%		%
Cyanide	ND	0.00207	1	0		20

L906265-12 Original Sample (OS) • Duplicate (DUP)

(OS) L906265-12 05/03/17 13:58 • (DUP) R3215308-5 05/03/17 13:59

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	mg/l	mg/l		%		%
Cyanide	ND	0.000	1	0		20

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

(LCS) R3215308-2 05/03/17 13:35 • (LCSD) R3215308-3 05/03/17 13:36

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	mg/l	mg/l	mg/l	%	%	%			%	%
Cyanide	0.100	0.103	0.103	103	103	85-115			0	20

L906265-13 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L906265-13 05/03/17 14:00 • (MS) R3215308-6 05/03/17 14:01 • (MSD) R3215308-7 05/03/17 14:03

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
	mg/l	mg/l	mg/l	mg/l	%	%		%			%	%
Cyanide	0.100	ND	0.0679	0.0471	68	47	1	75-125	J6	J3 J6	36	20

Method Blank (MB)

(MB) R3215194-1 05/02/17 07:05

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Chloride	U		0.0519	1.00
Fluoride	U		0.0099	0.100
Sulfate	U		0.0774	5.00

L905307-17 Original Sample (OS) • Duplicate (DUP)

(OS) L905307-17 05/02/17 15:29 • (DUP) R3215194-4 05/02/17 15:47

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	78.9	78.8	1	0		15
Fluoride	1.59	1.59	1	0		15
Sulfate	U	0.000	1	0		15

L905645-04 Original Sample (OS) • Duplicate (DUP)

(OS) L905645-04 05/02/17 21:52 • (DUP) R3215194-6 05/02/17 22:27

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Fluoride	2.73	2.75	1	1		15

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

(LCS) R3215194-2 05/02/17 07:22 • (LCSD) R3215194-3 05/02/17 07:40

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Chloride	40.0	40.5	40.4	101	101	80-120			0	15
Fluoride	8.00	8.21	8.18	103	102	80-120			0	15
Sulfate	40.0	40.9	40.7	102	102	80-120			1	15

L905307-32 Original Sample (OS) • Matrix Spike (MS)

(OS) L905307-32 05/02/17 17:49 • (MS) R3215194-5 05/02/17 18:06

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Chloride	50.0	0.269	48.8	97	1	80-120	
Fluoride	5.00	U	4.97	99	1	80-120	
Sulfate	50.0	U	49.0	98	1	80-120	

L905602-11 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L905602-11 05/02/17 23:02 • (MS) R3215194-8 05/03/17 00:12 • (MSD) R3215194-9 05/03/17 00:29

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 %
Fluoride	5.00	2.36	6.24	6.30	78	79	1	80-120	J6	J6	1	15

Method Blank (MB)

(MB) R3215820-1 05/04/17 06:15

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	mg/l		mg/l	mg/l
Chloride	U		0.0519	1.00
Sulfate	U		0.0774	5.00

L905651-08 Original Sample (OS) • Duplicate (DUP)

(OS) L905651-08 05/04/17 12:33 • (DUP) R3215820-4 05/04/17 13:25

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	mg/l	mg/l		%		%
Chloride	74.0	81.0	10	9		15
Sulfate	717	730	10	2		15

L905831-01 Original Sample (OS) • Duplicate (DUP)

(OS) L905831-01 05/04/17 21:33 • (DUP) R3215820-8 05/04/17 21:50

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	mg/l	mg/l		%		%
Chloride	3.27	3.13	1	4		15
Sulfate	16.4	16.4	1	0		15

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

(LCS) R3215820-2 05/04/17 06:33 • (LCSD) R3215820-3 05/04/17 06:50

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	mg/l	mg/l	mg/l	%	%	%			%	%
Chloride	40.0	40.3	40.1	101	100	80-120			0	15
Sulfate	40.0	40.5	40.3	101	101	80-120			0	15

L905668-20 Original Sample (OS) • Matrix Spike (MS)

(OS) L905668-20 05/04/17 13:42 • (MS) R3215820-5 05/04/17 14:00

Analyte	Spike Amount	Original Result	MS Result	MS Rec.	Dilution	Rec. Limits	MS Qualifier
	mg/l	mg/l	mg/l	%		%	
Sulfate	50.0	11.3	59.9	97	1	80-120	

L905847-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L905847-01 05/04/17 15:44 • (MS) R3215820-6 05/04/17 16:37 • (MSD) R3215820-7 05/04/17 16:54

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 %
Chloride	50.0	1.49	52.4	52.7	102	102	1	80-120			1	15
Sulfate	50.0	1.18	52.1	52.1	102	102	1	80-120			0	15

Method Blank (MB)

(MB) R3215800-1 05/04/17 06:09

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Chloride	U		0.0519	1.00
Fluoride	U		0.0099	0.100
Sulfate	U		0.0774	5.00

L905651-08 Original Sample (OS) • Duplicate (DUP)

(OS) L905651-08 05/05/17 00:48 • (DUP) R3215800-10 05/05/17 01:03

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	80.4	76.9	1	4		15
Fluoride	1.90	2.18	1	14		15

L905651-10 Original Sample (OS) • Duplicate (DUP)

(OS) L905651-10 05/05/17 09:57 • (DUP) R3215800-12 05/05/17 10:11

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	0.289	0.126	1	79	J P1	15
Fluoride	0.0207	0.000	1	200	P1	15
Sulfate	0.238	0.000	1	200	P1	15

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

(LCS) R3215800-2 05/04/17 06:25 • (LCSD) R3215800-3 05/04/17 06:40

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 %
Chloride	40.0	40.2	40.2	100	100	80-120			0	15
Fluoride	8.00	8.07	8.06	101	101	80-120			0	15
Sulfate	40.0	40.4	40.4	101	101	80-120			0	15

L905645-06 Original Sample (OS) • Matrix Spike (MS)

(OS) L905645-06 05/04/17 12:55 • (MS) R3215800-6 05/04/17 13:10

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Chloride	50.0	0.472	50.9	101	1	80-120	
Fluoride	5.00	U	5.06	101	1	80-120	
Sulfate	50.0	U	51.3	103	1	80-120	

L905668-08 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L905668-08 05/04/17 23:46 • (MS) R3215800-8 05/05/17 00:17 • (MSD) R3215800-9 05/05/17 00:32

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 %
Fluoride	5.00	0.668	5.39	5.41	94	95	1	80-120			0	15

Method Blank (MB)

(MB) R3215266-1 05/03/17 11:29

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Mercury,Dissolved	U		0.000049	0.000200

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

(LCS) R3215266-2 05/03/17 11:31 • (LCSD) R3215266-3 05/03/17 11:33

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 %
Mercury,Dissolved	0.00300	0.00302	0.00300	101	100	80-120			1	20

L905940-17 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L905940-17 05/03/17 11:35 • (MS) R3215266-4 05/03/17 11:38 • (MSD) R3215266-5 05/03/17 11:40

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 %
Mercury,Dissolved	0.00300	ND	0.00309	0.00307	103	102	1	75-125			1	20

Method Blank (MB)

(MB) R3215220-5 05/03/17 10:31

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Mercury	U		0.000049	0.000200

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

(LCS) R3215220-6 05/03/17 10:33 • (LCSD) R3215220-7 05/03/17 10:36

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 %
Mercury	0.00300	0.00302	0.00290	101	97	80-120			4	20

L905760-07 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L905760-07 05/03/17 10:38 • (MS) R3215220-8 05/03/17 10:40 • (MSD) R3215220-9 05/03/17 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 %
Mercury	0.00300	0.00184	0.00498	0.00502	105	106	1	75-125			1	20

Method Blank (MB)

(MB) R3215762-1 05/05/17 01:50

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Arsenic,Dissolved	U		0.00025	0.00200
Barium,Dissolved	U		0.00036	0.00500
Chromium,Dissolved	0.000556	J	0.00054	0.00200
Iron,Dissolved	U		0.015	0.100
Lead,Dissolved	U		0.00024	0.00200
Manganese,Dissolved	U		0.00025	0.00500
Selenium,Dissolved	U		0.00038	0.00200

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

(LCS) R3215762-2 05/05/17 01:53 • (LCSD) R3215762-3 05/05/17 01:57

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 %
Arsenic,Dissolved	0.0500	0.0489	0.0484	98	97	80-120			1	20
Barium,Dissolved	0.0500	0.0537	0.0541	107	108	80-120			1	20
Chromium,Dissolved	0.0500	0.0514	0.0507	103	101	80-120			1	20
Iron,Dissolved	5.00	5.02	5.02	100	100	80-120			0	20
Lead,Dissolved	0.0500	0.0496	0.0499	99	100	80-120			1	20
Manganese,Dissolved	0.0500	0.0498	0.0500	100	100	80-120			0	20
Selenium,Dissolved	0.0500	0.0484		97		80-120				

L905645-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L905645-01 05/05/17 02:01 • (MS) R3215762-5 05/05/17 02:08 • (MSD) R3215762-6 05/05/17 02:11

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 %
Arsenic,Dissolved	0.0500	0.00660	0.0555	0.0537	98	94	1	75-125			3	20
Barium,Dissolved	0.0500	0.0188	0.0730	0.0739	108	110	1	75-125			1	20
Chromium,Dissolved	0.0500	0.0114	0.0618	0.0600	101	97	1	75-125			3	20
Iron,Dissolved	5.00	U	4.90	4.80	98	96	1	75-125			2	20
Lead,Dissolved	0.0500	0.000416	0.0509	0.0500	101	99	1	75-125			2	20
Manganese,Dissolved	0.0500	1.04	1.10	1.09	120	104	1	75-125			1	20
Selenium,Dissolved	0.0500	0.000623	0.0487	0.0472	96	93	1	75-125			3	20

Method Blank (MB)

(MB) R3215702-1 05/04/17 17:34

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Arsenic	U		0.00025	0.00200
Barium	U		0.00036	0.00500
Calcium	0.314	J	0.046	1.00
Chromium	U		0.00054	0.00200
Iron	U		0.015	0.100
Lead	U		0.00024	0.00200
Manganese	U		0.00025	0.00500
Potassium	U		0.037	1.00
Selenium	U		0.00038	0.00200
Sodium	U		0.11	1.00

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

(LCS) R3215702-2 05/04/17 17:38 • (LCSD) R3215702-3 05/04/17 17:42

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 %
Arsenic	0.0500	0.0489	0.0489	98	98	80-120			0	20
Barium	0.0500	0.0451	0.0452	90	90	80-120			0	20
Calcium	5.00	4.87	4.76	97	95	80-120			2	20
Chromium	0.0500	0.0520	0.0514	104	103	80-120			1	20
Iron	5.00	5.15	5.06	103	101	80-120			2	20
Lead	0.0500	0.0492	0.0495	98	99	80-120			1	20
Manganese	0.0500	0.0480	0.0474	96	95	80-120			1	20
Potassium	5.00	4.99	4.88	100	98	80-120			2	20
Selenium	0.0500	0.0505	0.0525	101	105	80-120			4	20
Sodium	5.00	5.42	5.36	108	107	80-120			1	20

L905602-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L905602-01 05/04/17 17:46 • (MS) R3215702-5 05/04/17 17:53 • (MSD) R3215702-6 05/04/17 17:56

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	0.00300	0.0516	0.0512	97	96	1	75-125			1	20
Barium	0.0500	0.0121	0.0615	0.0606	99	97	1	75-125			2	20
Calcium	5.00	484	494	484	193	0	1	75-125	V	V	2	20
Chromium	0.0500	0.000842	0.0493	0.0485	97	95	1	75-125			2	20
Potassium	5.00	5.11	9.87	9.75	95	93	1	75-125			1	20
Iron	5.00	0.0157	4.84	4.73	96	94	1	75-125			2	20
Lead	0.0500	U	0.0489	0.0489	98	98	1	75-125			0	20

L905602-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L905602-01 05/04/17 17:46 • (MS) R3215702-5 05/04/17 17:53 • (MSD) R3215702-6 05/04/17 17:56

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 %
Manganese	0.0500	0.507	0.573	0.558	131	102	1	75-125	V		3	20
Selenium	0.0500	0.00254	0.0545	0.0548	104	105	1	75-125			0	20
Sodium	5.00	1480	1460	1450	0	0	1	75-125	E V	E V	0	20

Method Blank (MB)

(MB) R3215093-1 05/02/17 18:14

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Arsenic	U		0.00025	0.00200
Barium	U		0.00036	0.00500
Boron	U		0.0015	0.0200
Cadmium	U		0.00016	0.00100
Calcium	U		0.046	1.00
Chromium	U		0.00054	0.00200
Cobalt	U		0.00026	0.00200
Iron	U		0.015	0.100
Lead	U		0.00024	0.00200
Manganese	U		0.00025	0.00500
Nickel	U		0.00035	0.00200
Potassium	0.0382	J	0.037	1.00
Selenium	U		0.00038	0.00200
Sodium	U		0.11	1.00
Uranium	U		0.00033	0.0100
Vanadium	U		0.00018	0.00500

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

(LCS) R3215093-2 05/02/17 18:18 • (LCSD) R3215093-3 05/02/17 18:21

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 %
Arsenic	0.0500	0.0528	0.0519	106	104	80-120			2	20
Barium	0.0500	0.0521	0.0504	104	101	80-120			3	20
Boron	0.0500	0.0500	0.0511	100	102	80-120			2	20
Cadmium	0.0500	0.0505	0.0511	101	102	80-120			1	20
Calcium	5.00	5.26	5.04	105	101	80-120			4	20
Chromium	0.0500	0.0540	0.0532	108	106	80-120			1	20
Cobalt	0.0500	0.0553	0.0552	111	110	80-120			0	20
Iron	5.00	5.44	5.40	109	108	80-120			1	20
Lead	0.0500	0.0515	0.0507	103	101	80-120			2	20
Manganese	0.0500	0.0539	0.0531	108	106	80-120			2	20
Nickel	0.0500	0.0544	0.0543	109	109	80-120			0	20
Potassium	5.00	5.22	5.06	104	101	80-120			3	20
Selenium	0.0500	0.0511	0.0516	102	103	80-120			1	20
Sodium	5.00	5.19	5.03	104	101	80-120			3	20
Uranium	0.0500	0.0493	0.0489	99	98	80-120			1	20
Vanadium	0.0500	0.0525	0.0526	105	105	80-120			0	20

L905855-04 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L905855-04 05/02/17 18:25 • (MS) R3215093-5 05/02/17 18:32 • (MSD) R3215093-6 05/02/17 18:36

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	0.000648	0.0507	0.0490	100	97	1	75-125			3	20
Barium	0.0500	0.221	0.271	0.271	99	98	1	75-125			0	20
Boron	0.0500	0.229	0.291	0.298	124	138	1	75-125		V	2	20
Cadmium	0.0500	U	0.0499	0.0492	100	98	1	75-125			1	20
Calcium	5.00	126	133	133	148	136	1	75-125	V	V	0	20
Chromium	0.0500	U	0.0517	0.0501	103	100	1	75-125			3	20
Cobalt	0.0500	U	0.0515	0.0497	103	99	1	75-125			3	20
Potassium	5.00	3.67	8.95	8.81	106	103	1	75-125			2	20
Iron	5.00	U	5.13	4.97	103	99	1	75-125			3	20
Lead	0.0500	0.000538	0.0516	0.0501	102	99	1	75-125			3	20
Manganese	0.0500	0.000568	0.0515	0.0491	102	97	1	75-125			5	20
Nickel	0.0500	0.000997	0.0511	0.0501	100	98	1	75-125			2	20
Selenium	0.0500	0.000675	0.0529	0.0508	104	100	1	75-125			4	20
Sodium	5.00	76.3	83.4	82.5	143	124	1	75-125	V		1	20
Uranium	0.0500	0.00391	0.0552	0.0533	103	99	1	75-125			4	20
Vanadium	0.0500	0.00109	0.0518	0.0505	101	99	1	75-125			3	20

Method Blank (MB)

(MB) R3217063-1 05/10/17 15:25

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Arsenic,Dissolved	U		0.00025	0.00200
Barium,Dissolved	U		0.00036	0.00500
Cadmium,Dissolved	U		0.00016	0.00100
Chromium,Dissolved	U		0.00054	0.00200
Cobalt,Dissolved	U		0.00026	0.00200
Iron,Dissolved	U		0.015	0.100
Lead,Dissolved	U		0.00024	0.00200
Manganese,Dissolved	0.000347	J	0.00025	0.00500
Nickel,Dissolved	0.000529	J	0.00035	0.00200
Selenium,Dissolved	U		0.00038	0.00200
Uranium,Dissolved	U		0.00033	0.0100
Vanadium,Dissolved	U		0.00018	0.00500

Method Blank (MB)

(MB) R3217164-1 05/10/17 21:16

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Boron,Dissolved	0.00388	J	0.0015	0.0200

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

(LCS) R3217063-2 05/10/17 15:29 • (LCSD) R3217063-3 05/10/17 15:33

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 %
Arsenic,Dissolved	0.0500	0.0485	0.0493	97	99	80-120			2	20
Barium,Dissolved	0.0500	0.0505	0.0500	101	100	80-120			1	20
Cadmium,Dissolved	0.0500	0.0519	0.0518	104	104	80-120			0	20
Chromium,Dissolved	0.0500	0.0500	0.0498	100	100	80-120			0	20
Cobalt,Dissolved	0.0500	0.0513	0.0514	103	103	80-120			0	20
Iron,Dissolved	5.00	4.95	4.98	99	100	80-120			1	20
Lead,Dissolved	0.0500	0.0498	0.0497	100	99	80-120			0	20
Manganese,Dissolved	0.0500	0.0502	0.0495	100	99	80-120			1	20
Nickel,Dissolved	0.0500	0.0517	0.0524	103	105	80-120			1	20
Selenium,Dissolved	0.0500	0.0529	0.0510	106	102	80-120			4	20
Uranium,Dissolved	0.0500	0.0459	0.0463	92	93	80-120			1	20
Vanadium,Dissolved	0.0500	0.0492	0.0491	98	98	80-120			0	20

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

(LCS) R3217164-2 05/10/17 21:19 • (LCSD) R3217164-3 05/10/17 21:23

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Boron,Dissolved	0.0500	0.0502	0.0489	100	98	80-120			3	20

L906804-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L906804-01 05/10/17 15:36 • (MS) R3217063-5 05/10/17 15:43 • (MSD) R3217063-6 05/10/17 15:47

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 %
Arsenic,Dissolved	0.0500	U	0.0467	0.0473	93	95	1	75-125			1	20
Barium,Dissolved	0.0500	0.0145	0.0653	0.0650	102	101	1	75-125			1	20
Cadmium,Dissolved	0.0500	U	0.0506	0.0513	101	103	1	75-125			1	20
Chromium,Dissolved	0.0500	U	0.0460	0.0463	92	93	1	75-125			1	20
Cobalt,Dissolved	0.0500	U	0.0485	0.0487	97	97	1	75-125			0	20
Iron,Dissolved	5.00	U	4.68	4.67	94	93	1	75-125			0	20
Lead,Dissolved	0.0500	U	0.0485	0.0485	97	97	1	75-125			0	20
Manganese,Dissolved	0.0500	0.000320	0.0462	0.0466	92	93	1	75-125			1	20
Nickel,Dissolved	0.0500	0.00195	0.0499	0.0502	96	97	1	75-125			1	20
Selenium,Dissolved	0.0500	0.00113	0.0527	0.0504	103	99	1	75-125			4	20
Uranium,Dissolved	0.0500	0.00526	0.0510	0.0527	91	95	1	75-125			3	20
Vanadium,Dissolved	0.0500	0.000326	0.0472	0.0473	94	94	1	75-125			0	20

Method Blank (MB)

(MB) R3215819-3 04/30/17 19:38

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	mg/l		mg/l	mg/l
TPH (GC/FID) Low Fraction	U		0.0314	0.100
(S) a,a,a-Trifluorotoluene(FID)	*99.9*			*77.0-122*

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

(LCS) R3215819-1 04/30/17 18:25 • (LCSD) R3215819-2 04/30/17 18:50

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	mg/l	mg/l	mg/l	%	%	%			%	%
TPH (GC/FID) Low Fraction	5.50	5.42	5.17	98.5	93.9	71.0-136			4.75	20
(S) a,a,a-Trifluorotoluene(FID)				*103*	*103*	*77.0-122*				

L905602-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L905602-03 04/30/17 21:14 • (MS) R3215819-4 04/30/17 20:02 • (MSD) R3215819-5 04/30/17 20:26

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
	mg/l	mg/l	mg/l	mg/l	%	%		%			%	%
TPH (GC/FID) Low Fraction	5.50	0.585	2.84	2.81	41.0	40.4	1	18.0-160			1.24	20
(S) a,a,a-Trifluorotoluene(FID)					*97.3*	*97.9*		*77.0-122*				

Method Blank (MB)

(MB) R3216370-5 05/01/17 11:31

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	mg/l		mg/l	mg/l
TPH (GC/FID) Low Fraction	U		0.0314	0.100
(S) a,a,a-Trifluorotoluene(FID)	*103*			*77.0-122*

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

(LCS) R3216370-3 05/01/17 10:28 • (LCSD) R3216370-4 05/01/17 10:49

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	mg/l	mg/l	mg/l	%	%	%			%	%
TPH (GC/FID) Low Fraction	5.50	5.44	5.67	98.8	103	71.0-136			4.16	20
(S) a,a,a-Trifluorotoluene(FID)				*106*	*107*	*77.0-122*				

L905669-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L905669-02 05/01/17 11:52 • (MS) R3216370-8 05/01/17 12:55 • (MSD) R3216370-9 05/01/17 13:16

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
	mg/l	mg/l	mg/l	mg/l	%	%		%			%	%
TPH (GC/FID) Low Fraction	5.50	U	4.99	5.12	90.8	93.0	1	18.0-160			2.42	20
(S) a,a,a-Trifluorotoluene(FID)					*104*	*104*		*77.0-122*				

Method Blank (MB)

(MB) R3215016-4 05/02/17 00:07

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Acetone	U		0.0100	0.0500
Benzene	U		0.000331	0.00100
Bromodichloromethane	U		0.000380	0.00100
Bromoform	U		0.000469	0.00100
Bromomethane	U		0.000866	0.00500
n-Butylbenzene	U		0.000361	0.00100
sec-Butylbenzene	U		0.000365	0.00100
Carbon disulfide	U		0.000275	0.00100
Carbon tetrachloride	U		0.000379	0.00100
Chlorobenzene	U		0.000348	0.00100
Chlorodibromomethane	U		0.000327	0.00100
Chloroethane	U		0.000453	0.00500
Chloroform	U		0.000324	0.00500
Chloromethane	U		0.000276	0.00250
1,2-Dibromoethane	U		0.000381	0.00100
1,1-Dichloroethane	U		0.000259	0.00100
1,2-Dichloroethane	U		0.000361	0.00100
1,1-Dichloroethene	U		0.000398	0.00100
cis-1,2-Dichloroethene	U		0.000260	0.00100
trans-1,2-Dichloroethene	U		0.000396	0.00100
1,2-Dichloropropane	U		0.000306	0.00100
cis-1,3-Dichloropropene	U		0.000418	0.00100
trans-1,3-Dichloropropene	U		0.000419	0.00100
Ethylbenzene	U		0.000384	0.00100
2-Hexanone	U		0.00382	0.0100
Isopropylbenzene	U		0.000326	0.00100
p-Isopropyltoluene	U		0.000350	0.00100
2-Butanone (MEK)	U		0.00393	0.0100
Methylene Chloride	U		0.00100	0.00500
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100
Methyl tert-butyl ether	U		0.000367	0.00100
Naphthalene	U		0.00100	0.00500
n-Propylbenzene	U		0.000349	0.00100
Styrene	U		0.000307	0.00100
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100
Tetrachloroethene	U		0.000372	0.00100
Toluene	U		0.000412	0.00100
1,1,1-Trichloroethane	U		0.000319	0.00100
1,1,2-Trichloroethane	U		0.000383	0.00100

Method Blank (MB)

(MB) R3215016-4 05/02/17 00:07

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	mg/l		mg/l	mg/l
Trichloroethene	U		0.000398	0.00100
1,2,4-Trimethylbenzene	U		0.000373	0.00100
1,3,5-Trimethylbenzene	U		0.000387	0.00100
Vinyl chloride	U		0.000259	0.00100
Xylenes, Total	U		0.00106	0.00300
o-Xylene	U		0.000341	0.00100
m&p-Xylenes	U		0.000719	0.00200
(S) Toluene-d8	*104*			*80.0-120*
(S) Dibromofluoromethane	*103*			*76.0-123*
(S) 4-Bromofluorobenzene	*96.8*			*80.0-120*

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

(LCS) R3215016-1 05/01/17 22:35 • (LCSD) R3215016-3 05/01/17 23:21

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	mg/l	mg/l	mg/l	%	%	%			%	%
Acetone	0.125	0.0904	0.119	72.3	95.4	10.0-160		J3	27.6	23
Benzene	0.0250	0.0255	0.0251	102	101	69.0-123			1.21	20
Bromodichloromethane	0.0250	0.0215	0.0218	85.8	87.2	76.0-120			1.55	20
Bromoform	0.0250	0.0217	0.0226	86.7	90.6	67.0-132			4.37	20
Bromomethane	0.0250	0.0183	0.0204	73.3	81.6	18.0-160			10.8	20
n-Butylbenzene	0.0250	0.0209	0.0205	83.4	82.1	72.0-126			1.64	20
sec-Butylbenzene	0.0250	0.0201	0.0200	80.2	80.1	74.0-121			0.170	20
Carbon disulfide	0.0250	0.0244	0.0239	97.6	95.6	55.0-127			2.08	20
Carbon tetrachloride	0.0250	0.0202	0.0191	80.7	76.4	63.0-122			5.57	20
Chlorobenzene	0.0250	0.0236	0.0235	94.3	94.1	79.0-121			0.260	20
Chlorodibromomethane	0.0250	0.0217	0.0219	86.6	87.7	75.0-125			1.23	20
Chloroethane	0.0250	0.0249	0.0256	99.6	103	47.0-152			2.87	20
Chloroform	0.0250	0.0229	0.0227	91.5	91.0	72.0-121			0.610	20
Chloromethane	0.0250	0.0275	0.0270	110	108	48.0-139			1.82	20
1,2-Dibromoethane	0.0250	0.0228	0.0233	91.4	93.3	77.0-123			2.05	20
1,1-Dichloroethane	0.0250	0.0241	0.0236	96.6	94.5	70.0-126			2.21	20
1,2-Dichloroethane	0.0250	0.0200	0.0200	80.0	80.0	67.0-126			0.110	20
1,1-Dichloroethene	0.0250	0.0236	0.0229	94.3	91.7	64.0-129			2.85	20
cis-1,2-Dichloroethene	0.0250	0.0244	0.0239	97.7	95.4	73.0-120			2.40	20
trans-1,2-Dichloroethene	0.0250	0.0238	0.0237	95.0	94.9	71.0-121			0.160	20
1,2-Dichloropropane	0.0250	0.0250	0.0252	99.9	101	75.0-125			1.05	20
cis-1,3-Dichloropropene	0.0250	0.0216	0.0214	86.4	85.6	79.0-123			1.01	20
trans-1,3-Dichloropropene	0.0250	0.0206	0.0210	82.4	83.9	74.0-127			1.81	20

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

(LCS) R3215016-1 05/01/17 22:35 • (LCSD) R3215016-3 05/01/17 23:21

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Ethylbenzene	0.0250	0.0233	0.0233	93.2	93.0	77.0-120			0.180	20
2-Hexanone	0.125	0.128	0.138	102	111	58.0-147			7.83	20
Isopropylbenzene	0.0250	0.0218	0.0217	87.1	87.0	75.0-120			0.170	20
p-Isopropyltoluene	0.0250	0.0204	0.0204	81.4	81.6	74.0-126			0.180	20
2-Butanone (MEK)	0.125	0.122	0.135	97.9	108	37.0-158			9.58	20
Methylene Chloride	0.0250	0.0236	0.0232	94.3	92.8	66.0-121			1.63	20
4-Methyl-2-pentanone (MIBK)	0.125	0.135	0.137	108	109	59.0-143			1.14	20
Methyl tert-butyl ether	0.0250	0.0237	0.0237	94.6	94.7	64.0-123			0.120	20
Naphthalene	0.0250	0.0221	0.0219	88.5	87.5	62.0-128			1.13	20
n-Propylbenzene	0.0250	0.0222	0.0221	89.0	88.5	79.0-120			0.470	20
Styrene	0.0250	0.0231	0.0233	92.3	93.3	78.0-124			1.09	20
1,1,1,2-Tetrachloroethane	0.0250	0.0222	0.0220	88.6	87.9	75.0-122			0.810	20
1,1,2,2-Tetrachloroethane	0.0250	0.0229	0.0232	91.8	92.7	71.0-122			1.03	20
Tetrachloroethene	0.0250	0.0227	0.0223	91.0	89.2	70.0-127			1.97	20
Toluene	0.0250	0.0231	0.0230	92.6	92.0	77.0-120			0.600	20
1,1,1-Trichloroethane	0.0250	0.0214	0.0205	85.6	82.1	68.0-122			4.12	20
1,1,2-Trichloroethane	0.0250	0.0243	0.0246	97.3	98.3	78.0-120			0.970	20
Trichloroethene	0.0250	0.0237	0.0234	94.8	93.5	78.0-120			1.36	20
1,2,4-Trimethylbenzene	0.0250	0.0214	0.0211	85.6	84.6	75.0-120			1.26	20
1,3,5-Trimethylbenzene	0.0250	0.0210	0.0211	84.1	84.6	75.0-120			0.500	20
Vinyl chloride	0.0250	0.0285	0.0279	114	112	64.0-133			2.12	20
Xylenes, Total	0.0750	0.0694	0.0697	92.5	92.9	77.0-120			0.430	20
o-Xylene	0.0250	0.0232	0.0233	92.7	93.2	78.0-120			0.560	20
m&p-Xylenes	0.0500	0.0462	0.0464	92.5	92.8	77.0-120			0.340	20
(S) Toluene-d8				*104*	*104*	*80.0-120*				
(S) Dibromofluoromethane				*104*	*102*	*76.0-123*				
(S) 4-Bromofluorobenzene				*98.4*	*99.3*	*80.0-120*				

Method Blank (MB)

(MB) R3216109-3 05/02/17 18:26

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Acetone	U		0.0100	0.0500
Benzene	U		0.000331	0.00100
Bromodichloromethane	U		0.000380	0.00100
Bromoform	U		0.000469	0.00100
Bromomethane	U		0.000866	0.00500
n-Butylbenzene	U		0.000361	0.00100
sec-Butylbenzene	U		0.000365	0.00100
Carbon disulfide	U		0.000275	0.00100
Carbon tetrachloride	U		0.000379	0.00100
Chlorobenzene	U		0.000348	0.00100
Chlorodibromomethane	U		0.000327	0.00100
Chloroethane	U		0.000453	0.00500
Chloroform	U		0.000324	0.00500
Chloromethane	U		0.000276	0.00250
1,2-Dibromoethane	U		0.000381	0.00100
1,1-Dichloroethane	U		0.000259	0.00100
1,2-Dichloroethane	U		0.000361	0.00100
1,1-Dichloroethene	U		0.000398	0.00100
cis-1,2-Dichloroethene	U		0.000260	0.00100
trans-1,2-Dichloroethene	U		0.000396	0.00100
1,2-Dichloropropane	U		0.000306	0.00100
cis-1,3-Dichloropropene	U		0.000418	0.00100
trans-1,3-Dichloropropene	U		0.000419	0.00100
Ethylbenzene	U		0.000384	0.00100
2-Hexanone	U		0.00382	0.0100
Isopropylbenzene	U		0.000326	0.00100
p-Isopropyltoluene	U		0.000350	0.00100
2-Butanone (MEK)	U		0.00393	0.0100
Methylene Chloride	U		0.00100	0.00500
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100
Methyl tert-butyl ether	U		0.000367	0.00100
Naphthalene	U		0.00100	0.00500
n-Propylbenzene	U		0.000349	0.00100
Styrene	U		0.000307	0.00100
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100
Tetrachloroethene	U		0.000372	0.00100
Toluene	U		0.000412	0.00100
1,1,1-Trichloroethane	U		0.000319	0.00100
1,1,2-Trichloroethane	U		0.000383	0.00100

Method Blank (MB)

(MB) R3216109-3 05/02/17 18:26

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Trichloroethene	U		0.000398	0.00100
1,2,4-Trimethylbenzene	U		0.000373	0.00100
1,3,5-Trimethylbenzene	U		0.000387	0.00100
Vinyl chloride	U		0.000259	0.00100
Xylenes, Total	U		0.00106	0.00300
o-Xylene	U		0.000341	0.00100
m&p-Xylenes	U		0.000719	0.00200
(S) Toluene-d8	*96.3*			*80.0-120*
(S) Dibromofluoromethane	*82.9*			*76.0-123*
(S) 4-Bromofluorobenzene	*96.4*			*80.0-120*

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

(LCS) R3216109-1 05/02/17 17:42 • (LCSD) R3216109-2 05/02/17 17:57

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 %
Acetone	0.125	0.175	0.186	140	148	10.0-160			5.74	23
Benzene	0.0250	0.0216	0.0225	86.2	90.0	69.0-123			4.29	20
Bromodichloromethane	0.0250	0.0241	0.0249	96.3	99.7	76.0-120			3.50	20
Bromoform	0.0250	0.0250	0.0259	99.9	103	67.0-132			3.50	20
Bromomethane	0.0250	0.0191	0.0210	76.3	83.9	18.0-160			9.55	20
n-Butylbenzene	0.0250	0.0240	0.0257	96.1	103	72.0-126			6.88	20
sec-Butylbenzene	0.0250	0.0230	0.0249	92.0	99.7	74.0-121			8.00	20
Carbon disulfide	0.0250	0.0204	0.0217	81.5	86.6	55.0-127			6.04	20
Carbon tetrachloride	0.0250	0.0209	0.0222	83.7	88.7	63.0-122			5.81	20
Chlorobenzene	0.0250	0.0248	0.0258	99.0	103	79.0-121			4.15	20
Chlorodibromomethane	0.0250	0.0249	0.0257	99.5	103	75.0-125			3.33	20
Chloroethane	0.0250	0.0216	0.0234	86.3	93.7	47.0-152			8.26	20
Chloroform	0.0250	0.0212	0.0221	84.9	88.6	72.0-121			4.29	20
Chloromethane	0.0250	0.0229	0.0247	91.8	98.8	48.0-139			7.39	20
1,2-Dibromoethane	0.0250	0.0255	0.0262	102	105	77.0-123			2.86	20
1,1-Dichloroethane	0.0250	0.0213	0.0223	85.3	89.1	70.0-126			4.34	20
1,2-Dichloroethane	0.0250	0.0226	0.0233	90.2	93.1	67.0-126			3.12	20
1,1-Dichloroethene	0.0250	0.0211	0.0222	84.3	88.8	64.0-129			5.20	20
cis-1,2-Dichloroethene	0.0250	0.0209	0.0217	83.7	86.9	73.0-120			3.75	20
trans-1,2-Dichloroethene	0.0250	0.0206	0.0214	82.4	85.5	71.0-121			3.65	20
1,2-Dichloropropane	0.0250	0.0245	0.0255	98.1	102	75.0-125			3.75	20
cis-1,3-Dichloropropene	0.0250	0.0258	0.0265	103	106	79.0-123			2.86	20
trans-1,3-Dichloropropene	0.0250	0.0262	0.0268	105	107	74.0-127			2.42	20

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

(LCS) R3216109-1 05/02/17 17:42 • (LCSD) R3216109-2 05/02/17 17:57

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 %
Ethylbenzene	0.0250	0.0243	0.0256	97.3	102	77.0-120			5.18	20
2-Hexanone	0.125	0.154	0.160	123	128	58.0-147			4.08	20
Isopropylbenzene	0.0250	0.0239	0.0256	95.6	102	75.0-120			6.75	20
p-Isopropyltoluene	0.0250	0.0230	0.0240	92.0	96.1	74.0-126			4.38	20
2-Butanone (MEK)	0.125	0.139	0.144	111	116	37.0-158			4.04	20
Methylene Chloride	0.0250	0.0213	0.0223	85.3	89.1	66.0-121			4.30	20
4-Methyl-2-pentanone (MIBK)	0.125	0.132	0.135	105	108	59.0-143			2.64	20
Methyl tert-butyl ether	0.0250	0.0223	0.0230	89.2	92.2	64.0-123			3.35	20
Naphthalene	0.0250	0.0231	0.0251	92.2	100	62.0-128			8.53	20
n-Propylbenzene	0.0250	0.0242	0.0256	96.6	102	79.0-120			5.67	20
Styrene	0.0250	0.0258	0.0269	103	108	78.0-124			4.45	20
1,1,1,2-Tetrachloroethane	0.0250	0.0231	0.0242	92.3	96.8	75.0-122			4.84	20
1,1,2,2-Tetrachloroethane	0.0250	0.0233	0.0240	93.3	95.9	71.0-122			2.79	20
Tetrachloroethene	0.0250	0.0241	0.0253	96.4	101	70.0-127			4.87	20
Toluene	0.0250	0.0246	0.0258	98.5	103	77.0-120			4.76	20
1,1,1-Trichloroethane	0.0250	0.0210	0.0222	84.2	88.7	68.0-122			5.23	20
1,1,2-Trichloroethane	0.0250	0.0246	0.0254	98.6	102	78.0-120			3.10	20
Trichloroethene	0.0250	0.0238	0.0251	95.3	100	78.0-120			5.03	20
1,2,4-Trimethylbenzene	0.0250	0.0234	0.0248	93.7	99.3	75.0-120			5.85	20
1,3,5-Trimethylbenzene	0.0250	0.0237	0.0251	94.7	101	75.0-120			6.03	20
Vinyl chloride	0.0250	0.0238	0.0254	95.4	102	64.0-133			6.42	20
Xylenes, Total	0.0750	0.0727	0.0766	96.9	102	77.0-120			5.22	20
o-Xylene	0.0250	0.0238	0.0252	95.1	101	78.0-120			5.77	20
m&p-Xylenes	0.0500	0.0489	0.0514	97.8	103	77.0-120			5.01	20
(S) Toluene-d8				*95.2*	*96.0*	*80.0-120*				
(S) Dibromofluoromethane				*82.8*	*81.7*	*76.0-123*				
(S) 4-Bromofluorobenzene				*90.7*	*90.8*	*80.0-120*				

Method Blank (MB)

(MB) R3215215-3 05/02/17 16:02

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Acetone	U		0.0100	0.0500
Benzene	U		0.000331	0.00100
Bromodichloromethane	U		0.000380	0.00100
Bromoform	U		0.000469	0.00100
Bromomethane	U		0.000866	0.00500
n-Butylbenzene	U		0.000361	0.00100
sec-Butylbenzene	U		0.000365	0.00100
Carbon disulfide	U		0.000275	0.00100
Carbon tetrachloride	U		0.000379	0.00100
Chlorobenzene	U		0.000348	0.00100
Chlorodibromomethane	U		0.000327	0.00100
Chloroethane	U		0.000453	0.00500
Chloroform	U		0.000324	0.00500
Chloromethane	U		0.000276	0.00250
1,2-Dibromoethane	U		0.000381	0.00100
1,1-Dichloroethane	U		0.000259	0.00100
1,2-Dichloroethane	U		0.000361	0.00100
1,1-Dichloroethene	U		0.000398	0.00100
cis-1,2-Dichloroethene	U		0.000260	0.00100
trans-1,2-Dichloroethene	U		0.000396	0.00100
1,2-Dichloropropane	U		0.000306	0.00100
cis-1,3-Dichloropropene	U		0.000418	0.00100
trans-1,3-Dichloropropene	U		0.000419	0.00100
Ethylbenzene	U		0.000384	0.00100
2-Hexanone	U		0.00382	0.0100
Isopropylbenzene	U		0.000326	0.00100
p-Isopropyltoluene	U		0.000350	0.00100
2-Butanone (MEK)	U		0.00393	0.0100
Methylene Chloride	U		0.00100	0.00500
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100
Methyl tert-butyl ether	U		0.000367	0.00100
Naphthalene	U		0.00100	0.00500
n-Propylbenzene	U		0.000349	0.00100
Styrene	U		0.000307	0.00100
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100
Tetrachloroethene	U		0.000372	0.00100
Toluene	U		0.000412	0.00100
1,1,1-Trichloroethane	U		0.000319	0.00100
1,1,2-Trichloroethane	U		0.000383	0.00100

Method Blank (MB)

(MB) R3215215-3 05/02/17 16:02

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	mg/l		mg/l	mg/l
Trichloroethene	U		0.000398	0.00100
1,2,4-Trimethylbenzene	U		0.000373	0.00100
1,3,5-Trimethylbenzene	U		0.000387	0.00100
Vinyl chloride	U		0.000259	0.00100
Xylenes, Total	U		0.00106	0.00300
o-Xylene	U		0.000341	0.00100
m&p-Xylenes	U		0.000719	0.00200
(S) Toluene-d8	*105*			*80.0-120*
(S) Dibromofluoromethane	*108*			*76.0-123*
(S) 4-Bromofluorobenzene	*92.1*			*80.0-120*

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

(LCS) R3215215-1 05/02/17 14:56 • (LCSD) R3215215-2 05/02/17 15:18

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	mg/l	mg/l	mg/l	%	%	%			%	%
Acetone	0.125	0.171	0.171	137	137	10.0-160			0.310	23
Benzene	0.0250	0.0236	0.0236	94.6	94.5	69.0-123			0.0300	20
Bromodichloromethane	0.0250	0.0237	0.0239	94.7	95.6	76.0-120			0.930	20
Bromoform	0.0250	0.0228	0.0231	91.3	92.5	67.0-132			1.24	20
Bromomethane	0.0250	0.0366	0.0359	147	144	18.0-160			2.00	20
n-Butylbenzene	0.0250	0.0244	0.0246	97.7	98.5	72.0-126			0.810	20
sec-Butylbenzene	0.0250	0.0248	0.0251	99.2	100	74.0-121			1.07	20
Carbon disulfide	0.0250	0.0215	0.0218	86.0	87.3	55.0-127			1.47	20
Carbon tetrachloride	0.0250	0.0245	0.0250	98.0	99.9	63.0-122			1.89	20
Chlorobenzene	0.0250	0.0221	0.0224	88.3	89.5	79.0-121			1.42	20
Chlorodibromomethane	0.0250	0.0219	0.0222	87.4	88.7	75.0-125			1.47	20
Chloroethane	0.0250	0.0307	0.0323	123	129	47.0-152			5.13	20
Chloroform	0.0250	0.0235	0.0233	93.8	93.3	72.0-121			0.530	20
Chloromethane	0.0250	0.0238	0.0242	95.4	96.9	48.0-139			1.56	20
1,2-Dibromoethane	0.0250	0.0217	0.0221	86.9	88.3	77.0-123			1.53	20
1,1-Dichloroethane	0.0250	0.0235	0.0237	93.9	94.9	70.0-126			1.11	20
1,2-Dichloroethane	0.0250	0.0220	0.0220	88.0	87.9	67.0-126			0.170	20
1,1-Dichloroethene	0.0250	0.0223	0.0228	89.1	91.0	64.0-129			2.17	20
cis-1,2-Dichloroethene	0.0250	0.0229	0.0230	91.6	92.0	73.0-120			0.420	20
trans-1,2-Dichloroethene	0.0250	0.0266	0.0272	106	109	71.0-121			2.38	20
1,2-Dichloropropane	0.0250	0.0224	0.0225	89.4	90.0	75.0-125			0.620	20
cis-1,3-Dichloropropene	0.0250	0.0216	0.0215	86.3	86.0	79.0-123			0.350	20
trans-1,3-Dichloropropene	0.0250	0.0203	0.0203	81.3	81.0	74.0-127			0.350	20

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

(LCS) R3215215-1 05/02/17 14:56 • (LCSD) R3215215-2 05/02/17 15:18

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Ethylbenzene	0.0250	0.0223	0.0225	89.1	90.1	77.0-120			1.18	20
2-Hexanone	0.125	0.121	0.120	97.1	95.7	58.0-147			1.48	20
Isopropylbenzene	0.0250	0.0232	0.0235	92.9	94.2	75.0-120			1.40	20
p-Isopropyltoluene	0.0250	0.0246	0.0251	98.5	100	74.0-126			1.74	20
2-Butanone (MEK)	0.125	0.120	0.120	95.7	96.1	37.0-158			0.360	20
Methylene Chloride	0.0250	0.0290	0.0291	116	116	66.0-121			0.220	20
4-Methyl-2-pentanone (MIBK)	0.125	0.113	0.112	90.2	89.4	59.0-143			0.890	20
Methyl tert-butyl ether	0.0250	0.0258	0.0269	103	107	64.0-123			4.12	20
Naphthalene	0.0250	0.0205	0.0208	81.9	83.2	62.0-128			1.56	20
n-Propylbenzene	0.0250	0.0237	0.0241	94.8	96.2	79.0-120			1.48	20
Styrene	0.0250	0.0213	0.0216	85.2	86.2	78.0-124			1.11	20
1,1,1,2-Tetrachloroethane	0.0250	0.0241	0.0242	96.3	96.7	75.0-122			0.450	20
1,1,2,2-Tetrachloroethane	0.0250	0.0220	0.0227	88.1	90.9	71.0-122			3.06	20
Tetrachloroethene	0.0250	0.0224	0.0228	89.8	91.4	70.0-127			1.77	20
Toluene	0.0250	0.0226	0.0224	90.4	89.7	77.0-120			0.770	20
1,1,1-Trichloroethane	0.0250	0.0244	0.0240	97.4	95.9	68.0-122			1.56	20
1,1,2-Trichloroethane	0.0250	0.0221	0.0218	88.4	87.2	78.0-120			1.35	20
Trichloroethene	0.0250	0.0246	0.0243	98.5	97.2	78.0-120			1.40	20
1,2,4-Trimethylbenzene	0.0250	0.0228	0.0230	91.1	92.1	75.0-120			1.06	20
1,3,5-Trimethylbenzene	0.0250	0.0235	0.0239	94.0	95.7	75.0-120			1.75	20
Vinyl chloride	0.0250	0.0268	0.0278	107	111	64.0-133			3.68	20
Xylenes, Total	0.0750	0.0667	0.0680	88.9	90.7	77.0-120			1.93	20
o-Xylene	0.0250	0.0223	0.0228	89.3	91.1	78.0-120			1.93	20
m&p-Xylenes	0.0500	0.0444	0.0452	88.9	90.5	77.0-120			1.77	20
(S) Toluene-d8				*103*	*102*	*80.0-120*				
(S) Dibromofluoromethane				*105*	*106*	*76.0-123*				
(S) 4-Bromofluorobenzene				*95.8*	*96.7*	*80.0-120*				

Method Blank (MB)

(MB) R3215650-1 05/03/17 17:13

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	mg/l		mg/l	mg/l
TPH (GC/FID) High Fraction	U		0.0247	0.100
(S) o-Terphenyl	*73.1*			*31.0-160*

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

(LCS) R3215650-2 05/03/17 17:31 • (LCSD) R3215650-3 05/03/17 17:49

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	mg/l	mg/l	mg/l	%	%	%			%	%
TPH (GC/FID) High Fraction	1.50	1.78	2.18	119	145	50.0-150			19.9	20
(S) o-Terphenyl				*73.2*	*81.9*	*31.0-160*				

L905796-07 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L905796-07 05/05/17 07:55 • (MS) R3215847-1 05/05/17 08:12 • (MSD) R3215847-2 05/05/17 08:57

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
	mg/l	mg/l	mg/l	mg/l	%	%		%			%	%
TPH (GC/FID) High Fraction	1.50	1.89	3.89	3.65	133	118	1	50.0-150			6.33	20
(S) o-Terphenyl					*81.1*	*77.6*		*31.0-160*				

Abbreviations and Definitions

SDG	Sample Delivery Group.
MDL	Method Detection Limit.
RDL	Reported Detection Limit.
ND	Not detected at the Reporting Limit (or MDL where applicable).
U	Not detected at the Reporting Limit (or MDL where applicable).
RPD	Relative Percent Difference.
(dry)	Results are reported based on the dry weight of the sample. [this will only be present on a dry report basis for soils].
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.
(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.
Rec.	Recovery.

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.
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.

ESC Lab Sciences is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our "one location" design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be **YOUR LAB OF CHOICE.**
* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

State Accreditations

Alabama	40660
Alaska	UST-080
Arizona	AZ0612
Arkansas	88-0469
California	01157CA
Colorado	TN00003
Conneticut	PH-0197
Florida	E87487
Georgia	NELAP
Georgia [1]	923
Idaho	TN00003
Illinois	200008
Indiana	C-TN-01
Iowa	364
Kansas	E-10277
Kentucky [1]	90010
Kentucky [2]	16
Louisiana	AI30792
Maine	TN0002
Maryland	324
Massachusetts	M-TN003
Michigan	9958
Minnesota	047-999-395
Mississippi	TN00003
Missouri	340
Montana	CERT0086
Nebraska	NE-OS-15-05
Nevada	TN-03-2002-34
New Hampshire	2975
New Jersey–NELAP	TN002
New Mexico	TN00003
New York	11742
North Carolina	Env375
North Carolina [1]	DW21704
North Carolina [2]	41
North Dakota	R-140
Ohio–VAP	CL0069
Oklahoma	9915
Oregon	TN200002
Pennsylvania	68-02979
Rhode Island	221
South Carolina	84004
South Dakota	n/a
Tennessee [1 4]	2006
Texas	T 104704245-07-TX
Texas [5]	LAB0152
Utah	6157585858
Vermont	VT2006
Virginia	109
Washington	C1915
West Virginia	233
Wisconsin	9980939910
Wyoming	A2LA

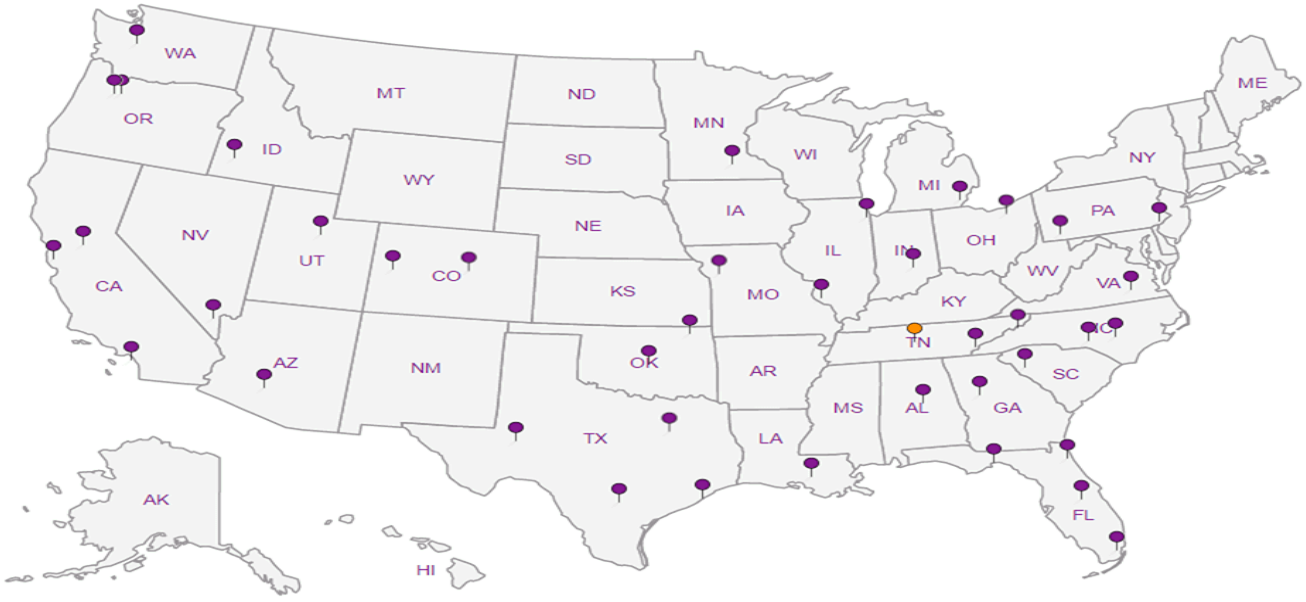
Third Party & Federal Accreditations

A2LA – ISO 17025	1461.01
A2LA – ISO 17025 [5]	1461.02
Canada	1461.01
EPA–Crypto	TN00003
AIHA-LAP,LLC	100789
DOD	1461.01
USDA	S-67674

[1.] Drinking Water [2.] Underground Storage Tanks [3.] Aquatic Toxicity [4.] Chemical/Microbiological [5.] Mold [n/a] Accreditation not applicable

Our Locations

ESC Lab Sciences has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. **ESC Lab Sciences performs all testing at our central laboratory.**



Company Name/Address:	Billing Information:
TRC Solutions - Austin, TX **505 E. Huntland Dr, Ste 250** **Austin, TX 78752**	**Accounts Payable** **21 Griffin Road North** **Windsor, CT 06095**
Report to: Julie Speer	Email To: jspeer@trcwsolutions.com
Project Description: **TEL Spring 2017**	City/State Collected: NM
Phone: 512-684-3170 Fax:	Client Project #	Lab Project #
Collected by (print): **Scott Ude/HMI Team**	Site/Facility ID #: TEL (Navajo - Artesia)	P.O. #: 107027
Collected by (signature): Scott Ude Immediately Packed on Ice N ___ Y ✓	***Rush?*** (Lab MUST Be Notified) ___ Same Day ....200% ___ Next Day ....100% ___ Two Day ....50% ___ Three Day 25%	Date Results Needed Email? ___No ✓Yes FAX? ___No ___Yes

Analysis / Container / Preservative

Chain of Custody Page ___ of ___

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

L# L905645
B238

Acctnum: TRCATX
Template:
Prelogin:
TSR: **Chris McCord**
Cooler:
Shipped Via:

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	VOC	DRO	GRO	Short List Metals (Total & Dissolved)	Cations (from "total metals" bottle) 12	Anions	NO2NO3, TDS 12	Long List Metals (Total & Dissolved)	Cyanide	Rem./Contaminant	Sample # (lab only)
TEL-4	Grab	GW		4/27/17	1055	10	X	X	X	X	X	X	X				-01
TEL-3	Grab	GW		4/27/17	1150	10	X	X	X	X	X	X	X				-02
TEL-2	Grab	GW		4/27/17	1045	10	X	X	X	X	X	X	X				-03
TEL-1	Grab	GW		4/27/17	855	10	X	X	X	X	X	X	X				DV
MW-49	Grab	GW		4/27/17	1030	9	X	X	X		X	X	X	X	X		-08
	Grab	GW															
	Grab	GW															
	Grab	GW															
	Grab	GW															
	Grab	GW															

* Matrix: **SS** - Soil **GW** - Groundwater **WW** - WasteWater **DW** - Drinking Water **OT** - Other_____

Remarks: **Dissolved metals field-filtered.**

pH _____ Temp _____
Flow _____ Other _____

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Scott Ude	4/27/17	1500	
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)
			Matt

Samples returned via: ☐ UPS ☑ FedEx ☐ Courier ☐ _____
Temp: 2.6 °C Bottles Received: 61
Date: 4-28-17 Time: 845

Hold #
Condition: (lab use only)
COC Seal Intact: ✓ Y ___ N ___ NA
pH Checked: C2 NCF:

Company Name/Address:
TRC Solutions - Austin, TX
505 E. Huntland Dr, Ste 250
Austin, TX 78752

Billing Information:
Accounts Payable
21 Griffin Road North
Windsor, CT 06095

Report to: Julie Speer
Email To: jspeer@trcwsolutions.com

Project Description: **TEL Spring 2017**
City/State Collected: NM

Phone: 512-684-3170
Fax:
Client Project #
Lab Project #

Collected by (print): **Scott Ude/HMI Team**
Site/Facility ID #: TEL (Navajo - Artesia)
P.O. #: 107027

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

Rush? (Lab MUST Be Notified)
___ Same Day 200%
___ Next Day 100%
___ Two Day 50%
___ Three Day 25%

Date Results Needed
Email? ___No ✓Yes
FAX? ___No ___Yes

Analysis / Container / Preservative

Chain of Custody Page ___ of ___

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

L# L905645
Table #
Acctnum: TRCATX
Template:
Prelogin:
TSR: **Chris McCord**
Cooler:
Shipped Via:

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	VOC	DRO	GRO	Short List Metals (Total & Dissolved)	Cations (from "total metals" bottle) L2	Anions	NO2NO3, TDS L2	Long List Metals (Total & Dissolved)	Cyanide	Rem./Contaminant	Sample # (lab only)
DUP-TEL-01	Grab	GW		4/27/17	1100	10	X	X	X	X	X	X	X				05
EB-TEL-01	Grab	GW		4/27/17	1205	10	X	X	X	X	X	X	X				06
Trip Blank-TEL-01	Grab	GW		4/27/17	—	1	X										07
	Grab	GW															
	Grab	GW															
	Grab	GW															
	Grab	GW															
	Grab	GW															
	Grab	GW															
	Grab	GW															
	Grab	GW															

* Matrix: **SS** - Soil **GW** - Groundwater **WW** - WasteWater **DW** - Drinking Water **OT** - Other ___

Remarks: **Dissolved metals field-filtered.**

pH ___ Temp ___
Flow ___ Other ___

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Scott Ude	4/27/17	1500	
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)
			Mwt

Samples returned via: ☐ UPS ☑ FedEx ☐ Courier ☐ ___
Temp: 2.4 °C Bottles Received: 61
Date: 4-28-17 Time: 845

Hold #
Condition: (lab use only)
OK
COC Seal Intact: ___Y ___N ___NA
pH Checked: L2 NCF:

ESC LAB SCIENCES
Cooler Receipt Form

Client: TRCATX	SDG#	L905644
Cooler Received/Opened On: 4/ 28 /17	Temperature:	2.4
Received By: MICHAEL Witherspoon		
Signature:		

Receipt Check List	NP	Yes	No
COC Seal Present / Intact?			
COC Signed / Accurate?			
Bottles arrive intact?			
Correct bottles used?			
Sufficient volume sent?			
If Applicable			
VOA Zero headspace?			
Preservation Correct / Checked?			

ANALYTICAL REPORT

May 10, 2017

TRC Solutions - Austin, TX

Sample Delivery Group:	L905651
Samples Received:	04/28/2017
Project Number:	249545.0000.0000 000
Description:	NCL Spring 2017
Site:	NCL - NAVAJO-ARTESIA
Report To:	Julie Speer 505 E. Huntland Dr, Ste 250 Austin, TX 78752

Entire Report Reviewed By:

Chris McCord
Technical Service Representative

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 ESC is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.

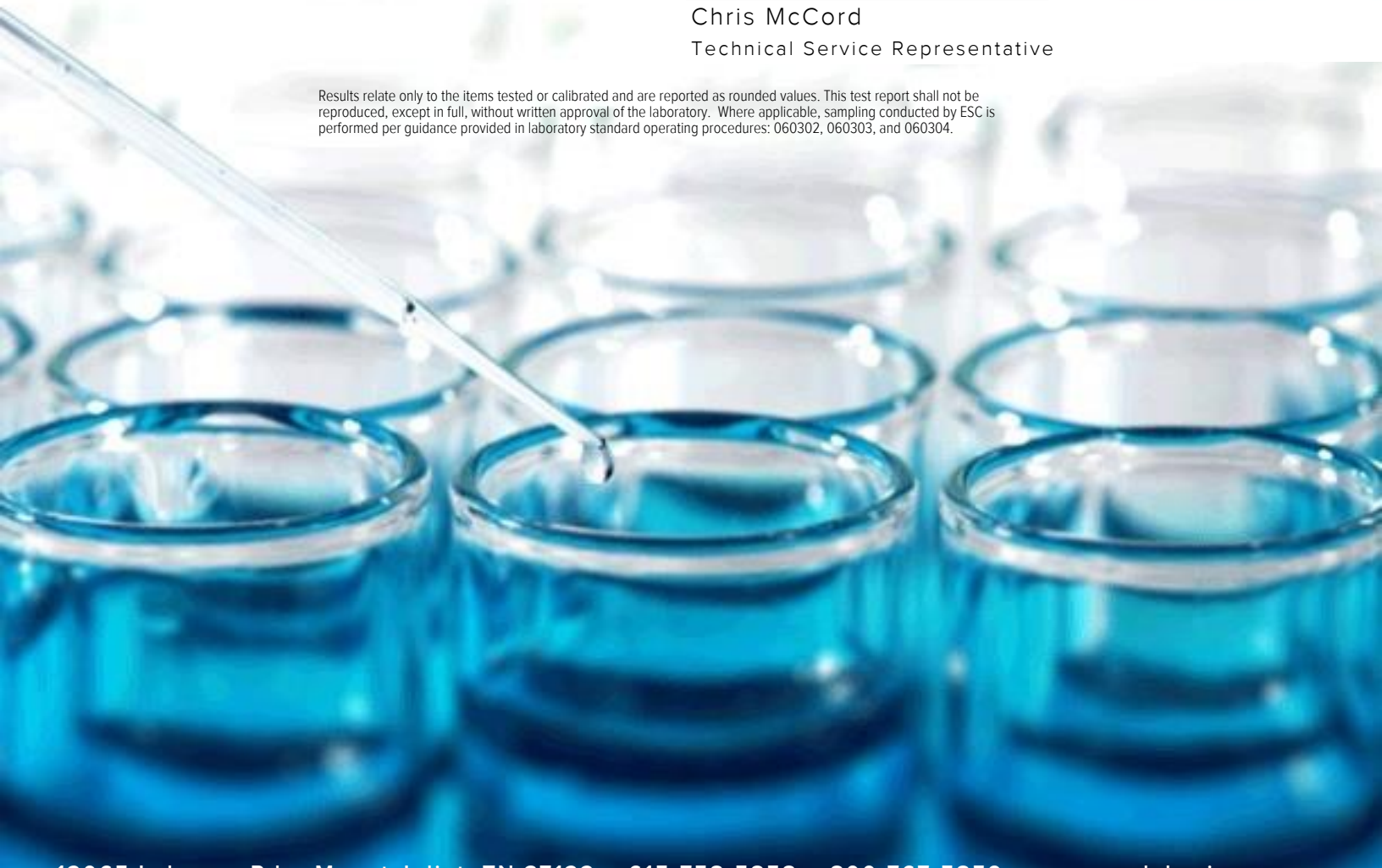


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MW-56 L905651-01 GW

Collected by: Scott Ude-HMI Team
Collected date/time: 04/26/17 14:25
Received date/time: 04/28/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG975503	1	05/03/17 11:01	05/03/17 12:09	MMF
Wet Chemistry by Method 353.2	WG975894	1	05/03/17 15:04	05/03/17 15:04	DR
Wet Chemistry by Method 9056A	WG976555	1	05/04/17 14:27	05/04/17 14:27	SAM
Wet Chemistry by Method 9056A	WG976555	50	05/04/17 14:43	05/04/17 14:43	SAM
Metals (ICPMS) by Method 6020	WG975071	1	05/03/17 22:13	05/05/17 02:39	LAT
Metals (ICPMS) by Method 6020	WG975082	1	05/03/17 09:29	05/05/17 03:34	LAT
Metals (ICPMS) by Method 6020	WG975082	1	05/03/17 09:29	05/05/17 20:55	VSS
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975535	1	05/02/17 20:23	05/02/17 20:23	JHH
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG975555	1	05/01/17 23:00	05/03/17 03:59	TH

MW-55 L905651-02 GW

Collected by: Scott Ude-HMI Team
Collected date/time: 04/27/17 10:00
Received date/time: 04/28/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG975909	1	05/03/17 13:20	05/03/17 14:04	MMF
Wet Chemistry by Method 353.2	WG975894	1	05/03/17 15:05	05/03/17 15:05	DR
Wet Chemistry by Method 4500CN E-2011	WG975005	1	05/01/17 10:39	05/02/17 10:56	DR
Wet Chemistry by Method 9056A	WG976555	1	05/04/17 14:58	05/04/17 14:58	SAM
Wet Chemistry by Method 9056A	WG976555	50	05/04/17 15:13	05/04/17 15:13	SAM
Mercury by Method 7470A	WG974957	1	04/29/17 06:59	05/02/17 15:52	TRB
Mercury by Method 7470A	WG974958	1	04/29/17 06:58	05/02/17 14:30	TRB
Metals (ICPMS) by Method 6020	WG975071	1	05/03/17 22:13	05/05/17 02:43	LAT
Metals (ICPMS) by Method 6020	WG975082	1	05/03/17 09:29	05/05/17 03:55	LAT
Metals (ICPMS) by Method 6020	WG975082	1	05/03/17 09:29	05/05/17 21:09	VSS
Metals (ICPMS) by Method 6020	WG976972	1	05/05/17 13:15	05/10/17 11:36	JPD
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG975302	1	05/01/17 00:53	05/01/17 00:53	LRL
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975535	1	05/02/17 20:38	05/02/17 20:38	JHH
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG975555	1	05/01/17 23:00	05/03/17 04:16	TH

MW-18 L905651-03 GW

Collected by: Scott Ude-HMI Team
Collected date/time: 04/27/17 09:15
Received date/time: 04/28/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG975909	1	05/03/17 13:20	05/03/17 14:04	MMF
Wet Chemistry by Method 353.2	WG975894	20	05/03/17 15:06	05/03/17 15:06	DR
Wet Chemistry by Method 4500CN E-2011	WG975005	1	05/01/17 10:39	05/02/17 10:57	DR
Wet Chemistry by Method 9056A	WG976555	1	05/04/17 15:29	05/04/17 15:29	SAM
Wet Chemistry by Method 9056A	WG976555	50	05/04/17 15:44	05/04/17 15:44	SAM
Mercury by Method 7470A	WG974957	1	04/29/17 06:59	05/02/17 15:54	TRB
Mercury by Method 7470A	WG974958	1	04/29/17 06:58	05/02/17 14:32	TRB
Metals (ICPMS) by Method 6020	WG975071	1	05/03/17 22:13	05/05/17 02:46	LAT
Metals (ICPMS) by Method 6020	WG975082	1	05/03/17 09:29	05/05/17 03:58	LAT
Metals (ICPMS) by Method 6020	WG975082	1	05/03/17 09:29	05/05/17 21:12	VSS
Metals (ICPMS) by Method 6020	WG976972	1	05/05/17 13:15	05/10/17 11:49	JPD
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975535	1	05/02/17 20:53	05/02/17 20:53	JHH
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG975555	1	05/01/17 23:00	05/03/17 04:33	TH

NCL-34A L905651-04 GW

Collected by: Scott Ude-HMI Team | Collected date/time: 04/26/17 12:50 | Received date/time: 04/28/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG975503	1	05/03/17 11:01	05/03/17 12:09	MMF
Wet Chemistry by Method 353.2	WG975894	1	05/03/17 15:07	05/03/17 15:07	DR
Wet Chemistry by Method 9056A	WG976555	1	05/04/17 16:00	05/04/17 16:00	SAM
Wet Chemistry by Method 9056A	WG976555	10	05/04/17 16:15	05/04/17 16:15	SAM
Metals (ICPMS) by Method 6020	WG975071	1	05/03/17 22:13	05/05/17 02:50	LAT
Metals (ICPMS) by Method 6020	WG975082	1	05/03/17 09:29	05/05/17 04:02	LAT
Metals (ICPMS) by Method 6020	WG975082	1	05/03/17 09:29	05/05/17 21:27	VSS
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975535	50	05/02/17 22:50	05/02/17 22:50	JHH
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG975555	5	05/01/17 23:00	05/06/17 00:27	DMG

NCL-33 L905651-05 GW

Collected by: Scott Ude-HMI Team | Collected date/time: 04/26/17 12:10 | Received date/time: 04/28/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG975503	1	05/03/17 11:01	05/03/17 12:09	MMF
Wet Chemistry by Method 353.2	WG975894	1	05/03/17 15:15	05/03/17 15:15	DR
Wet Chemistry by Method 9056A	WG976555	1	05/04/17 16:30	05/04/17 16:30	SAM
Wet Chemistry by Method 9056A	WG976555	50	05/04/17 16:46	05/04/17 16:46	SAM
Metals (ICPMS) by Method 6020	WG975071	1	05/03/17 22:13	05/05/17 02:53	LAT
Metals (ICPMS) by Method 6020	WG975082	1	05/03/17 09:29	05/05/17 04:06	LAT
Metals (ICPMS) by Method 6020	WG975082	1	05/03/17 09:29	05/05/17 21:31	VSS
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975535	1	05/02/17 21:07	05/02/17 21:07	JHH
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG975555	1	05/01/17 23:00	05/03/17 04:50	TH

NCL-44 L905651-06 GW

Collected by: Scott Ude-HMI Team | Collected date/time: 04/26/17 11:25 | Received date/time: 04/28/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG975503	1	05/03/17 11:01	05/03/17 12:09	MMF
Wet Chemistry by Method 353.2	WG975894	1	05/03/17 15:16	05/03/17 15:16	DR
Wet Chemistry by Method 9056A	WG976555	1	05/04/17 17:36	05/04/17 17:36	SAM
Wet Chemistry by Method 9056A	WG976555	50	05/04/17 17:51	05/04/17 17:51	SAM
Metals (ICPMS) by Method 6020	WG975071	1	05/03/17 22:13	05/05/17 03:04	LAT
Metals (ICPMS) by Method 6020	WG975082	1	05/03/17 09:29	05/05/17 04:09	LAT
Metals (ICPMS) by Method 6020	WG975082	1	05/03/17 09:29	05/05/17 21:34	VSS
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975535	1	05/02/17 21:22	05/02/17 21:22	JHH
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG975555	5	05/01/17 23:00	05/06/17 00:44	DMG

NCL-32 L905651-07 GW

Collected by: Scott Ude-HMI Team | Collected date/time: 04/26/17 10:35 | Received date/time: 04/28/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG975503	1	05/03/17 11:01	05/03/17 12:09	MMF
Wet Chemistry by Method 353.2	WG975895	1	05/05/17 10:04	05/05/17 10:04	DR
Wet Chemistry by Method 9056A	WG976555	1	05/04/17 18:07	05/04/17 18:07	SAM
Wet Chemistry by Method 9056A	WG976555	50	05/04/17 18:22	05/04/17 18:22	SAM
Metals (ICPMS) by Method 6020	WG975071	1	05/03/17 22:13	05/05/17 03:07	LAT
Metals (ICPMS) by Method 6020	WG975082	1	05/03/17 09:29	05/05/17 04:13	LAT
Metals (ICPMS) by Method 6020	WG975082	1	05/03/17 09:29	05/05/17 21:38	VSS
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975535	1	05/02/17 21:37	05/02/17 21:37	JHH
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG975555	1	05/01/17 23:00	05/03/17 08:47	TH

MW-108 L905651-08 GW

Collected by: Scott Ude-HMI Team
Collected date/time: 04/26/17 09:05
Received date/time: 04/28/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG975503	1	05/03/17 11:01	05/03/17 12:09	MMF
Wet Chemistry by Method 353.2	WG975895	1	05/05/17 10:06	05/05/17 10:06	DR
Wet Chemistry by Method 9056A	WG976223	10	05/04/17 12:33	05/04/17 12:33	KCF
Wet Chemistry by Method 9056A	WG976555	1	05/05/17 00:48	05/05/17 00:48	SAM
Metals (ICPMS) by Method 6020	WG975071	1	05/03/17 22:13	05/05/17 03:11	LAT
Metals (ICPMS) by Method 6020	WG975082	1	05/03/17 09:29	05/05/17 04:16	LAT
Metals (ICPMS) by Method 6020	WG975082	1	05/03/17 09:29	05/05/17 21:41	VSS
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975535	25	05/02/17 23:05	05/02/17 23:05	JHH
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG975555	5	05/01/17 23:00	05/06/17 00:10	DMG

NCL-31 L905651-09 GW

Collected by: Scott Ude-HMI Team
Collected date/time: 04/26/17 09:50
Received date/time: 04/28/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG975503	1	05/03/17 11:01	05/03/17 12:09	MMF
Wet Chemistry by Method 353.2	WG975895	1	05/05/17 10:13	05/05/17 10:13	DR
Wet Chemistry by Method 9056A	WG976555	1	05/04/17 18:38	05/04/17 18:38	SAM
Wet Chemistry by Method 9056A	WG976555	50	05/04/17 18:53	05/04/17 18:53	SAM
Metals (ICPMS) by Method 6020	WG975071	1	05/03/17 22:13	05/05/17 03:14	LAT
Metals (ICPMS) by Method 6020	WG975082	1	05/03/17 09:29	05/05/17 04:20	LAT
Metals (ICPMS) by Method 6020	WG975082	1	05/03/17 09:29	05/05/17 21:44	VSS
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975535	1	05/02/17 21:51	05/02/17 21:51	JHH
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG975555	1	05/01/17 23:00	05/05/17 23:53	DMG

EB-NCL-01 L905651-10 GW

Collected by: Scott Ude-HMI Team
Collected date/time: 04/26/17 10:45
Received date/time: 04/28/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG975503	1	05/03/17 11:01	05/03/17 12:09	MMF
Wet Chemistry by Method 353.2	WG975895	1	05/05/17 10:15	05/05/17 10:15	DR
Wet Chemistry by Method 9056A	WG976555	1	05/05/17 09:57	05/05/17 09:57	SAM
Metals (ICPMS) by Method 6020	WG975071	1	05/03/17 22:13	05/05/17 03:18	LAT
Metals (ICPMS) by Method 6020	WG975082	1	05/03/17 09:29	05/05/17 04:23	LAT
Metals (ICPMS) by Method 6020	WG975082	1	05/03/17 09:29	05/05/17 21:48	VSS
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975535	1	05/02/17 22:06	05/02/17 22:06	JHH
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG975555	1	05/01/17 23:00	05/03/17 05:07	TH

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times. 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
Technical Service Representative

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Dissolved Solids	4100		2.82	10.0	1	05/03/2017 12:09	WG975503

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	3.93		0.0197	0.100	1	05/03/2017 15:04	WG975894

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	453		2.60	50.0	50	05/04/2017 14:43	WG976555
Fluoride	1.00		0.00990	0.100	1	05/04/2017 14:27	WG976555
Sulfate	2070		3.87	250	50	05/04/2017 14:43	WG976555

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.00642		0.000250	0.00200	1	05/05/2017 03:34	WG975082
Arsenic,Dissolved	0.00665		0.000250	0.00200	1	05/05/2017 02:39	WG975071
Barium	0.0157		0.000360	0.00500	1	05/05/2017 03:34	WG975082
Barium,Dissolved	0.0174		0.000360	0.00500	1	05/05/2017 02:39	WG975071
Calcium	501	V	0.0460	1.00	1	05/05/2017 03:34	WG975082
Chromium	U		0.000540	0.00200	1	05/05/2017 03:34	WG975082
Chromium,Dissolved	U		0.000540	0.00200	1	05/05/2017 02:39	WG975071
Iron	U		0.0150	0.100	1	05/05/2017 03:34	WG975082
Iron,Dissolved	U		0.0150	0.100	1	05/05/2017 02:39	WG975071
Lead	0.000467	J	0.000240	0.00200	1	05/05/2017 20:55	WG975082
Lead,Dissolved	0.000369	J	0.000240	0.00200	1	05/05/2017 02:39	WG975071
Manganese	0.320		0.000250	0.00500	1	05/05/2017 03:34	WG975082
Manganese,Dissolved	0.339		0.000250	0.00500	1	05/05/2017 02:39	WG975071
Potassium	2.10		0.0370	1.00	1	05/05/2017 03:34	WG975082
Selenium	0.00325		0.000380	0.00200	1	05/05/2017 03:34	WG975082
Selenium,Dissolved	0.00306		0.000380	0.00200	1	05/05/2017 02:39	WG975071
Sodium	338	V	0.110	1.00	1	05/05/2017 03:34	WG975082

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		0.0100	0.0500	1	05/02/2017 20:23	WG975535
Benzene	U		0.000331	0.00100	1	05/02/2017 20:23	WG975535
Bromodichloromethane	U		0.000380	0.00100	1	05/02/2017 20:23	WG975535
Bromoform	U		0.000469	0.00100	1	05/02/2017 20:23	WG975535
Bromomethane	U		0.000866	0.00500	1	05/02/2017 20:23	WG975535
n-Butylbenzene	U		0.000361	0.00100	1	05/02/2017 20:23	WG975535
sec-Butylbenzene	U		0.000365	0.00100	1	05/02/2017 20:23	WG975535
Carbon disulfide	U		0.000275	0.00100	1	05/02/2017 20:23	WG975535
Carbon tetrachloride	U		0.000379	0.00100	1	05/02/2017 20:23	WG975535
Chlorobenzene	U		0.000348	0.00100	1	05/02/2017 20:23	WG975535
Chlorodibromomethane	U		0.000327	0.00100	1	05/02/2017 20:23	WG975535
Chloroethane	U		0.000453	0.00500	1	05/02/2017 20:23	WG975535
Chloroform	U		0.000324	0.00500	1	05/02/2017 20:23	WG975535
Chloromethane	U		0.000276	0.00250	1	05/02/2017 20:23	WG975535
1,2-Dibromoethane	U		0.000381	0.00100	1	05/02/2017 20:23	WG975535
1,1-Dichloroethane	U		0.000259	0.00100	1	05/02/2017 20:23	WG975535

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
1,2-Dichloroethane	U		0.000361	0.00100	1	05/02/2017 20:23	WG975535
1,1-Dichloroethene	U		0.000398	0.00100	1	05/02/2017 20:23	WG975535
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	05/02/2017 20:23	WG975535
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	05/02/2017 20:23	WG975535
1,2-Dichloropropane	U		0.000306	0.00100	1	05/02/2017 20:23	WG975535
cis-1,3-Dichloropropene	U		0.000418	0.00100	1	05/02/2017 20:23	WG975535
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	05/02/2017 20:23	WG975535
Ethylbenzene	U		0.000384	0.00100	1	05/02/2017 20:23	WG975535
Isopropylbenzene	U		0.000326	0.00100	1	05/02/2017 20:23	WG975535
p-Isopropyltoluene	U		0.000350	0.00100	1	05/02/2017 20:23	WG975535
2-Butanone (MEK)	U		0.00393	0.0100	1	05/02/2017 20:23	WG975535
2-Hexanone	U		0.00382	0.0100	1	05/02/2017 20:23	WG975535
Methylene Chloride	U		0.00100	0.00500	1	05/02/2017 20:23	WG975535
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	05/02/2017 20:23	WG975535
Methyl tert-butyl ether	0.0222		0.000367	0.00100	1	05/02/2017 20:23	WG975535
Naphthalene	U		0.00100	0.00500	1	05/02/2017 20:23	WG975535
n-Propylbenzene	U		0.000349	0.00100	1	05/02/2017 20:23	WG975535
Styrene	U		0.000307	0.00100	1	05/02/2017 20:23	WG975535
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	05/02/2017 20:23	WG975535
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	05/02/2017 20:23	WG975535
Tetrachloroethene	U		0.000372	0.00100	1	05/02/2017 20:23	WG975535
Toluene	U		0.000412	0.00100	1	05/02/2017 20:23	WG975535
1,1,1-Trichloroethane	U		0.000319	0.00100	1	05/02/2017 20:23	WG975535
1,1,2-Trichloroethane	U		0.000383	0.00100	1	05/02/2017 20:23	WG975535
Trichloroethene	U		0.000398	0.00100	1	05/02/2017 20:23	WG975535
1,2,4-Trimethylbenzene	U		0.000373	0.00100	1	05/02/2017 20:23	WG975535
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	05/02/2017 20:23	WG975535
Vinyl chloride	U		0.000259	0.00100	1	05/02/2017 20:23	WG975535
o-Xylene	U		0.000341	0.00100	1	05/02/2017 20:23	WG975535
m&p-Xylene	U		0.000719	0.00200	1	05/02/2017 20:23	WG975535
Xylenes, Total	U		0.00106	0.00300	1	05/02/2017 20:23	WG975535
(S) Toluene-d8	*96.4*			*80.0-120*		*05/02/2017 20:23*	WG975535
(S) Dibromofluoromethane	*82.7*			*76.0-123*		*05/02/2017 20:23*	WG975535
(S) 4-Bromofluorobenzene	*94.1*			*80.0-120*		*05/02/2017 20:23*	WG975535

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	1.15		0.0247	0.100	1	05/03/2017 03:59	WG975555
(S) o-Terphenyl	*74.2*			*31.0-160*		*05/03/2017 03:59*	WG975555

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Dissolved Solids	3580		2.82	10.0	1	05/03/2017 14:04	WG975909

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	3.14		0.0197	0.100	1	05/03/2017 15:05	WG975894

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	05/02/2017 10:56	WG975005

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	446		2.60	50.0	50	05/04/2017 15:13	WG976555
Fluoride	1.44		0.00990	0.100	1	05/04/2017 14:58	WG976555
Sulfate	1550		3.87	250	50	05/04/2017 15:13	WG976555

Mercury by Method 7470A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Mercury	U		0.0000490	0.000200	1	05/02/2017 15:52	WG974957
Mercury,Dissolved	U		0.0000490	0.000200	1	05/02/2017 14:30	WG974958

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.00565		0.000250	0.00200	1	05/05/2017 03:55	WG975082
Arsenic,Dissolved	0.00560		0.000250	0.00200	1	05/05/2017 02:43	WG975071
Barium	0.0128		0.000360	0.00500	1	05/05/2017 03:55	WG975082
Barium,Dissolved	0.0136		0.000360	0.00500	1	05/05/2017 02:43	WG975071
Boron	0.829		0.00150	0.0200	1	05/05/2017 03:55	WG975082
Boron,Dissolved	0.756		0.00150	0.0200	1	05/10/2017 11:36	WG976972
Cadmium	U		0.000160	0.00100	1	05/05/2017 03:55	WG975082
Cadmium,Dissolved	U		0.000160	0.00100	1	05/05/2017 02:43	WG975071
Calcium	378		0.0460	1.00	1	05/05/2017 03:55	WG975082
Chromium	U		0.000540	0.00200	1	05/05/2017 03:55	WG975082
Chromium,Dissolved	U		0.000540	0.00200	1	05/05/2017 02:43	WG975071
Cobalt	0.000407	J	0.000260	0.00200	1	05/05/2017 03:55	WG975082
Cobalt,Dissolved	U		0.000260	0.00200	1	05/05/2017 02:43	WG975071
Iron	0.0222	J	0.0150	0.100	1	05/05/2017 03:55	WG975082
Iron,Dissolved	U		0.0150	0.100	1	05/05/2017 02:43	WG975071
Lead	U		0.000240	0.00200	1	05/05/2017 21:09	WG975082
Lead,Dissolved	U		0.000240	0.00200	1	05/05/2017 02:43	WG975071
Manganese	0.0682		0.000250	0.00500	1	05/05/2017 03:55	WG975082
Manganese,Dissolved	0.0235		0.000250	0.00500	1	05/05/2017 02:43	WG975071
Nickel	0.00552		0.000350	0.00200	1	05/05/2017 03:55	WG975082
Nickel,Dissolved	0.00540		0.000350	0.00200	1	05/05/2017 02:43	WG975071
Potassium	0.745	J	0.0370	1.00	1	05/05/2017 03:55	WG975082
Selenium	0.00436		0.000380	0.00200	1	05/05/2017 03:55	WG975082
Selenium,Dissolved	0.00494		0.000380	0.00200	1	05/05/2017 02:43	WG975071
Sodium	206		0.110	1.00	1	05/05/2017 03:55	WG975082

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Uranium	0.0406		0.000330	0.0100	1	05/05/2017 21:09	WG975082
Uranium,Dissolved	0.0395		0.000330	0.0100	1	05/05/2017 02:43	WG975071
Vanadium	0.0192		0.000180	0.00500	1	05/05/2017 03:55	WG975082
Vanadium,Dissolved	0.0190		0.000180	0.00500	1	05/05/2017 02:43	WG975071

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	05/01/2017 00:53	WG975302
(S) a,a,a-Trifluorotoluene(FID)	*100*			*77.0-122*		*05/01/2017 00:53*	WG975302

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		0.0100	0.0500	1	05/02/2017 20:38	WG975535
Benzene	U		0.000331	0.00100	1	05/02/2017 20:38	WG975535
Bromodichloromethane	U		0.000380	0.00100	1	05/02/2017 20:38	WG975535
Bromoform	U		0.000469	0.00100	1	05/02/2017 20:38	WG975535
Bromomethane	U		0.000866	0.00500	1	05/02/2017 20:38	WG975535
n-Butylbenzene	U		0.000361	0.00100	1	05/02/2017 20:38	WG975535
sec-Butylbenzene	U		0.000365	0.00100	1	05/02/2017 20:38	WG975535
Carbon disulfide	U		0.000275	0.00100	1	05/02/2017 20:38	WG975535
Carbon tetrachloride	U		0.000379	0.00100	1	05/02/2017 20:38	WG975535
Chlorobenzene	U		0.000348	0.00100	1	05/02/2017 20:38	WG975535
Chlorodibromomethane	U		0.000327	0.00100	1	05/02/2017 20:38	WG975535
Chloroethane	U		0.000453	0.00500	1	05/02/2017 20:38	WG975535
Chloroform	U		0.000324	0.00500	1	05/02/2017 20:38	WG975535
Chloromethane	U		0.000276	0.00250	1	05/02/2017 20:38	WG975535
1,2-Dibromoethane	U		0.000381	0.00100	1	05/02/2017 20:38	WG975535
1,1-Dichloroethane	U		0.000259	0.00100	1	05/02/2017 20:38	WG975535
1,2-Dichloroethane	U		0.000361	0.00100	1	05/02/2017 20:38	WG975535
1,1-Dichloroethene	U		0.000398	0.00100	1	05/02/2017 20:38	WG975535
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	05/02/2017 20:38	WG975535
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	05/02/2017 20:38	WG975535
1,2-Dichloropropane	U		0.000306	0.00100	1	05/02/2017 20:38	WG975535
cis-1,3-Dichloropropene	U		0.000418	0.00100	1	05/02/2017 20:38	WG975535
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	05/02/2017 20:38	WG975535
Ethylbenzene	U		0.000384	0.00100	1	05/02/2017 20:38	WG975535
Isopropylbenzene	U		0.000326	0.00100	1	05/02/2017 20:38	WG975535
p-Isopropyltoluene	U		0.000350	0.00100	1	05/02/2017 20:38	WG975535
2-Butanone (MEK)	U		0.00393	0.0100	1	05/02/2017 20:38	WG975535
2-Hexanone	U		0.00382	0.0100	1	05/02/2017 20:38	WG975535
Methylene Chloride	U		0.00100	0.00500	1	05/02/2017 20:38	WG975535
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	05/02/2017 20:38	WG975535
Methyl tert-butyl ether	0.0535		0.000367	0.00100	1	05/02/2017 20:38	WG975535
Naphthalene	U		0.00100	0.00500	1	05/02/2017 20:38	WG975535
n-Propylbenzene	U		0.000349	0.00100	1	05/02/2017 20:38	WG975535
Styrene	U		0.000307	0.00100	1	05/02/2017 20:38	WG975535
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	05/02/2017 20:38	WG975535
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	05/02/2017 20:38	WG975535
Tetrachloroethene	U		0.000372	0.00100	1	05/02/2017 20:38	WG975535
Toluene	U		0.000412	0.00100	1	05/02/2017 20:38	WG975535
1,1,1-Trichloroethane	U		0.000319	0.00100	1	05/02/2017 20:38	WG975535
1,1,2-Trichloroethane	U		0.000383	0.00100	1	05/02/2017 20:38	WG975535
Trichloroethene	U		0.000398	0.00100	1	05/02/2017 20:38	WG975535

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
1,2,4-Trimethylbenzene	U		0.000373	0.00100	1	05/02/2017 20:38	WG975535
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	05/02/2017 20:38	WG975535
Vinyl chloride	U		0.000259	0.00100	1	05/02/2017 20:38	WG975535
o-Xylene	U		0.000341	0.00100	1	05/02/2017 20:38	WG975535
m&p-Xylene	U		0.000719	0.00200	1	05/02/2017 20:38	WG975535
Xylenes, Total	U		0.00106	0.00300	1	05/02/2017 20:38	WG975535
(S) Toluene-d8	*96.1*			*80.0-120*		*05/02/2017 20:38*	WG975535
(S) Dibromofluoromethane	*82.2*			*76.0-123*		*05/02/2017 20:38*	WG975535
(S) 4-Bromofluorobenzene	*91.3*			*80.0-120*		*05/02/2017 20:38*	WG975535

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	1.08		0.0247	0.100	1	05/03/2017 04:16	WG975555
(S) o-Terphenyl	*77.5*			*31.0-160*		*05/03/2017 04:16*	WG975555

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Dissolved Solids	3420		2.82	10.0	1	05/03/2017 14:04	WG975909

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	51.0		0.394	2.00	20	05/03/2017 15:06	WG975894

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	05/02/2017 10:57	WG975005

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	77.5		0.0519	1.00	1	05/04/2017 15:29	WG976555
Fluoride	3.44		0.00990	0.100	1	05/04/2017 15:29	WG976555
Sulfate	1970		3.87	250	50	05/04/2017 15:44	WG976555

Mercury by Method 7470A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Mercury	U		0.0000490	0.000200	1	05/02/2017 15:54	WG974957
Mercury,Dissolved	U		0.0000490	0.000200	1	05/02/2017 14:32	WG974958

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.00365		0.000250	0.00200	1	05/05/2017 03:58	WG975082
Arsenic,Dissolved	0.00373		0.000250	0.00200	1	05/05/2017 02:46	WG975071
Barium	0.0183		0.000360	0.00500	1	05/05/2017 03:58	WG975082
Barium,Dissolved	0.0211		0.000360	0.00500	1	05/05/2017 02:46	WG975071
Boron	1.71		0.00150	0.0200	1	05/05/2017 03:58	WG975082
Boron,Dissolved	1.50		0.00150	0.0200	1	05/10/2017 11:49	WG976972
Cadmium	U		0.000160	0.00100	1	05/05/2017 03:58	WG975082
Cadmium,Dissolved	U		0.000160	0.00100	1	05/05/2017 02:46	WG975071
Calcium	486		0.0460	1.00	1	05/05/2017 03:58	WG975082
Chromium	0.00222		0.000540	0.00200	1	05/05/2017 03:58	WG975082
Chromium,Dissolved	0.00176	B J	0.000540	0.00200	1	05/05/2017 02:46	WG975071
Cobalt	0.000321	J	0.000260	0.00200	1	05/05/2017 03:58	WG975082
Cobalt,Dissolved	0.000362	J	0.000260	0.00200	1	05/05/2017 02:46	WG975071
Iron	U		0.0150	0.100	1	05/05/2017 03:58	WG975082
Iron,Dissolved	U		0.0150	0.100	1	05/05/2017 02:46	WG975071
Lead	U		0.000240	0.00200	1	05/05/2017 21:12	WG975082
Lead,Dissolved	U		0.000240	0.00200	1	05/05/2017 02:46	WG975071
Manganese	0.00474	B J	0.000250	0.00500	1	05/05/2017 03:58	WG975082
Manganese,Dissolved	0.00248	J	0.000250	0.00500	1	05/05/2017 02:46	WG975071
Nickel	0.00120	J	0.000350	0.00200	1	05/05/2017 03:58	WG975082
Nickel,Dissolved	0.00198	B J	0.000350	0.00200	1	05/05/2017 02:46	WG975071
Potassium	13.9		0.0370	1.00	1	05/05/2017 03:58	WG975082
Selenium	0.0151		0.000380	0.00200	1	05/05/2017 03:58	WG975082
Selenium,Dissolved	0.0155		0.000380	0.00200	1	05/05/2017 02:46	WG975071
Sodium	65.0		0.110	1.00	1	05/05/2017 03:58	WG975082

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Uranium	0.0250		0.000330	0.0100	1	05/05/2017 21:12	WG975082
Uranium,Dissolved	0.0242		0.000330	0.0100	1	05/05/2017 02:46	WG975071
Vanadium	0.0195		0.000180	0.00500	1	05/05/2017 03:58	WG975082
Vanadium,Dissolved	0.0198		0.000180	0.00500	1	05/05/2017 02:46	WG975071

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		0.0100	0.0500	1	05/02/2017 20:53	WG975535
Benzene	U		0.000331	0.00100	1	05/02/2017 20:53	WG975535
Bromodichloromethane	U		0.000380	0.00100	1	05/02/2017 20:53	WG975535
Bromoform	U		0.000469	0.00100	1	05/02/2017 20:53	WG975535
Bromomethane	U		0.000866	0.00500	1	05/02/2017 20:53	WG975535
n-Butylbenzene	U		0.000361	0.00100	1	05/02/2017 20:53	WG975535
sec-Butylbenzene	U		0.000365	0.00100	1	05/02/2017 20:53	WG975535
Carbon disulfide	U		0.000275	0.00100	1	05/02/2017 20:53	WG975535
Carbon tetrachloride	U		0.000379	0.00100	1	05/02/2017 20:53	WG975535
Chlorobenzene	U		0.000348	0.00100	1	05/02/2017 20:53	WG975535
Chlorodibromomethane	U		0.000327	0.00100	1	05/02/2017 20:53	WG975535
Chloroethane	U		0.000453	0.00500	1	05/02/2017 20:53	WG975535
Chloroform	U		0.000324	0.00500	1	05/02/2017 20:53	WG975535
Chloromethane	U		0.000276	0.00250	1	05/02/2017 20:53	WG975535
1,2-Dibromoethane	U		0.000381	0.00100	1	05/02/2017 20:53	WG975535
1,1-Dichloroethane	U		0.000259	0.00100	1	05/02/2017 20:53	WG975535
1,2-Dichloroethane	U		0.000361	0.00100	1	05/02/2017 20:53	WG975535
1,1-Dichloroethene	U		0.000398	0.00100	1	05/02/2017 20:53	WG975535
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	05/02/2017 20:53	WG975535
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	05/02/2017 20:53	WG975535
1,2-Dichloropropane	U		0.000306	0.00100	1	05/02/2017 20:53	WG975535
cis-1,3-Dichloropropene	U		0.000418	0.00100	1	05/02/2017 20:53	WG975535
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	05/02/2017 20:53	WG975535
Ethylbenzene	U		0.000384	0.00100	1	05/02/2017 20:53	WG975535
Isopropylbenzene	U		0.000326	0.00100	1	05/02/2017 20:53	WG975535
p-Isopropyltoluene	U		0.000350	0.00100	1	05/02/2017 20:53	WG975535
2-Butanone (MEK)	U		0.00393	0.0100	1	05/02/2017 20:53	WG975535
2-Hexanone	U		0.00382	0.0100	1	05/02/2017 20:53	WG975535
Methylene Chloride	U		0.00100	0.00500	1	05/02/2017 20:53	WG975535
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	05/02/2017 20:53	WG975535
Methyl tert-butyl ether	U		0.000367	0.00100	1	05/02/2017 20:53	WG975535
Naphthalene	U		0.00100	0.00500	1	05/02/2017 20:53	WG975535
n-Propylbenzene	U		0.000349	0.00100	1	05/02/2017 20:53	WG975535
Styrene	U		0.000307	0.00100	1	05/02/2017 20:53	WG975535
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	05/02/2017 20:53	WG975535
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	05/02/2017 20:53	WG975535
Tetrachloroethene	U		0.000372	0.00100	1	05/02/2017 20:53	WG975535
Toluene	U		0.000412	0.00100	1	05/02/2017 20:53	WG975535
1,1,1-Trichloroethane	U		0.000319	0.00100	1	05/02/2017 20:53	WG975535
1,1,2-Trichloroethane	U		0.000383	0.00100	1	05/02/2017 20:53	WG975535
Trichloroethene	U		0.000398	0.00100	1	05/02/2017 20:53	WG975535
1,2,4-Trimethylbenzene	U		0.000373	0.00100	1	05/02/2017 20:53	WG975535
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	05/02/2017 20:53	WG975535
Vinyl chloride	U		0.000259	0.00100	1	05/02/2017 20:53	WG975535
o-Xylene	U		0.000341	0.00100	1	05/02/2017 20:53	WG975535
m&p-Xylene	U		0.000719	0.00200	1	05/02/2017 20:53	WG975535
Xylenes, Total	U		0.00106	0.00300	1	05/02/2017 20:53	WG975535
(S) Toluene-d8	*94.4*			*80.0-120*		*05/02/2017 20:53*	WG975535

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) Dibromofluoromethane	*80.8*			*76.0-123*		*05/02/2017 20:53*	WG975535
(S) 4-Bromofluorobenzene	*92.5*			*80.0-120*		*05/02/2017 20:53*	WG975535

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	0.960		0.0247	0.100	1	05/03/2017 04:33	WG975555
(S) o-Terphenyl	*76.8*			*31.0-160*		*05/03/2017 04:33*	WG975555

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Dissolved Solids	1440		2.82	10.0	1	05/03/2017 12:09	WG975503

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	0.0570	J J6	0.0197	0.100	1	05/03/2017 15:07	WG975894

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	313		0.519	10.0	10	05/04/2017 16:15	WG976555
Fluoride	1.27		0.00990	0.100	1	05/04/2017 16:00	WG976555
Sulfate	76.1		0.0774	5.00	1	05/04/2017 16:00	WG976555

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.000829	J	0.000250	0.00200	1	05/05/2017 04:02	WG975082
Arsenic,Dissolved	0.000865	J	0.000250	0.00200	1	05/05/2017 02:50	WG975071
Barium	0.458		0.000360	0.00500	1	05/05/2017 04:02	WG975082
Barium,Dissolved	0.493		0.000360	0.00500	1	05/05/2017 02:50	WG975071
Calcium	270		0.0460	1.00	1	05/05/2017 04:02	WG975082
Chromium	U		0.000540	0.00200	1	05/05/2017 04:02	WG975082
Chromium,Dissolved	U		0.000540	0.00200	1	05/05/2017 02:50	WG975071
Iron	U		0.0150	0.100	1	05/05/2017 04:02	WG975082
Iron,Dissolved	U		0.0150	0.100	1	05/05/2017 02:50	WG975071
Lead	U		0.000240	0.00200	1	05/05/2017 21:27	WG975082
Lead,Dissolved	U		0.000240	0.00200	1	05/05/2017 02:50	WG975071
Manganese	0.0146		0.000250	0.00500	1	05/05/2017 04:02	WG975082
Manganese,Dissolved	0.0171		0.000250	0.00500	1	05/05/2017 02:50	WG975071
Potassium	1.36		0.0370	1.00	1	05/05/2017 04:02	WG975082
Selenium	U		0.000380	0.00200	1	05/05/2017 04:02	WG975082
Selenium,Dissolved	0.000444	J	0.000380	0.00200	1	05/05/2017 02:50	WG975071
Sodium	108		0.110	1.00	1	05/05/2017 04:02	WG975082

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		0.500	2.50	50	05/02/2017 22:50	WG975535
Benzene	1.78		0.0166	0.0500	50	05/02/2017 22:50	WG975535
Bromodichloromethane	U		0.0190	0.0500	50	05/02/2017 22:50	WG975535
Bromoform	U		0.0234	0.0500	50	05/02/2017 22:50	WG975535
Bromomethane	U		0.0433	0.250	50	05/02/2017 22:50	WG975535
n-Butylbenzene	U		0.0180	0.0500	50	05/02/2017 22:50	WG975535
sec-Butylbenzene	0.0184	J	0.0182	0.0500	50	05/02/2017 22:50	WG975535
Carbon disulfide	U		0.0138	0.0500	50	05/02/2017 22:50	WG975535
Carbon tetrachloride	U		0.0190	0.0500	50	05/02/2017 22:50	WG975535
Chlorobenzene	U		0.0174	0.0500	50	05/02/2017 22:50	WG975535
Chlorodibromomethane	U		0.0164	0.0500	50	05/02/2017 22:50	WG975535
Chloroethane	U		0.0226	0.250	50	05/02/2017 22:50	WG975535
Chloroform	U		0.0162	0.250	50	05/02/2017 22:50	WG975535
Chloromethane	U		0.0138	0.125	50	05/02/2017 22:50	WG975535
1,2-Dibromoethane	U		0.0190	0.0500	50	05/02/2017 22:50	WG975535
1,1-Dichloroethane	U		0.0130	0.0500	50	05/02/2017 22:50	WG975535

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		0.0180	0.0500	50	05/02/2017 22:50	WG975535
1,1-Dichloroethene	U		0.0199	0.0500	50	05/02/2017 22:50	WG975535
cis-1,2-Dichloroethene	U		0.0130	0.0500	50	05/02/2017 22:50	WG975535
trans-1,2-Dichloroethene	U		0.0198	0.0500	50	05/02/2017 22:50	WG975535
1,2-Dichloropropane	U		0.0153	0.0500	50	05/02/2017 22:50	WG975535
cis-1,3-Dichloropropene	U		0.0209	0.0500	50	05/02/2017 22:50	WG975535
trans-1,3-Dichloropropene	U		0.0210	0.0500	50	05/02/2017 22:50	WG975535
Ethylbenzene	U		0.0192	0.0500	50	05/02/2017 22:50	WG975535
Isopropylbenzene	0.0914		0.0163	0.0500	50	05/02/2017 22:50	WG975535
p-Isopropyltoluene	U		0.0175	0.0500	50	05/02/2017 22:50	WG975535
2-Butanone (MEK)	U		0.196	0.500	50	05/02/2017 22:50	WG975535
2-Hexanone	U		0.191	0.500	50	05/02/2017 22:50	WG975535
Methylene Chloride	U		0.0500	0.250	50	05/02/2017 22:50	WG975535
4-Methyl-2-pentanone (MIBK)	U		0.107	0.500	50	05/02/2017 22:50	WG975535
Methyl tert-butyl ether	U		0.0184	0.0500	50	05/02/2017 22:50	WG975535
Naphthalene	U		0.0500	0.250	50	05/02/2017 22:50	WG975535
n-Propylbenzene	0.101		0.0174	0.0500	50	05/02/2017 22:50	WG975535
Styrene	U		0.0154	0.0500	50	05/02/2017 22:50	WG975535
1,1,1,2-Tetrachloroethane	U		0.0192	0.0500	50	05/02/2017 22:50	WG975535
1,1,2,2-Tetrachloroethane	U		0.00650	0.0500	50	05/02/2017 22:50	WG975535
Tetrachloroethene	U		0.0186	0.0500	50	05/02/2017 22:50	WG975535
Toluene	U		0.0206	0.0500	50	05/02/2017 22:50	WG975535
1,1,1-Trichloroethane	U		0.0160	0.0500	50	05/02/2017 22:50	WG975535
1,1,2-Trichloroethane	U		0.0192	0.0500	50	05/02/2017 22:50	WG975535
Trichloroethene	U		0.0199	0.0500	50	05/02/2017 22:50	WG975535
1,2,4-Trimethylbenzene	0.0560		0.0186	0.0500	50	05/02/2017 22:50	WG975535
1,3,5-Trimethylbenzene	U		0.0194	0.0500	50	05/02/2017 22:50	WG975535
Vinyl chloride	U		0.0130	0.0500	50	05/02/2017 22:50	WG975535
o-Xylene	U		0.0170	0.0500	50	05/02/2017 22:50	WG975535
m&p-Xylene	0.100		0.0360	0.100	50	05/02/2017 22:50	WG975535
Xylenes, Total	0.100	J	0.0530	0.150	50	05/02/2017 22:50	WG975535
(S) Toluene-d8	*95.4*			*80.0-120*		*05/02/2017 22:50*	WG975535
(S) Dibromofluoromethane	*82.1*			*76.0-123*		*05/02/2017 22:50*	WG975535
(S) 4-Bromofluorobenzene	*91.2*			*80.0-120*		*05/02/2017 22:50*	WG975535

Sample Narrative:

8260B L905651-04 WG975535: 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	11.4		0.124	0.500	5	05/06/2017 00:27	WG975555
(S) o-Terphenyl	*77.0*			*31.0-160*		*05/06/2017 00:27*	WG975555

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Dissolved Solids	2750		2.82	10.0	1	05/03/2017 12:09	WG975503

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	0.0320	J	0.0197	0.100	1	05/03/2017 15:15	WG975894

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	412		2.60	50.0	50	05/04/2017 16:46	WG976555
Fluoride	2.62		0.00990	0.100	1	05/04/2017 16:30	WG976555
Sulfate	1220		3.87	250	50	05/04/2017 16:46	WG976555

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.00302		0.000250	0.00200	1	05/05/2017 04:06	WG975082
Arsenic,Dissolved	0.00153	J	0.000250	0.00200	1	05/05/2017 02:53	WG975071
Barium	0.0194		0.000360	0.00500	1	05/05/2017 04:06	WG975082
Barium,Dissolved	0.0217		0.000360	0.00500	1	05/05/2017 02:53	WG975071
Calcium	514		0.0460	1.00	1	05/05/2017 04:06	WG975082
Chromium	U		0.000540	0.00200	1	05/05/2017 04:06	WG975082
Chromium,Dissolved	U		0.000540	0.00200	1	05/05/2017 02:53	WG975071
Iron	1.12		0.0150	0.100	1	05/05/2017 04:06	WG975082
Iron,Dissolved	0.0173	J	0.0150	0.100	1	05/05/2017 02:53	WG975071
Lead	0.000288	J	0.000240	0.00200	1	05/05/2017 21:31	WG975082
Lead,Dissolved	U		0.000240	0.00200	1	05/05/2017 02:53	WG975071
Manganese	0.135		0.000250	0.00500	1	05/05/2017 04:06	WG975082
Manganese,Dissolved	0.141		0.000250	0.00500	1	05/05/2017 02:53	WG975071
Potassium	5.98		0.0370	1.00	1	05/05/2017 04:06	WG975082
Selenium	0.000546	J	0.000380	0.00200	1	05/05/2017 04:06	WG975082
Selenium,Dissolved	0.000812	J	0.000380	0.00200	1	05/05/2017 02:53	WG975071
Sodium	101		0.110	1.00	1	05/05/2017 04:06	WG975082

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		0.0100	0.0500	1	05/02/2017 21:07	WG975535
Benzene	U		0.000331	0.00100	1	05/02/2017 21:07	WG975535
Bromodichloromethane	U		0.000380	0.00100	1	05/02/2017 21:07	WG975535
Bromoform	U		0.000469	0.00100	1	05/02/2017 21:07	WG975535
Bromomethane	U		0.000866	0.00500	1	05/02/2017 21:07	WG975535
n-Butylbenzene	U		0.000361	0.00100	1	05/02/2017 21:07	WG975535
sec-Butylbenzene	U		0.000365	0.00100	1	05/02/2017 21:07	WG975535
Carbon disulfide	U		0.000275	0.00100	1	05/02/2017 21:07	WG975535
Carbon tetrachloride	U		0.000379	0.00100	1	05/02/2017 21:07	WG975535
Chlorobenzene	U		0.000348	0.00100	1	05/02/2017 21:07	WG975535
Chlorodibromomethane	U		0.000327	0.00100	1	05/02/2017 21:07	WG975535
Chloroethane	U		0.000453	0.00500	1	05/02/2017 21:07	WG975535
Chloroform	U		0.000324	0.00500	1	05/02/2017 21:07	WG975535
Chloromethane	U		0.000276	0.00250	1	05/02/2017 21:07	WG975535
1,2-Dibromoethane	U		0.000381	0.00100	1	05/02/2017 21:07	WG975535
1,1-Dichloroethane	U		0.000259	0.00100	1	05/02/2017 21:07	WG975535

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
1,2-Dichloroethane	U		0.000361	0.00100	1	05/02/2017 21:07	WG975535
1,1-Dichloroethene	U		0.000398	0.00100	1	05/02/2017 21:07	WG975535
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	05/02/2017 21:07	WG975535
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	05/02/2017 21:07	WG975535
1,2-Dichloropropane	U		0.000306	0.00100	1	05/02/2017 21:07	WG975535
cis-1,3-Dichloropropene	U		0.000418	0.00100	1	05/02/2017 21:07	WG975535
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	05/02/2017 21:07	WG975535
Ethylbenzene	U		0.000384	0.00100	1	05/02/2017 21:07	WG975535
Isopropylbenzene	U		0.000326	0.00100	1	05/02/2017 21:07	WG975535
p-Isopropyltoluene	U		0.000350	0.00100	1	05/02/2017 21:07	WG975535
2-Butanone (MEK)	U		0.00393	0.0100	1	05/02/2017 21:07	WG975535
2-Hexanone	U		0.00382	0.0100	1	05/02/2017 21:07	WG975535
Methylene Chloride	U		0.00100	0.00500	1	05/02/2017 21:07	WG975535
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	05/02/2017 21:07	WG975535
Methyl tert-butyl ether	U		0.000367	0.00100	1	05/02/2017 21:07	WG975535
Naphthalene	U		0.00100	0.00500	1	05/02/2017 21:07	WG975535
n-Propylbenzene	U		0.000349	0.00100	1	05/02/2017 21:07	WG975535
Styrene	U		0.000307	0.00100	1	05/02/2017 21:07	WG975535
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	05/02/2017 21:07	WG975535
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	05/02/2017 21:07	WG975535
Tetrachloroethene	U		0.000372	0.00100	1	05/02/2017 21:07	WG975535
Toluene	U		0.000412	0.00100	1	05/02/2017 21:07	WG975535
1,1,1-Trichloroethane	U		0.000319	0.00100	1	05/02/2017 21:07	WG975535
1,1,2-Trichloroethane	U		0.000383	0.00100	1	05/02/2017 21:07	WG975535
Trichloroethene	U		0.000398	0.00100	1	05/02/2017 21:07	WG975535
1,2,4-Trimethylbenzene	U		0.000373	0.00100	1	05/02/2017 21:07	WG975535
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	05/02/2017 21:07	WG975535
Vinyl chloride	U		0.000259	0.00100	1	05/02/2017 21:07	WG975535
o-Xylene	U		0.000341	0.00100	1	05/02/2017 21:07	WG975535
m&p-Xylene	U		0.000719	0.00200	1	05/02/2017 21:07	WG975535
Xylenes, Total	U		0.00106	0.00300	1	05/02/2017 21:07	WG975535
(S) Toluene-d8	*96.9*			*80.0-120*		*05/02/2017 21:07*	WG975535
(S) Dibromofluoromethane	*83.8*			*76.0-123*		*05/02/2017 21:07*	WG975535
(S) 4-Bromofluorobenzene	*91.7*			*80.0-120*		*05/02/2017 21:07*	WG975535

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
TPH (GC/FID) High Fraction	4.80		0.0247	0.100	1	05/03/2017 04:50	WG975555
(S) o-Terphenyl	*71.4*			*31.0-160*		*05/03/2017 04:50*	WG975555

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Dissolved Solids	2390		2.82	10.0	1	05/03/2017 12:09	WG975503

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	0.0470	J	0.0197	0.100	1	05/03/2017 15:16	WG975894

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	198		2.60	50.0	50	05/04/2017 17:51	WG976555
Fluoride	1.65		0.00990	0.100	1	05/04/2017 17:36	WG976555
Sulfate	1070		3.87	250	50	05/04/2017 17:51	WG976555

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.0348		0.000250	0.00200	1	05/05/2017 04:09	WG975082
Arsenic,Dissolved	0.0279		0.000250	0.00200	1	05/05/2017 03:04	WG975071
Barium	0.0269		0.000360	0.00500	1	05/05/2017 04:09	WG975082
Barium,Dissolved	0.0281		0.000360	0.00500	1	05/05/2017 03:04	WG975071
Calcium	360		0.0460	1.00	1	05/05/2017 04:09	WG975082
Chromium	0.00235		0.000540	0.00200	1	05/05/2017 04:09	WG975082
Chromium,Dissolved	U		0.000540	0.00200	1	05/05/2017 03:04	WG975071
Iron	0.953		0.0150	0.100	1	05/05/2017 04:09	WG975082
Iron,Dissolved	0.0169	J	0.0150	0.100	1	05/05/2017 03:04	WG975071
Lead	0.00102	J	0.000240	0.00200	1	05/05/2017 21:34	WG975082
Lead,Dissolved	U		0.000240	0.00200	1	05/05/2017 03:04	WG975071
Manganese	0.860		0.000250	0.00500	1	05/05/2017 04:09	WG975082
Manganese,Dissolved	0.895		0.000250	0.00500	1	05/05/2017 03:04	WG975071
Potassium	2.31		0.0370	1.00	1	05/05/2017 04:09	WG975082
Selenium	U		0.000380	0.00200	1	05/05/2017 04:09	WG975082
Selenium,Dissolved	U		0.000380	0.00200	1	05/05/2017 03:04	WG975071
Sodium	99.7		0.110	1.00	1	05/05/2017 04:09	WG975082

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		0.0100	0.0500	1	05/02/2017 21:22	WG975535
Benzene	U		0.000331	0.00100	1	05/02/2017 21:22	WG975535
Bromodichloromethane	U		0.000380	0.00100	1	05/02/2017 21:22	WG975535
Bromoform	U		0.000469	0.00100	1	05/02/2017 21:22	WG975535
Bromomethane	U		0.000866	0.00500	1	05/02/2017 21:22	WG975535
n-Butylbenzene	U		0.000361	0.00100	1	05/02/2017 21:22	WG975535
sec-Butylbenzene	0.000618	J	0.000365	0.00100	1	05/02/2017 21:22	WG975535
Carbon disulfide	0.000300	J	0.000275	0.00100	1	05/02/2017 21:22	WG975535
Carbon tetrachloride	U		0.000379	0.00100	1	05/02/2017 21:22	WG975535
Chlorobenzene	U		0.000348	0.00100	1	05/02/2017 21:22	WG975535
Chlorodibromomethane	U		0.000327	0.00100	1	05/02/2017 21:22	WG975535
Chloroethane	U		0.000453	0.00500	1	05/02/2017 21:22	WG975535
Chloroform	U		0.000324	0.00500	1	05/02/2017 21:22	WG975535
Chloromethane	U		0.000276	0.00250	1	05/02/2017 21:22	WG975535
1,2-Dibromoethane	U		0.000381	0.00100	1	05/02/2017 21:22	WG975535
1,1-Dichloroethane	U		0.000259	0.00100	1	05/02/2017 21:22	WG975535

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		0.000361	0.00100	1	05/02/2017 21:22	WG975535
1,1-Dichloroethene	U		0.000398	0.00100	1	05/02/2017 21:22	WG975535
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	05/02/2017 21:22	WG975535
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	05/02/2017 21:22	WG975535
1,2-Dichloropropane	U		0.000306	0.00100	1	05/02/2017 21:22	WG975535
cis-1,3-Dichloropropene	U		0.000418	0.00100	1	05/02/2017 21:22	WG975535
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	05/02/2017 21:22	WG975535
Ethylbenzene	U		0.000384	0.00100	1	05/02/2017 21:22	WG975535
Isopropylbenzene	0.00130		0.000326	0.00100	1	05/02/2017 21:22	WG975535
p-Isopropyltoluene	U		0.000350	0.00100	1	05/02/2017 21:22	WG975535
2-Butanone (MEK)	U		0.00393	0.0100	1	05/02/2017 21:22	WG975535
2-Hexanone	U		0.00382	0.0100	1	05/02/2017 21:22	WG975535
Methylene Chloride	U		0.00100	0.00500	1	05/02/2017 21:22	WG975535
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	05/02/2017 21:22	WG975535
Methyl tert-butyl ether	U		0.000367	0.00100	1	05/02/2017 21:22	WG975535
Naphthalene	U		0.00100	0.00500	1	05/02/2017 21:22	WG975535
n-Propylbenzene	U		0.000349	0.00100	1	05/02/2017 21:22	WG975535
Styrene	U		0.000307	0.00100	1	05/02/2017 21:22	WG975535
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	05/02/2017 21:22	WG975535
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	05/02/2017 21:22	WG975535
Tetrachloroethene	U		0.000372	0.00100	1	05/02/2017 21:22	WG975535
Toluene	U		0.000412	0.00100	1	05/02/2017 21:22	WG975535
1,1,1-Trichloroethane	U		0.000319	0.00100	1	05/02/2017 21:22	WG975535
1,1,2-Trichloroethane	U		0.000383	0.00100	1	05/02/2017 21:22	WG975535
Trichloroethene	U		0.000398	0.00100	1	05/02/2017 21:22	WG975535
1,2,4-Trimethylbenzene	U		0.000373	0.00100	1	05/02/2017 21:22	WG975535
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	05/02/2017 21:22	WG975535
Vinyl chloride	U		0.000259	0.00100	1	05/02/2017 21:22	WG975535
o-Xylene	U		0.000341	0.00100	1	05/02/2017 21:22	WG975535
m&p-Xylene	U		0.000719	0.00200	1	05/02/2017 21:22	WG975535
Xylenes, Total	U		0.00106	0.00300	1	05/02/2017 21:22	WG975535
(S) Toluene-d8	*97.6*			*80.0-120*		*05/02/2017 21:22*	WG975535
(S) Dibromofluoromethane	*81.9*			*76.0-123*		*05/02/2017 21:22*	WG975535
(S) 4-Bromofluorobenzene	*91.3*			*80.0-120*		*05/02/2017 21:22*	WG975535

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	7.97		0.124	0.500	5	05/06/2017 00:44	WG975555
(S) o-Terphenyl	*72.0*			*31.0-160*		*05/06/2017 00:44*	WG975555

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Dissolved Solids	2440		2.82	10.0	1	05/03/2017 12:09	WG975503

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	4.90		0.0197	0.100	1	05/05/2017 10:04	WG975895

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	155		2.60	50.0	50	05/04/2017 18:22	WG976555
Fluoride	1.54		0.00990	0.100	1	05/04/2017 18:07	WG976555
Sulfate	1310		3.87	250	50	05/04/2017 18:22	WG976555

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.00358		0.000250	0.00200	1	05/05/2017 04:13	WG975082
Arsenic,Dissolved	0.00306		0.000250	0.00200	1	05/05/2017 03:07	WG975071
Barium	0.0195		0.000360	0.00500	1	05/05/2017 04:13	WG975082
Barium,Dissolved	0.0190		0.000360	0.00500	1	05/05/2017 03:07	WG975071
Calcium	387		0.0460	1.00	1	05/05/2017 04:13	WG975082
Chromium	0.00114	J	0.000540	0.00200	1	05/05/2017 04:13	WG975082
Chromium,Dissolved	U		0.000540	0.00200	1	05/05/2017 03:07	WG975071
Iron	0.116		0.0150	0.100	1	05/05/2017 04:13	WG975082
Iron,Dissolved	U		0.0150	0.100	1	05/05/2017 03:07	WG975071
Lead	0.00127	J	0.000240	0.00200	1	05/05/2017 21:38	WG975082
Lead,Dissolved	U		0.000240	0.00200	1	05/05/2017 03:07	WG975071
Manganese	0.988		0.000250	0.00500	1	05/05/2017 04:13	WG975082
Manganese,Dissolved	0.994		0.000250	0.00500	1	05/05/2017 03:07	WG975071
Potassium	3.19		0.0370	1.00	1	05/05/2017 04:13	WG975082
Selenium	0.00124	J	0.000380	0.00200	1	05/05/2017 04:13	WG975082
Selenium,Dissolved	0.00116	J	0.000380	0.00200	1	05/05/2017 03:07	WG975071
Sodium	102		0.110	1.00	1	05/05/2017 04:13	WG975082

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		0.0100	0.0500	1	05/02/2017 21:37	WG975535
Benzene	U		0.000331	0.00100	1	05/02/2017 21:37	WG975535
Bromodichloromethane	U		0.000380	0.00100	1	05/02/2017 21:37	WG975535
Bromoform	U		0.000469	0.00100	1	05/02/2017 21:37	WG975535
Bromomethane	U		0.000866	0.00500	1	05/02/2017 21:37	WG975535
n-Butylbenzene	U		0.000361	0.00100	1	05/02/2017 21:37	WG975535
sec-Butylbenzene	U		0.000365	0.00100	1	05/02/2017 21:37	WG975535
Carbon disulfide	U		0.000275	0.00100	1	05/02/2017 21:37	WG975535
Carbon tetrachloride	U		0.000379	0.00100	1	05/02/2017 21:37	WG975535
Chlorobenzene	U		0.000348	0.00100	1	05/02/2017 21:37	WG975535
Chlorodibromomethane	U		0.000327	0.00100	1	05/02/2017 21:37	WG975535
Chloroethane	U		0.000453	0.00500	1	05/02/2017 21:37	WG975535
Chloroform	U		0.000324	0.00500	1	05/02/2017 21:37	WG975535
Chloromethane	U		0.000276	0.00250	1	05/02/2017 21:37	WG975535
1,2-Dibromoethane	U		0.000381	0.00100	1	05/02/2017 21:37	WG975535
1,1-Dichloroethane	U		0.000259	0.00100	1	05/02/2017 21:37	WG975535

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		0.000361	0.00100	1	05/02/2017 21:37	WG975535
1,1-Dichloroethene	U		0.000398	0.00100	1	05/02/2017 21:37	WG975535
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	05/02/2017 21:37	WG975535
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	05/02/2017 21:37	WG975535
1,2-Dichloropropane	U		0.000306	0.00100	1	05/02/2017 21:37	WG975535
cis-1,3-Dichloropropene	U		0.000418	0.00100	1	05/02/2017 21:37	WG975535
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	05/02/2017 21:37	WG975535
Ethylbenzene	U		0.000384	0.00100	1	05/02/2017 21:37	WG975535
Isopropylbenzene	U		0.000326	0.00100	1	05/02/2017 21:37	WG975535
p-Isopropyltoluene	U		0.000350	0.00100	1	05/02/2017 21:37	WG975535
2-Butanone (MEK)	U		0.00393	0.0100	1	05/02/2017 21:37	WG975535
2-Hexanone	U		0.00382	0.0100	1	05/02/2017 21:37	WG975535
Methylene Chloride	U		0.00100	0.00500	1	05/02/2017 21:37	WG975535
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	05/02/2017 21:37	WG975535
Methyl tert-butyl ether	U		0.000367	0.00100	1	05/02/2017 21:37	WG975535
Naphthalene	U		0.00100	0.00500	1	05/02/2017 21:37	WG975535
n-Propylbenzene	U		0.000349	0.00100	1	05/02/2017 21:37	WG975535
Styrene	U		0.000307	0.00100	1	05/02/2017 21:37	WG975535
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	05/02/2017 21:37	WG975535
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	05/02/2017 21:37	WG975535
Tetrachloroethene	U		0.000372	0.00100	1	05/02/2017 21:37	WG975535
Toluene	U		0.000412	0.00100	1	05/02/2017 21:37	WG975535
1,1,1-Trichloroethane	U		0.000319	0.00100	1	05/02/2017 21:37	WG975535
1,1,2-Trichloroethane	U		0.000383	0.00100	1	05/02/2017 21:37	WG975535
Trichloroethene	U		0.000398	0.00100	1	05/02/2017 21:37	WG975535
1,2,4-Trimethylbenzene	U		0.000373	0.00100	1	05/02/2017 21:37	WG975535
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	05/02/2017 21:37	WG975535
Vinyl chloride	U		0.000259	0.00100	1	05/02/2017 21:37	WG975535
o-Xylene	U		0.000341	0.00100	1	05/02/2017 21:37	WG975535
m&p-Xylene	U		0.000719	0.00200	1	05/02/2017 21:37	WG975535
Xylenes, Total	U		0.00106	0.00300	1	05/02/2017 21:37	WG975535
(S) Toluene-d8	*95.5*			*80.0-120*		*05/02/2017 21:37*	WG975535
(S) Dibromofluoromethane	*83.2*			*76.0-123*		*05/02/2017 21:37*	WG975535
(S) 4-Bromofluorobenzene	*89.2*			*80.0-120*		*05/02/2017 21:37*	WG975535

Semi-Volatile Organic Compounds (GC) by 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	05/03/2017 08:47	WG975555
(S) o-Terphenyl	*70.5*			*31.0-160*		*05/03/2017 08:47*	WG975555

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Dissolved Solids	1980		2.82	10.0	1	05/03/2017 12:09	WG975503

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	0.0310	J J6	0.0197	0.100	1	05/05/2017 10:06	WG975895

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	80.4		0.0519	1.00	1	05/05/2017 00:48	WG976555
Fluoride	1.90		0.00990	0.100	1	05/05/2017 00:48	WG976555
Sulfate	717		0.774	50.0	10	05/04/2017 12:33	WG976223

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.00252		0.000250	0.00200	1	05/05/2017 04:16	WG975082
Arsenic,Dissolved	0.00283		0.000250	0.00200	1	05/05/2017 03:11	WG975071
Barium	0.0366		0.000360	0.00500	1	05/05/2017 04:16	WG975082
Barium,Dissolved	0.0428		0.000360	0.00500	1	05/05/2017 03:11	WG975071
Calcium	251		0.0460	1.00	1	05/05/2017 04:16	WG975082
Chromium	0.00124	J	0.000540	0.00200	1	05/05/2017 04:16	WG975082
Chromium,Dissolved	0.000655	B J	0.000540	0.00200	1	05/05/2017 03:11	WG975071
Iron	0.0538	J	0.0150	0.100	1	05/05/2017 04:16	WG975082
Iron,Dissolved	U		0.0150	0.100	1	05/05/2017 03:11	WG975071
Lead	0.00145	J	0.000240	0.00200	1	05/05/2017 21:41	WG975082
Lead,Dissolved	0.000859	J	0.000240	0.00200	1	05/05/2017 03:11	WG975071
Manganese	0.0412		0.000250	0.00500	1	05/05/2017 04:16	WG975082
Manganese,Dissolved	0.0443		0.000250	0.00500	1	05/05/2017 03:11	WG975071
Potassium	0.893	J	0.0370	1.00	1	05/05/2017 04:16	WG975082
Selenium	U		0.000380	0.00200	1	05/05/2017 04:16	WG975082
Selenium,Dissolved	U		0.000380	0.00200	1	05/05/2017 03:11	WG975071
Sodium	81.7		0.110	1.00	1	05/05/2017 04:16	WG975082

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		0.250	1.25	25	05/02/2017 23:05	WG975535
Benzene	0.382		0.00828	0.0250	25	05/02/2017 23:05	WG975535
Bromodichloromethane	U		0.00950	0.0250	25	05/02/2017 23:05	WG975535
Bromoform	U		0.0117	0.0250	25	05/02/2017 23:05	WG975535
Bromomethane	U		0.0216	0.125	25	05/02/2017 23:05	WG975535
n-Butylbenzene	U		0.00902	0.0250	25	05/02/2017 23:05	WG975535
sec-Butylbenzene	U		0.00912	0.0250	25	05/02/2017 23:05	WG975535
Carbon disulfide	U		0.00688	0.0250	25	05/02/2017 23:05	WG975535
Carbon tetrachloride	U		0.00948	0.0250	25	05/02/2017 23:05	WG975535
Chlorobenzene	U		0.00870	0.0250	25	05/02/2017 23:05	WG975535
Chlorodibromomethane	U		0.00818	0.0250	25	05/02/2017 23:05	WG975535
Chloroethane	U		0.0113	0.125	25	05/02/2017 23:05	WG975535
Chloroform	U		0.00810	0.125	25	05/02/2017 23:05	WG975535
Chloromethane	U		0.00690	0.0625	25	05/02/2017 23:05	WG975535
1,2-Dibromoethane	U		0.00952	0.0250	25	05/02/2017 23:05	WG975535
1,1-Dichloroethane	U		0.00648	0.0250	25	05/02/2017 23:05	WG975535

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		0.00902	0.0250	25	05/02/2017 23:05	WG975535
1,1-Dichloroethene	U		0.00995	0.0250	25	05/02/2017 23:05	WG975535
cis-1,2-Dichloroethene	U		0.00650	0.0250	25	05/02/2017 23:05	WG975535
trans-1,2-Dichloroethene	U		0.00990	0.0250	25	05/02/2017 23:05	WG975535
1,2-Dichloropropane	U		0.00765	0.0250	25	05/02/2017 23:05	WG975535
cis-1,3-Dichloropropene	U		0.0104	0.0250	25	05/02/2017 23:05	WG975535
trans-1,3-Dichloropropene	U		0.0105	0.0250	25	05/02/2017 23:05	WG975535
Ethylbenzene	U		0.00960	0.0250	25	05/02/2017 23:05	WG975535
Isopropylbenzene	0.0384		0.00815	0.0250	25	05/02/2017 23:05	WG975535
p-Isopropyltoluene	U		0.00875	0.0250	25	05/02/2017 23:05	WG975535
2-Butanone (MEK)	U		0.0982	0.250	25	05/02/2017 23:05	WG975535
2-Hexanone	U		0.0955	0.250	25	05/02/2017 23:05	WG975535
Methylene Chloride	U		0.0250	0.125	25	05/02/2017 23:05	WG975535
4-Methyl-2-pentanone (MIBK)	U		0.0535	0.250	25	05/02/2017 23:05	WG975535
Methyl tert-butyl ether	U		0.00918	0.0250	25	05/02/2017 23:05	WG975535
Naphthalene	U		0.0250	0.125	25	05/02/2017 23:05	WG975535
n-Propylbenzene	0.0396		0.00872	0.0250	25	05/02/2017 23:05	WG975535
Styrene	U		0.00768	0.0250	25	05/02/2017 23:05	WG975535
1,1,1,2-Tetrachloroethane	U		0.00962	0.0250	25	05/02/2017 23:05	WG975535
1,1,2,2-Tetrachloroethane	U		0.00325	0.0250	25	05/02/2017 23:05	WG975535
Tetrachloroethene	U		0.00930	0.0250	25	05/02/2017 23:05	WG975535
Toluene	U		0.0103	0.0250	25	05/02/2017 23:05	WG975535
1,1,1-Trichloroethane	U		0.00798	0.0250	25	05/02/2017 23:05	WG975535
1,1,2-Trichloroethane	U		0.00958	0.0250	25	05/02/2017 23:05	WG975535
Trichloroethene	U		0.00995	0.0250	25	05/02/2017 23:05	WG975535
1,2,4-Trimethylbenzene	0.0605		0.00932	0.0250	25	05/02/2017 23:05	WG975535
1,3,5-Trimethylbenzene	U		0.00968	0.0250	25	05/02/2017 23:05	WG975535
Vinyl chloride	U		0.00648	0.0250	25	05/02/2017 23:05	WG975535
o-Xylene	U		0.00852	0.0250	25	05/02/2017 23:05	WG975535
m&p-Xylene	0.0815		0.0180	0.0500	25	05/02/2017 23:05	WG975535
Xylenes, Total	0.0815		0.0265	0.0750	25	05/02/2017 23:05	WG975535
(S) Toluene-d8	*94.4*			*80.0-120*		*05/02/2017 23:05*	WG975535
(S) Dibromofluoromethane	*81.1*			*76.0-123*		*05/02/2017 23:05*	WG975535
(S) 4-Bromofluorobenzene	*92.1*			*80.0-120*		*05/02/2017 23:05*	WG975535

Sample Narrative:

8260B L905651-08 WG975535: Target compounds too high to run at a lower dilution.

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	6.80		0.124	0.500	5	05/06/2017 00:10	WG975555
(S) o-Terphenyl	*70.5*			*31.0-160*		*05/06/2017 00:10*	WG975555

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Dissolved Solids	3150		2.82	10.0	1	05/03/2017 12:09	WG975503

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	0.127	P1	0.0197	0.100	1	05/05/2017 10:13	WG975895

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	65.7		0.0519	1.00	1	05/04/2017 18:38	WG976555
Fluoride	1.19		0.00990	0.100	1	05/04/2017 18:38	WG976555
Sulfate	1890		3.87	250	50	05/04/2017 18:53	WG976555

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.00975		0.000250	0.00200	1	05/05/2017 04:20	WG975082
Arsenic,Dissolved	0.00727		0.000250	0.00200	1	05/05/2017 03:14	WG975071
Barium	0.0152		0.000360	0.00500	1	05/05/2017 04:20	WG975082
Barium,Dissolved	0.0170		0.000360	0.00500	1	05/05/2017 03:14	WG975071
Calcium	369		0.0460	1.00	1	05/05/2017 04:20	WG975082
Chromium	U		0.000540	0.00200	1	05/05/2017 04:20	WG975082
Chromium,Dissolved	U		0.000540	0.00200	1	05/05/2017 03:14	WG975071
Iron	0.446		0.0150	0.100	1	05/05/2017 04:20	WG975082
Iron,Dissolved	U		0.0150	0.100	1	05/05/2017 03:14	WG975071
Lead	0.000330	J	0.000240	0.00200	1	05/05/2017 21:44	WG975082
Lead,Dissolved	U		0.000240	0.00200	1	05/05/2017 03:14	WG975071
Manganese	2.19		0.000250	0.00500	1	05/05/2017 04:20	WG975082
Manganese,Dissolved	2.35		0.000250	0.00500	1	05/05/2017 03:14	WG975071
Potassium	0.434	J	0.0370	1.00	1	05/05/2017 04:20	WG975082
Selenium	0.000525	J	0.000380	0.00200	1	05/05/2017 04:20	WG975082
Selenium,Dissolved	0.000414	J	0.000380	0.00200	1	05/05/2017 03:14	WG975071
Sodium	111		0.110	1.00	1	05/05/2017 04:20	WG975082

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		0.0100	0.0500	1	05/02/2017 21:51	WG975535
Benzene	U		0.000331	0.00100	1	05/02/2017 21:51	WG975535
Bromodichloromethane	U		0.000380	0.00100	1	05/02/2017 21:51	WG975535
Bromoform	U		0.000469	0.00100	1	05/02/2017 21:51	WG975535
Bromomethane	U		0.000866	0.00500	1	05/02/2017 21:51	WG975535
n-Butylbenzene	U		0.000361	0.00100	1	05/02/2017 21:51	WG975535
sec-Butylbenzene	0.000971	J	0.000365	0.00100	1	05/02/2017 21:51	WG975535
Carbon disulfide	U		0.000275	0.00100	1	05/02/2017 21:51	WG975535
Carbon tetrachloride	U		0.000379	0.00100	1	05/02/2017 21:51	WG975535
Chlorobenzene	U		0.000348	0.00100	1	05/02/2017 21:51	WG975535
Chlorodibromomethane	U		0.000327	0.00100	1	05/02/2017 21:51	WG975535
Chloroethane	U		0.000453	0.00500	1	05/02/2017 21:51	WG975535
Chloroform	U		0.000324	0.00500	1	05/02/2017 21:51	WG975535
Chloromethane	U		0.000276	0.00250	1	05/02/2017 21:51	WG975535
1,2-Dibromoethane	U		0.000381	0.00100	1	05/02/2017 21:51	WG975535
1,1-Dichloroethane	U		0.000259	0.00100	1	05/02/2017 21:51	WG975535

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		0.000361	0.00100	1	05/02/2017 21:51	WG975535
1,1-Dichloroethene	U		0.000398	0.00100	1	05/02/2017 21:51	WG975535
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	05/02/2017 21:51	WG975535
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	05/02/2017 21:51	WG975535
1,2-Dichloropropane	U		0.000306	0.00100	1	05/02/2017 21:51	WG975535
cis-1,3-Dichloropropene	U		0.000418	0.00100	1	05/02/2017 21:51	WG975535
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	05/02/2017 21:51	WG975535
Ethylbenzene	U		0.000384	0.00100	1	05/02/2017 21:51	WG975535
Isopropylbenzene	0.00180		0.000326	0.00100	1	05/02/2017 21:51	WG975535
p-Isopropyltoluene	U		0.000350	0.00100	1	05/02/2017 21:51	WG975535
2-Butanone (MEK)	U		0.00393	0.0100	1	05/02/2017 21:51	WG975535
2-Hexanone	U		0.00382	0.0100	1	05/02/2017 21:51	WG975535
Methylene Chloride	U		0.00100	0.00500	1	05/02/2017 21:51	WG975535
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	05/02/2017 21:51	WG975535
Methyl tert-butyl ether	U		0.000367	0.00100	1	05/02/2017 21:51	WG975535
Naphthalene	U		0.00100	0.00500	1	05/02/2017 21:51	WG975535
n-Propylbenzene	U		0.000349	0.00100	1	05/02/2017 21:51	WG975535
Styrene	U		0.000307	0.00100	1	05/02/2017 21:51	WG975535
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	05/02/2017 21:51	WG975535
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	05/02/2017 21:51	WG975535
Tetrachloroethene	U		0.000372	0.00100	1	05/02/2017 21:51	WG975535
Toluene	U		0.000412	0.00100	1	05/02/2017 21:51	WG975535
1,1,1-Trichloroethane	U		0.000319	0.00100	1	05/02/2017 21:51	WG975535
1,1,2-Trichloroethane	U		0.000383	0.00100	1	05/02/2017 21:51	WG975535
Trichloroethene	U		0.000398	0.00100	1	05/02/2017 21:51	WG975535
1,2,4-Trimethylbenzene	U		0.000373	0.00100	1	05/02/2017 21:51	WG975535
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	05/02/2017 21:51	WG975535
Vinyl chloride	U		0.000259	0.00100	1	05/02/2017 21:51	WG975535
o-Xylene	U		0.000341	0.00100	1	05/02/2017 21:51	WG975535
m&p-Xylene	U		0.000719	0.00200	1	05/02/2017 21:51	WG975535
Xylenes, Total	U		0.00106	0.00300	1	05/02/2017 21:51	WG975535
(S) Toluene-d8	*95.6*			*80.0-120*		*05/02/2017 21:51*	WG975535
(S) Dibromofluoromethane	*82.0*			*76.0-123*		*05/02/2017 21:51*	WG975535
(S) 4-Bromofluorobenzene	*91.7*			*80.0-120*		*05/02/2017 21:51*	WG975535

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	1.37		0.0247	0.100	1	05/05/2017 23:53	WG975555
(S) o-Terphenyl	*67.9*			*31.0-160*		*05/05/2017 23:53*	WG975555

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Dissolved Solids	3.00	J	2.82	10.0	1	05/03/2017 12:09	WG975503

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	0.0220	J	0.0197	0.100	1	05/05/2017 10:15	WG975895

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	0.289	J P1	0.0519	1.00	1	05/05/2017 09:57	WG976555
Fluoride	0.0207	J P1	0.00990	0.100	1	05/05/2017 09:57	WG976555
Sulfate	0.238	J P1	0.0774	5.00	1	05/05/2017 09:57	WG976555

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	U		0.000250	0.00200	1	05/05/2017 04:23	WG975082
Arsenic,Dissolved	U		0.000250	0.00200	1	05/05/2017 03:18	WG975071
Barium	U		0.000360	0.00500	1	05/05/2017 04:23	WG975082
Barium,Dissolved	U		0.000360	0.00500	1	05/05/2017 03:18	WG975071
Calcium	U		0.0460	1.00	1	05/05/2017 04:23	WG975082
Chromium	U		0.000540	0.00200	1	05/05/2017 04:23	WG975082
Chromium,Dissolved	0.000706	B J	0.000540	0.00200	1	05/05/2017 03:18	WG975071
Iron	U		0.0150	0.100	1	05/05/2017 04:23	WG975082
Iron,Dissolved	U		0.0150	0.100	1	05/05/2017 03:18	WG975071
Lead	U		0.000240	0.00200	1	05/05/2017 21:48	WG975082
Lead,Dissolved	U		0.000240	0.00200	1	05/05/2017 03:18	WG975071
Manganese	0.000333	B J	0.000250	0.00500	1	05/05/2017 04:23	WG975082
Manganese,Dissolved	0.000429	J	0.000250	0.00500	1	05/05/2017 03:18	WG975071
Potassium	U		0.0370	1.00	1	05/05/2017 04:23	WG975082
Selenium	U		0.000380	0.00200	1	05/05/2017 04:23	WG975082
Selenium,Dissolved	U		0.000380	0.00200	1	05/05/2017 03:18	WG975071
Sodium	0.184	J	0.110	1.00	1	05/05/2017 04:23	WG975082

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		0.0100	0.0500	1	05/02/2017 22:06	WG975535
Benzene	U		0.000331	0.00100	1	05/02/2017 22:06	WG975535
Bromodichloromethane	U		0.000380	0.00100	1	05/02/2017 22:06	WG975535
Bromoform	U		0.000469	0.00100	1	05/02/2017 22:06	WG975535
Bromomethane	U		0.000866	0.00500	1	05/02/2017 22:06	WG975535
n-Butylbenzene	U		0.000361	0.00100	1	05/02/2017 22:06	WG975535
sec-Butylbenzene	U		0.000365	0.00100	1	05/02/2017 22:06	WG975535
Carbon disulfide	U		0.000275	0.00100	1	05/02/2017 22:06	WG975535
Carbon tetrachloride	U		0.000379	0.00100	1	05/02/2017 22:06	WG975535
Chlorobenzene	U		0.000348	0.00100	1	05/02/2017 22:06	WG975535
Chlorodibromomethane	U		0.000327	0.00100	1	05/02/2017 22:06	WG975535
Chloroethane	U		0.000453	0.00500	1	05/02/2017 22:06	WG975535
Chloroform	U		0.000324	0.00500	1	05/02/2017 22:06	WG975535
Chloromethane	U		0.000276	0.00250	1	05/02/2017 22:06	WG975535
1,2-Dibromoethane	U		0.000381	0.00100	1	05/02/2017 22:06	WG975535
1,1-Dichloroethane	U		0.000259	0.00100	1	05/02/2017 22:06	WG975535

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
1,2-Dichloroethane	U		0.000361	0.00100	1	05/02/2017 22:06	WG975535
1,1-Dichloroethene	U		0.000398	0.00100	1	05/02/2017 22:06	WG975535
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	05/02/2017 22:06	WG975535
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	05/02/2017 22:06	WG975535
1,2-Dichloropropane	U		0.000306	0.00100	1	05/02/2017 22:06	WG975535
cis-1,3-Dichloropropene	U		0.000418	0.00100	1	05/02/2017 22:06	WG975535
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	05/02/2017 22:06	WG975535
Ethylbenzene	U		0.000384	0.00100	1	05/02/2017 22:06	WG975535
Isopropylbenzene	U		0.000326	0.00100	1	05/02/2017 22:06	WG975535
p-Isopropyltoluene	U		0.000350	0.00100	1	05/02/2017 22:06	WG975535
2-Butanone (MEK)	U		0.00393	0.0100	1	05/02/2017 22:06	WG975535
2-Hexanone	U		0.00382	0.0100	1	05/02/2017 22:06	WG975535
Methylene Chloride	U		0.00100	0.00500	1	05/02/2017 22:06	WG975535
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	05/02/2017 22:06	WG975535
Methyl tert-butyl ether	U		0.000367	0.00100	1	05/02/2017 22:06	WG975535
Naphthalene	U		0.00100	0.00500	1	05/02/2017 22:06	WG975535
n-Propylbenzene	U		0.000349	0.00100	1	05/02/2017 22:06	WG975535
Styrene	U		0.000307	0.00100	1	05/02/2017 22:06	WG975535
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	05/02/2017 22:06	WG975535
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	05/02/2017 22:06	WG975535
Tetrachloroethene	U		0.000372	0.00100	1	05/02/2017 22:06	WG975535
Toluene	U		0.000412	0.00100	1	05/02/2017 22:06	WG975535
1,1,1-Trichloroethane	U		0.000319	0.00100	1	05/02/2017 22:06	WG975535
1,1,2-Trichloroethane	U		0.000383	0.00100	1	05/02/2017 22:06	WG975535
Trichloroethene	U		0.000398	0.00100	1	05/02/2017 22:06	WG975535
1,2,4-Trimethylbenzene	U		0.000373	0.00100	1	05/02/2017 22:06	WG975535
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	05/02/2017 22:06	WG975535
Vinyl chloride	U		0.000259	0.00100	1	05/02/2017 22:06	WG975535
o-Xylene	U		0.000341	0.00100	1	05/02/2017 22:06	WG975535
m&p-Xylene	U		0.000719	0.00200	1	05/02/2017 22:06	WG975535
Xylenes, Total	U		0.00106	0.00300	1	05/02/2017 22:06	WG975535
(S) Toluene-d8	*95.0*			*80.0-120*		*05/02/2017 22:06*	WG975535
(S) Dibromofluoromethane	*82.1*			*76.0-123*		*05/02/2017 22:06*	WG975535
(S) 4-Bromofluorobenzene	*90.0*			*80.0-120*		*05/02/2017 22:06*	WG975535

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	0.0684	J	0.0247	0.100	1	05/03/2017 05:07	WG975555
(S) o-Terphenyl	*62.2*			*31.0-160*		*05/03/2017 05:07*	WG975555

Method Blank (MB)

(MB) R3215908-1 05/03/17 12:09

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	mg/l		mg/l	mg/l
Dissolved Solids	U		2.82	10.0

L905602-12 Original Sample (OS) • Duplicate (DUP)

(OS) L905602-12 05/03/17 12:09 • (DUP) R3215908-4 05/03/17 12:09

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	mg/l	mg/l		%		%
Dissolved Solids	8730	8810	1	0.912		5

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

(LCS) R3215908-2 05/03/17 12:09 • (LCSD) R3215908-3 05/03/17 12:09

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	mg/l	mg/l	mg/l	%	%	%			%	%
Dissolved Solids	8800	8670	8590	98.5	97.6	85.0-115			0.927	5

Method Blank (MB)

(MB) R3215924-1 05/03/17 14:04

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	mg/l		mg/l	mg/l
Dissolved Solids	U		2.82	10.0

L905645-03 Original Sample (OS) • Duplicate (DUP)

(OS) L905645-03 05/03/17 14:04 • (DUP) R3215924-4 05/03/17 14:04

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	mg/l	mg/l		%		%
Dissolved Solids	2730	2730	1	0.000		5

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

(LCS) R3215924-2 05/03/17 14:04 • (LCSD) R3215924-3 05/03/17 14:04

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	mg/l	mg/l	mg/l	%	%	%			%	%
Dissolved Solids	8800	8670	8700	98.5	98.9	85.0-115			0.345	5

Method Blank (MB)

(MB) R3215384-1 05/03/17 14:35

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	mg/l		mg/l	mg/l
Nitrate-Nitrite	U		0.0197	0.100

L905307-17 Original Sample (OS) • Duplicate (DUP)

(OS) L905307-17 05/03/17 14:38 • (DUP) R3215384-4 05/03/17 14:39

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	mg/l	mg/l		%		%
Nitrate-Nitrite	16.3	16.7	10	2		20

L905307-24 Original Sample (OS) • Duplicate (DUP)

(OS) L905307-24 05/03/17 14:50 • (DUP) R3215384-5 05/03/17 14:51

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	mg/l	mg/l		%		%
Nitrate-Nitrite	U	0.000	10	0		20

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

(LCS) R3215384-2 05/03/17 14:36 • (LCSD) R3215384-3 05/03/17 14:37

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	mg/l	mg/l	mg/l	%	%	%			%	%
Nitrate-Nitrite	5.00	5.32	4.93	106	99	90-110			8	20

L905371-15 Original Sample (OS) • Matrix Spike (MS)

(OS) L905371-15 05/03/17 14:54 • (MS) R3215384-6 05/03/17 14:55

Analyte	Spike Amount	Original Result	MS Result	MS Rec.	Dilution	Rec. Limits	MS Qualifier
	mg/l	mg/l	mg/l	%		%	
Nitrate-Nitrite	5.00	ND	4.56	91	1	90-110	

L905651-04 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L905651-04 05/03/17 15:07 • (MS) R3215384-7 05/03/17 15:13 • (MSD) R3215384-8 05/03/17 15:14

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
	mg/l	mg/l	mg/l	mg/l	%	%		%			%	%
Nitrate-Nitrite	5.00	0.0570	0.323	0.310	5	5	1	90-110	J6	J6	4	20

Method Blank (MB)

(MB) R3215842-1 05/05/17 10:01

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	mg/l		mg/l	mg/l
Nitrate-Nitrite	U		0.0197	0.100

L905651-07 Original Sample (OS) • Duplicate (DUP)

(OS) L905651-07 05/05/17 10:04 • (DUP) R3215842-4 05/05/17 10:05

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	mg/l	mg/l		%		%
Nitrate-Nitrite	4.90	4.86	1	1		20

L905651-09 Original Sample (OS) • Duplicate (DUP)

(OS) L905651-09 05/05/17 10:13 • (DUP) R3215842-7 05/05/17 10:14

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	mg/l	mg/l		%		%
Nitrate-Nitrite	0.127	0.0950	1	29	J P1	20

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

(LCS) R3215842-2 05/05/17 10:02 • (LCSD) R3215842-3 05/05/17 10:03

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	mg/l	mg/l	mg/l	%	%	%			%	%
Nitrate-Nitrite	5.00	5.16	4.96	103	99	90-110			4	20

L905651-08 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L905651-08 05/05/17 10:06 • (MS) R3215842-5 05/05/17 10:07 • (MSD) R3215842-6 05/05/17 10:08

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
	mg/l	mg/l	mg/l	mg/l	%	%		%			%	%
Nitrate-Nitrite	5.00	0.0310	0.239	0.220	4	4	1	90-110	J6	J6	8	20

L905651-10 Original Sample (OS) • Matrix Spike (MS)

(OS) L905651-10 05/05/17 10:15 • (MS) R3215842-8 05/05/17 10:16

Analyte	Spike Amount	Original Result	MS Result	MS Rec.	Dilution	Rec. Limits	MS Qualifier
	mg/l	mg/l	mg/l	%		%	
Nitrate-Nitrite	5.00	0.0220	4.69	93	1	90-110	

Method Blank (MB)

(MB) R3214912-1 05/02/17 10:38

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Cyanide	U		0.0018	0.00500

L905561-02 Original Sample (OS) • Duplicate (DUP)

(OS) L905561-02 05/02/17 10:51 • (DUP) R3214912-6 05/02/17 10:52

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Cyanide	ND	0.000	1	0		20

L905668-23 Original Sample (OS) • Duplicate (DUP)

(OS) L905668-23 05/02/17 11:03 • (DUP) R3214912-7 05/02/17 11:04

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Cyanide	U	0.000	1	0		20

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

(LCS) R3214912-2 05/02/17 10:39 • (LCSD) R3214912-3 05/02/17 10:40

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 %
Cyanide	0.100	0.105	0.0907	105	91	85-115			15	20

L905437-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L905437-02 05/02/17 10:44 • (MS) R3214912-4 05/02/17 10:45 • (MSD) R3214912-5 05/02/17 10:46

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 %
Cyanide	0.100	ND	0.101	0.0997	101	100	1	75-125			1	20

Method Blank (MB)

(MB) R3215820-1 05/04/17 06:15

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	mg/l		mg/l	mg/l
Sulfate	U		0.0774	5.00

L905651-08 Original Sample (OS) • Duplicate (DUP)

(OS) L905651-08 05/04/17 12:33 • (DUP) R3215820-4 05/04/17 13:25

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	mg/l	mg/l		%		%
Sulfate	717	730	10	2		15

L905831-01 Original Sample (OS) • Duplicate (DUP)

(OS) L905831-01 05/04/17 21:33 • (DUP) R3215820-8 05/04/17 21:50

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	mg/l	mg/l		%		%
Sulfate	16.4	16.4	1	0		15

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

(LCS) R3215820-2 05/04/17 06:33 • (LCSD) R3215820-3 05/04/17 06:50

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	mg/l	mg/l	mg/l	%	%	%			%	%
Sulfate	40.0	40.5	40.3	101	101	80-120			0	15

L905668-20 Original Sample (OS) • Matrix Spike (MS)

(OS) L905668-20 05/04/17 13:42 • (MS) R3215820-5 05/04/17 14:00

Analyte	Spike Amount	Original Result	MS Result	MS Rec.	Dilution	Rec. Limits	MS Qualifier
	mg/l	mg/l	mg/l	%		%	
Sulfate	50.0	11.3	59.9	97	1	80-120	

L905847-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L905847-01 05/04/17 15:44 • (MS) R3215820-6 05/04/17 16:37 • (MSD) R3215820-7 05/04/17 16:54

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
	mg/l	mg/l	mg/l	mg/l	%	%		%			%	%
Sulfate	50.0	1.18	52.1	52.1	102	102	1	80-120			0	15

Method Blank (MB)

(MB) R3215800-1 05/04/17 06:09

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	mg/l		mg/l	mg/l
Chloride	U		0.0519	1.00
Fluoride	U		0.0099	0.100
Sulfate	U		0.0774	5.00

L905651-08 Original Sample (OS) • Duplicate (DUP)

(OS) L905651-08 05/05/17 00:48 • (DUP) R3215800-10 05/05/17 01:03

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	mg/l	mg/l		%		%
Chloride	80.4	76.9	1	4		15
Fluoride	1.90	2.18	1	14		15

L905651-10 Original Sample (OS) • Duplicate (DUP)

(OS) L905651-10 05/05/17 09:57 • (DUP) R3215800-12 05/05/17 10:11

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	mg/l	mg/l		%		%
Chloride	0.289	0.126	1	79	J P1	15
Fluoride	0.0207	0.000	1	200	P1	15
Sulfate	0.238	0.000	1	200	P1	15

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

(LCS) R3215800-2 05/04/17 06:25 • (LCSD) R3215800-3 05/04/17 06:40

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	mg/l	mg/l	mg/l	%	%	%			%	%
Chloride	40.0	40.2	40.2	100	100	80-120			0	15
Fluoride	8.00	8.07	8.06	101	101	80-120			0	15
Sulfate	40.0	40.4	40.4	101	101	80-120			0	15

L905645-06 Original Sample (OS) • Matrix Spike (MS)

(OS) L905645-06 05/04/17 12:55 • (MS) R3215800-6 05/04/17 13:10

Analyte	Spike Amount	Original Result	MS Result	MS Rec.	Dilution	Rec. Limits	MS Qualifier
	mg/l	mg/l	mg/l	%		%	
Chloride	50.0	0.472	50.9	101	1	80-120	
Fluoride	5.00	U	5.06	101	1	80-120	
Sulfate	50.0	U	51.3	103	1	80-120	

L905668-08 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L905668-08 05/04/17 23:46 • (MS) R3215800-8 05/05/17 00:17 • (MSD) R3215800-9 05/05/17 00:32

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 %
Fluoride	5.00	0.668	5.39	5.41	94	95	1	80-120			0	15

Method Blank (MB)

(MB) R3215049-1 05/02/17 15:24

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Mercury	U		0.000049	0.000200

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

(LCS) R3215049-2 05/02/17 15:27 • (LCSD) R3215049-3 05/02/17 15:29

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 %
Mercury	0.00300	0.00287	0.00282	96	94	80-120			2	20

L905668-17 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L905668-17 05/02/17 15:31 • (MS) R3215049-4 05/02/17 15:34 • (MSD) R3215049-5 05/02/17 15:36

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 %
Mercury	0.00300	U	0.00270	0.00268	90	89	1	75-125			1	20

Method Blank (MB)

(MB) R3215030-1 05/02/17 13:31

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Mercury,Dissolved	U		0.000049	0.000200

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

(LCS) R3215030-2 05/02/17 13:33 • (LCSD) R3215030-3 05/02/17 13:35

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 %
Mercury,Dissolved	0.00300	0.00280	0.00275	93	92	80-120			2	20

L905670-11 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L905670-11 05/02/17 13:37 • (MS) R3215030-4 05/02/17 13:40 • (MSD) R3215030-5 05/02/17 13:42

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 %
Mercury,Dissolved	0.00300	ND	0.00289	0.00276	96	92	1	75-125			4	20

Method Blank (MB)

(MB) R3215762-1 05/05/17 01:50

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Arsenic,Dissolved	U		0.00025	0.00200
Barium,Dissolved	U		0.00036	0.00500
Cadmium,Dissolved	U		0.00016	0.00100
Chromium,Dissolved	0.000556	J	0.00054	0.00200
Cobalt,Dissolved	U		0.00026	0.00200
Iron,Dissolved	U		0.015	0.100
Lead,Dissolved	U		0.00024	0.00200
Manganese,Dissolved	U		0.00025	0.00500
Nickel,Dissolved	0.00047	J	0.00035	0.00200
Selenium,Dissolved	U		0.00038	0.00200
Uranium,Dissolved	U		0.00033	0.0100
Vanadium,Dissolved	0.00023	J	0.00018	0.00500

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

(LCS) R3215762-2 05/05/17 01:53 • (LCSD) R3215762-3 05/05/17 01:57

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 %
Arsenic,Dissolved	0.0500	0.0489	0.0484	98	97	80-120			1	20
Barium,Dissolved	0.0500	0.0537	0.0541	107	108	80-120			1	20
Cadmium,Dissolved	0.0500	0.0483	0.0488	97	98	80-120			1	20
Chromium,Dissolved	0.0500	0.0514	0.0507	103	101	80-120			1	20
Cobalt,Dissolved	0.0500	0.0507	0.0514	101	103	80-120			1	20
Iron,Dissolved	5.00	5.02	5.02	100	100	80-120			0	20
Lead,Dissolved	0.0500	0.0496	0.0499	99	100	80-120			1	20
Manganese,Dissolved	0.0500	0.0498	0.0500	100	100	80-120			0	20
Nickel,Dissolved	0.0500	0.0515	0.0516	103	103	80-120			0	20
Selenium,Dissolved	0.0500	0.0484		97		80-120				
Uranium,Dissolved	0.0500	0.0481	0.0484	96	97	80-120			0	20
Vanadium,Dissolved	0.0500	0.0499	0.0505	100	101	80-120			1	20

L905645-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L905645-01 05/05/17 02:01 • (MS) R3215762-5 05/05/17 02:08 • (MSD) R3215762-6 05/05/17 02:11

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 %
Arsenic,Dissolved	0.0500	0.00660	0.0555	0.0537	98	94	1	75-125			3	20
Barium,Dissolved	0.0500	0.0188	0.0730	0.0739	108	110	1	75-125			1	20
Cadmium,Dissolved	0.0500	U	0.0483	0.0477	97	95	1	75-125			1	20

L905645-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L905645-01 05/05/17 02:01 • (MS) R3215762-5 05/05/17 02:08 • (MSD) R3215762-6 05/05/17 02:11

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 %
Chromium,Dissolved	0.0500	0.0114	0.0618	0.0600	101	97	1	75-125			3	20
Cobalt,Dissolved	0.0500	U	0.0485	0.0474	97	95	1	75-125			2	20
Iron,Dissolved	5.00	U	4.90	4.80	98	96	1	75-125			2	20
Lead,Dissolved	0.0500	0.000416	0.0509	0.0500	101	99	1	75-125			2	20
Manganese,Dissolved	0.0500	1.04	1.10	1.09	120	104	1	75-125			1	20
Nickel,Dissolved	0.0500	0.00727	0.0556	0.0541	97	94	1	75-125			3	20
Selenium,Dissolved	0.0500	0.000623	0.0487	0.0472	96	93	1	75-125			3	20
Uranium,Dissolved	0.0500	0.00128	0.0520	0.0512	101	100	1	75-125			1	20
Vanadium,Dissolved	0.0500	0.000789	0.0510	0.0505	100	99	1	75-125			1	20

Method Blank (MB)

(MB) R3215772-1 05/05/17 03:23

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Arsenic	U		0.00025	0.00200
Barium	U		0.00036	0.00500
Boron	0.00774	J	0.0015	0.0200
Cadmium	U		0.00016	0.00100
Calcium	U		0.046	1.00
Chromium	U		0.00054	0.00200
Cobalt	U		0.00026	0.00200
Iron	U		0.015	0.100
Manganese	0.000834	J	0.00025	0.00500
Nickel	U		0.00035	0.00200
Potassium	U		0.037	1.00
Selenium	U		0.00038	0.00200
Sodium	U		0.11	1.00
Vanadium	0.000442	J	0.00018	0.00500

Method Blank (MB)

(MB) R3216099-1 05/05/17 20:44

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Lead	U		0.00024	0.00200
Uranium	U		0.00033	0.0100

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

(LCS) R3215772-2 05/05/17 03:27 • (LCSD) R3215772-3 05/05/17 03:30

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 %
Arsenic	0.0500	0.0463	0.0465	93	93	80-120			1	20
Barium	0.0500	0.0472	0.0484	94	97	80-120			2	20
Boron	0.0500	0.0498	0.0501	100	100	80-120			1	20
Cadmium	0.0500	0.0469	0.0484	94	97	80-120			3	20
Calcium	5.00	4.75	4.82	95	96	80-120			1	20
Chromium	0.0500	0.0474	0.0476	95	95	80-120			1	20
Cobalt	0.0500	0.0489	0.0496	98	99	80-120			1	20
Iron	5.00	4.81	4.87	96	97	80-120			1	20
Manganese	0.0500	0.0471	0.0476	94	95	80-120			1	20
Nickel	0.0500	0.0484	0.0489	97	98	80-120			1	20
Potassium	5.00	4.68	4.76	94	95	80-120			2	20

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

(LCS) R3215772-2 05/05/17 03:27 • (LCSD) R3215772-3 05/05/17 03:30

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 %
Selenium	0.0500	0.0457	0.0467	91	93	80-120			2	20
Sodium	5.00	4.84	4.90	97	98	80-120			1	20
Vanadium	0.0500	0.0473	0.0478	95	96	80-120			1	20

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

(LCS) R3216099-2 05/05/17 20:47 • (LCSD) R3216099-3 05/05/17 20:51

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Lead	0.0500	0.0490	0.0491	98	98	80-120			0	20
Uranium	0.0500	0.0484	0.0484	97	97	80-120			0	20

L905651-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L905651-01 05/05/17 03:34 • (MS) R3215772-5 05/05/17 03:41 • (MSD) R3215772-6 05/05/17 03:44

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	0.0500	0.00642	0.0541	0.0539	95	95	1	75-125			0	20
Barium	0.0500	0.0157	0.0654	0.0656	99	100	1	75-125			0	20
Boron	0.0500	0.535	0.583	0.578	94	85	1	75-125			1	20
Cadmium	0.0500	U	0.0491	0.0481	98	96	1	75-125			2	20
Calcium	5.00	501	507	504	118	55	1	75-125		V	1	20
Chromium	0.0500	U	0.0478	0.0479	96	96	1	75-125			0	20
Cobalt	0.0500	0.00617	0.0544	0.0547	96	97	1	75-125			1	20
Potassium	5.00	2.10	6.77	6.72	94	93	1	75-125			1	20
Iron	5.00	U	4.82	4.82	96	96	1	75-125			0	20
Manganese	0.0500	0.320	0.364	0.365	88	91	1	75-125			0	20
Nickel	0.0500	0.00772	0.0550	0.0551	95	95	1	75-125			0	20
Selenium	0.0500	0.00325	0.0527	0.0515	99	97	1	75-125			2	20
Sodium	5.00	338	338	335	13	0	1	75-125	V	V	1	20
Vanadium	0.0500	0.0252	0.0741	0.0741	98	98	1	75-125			0	20

L905651-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L905651-01 05/05/17 20:55 • (MS) R3216099-5 05/05/17 21:02 • (MSD) R3216099-6 05/05/17 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 %
Lead	0.0500	0.000467	0.0508	0.0513	101	102	1	75-125			1	20
Uranium	0.0500	0.0227	0.0743	0.0752	103	105	1	75-125			1	20

Method Blank (MB)

(MB) R3216897-1 05/10/17 11:25

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	mg/l		mg/l	mg/l
Boron,Dissolved	0.00918	J	0.0015	0.0200

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

(LCS) R3216897-2 05/10/17 11:28 • (LCSD) R3216897-3 05/10/17 11:32

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	mg/l	mg/l	mg/l	%	%	%			%	%
Boron,Dissolved	0.0500	0.0548	0.0476	110	95	80-120			14	20

L905651-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L905651-02 05/10/17 11:36 • (MS) R3216897-5 05/10/17 11:43 • (MSD) R3216897-6 05/10/17 11:46

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
	mg/l	mg/l	mg/l	mg/l	%	%		%			%	%
Boron,Dissolved	0.0500	0.756	0.816	0.811	121	111	1	75-125			1	20

Method Blank (MB)

(MB) R3215819-3 04/30/17 19:38

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	mg/l		mg/l	mg/l
TPH (GC/FID) Low Fraction	U		0.0314	0.100
(S) a,a,a-Trifluorotoluene(FID)	*99.9*			*77.0-122*

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

(LCS) R3215819-1 04/30/17 18:25 • (LCSD) R3215819-2 04/30/17 18:50

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	mg/l	mg/l	mg/l	%	%	%			%	%
TPH (GC/FID) Low Fraction	5.50	5.42	5.17	98.5	93.9	71.0-136			4.75	20
(S) a,a,a-Trifluorotoluene(FID)				*103*	*103*	*77.0-122*				

L905602-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L905602-03 04/30/17 21:14 • (MS) R3215819-4 04/30/17 20:02 • (MSD) R3215819-5 04/30/17 20:26

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
	mg/l	mg/l	mg/l	mg/l	%	%		%			%	%
TPH (GC/FID) Low Fraction	5.50	0.585	2.84	2.81	41.0	40.4	1	18.0-160			1.24	20
(S) a,a,a-Trifluorotoluene(FID)					*97.3*	*97.9*		*77.0-122*				

Method Blank (MB)

(MB) R3216109-3 05/02/17 18:26

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	mg/l		mg/l	mg/l
Acetone	U		0.0100	0.0500
Benzene	U		0.000331	0.00100
Bromodichloromethane	U		0.000380	0.00100
Bromoform	U		0.000469	0.00100
Bromomethane	U		0.000866	0.00500
n-Butylbenzene	U		0.000361	0.00100
sec-Butylbenzene	U		0.000365	0.00100
Carbon disulfide	U		0.000275	0.00100
Carbon tetrachloride	U		0.000379	0.00100
Chlorobenzene	U		0.000348	0.00100
Chlorodibromomethane	U		0.000327	0.00100
Chloroethane	U		0.000453	0.00500
Chloroform	U		0.000324	0.00500
Chloromethane	U		0.000276	0.00250
1,2-Dibromoethane	U		0.000381	0.00100
1,1-Dichloroethane	U		0.000259	0.00100
1,2-Dichloroethane	U		0.000361	0.00100
1,1-Dichloroethene	U		0.000398	0.00100
cis-1,2-Dichloroethene	U		0.000260	0.00100
trans-1,2-Dichloroethene	U		0.000396	0.00100
1,2-Dichloropropane	U		0.000306	0.00100
cis-1,3-Dichloropropene	U		0.000418	0.00100
trans-1,3-Dichloropropene	U		0.000419	0.00100
Ethylbenzene	U		0.000384	0.00100
2-Hexanone	U		0.00382	0.0100
Isopropylbenzene	U		0.000326	0.00100
p-Isopropyltoluene	U		0.000350	0.00100
2-Butanone (MEK)	U		0.00393	0.0100
Methylene Chloride	U		0.00100	0.00500
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100
Methyl tert-butyl ether	U		0.000367	0.00100
Naphthalene	U		0.00100	0.00500
n-Propylbenzene	U		0.000349	0.00100
Styrene	U		0.000307	0.00100
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100
Tetrachloroethene	U		0.000372	0.00100
Toluene	U		0.000412	0.00100
1,1,1-Trichloroethane	U		0.000319	0.00100
1,1,2-Trichloroethane	U		0.000383	0.00100

Method Blank (MB)

(MB) R3216109-3 05/02/17 18:26

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Trichloroethene	U		0.000398	0.00100
1,2,4-Trimethylbenzene	U		0.000373	0.00100
1,3,5-Trimethylbenzene	U		0.000387	0.00100
Vinyl chloride	U		0.000259	0.00100
Xylenes, Total	U		0.00106	0.00300
o-Xylene	U		0.000341	0.00100
m&p-Xylenes	U		0.000719	0.00200
(S) Toluene-d8	*96.3*			*80.0-120*
(S) Dibromofluoromethane	*82.9*			*76.0-123*
(S) 4-Bromofluorobenzene	*96.4*			*80.0-120*

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

(LCS) R3216109-1 05/02/17 17:42 • (LCSD) R3216109-2 05/02/17 17:57

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 %
Acetone	0.125	0.175	0.186	140	148	10.0-160			5.74	23
Benzene	0.0250	0.0216	0.0225	86.2	90.0	69.0-123			4.29	20
Bromodichloromethane	0.0250	0.0241	0.0249	96.3	99.7	76.0-120			3.50	20
Bromoform	0.0250	0.0250	0.0259	99.9	103	67.0-132			3.50	20
Bromomethane	0.0250	0.0191	0.0210	76.3	83.9	18.0-160			9.55	20
n-Butylbenzene	0.0250	0.0240	0.0257	96.1	103	72.0-126			6.88	20
sec-Butylbenzene	0.0250	0.0230	0.0249	92.0	99.7	74.0-121			8.00	20
Carbon disulfide	0.0250	0.0204	0.0217	81.5	86.6	55.0-127			6.04	20
Carbon tetrachloride	0.0250	0.0209	0.0222	83.7	88.7	63.0-122			5.81	20
Chlorobenzene	0.0250	0.0248	0.0258	99.0	103	79.0-121			4.15	20
Chlorodibromomethane	0.0250	0.0249	0.0257	99.5	103	75.0-125			3.33	20
Chloroethane	0.0250	0.0216	0.0234	86.3	93.7	47.0-152			8.26	20
Chloroform	0.0250	0.0212	0.0221	84.9	88.6	72.0-121			4.29	20
Chloromethane	0.0250	0.0229	0.0247	91.8	98.8	48.0-139			7.39	20
1,2-Dibromoethane	0.0250	0.0255	0.0262	102	105	77.0-123			2.86	20
1,1-Dichloroethane	0.0250	0.0213	0.0223	85.3	89.1	70.0-126			4.34	20
1,2-Dichloroethane	0.0250	0.0226	0.0233	90.2	93.1	67.0-126			3.12	20
1,1-Dichloroethene	0.0250	0.0211	0.0222	84.3	88.8	64.0-129			5.20	20
cis-1,2-Dichloroethene	0.0250	0.0209	0.0217	83.7	86.9	73.0-120			3.75	20
trans-1,2-Dichloroethene	0.0250	0.0206	0.0214	82.4	85.5	71.0-121			3.65	20
1,2-Dichloropropane	0.0250	0.0245	0.0255	98.1	102	75.0-125			3.75	20
cis-1,3-Dichloropropene	0.0250	0.0258	0.0265	103	106	79.0-123			2.86	20
trans-1,3-Dichloropropene	0.0250	0.0262	0.0268	105	107	74.0-127			2.42	20

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

(LCS) R3216109-1 05/02/17 17:42 • (LCSD) R3216109-2 05/02/17 17:57

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 %
Ethylbenzene	0.0250	0.0243	0.0256	97.3	102	77.0-120			5.18	20
2-Hexanone	0.125	0.154	0.160	123	128	58.0-147			4.08	20
Isopropylbenzene	0.0250	0.0239	0.0256	95.6	102	75.0-120			6.75	20
p-Isopropyltoluene	0.0250	0.0230	0.0240	92.0	96.1	74.0-126			4.38	20
2-Butanone (MEK)	0.125	0.139	0.144	111	116	37.0-158			4.04	20
Methylene Chloride	0.0250	0.0213	0.0223	85.3	89.1	66.0-121			4.30	20
4-Methyl-2-pentanone (MIBK)	0.125	0.132	0.135	105	108	59.0-143			2.64	20
Methyl tert-butyl ether	0.0250	0.0223	0.0230	89.2	92.2	64.0-123			3.35	20
Naphthalene	0.0250	0.0231	0.0251	92.2	100	62.0-128			8.53	20
n-Propylbenzene	0.0250	0.0242	0.0256	96.6	102	79.0-120			5.67	20
Styrene	0.0250	0.0258	0.0269	103	108	78.0-124			4.45	20
1,1,1,2-Tetrachloroethane	0.0250	0.0231	0.0242	92.3	96.8	75.0-122			4.84	20
1,1,2,2-Tetrachloroethane	0.0250	0.0233	0.0240	93.3	95.9	71.0-122			2.79	20
Tetrachloroethene	0.0250	0.0241	0.0253	96.4	101	70.0-127			4.87	20
Toluene	0.0250	0.0246	0.0258	98.5	103	77.0-120			4.76	20
1,1,1-Trichloroethane	0.0250	0.0210	0.0222	84.2	88.7	68.0-122			5.23	20
1,1,2-Trichloroethane	0.0250	0.0246	0.0254	98.6	102	78.0-120			3.10	20
Trichloroethene	0.0250	0.0238	0.0251	95.3	100	78.0-120			5.03	20
1,2,4-Trimethylbenzene	0.0250	0.0234	0.0248	93.7	99.3	75.0-120			5.85	20
1,3,5-Trimethylbenzene	0.0250	0.0237	0.0251	94.7	101	75.0-120			6.03	20
Vinyl chloride	0.0250	0.0238	0.0254	95.4	102	64.0-133			6.42	20
Xylenes, Total	0.0750	0.0727	0.0766	96.9	102	77.0-120			5.22	20
o-Xylene	0.0250	0.0238	0.0252	95.1	101	78.0-120			5.77	20
m&p-Xylenes	0.0500	0.0489	0.0514	97.8	103	77.0-120			5.01	20
(S) Toluene-d8				*95.2*	*96.0*	*80.0-120*				
(S) Dibromofluoromethane				*82.8*	*81.7*	*76.0-123*				
(S) 4-Bromofluorobenzene				*90.7*	*90.8*	*80.0-120*				

Method Blank (MB)

(MB) R3215177-1 05/02/17 11:49

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	mg/l		mg/l	mg/l
TPH (GC/FID) High Fraction	U		0.0247	0.100
(S) o-Terphenyl	*58.4*			*31.0-160*

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

(LCS) R3215177-2 05/02/17 12:06 • (LCSD) R3215177-3 05/02/17 12:23

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	mg/l	mg/l	mg/l	%	%	%			%	%
TPH (GC/FID) High Fraction	1.50	1.65	1.69	110	112	50.0-150			2.15	20
(S) o-Terphenyl				*69.4*	*70.8*	*31.0-160*				

Abbreviations and Definitions

SDG	Sample Delivery Group.
MDL	Method Detection Limit.
RDL	Reported Detection Limit.
ND	Not detected at the Reporting Limit (or MDL where applicable).
U	Not detected at the Reporting Limit (or MDL where applicable).
RPD	Relative Percent Difference.
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.
(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.
Rec.	Recovery.

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.
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.

ESC Lab Sciences is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our "one location" design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be **YOUR LAB OF CHOICE.**

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

State Accreditations

Alabama	40660	Nevada	TN-03-2002-34
Alaska	UST-080	New Hampshire	2975
Arizona	AZ0612	New Jersey–NELAP	TN002
Arkansas	88-0469	New Mexico	TN00003
California	01157CA	New York	11742
Colorado	TN00003	North Carolina	Env375
Conneticut	PH-0197	North Carolina [1]	DW21704
Florida	E87487	North Carolina [2]	41
Georgia	NELAP	North Dakota	R-140
Georgia [1]	923	Ohio–VAP	CL0069
Idaho	TN00003	Oklahoma	9915
Illinois	200008	Oregon	TN200002
Indiana	C-TN-01	Pennsylvania	68-02979
Iowa	364	Rhode Island	221
Kansas	E-10277	South Carolina	84004
Kentucky [1]	90010	South Dakota	n/a
Kentucky [2]	16	Tennessee [14]	2006
Louisiana	AI30792	Texas	T 104704245-07-TX
Maine	TN0002	Texas [5]	LAB0152
Maryland	324	Utah	6157585858
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	109
Minnesota	047-999-395	Washington	C1915
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	9980939910
Montana	CERT0086	Wyoming	A2LA
Nebraska	NE-OS-15-05		

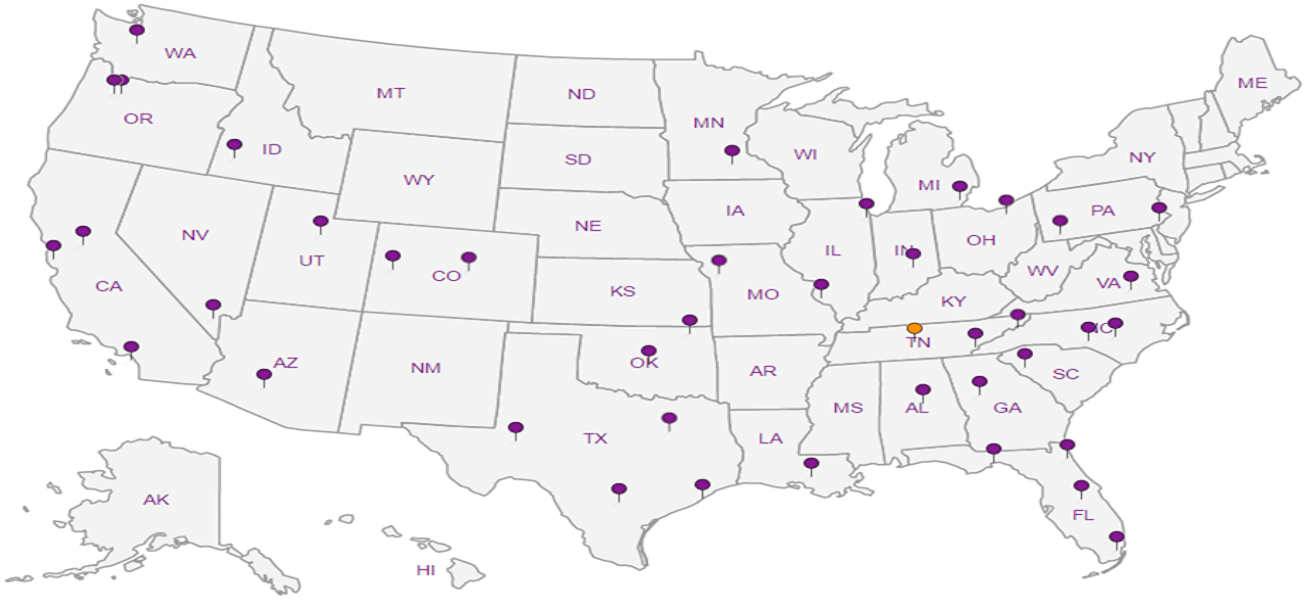
Third Party & Federal Accreditations

A2LA – ISO 17025	1461.01	AIHA-LAP,LLC	100789
A2LA – ISO 17025 [5]	1461.02	DOD	1461.01
Canada	1461.01	USDA	S-67674
EPA–Crypto	TN00003		

[1] Drinking Water [2] Underground Storage Tanks [3] Aquatic Toxicity [4] Chemical/Microbiological [5] Mold [n/a] Accreditation not applicable

Our Locations

ESC Lab Sciences has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. **ESC Lab Sciences performs all testing at our central laboratory.**



Company Name/Address:
TRC Solutions - Austin, TX
505 E. Huntland Dr, Ste 250
Austin, TX 78752

Billing Information:
Accounts Payable
21 Griffin Road North
Windsor, CT 06095

Report to: Julie Speer
Email To: jspeer@trcwsolutions.com

Project Description: **NCL Spring 2017**
City/State Collected: NM

Phone: 512-684-3170
Fax:
Client Project #
Lab Project #

Collected by (print): **Scott Ude/HMI Team**
Site/Facility ID #: NCL (Navajo - Artesia)
P.O. # 107027

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

Rush? (Lab MUST Be Notified)
___ Same Day 200%
___ Next Day 100%
___ Two Day 50%
___ Three Day 25%

Date Results Needed
Email? ___No ✓Yes
FAX? ___No ___Yes

Analysis / Container / Preservative

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	VOC	DRO	GRO	Short List Metals (Total & Dissolved)	Cations (from "total metals" bottle) L2	Anions	NO2NO3, TDS L2	Long List Metals (Total & Dissolved)	Cyanide		Rem./Contaminant	Sample # (lab only)
MW-56	Grab	GW		4/26/17	1425	8	X	X		X	X	X	X					-01
~~MW-45~~	Grab	GW					X	X			X	X	X	X	X			
	Grab	GW																
	Grab	GW																
	Grab	GW																
	Grab	GW																
	Grab	GW																
	Grab	GW																
	Grab	GW																
	Grab	GW																

Chain of Custody Page 7 of 28

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

L# L905651
B239

Acctnum: TRCATX
Template:
Prelogin:
TSR: **Chris McCord**
Cooler:
Shipped Via:

* Matrix: **SS** - Soil **GW** - Groundwater **WW** - WasteWater **DW** - Drinking Water **OT** - Other ___

pH ___ Temp ___
Flow ___ Other ___

Remarks: **Dissolved metals field-filtered.**

Hold #

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Scott Ude	4/27/17	0800	
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)
			Mark

Samples returned via: ☐ UPS ✓ FedEx ☐ Courier ☐ ___
Temp: 2.4 °C Bottles Received: 30
Date: 4-28-17 Time: 845

Condition: (lab use only)
COC Seal Intact: ✓ Y ___N ___NA
pH Checked: L2 NCF:

Company Name/Address: **TRC Solutions - Austin, TX** 505 E. Huntland Dr, Ste 250 Austin, TX 78752	Billing Information: **Accounts Payable** 21 Griffin Road North Windsor, CT 06095
Report to: Julie Speer	Email To: jspeer@trcwsolutions.com
Project Description: **NCL Spring 2017**	City/State Collected: NM
Phone: 512-684-3170 Fax:	Client Project #	Lab Project #
Collected by (print): **Scott Ude/HMI Team**	Site/Facility ID #: NCL (Navajo - Artesia)	P.O. #: 107027
Collected by (signature): Scott Ude Immediately Packed on Ice N ___ Y ✓	***Rush?*** (Lab MUST Be Notified) ___ Same Day .....200% ___ Next Day .....100% ___ Two Day .....50% ___ Three Day 25%	Date Results Needed Email? ___No ✓Yes FAX? ___No ___Yes

Analysis / Container / Preservative

Chain of Custody

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Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

L# L905651

Table #

Acctnum: TRCATX

Template:

Prelogin:

TSR: **Chris McCord**

Cooler:

Shipped Via:

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	VOC	DRO	GRO	Short List Metals (Total & Dissolved)	Cations (from "total metals" bottle) L2	Anions	NO2NO3, TDS L2	Long List Metals (Total & Dissolved)	Cyanide 7/2	Rem./Contaminant	Sample # (lab only)
~~NCL-34A~~	Grab	GW					X	X		X	X	X	X				
~~NCL-33~~	Grab	GW					X	X		X	X	X	X				
~~NCL-44~~	Grab	GW					X	X		X	X	X	X				
~~NCL-32~~	Grab	GW					X	X		X	X	X	X				
~~MW-108~~	Grab	GW					X	X		X	X	X	X				
~~NCL-31~~	Grab	GW					X	X		X	X	X	X				
MW-55	Grab	GW		4/27/17	1000	11	X	X	X		X	X	X	X	X		-02
MW-18	Grab	GW		4/27/17	915	11	X	X			X	X	X	X	X		03
~~MW-54A~~	Grab	GW					X	X		X	X	X	X				
~~MW-54B~~	Grab	GW					X	X	X	X	X	X	X				

* Matrix: **SS** - Soil **GW** - Groundwater **WW** - WasteWater **DW** - Drinking Water **OT** - Other_____

pH _____ Temp _____

Flow _____ Other _____

Remarks: **Dissolved metals field-filtered.**

Hold #

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Scott Ude	4/27/17	1500	
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)
			MWL

Samples returned via: ☐ UPS ☑ FedEx ☐ Courier ☐ _____

Temp: 2.6 °C Bottles Received: 38

Date: 4-28-17 Time: 845

Condition: (lab use only)

COC Seal Intact: ✓ Y ___N ___NA

pH Checked: C2,7/2 NCF:

Chain of Custody Page 8 of 28

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

Company Name/Address:	Billing Information:
TRC Solutions - Austin, TX **505 E. Huntland Dr, Ste 250** **Austin, TX 78752**	**Accounts Payable** **21 Griffin Road North** **Windsor, CT 06095**
Report to: Julie Speer	Email To: jspeer@trcwsolutions.com
Project Description: **NCL Spring 2017**	City/State Collected: NM
Phone: 512-684-3170 Fax:	Client Project #
Collected by (print): **Scott Ude/HMI Team**	Site/Facility ID # NCL (Navajo - Artesia)
Collected by (signature): Scott Ude Immediately Packed on Ice N ___ Y ✓	***Rush?*** (Lab MUST Be Notified) ___ Same Day ..... 200% ___ Next Day ..... 100% ___ Two Day ..... 50% ___ Three Day 25%

Lab Project #

P.O. # 107027

Date Results Needed

Email? ___No ✓Yes
FAX? ___No ___Yes

Analysis / Container / Preservative

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	VOC	DRO	GRO	Short List Metals (Total & Dissolved)	Cations (from "total metals" bottle)	Anions	NO2NO3, TDS	Long List Metals (Total & Dissolved)	Cyanide		Rem./Contaminant	Sample # (lab only)
NCL-34A	Grab	GW		4/26/17	1250	3	X	X		X	X	X	X					-04
NCL-33	Grab	GW		4/26/17	1210	3	X	X		X	X	X	X					
NCL-44	Grab	GW		4/26/17	1125	3	X	X		X	X	X	X					
NCL-32	Grab	GW		4/26/17	1035	3	X	X		X	X	X	X					
MW-108	Grab	GW		4/26/17	905	3	X	X		X	X	X	X					
NCL-31	Grab	GW		4/26/17	950	3	X	X		X	X	X	X					
~~MW-55~~	Grab	GW					X	X	X		X	X	X	X	X			
~~MW-18~~	Grab	GW					X	X			X	X	X	X	X			
~~MW-54A~~	Grab	GW					X	X		X	X	X	X					
~~MW-54B~~	Grab	GW					X	X	X	X	X	X	X					

Lab # 1905151
Table #
Acctnum: TRCATX
Template:
Prelogin:
TSR: **Chris McCord**
Cooler:
Shipped Via:

* Matrix: **SS** - Soil **GW** - Groundwater **WW** - WasteWater **DW** - Drinking Water **OT** - Other_____

Remarks: **Dissolved metals field-filtered.**

pH _____ Temp _____
Flow _____ Other _____

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Scott Ude	4/27/17	0800	
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)
			Mark

Samples returned via: ☐ UPS ☑ FedEx ☐ Courier ☐ _____
Temp: 2.6 °C Bottles Received: 38
Date: 4-28-17 Time: 845

Hold #
Condition: (lab use only)
COC Seal Intact: ✓ ___Y ___N ___NA
pH Checked: L2 NCF:

Chain of Custody Page 9 of 28

ESC LABORATORY SCIENCES — YOUR LAB OF CHOICE
12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

L# L905651

Table #

Acctnum: TRCATX

Template:

Prelogin:

TSR: Chris McCord

Cooler:

Shipped Via:

Company Name/Address:
TRC Solutions - Austin, TX
505 E. Huntland Dr, Ste 250
Austin, TX 78752

Billing Information:
Accounts Payable
21 Griffin Road North
Windsor, CT 06095

Report to: Julie Speer

Email To: jspeer@trcwsolutions.com

Project Description: **NCL Spring 2017**

City/State Collected: NM

Phone: 512-684-3170
Fax:

Client Project #

Lab Project #

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

Site/Facility ID #: NCL (Navajo - Artesia)

P.O. # 107027

Collected by (signature): Scott Ude

Immediately Packed on Ice N ___ Y ✓

Rush? (Lab MUST Be Notified)
___ Same Day 200%
___ Next Day 100%
___ Two Day 50%
___ Three Day 25%

Date Results Needed

Email? ___No ✓Yes
FAX? ___No ___Yes

Analysis / Container / Preservative

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	VOC	DRO	GRO	Short List Metals (Total & Dissolved)	Cations (from "total metals" bottle)	Anions	NO2NO3, TDS	Long List Metals (Total & Dissolved)	Cyanide		Rem./Contaminant	Sample # (lab only)
~~DUP-NCL-01~~	Grab	GW					X	X		X	X	X	X					
EB-NCL-01	Grab	GW		4/26/17	1045	0	X	X		X	X	X	X					
~~Trip Blank-NCL-01~~	Grab	GW					X											
	Grab	GW																
	Grab	GW																
	Grab	GW																
	Grab	GW																
	Grab	GW																
	Grab	GW																
	Grab	GW																

* Matrix: **SS** - Soil **GW** - Groundwater **WW** - WasteWater **DW** - Drinking Water **OT** - Other_____

Remarks: **Dissolved metals field-filtered.**

pH _____ Temp _____

Flow _____ Other _____

Hold #

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Scott Ude	4/27/17	0800	
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)
			Mwk

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

Temp: 2-6 °C Bottles Received: 38

Date: 4-28-17 Time: 845

Condition: (lab use only)

COC Seal Intact: ✓ Y ___N ___NA

pH Checked: NCF:

ESC LAB SCIENCES
Cooler Receipt Form

Client: TRCATX	SDG#	L905651
Cooler Received/Opened On: 4/ 28 /17	Temperature:	2.6
Received By: MICHAEL Witherspoon		
Signature:		

Receipt Check List	NP	Yes	No
COC Seal Present / Intact?			
COC Signed / Accurate?			
Bottles arrive intact?			
Correct bottles used?			
Sufficient volume sent?			
If Applicable			
VOA Zero headspace?			
Preservation Correct / Checked?			

ANALYTICAL REPORT

May 12, 2017

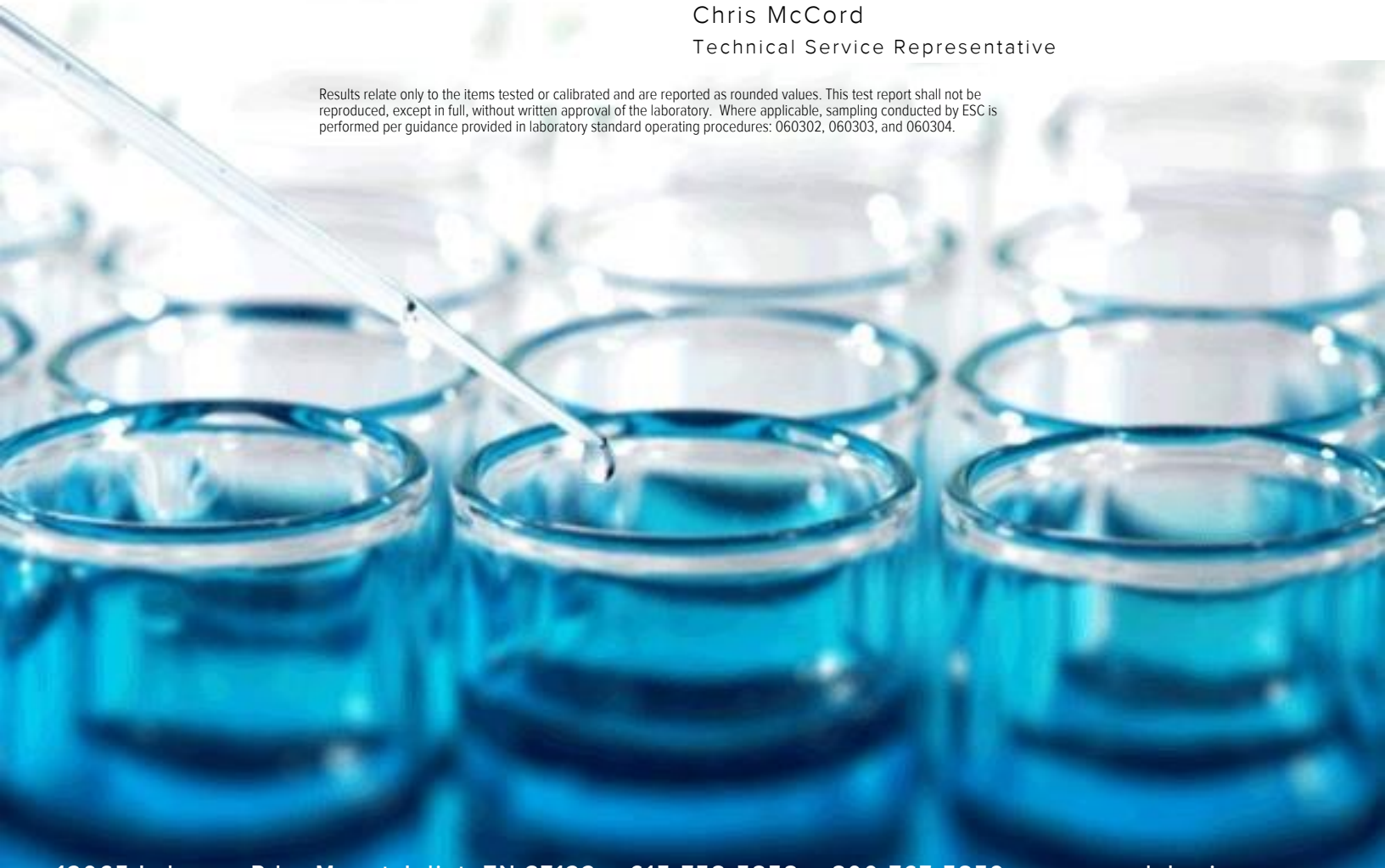
TRC Solutions - Austin, TX

Sample Delivery Group:	L905668
Samples Received:	04/28/2017
Project Number:	249545.0000.0000 000
Description:	REST Spring 2017
Site:	REST - NAVAJO-ARTESIA
Report To:	Julie Speer 505 E. Huntland Dr, Ste 250 Austin, TX 78752

Entire Report Reviewed By:

Chris McCord
Technical Service Representative

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 ESC is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.



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RW-#15C L905668-01 GW

Collected by: Scott Ude-HMI Team
Collected date/time: 04/26/17 10:00
Received date/time: 04/28/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG975503	1	05/03/17 11:01	05/03/17 12:09	MMF
Wet Chemistry by Method 353.2	WG975895	10	05/05/17 10:17	05/05/17 10:17	DR
Wet Chemistry by Method 9056A	WG976555	1	05/04/17 19:39	05/04/17 19:39	SAM
Wet Chemistry by Method 9056A	WG976555	10	05/04/17 19:55	05/04/17 19:55	SAM
Metals (ICPMS) by Method 6020	WG975067	1	05/02/17 18:58	05/03/17 01:52	LAT
Metals (ICPMS) by Method 6020	WG975076	1	05/04/17 08:58	05/04/17 23:02	VSS
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975620	25	05/02/17 03:30	05/02/17 03:30	BMB
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975620	500	05/05/17 18:52	05/05/17 18:52	LRL
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG975550	5	05/01/17 22:59	05/05/17 19:14	TRF

MW-48 L905668-02 GW

Collected by: Scott Ude-HMI Team
Collected date/time: 04/26/17 09:15
Received date/time: 04/28/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG975504	1	05/02/17 13:37	05/02/17 14:23	AS
Wet Chemistry by Method 353.2	WG975895	10	05/05/17 10:18	05/05/17 10:18	DR
Wet Chemistry by Method 9056A	WG976555	1	05/04/17 20:41	05/04/17 20:41	SAM
Wet Chemistry by Method 9056A	WG976555	20	05/04/17 20:56	05/04/17 20:56	SAM
Metals (ICPMS) by Method 6020	WG975067	1	05/02/17 18:58	05/03/17 01:55	LAT
Metals (ICPMS) by Method 6020	WG975076	1	05/04/17 08:58	05/04/17 23:06	VSS
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG975302	50	05/01/17 01:17	05/01/17 01:17	LRL
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975620	1000	05/08/17 15:45	05/08/17 15:45	BMB
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975620	50	05/02/17 03:51	05/02/17 03:51	BMB
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG975550	5	05/01/17 22:59	05/05/17 19:31	TRF

MW-130 L905668-03 GW

Collected by: Scott Ude-HMI Team
Collected date/time: 04/26/17 10:50
Received date/time: 04/28/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG975504	1	05/02/17 13:37	05/02/17 14:23	AS
Wet Chemistry by Method 353.2	WG975895	10	05/05/17 10:19	05/05/17 10:19	DR
Wet Chemistry by Method 9056A	WG976555	1	05/04/17 21:12	05/04/17 21:12	SAM
Wet Chemistry by Method 9056A	WG976555	20	05/04/17 21:27	05/04/17 21:27	SAM
Metals (ICPMS) by Method 6020	WG975067	1	05/02/17 18:58	05/03/17 01:59	LAT
Metals (ICPMS) by Method 6020	WG975076	1	05/04/17 08:58	05/04/17 19:21	VSS
Metals (ICPMS) by Method 6020	WG975076	1	05/04/17 08:58	05/04/17 22:08	VSS
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG975302	1	05/01/17 01:41	05/01/17 01:41	LRL
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975620	1	05/02/17 04:12	05/02/17 04:12	BMB
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG977596	1	05/08/17 18:54	05/09/17 12:26	TRF

KWB-P4 L905668-04 GW

Collected by: Scott Ude-HMI Team
Collected date/time: 04/26/17 08:55
Received date/time: 04/28/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975620	1	05/02/17 04:33	05/02/17 04:33	BMB
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG977596	1	05/08/17 18:54	05/09/17 13:02	TRF

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

MW-134 L905668-05 GW

Collected by: Scott Ude-HMI Team
Collected date/time: 04/26/17 08:45
Received date/time: 04/28/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG975504	1	05/02/17 13:37	05/02/17 14:23	AS
Wet Chemistry by Method 353.2	WG975895	10	05/05/17 10:21	05/05/17 10:21	DR
Wet Chemistry by Method 9056A	WG976555	1	05/04/17 21:43	05/04/17 21:43	SAM
Wet Chemistry by Method 9056A	WG976555	50	05/04/17 21:58	05/04/17 21:58	SAM
Metals (ICPMS) by Method 6020	WG975067	1	05/02/17 18:58	05/03/17 02:02	LAT
Metals (ICPMS) by Method 6020	WG975076	1	05/04/17 08:58	05/04/17 23:09	VSS
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG975302	1	05/01/17 02:05	05/01/17 02:05	LRL
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975620	1	05/02/17 04:55	05/02/17 04:55	BMB
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG977596	1	05/08/17 18:54	05/09/17 13:20	TRF

RA-4798 L905668-06 GW

Collected by: Scott Ude-HMI Team
Collected date/time: 04/26/17 09:25
Received date/time: 04/28/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG975504	1	05/02/17 13:37	05/02/17 14:23	AS
Wet Chemistry by Method 353.2	WG975895	10	05/05/17 10:26	05/05/17 10:26	DR
Wet Chemistry by Method 9056A	WG976555	1	05/04/17 22:13	05/04/17 22:13	SAM
Wet Chemistry by Method 9056A	WG976555	20	05/04/17 22:29	05/04/17 22:29	SAM
Metals (ICPMS) by Method 6020	WG975076	1	05/04/17 08:58	05/04/17 19:53	VSS
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975620	1	05/02/17 05:16	05/02/17 05:16	BMB

RA-4196 L905668-07 GW

Collected by: Scott Ude-HMI Team
Collected date/time: 04/26/17 09:45
Received date/time: 04/28/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG975504	1	05/02/17 13:37	05/02/17 14:23	AS
Wet Chemistry by Method 353.2	WG975895	10	05/05/17 10:27	05/05/17 10:27	DR
Wet Chemistry by Method 9056A	WG976555	1	05/04/17 22:44	05/04/17 22:44	SAM
Wet Chemistry by Method 9056A	WG976555	20	05/04/17 23:00	05/04/17 23:00	SAM
Metals (ICPMS) by Method 6020	WG975076	1	05/04/17 08:58	05/04/17 19:56	VSS
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975620	1	05/02/17 05:37	05/02/17 05:37	BMB

RA-3156 L905668-08 GW

Collected by: Scott Ude-HMI Team
Collected date/time: 04/26/17 10:15
Received date/time: 04/28/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG975504	1	05/02/17 13:37	05/02/17 14:23	AS
Wet Chemistry by Method 353.2	WG975895	10	05/05/17 10:28	05/05/17 10:28	DR
Wet Chemistry by Method 9056A	WG976555	1	05/04/17 23:46	05/04/17 23:46	SAM
Wet Chemistry by Method 9056A	WG976555	20	05/05/17 00:01	05/05/17 00:01	SAM
Metals (ICPMS) by Method 6020	WG975076	1	05/04/17 08:58	05/04/17 20:00	VSS
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975620	1	05/02/17 05:58	05/02/17 05:58	BMB

MW-135 L905668-09 GW

Collected by: Scott Ude-HMI Team
Collected date/time: 04/26/17 16:50
Received date/time: 04/28/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG975504	1	05/02/17 13:37	05/02/17 14:23	AS
Wet Chemistry by Method 353.2	WG975895	10	05/05/17 10:29	05/05/17 10:29	DR
Wet Chemistry by Method 9056A	WG975537	1	05/02/17 12:56	05/02/17 12:56	SAM
Wet Chemistry by Method 9056A	WG975537	100	05/02/17 13:10	05/02/17 13:10	SAM

MW-135 L905668-09 GW

Collected by: Scott Ude-HMI Team
Collected date/time: 04/26/17 16:50
Received date/time: 04/28/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICPMS) by Method 6020	WG975067	1	05/02/17 18:58	05/03/17 02:06	LAT
Metals (ICPMS) by Method 6020	WG975076	1	05/04/17 08:58	05/04/17 23:13	VSS
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG975302	1	05/01/17 02:29	05/01/17 02:29	LRL
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975620	1	05/02/17 06:20	05/02/17 06:20	BMB
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG977596	1	05/08/17 18:54	05/09/17 13:38	TRF

MW-117 L905668-10 GW

Collected by: Scott Ude-HMI Team
Collected date/time: 04/26/17 08:55
Received date/time: 04/28/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG975504	1	05/02/17 13:37	05/02/17 14:23	AS
Wet Chemistry by Method 353.2	WG975895	10	05/05/17 10:30	05/05/17 10:30	DR
Wet Chemistry by Method 9056A	WG975537	1	05/02/17 13:26	05/02/17 13:26	SAM
Wet Chemistry by Method 9056A	WG975537	100	05/02/17 13:41	05/02/17 13:41	SAM
Metals (ICPMS) by Method 6020	WG975067	1	05/02/17 18:58	05/03/17 02:16	LAT
Metals (ICPMS) by Method 6020	WG975076	1	05/04/17 08:58	05/04/17 23:16	VSS
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG975302	1	05/01/17 02:54	05/01/17 02:54	LRL
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975620	1	05/02/17 06:41	05/02/17 06:41	BMB
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG975550	1	05/01/17 22:59	05/05/17 20:41	TRF

MW-118 L905668-11 GW

Collected by: Scott Ude-HMI Team
Collected date/time: 04/26/17 09:40
Received date/time: 04/28/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG975504	1	05/02/17 13:37	05/02/17 14:23	AS
Wet Chemistry by Method 353.2	WG975895	10	05/05/17 10:31	05/05/17 10:31	DR
Wet Chemistry by Method 9056A	WG975537	1	05/02/17 13:57	05/02/17 13:57	SAM
Wet Chemistry by Method 9056A	WG975537	100	05/02/17 14:12	05/02/17 14:12	SAM
Metals (ICPMS) by Method 6020	WG975067	1	05/02/17 18:58	05/03/17 02:20	LAT
Metals (ICPMS) by Method 6020	WG975076	1	05/04/17 08:58	05/04/17 23:20	VSS
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG975302	1	05/01/17 03:18	05/01/17 03:18	LRL
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975620	1	05/02/17 07:01	05/02/17 07:01	BMB
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG975550	1	05/01/17 22:59	05/05/17 20:58	TRF

MW-119 L905668-12 GW

Collected by: Scott Ude-HMI Team
Collected date/time: 04/26/17 10:25
Received date/time: 04/28/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG975504	1	05/02/17 13:37	05/02/17 14:23	AS
Wet Chemistry by Method 353.2	WG975895	10	05/05/17 10:32	05/05/17 10:32	DR
Wet Chemistry by Method 9056A	WG975537	1	05/02/17 14:58	05/02/17 14:58	SAM
Wet Chemistry by Method 9056A	WG975537	100	05/02/17 15:14	05/02/17 15:14	SAM
Metals (ICPMS) by Method 6020	WG975067	1	05/02/17 18:58	05/03/17 02:23	LAT
Metals (ICPMS) by Method 6020	WG975076	1	05/04/17 08:58	05/04/17 23:23	VSS
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG975302	1	05/01/17 03:42	05/01/17 03:42	LRL
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975620	1	05/02/17 07:22	05/02/17 07:22	BMB
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG977596	1	05/08/17 18:54	05/09/17 13:55	TRF

KWB-5 L905668-13 GW

Collected by: Scott Ude-HMI Team
Collected date/time: 04/26/17 16:40
Received date/time: 04/28/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG975505	1	05/02/17 15:24	05/02/17 15:55	MMF
Wet Chemistry by Method 353.2	WG975895	10	05/05/17 10:33	05/05/17 10:33	DR
Wet Chemistry by Method 9056A	WG975537	1	05/02/17 15:29	05/02/17 15:29	SAM
Wet Chemistry by Method 9056A	WG975537	20	05/02/17 15:45	05/02/17 15:45	SAM
Metals (ICPMS) by Method 6020	WG975067	1	05/02/17 18:58	05/03/17 02:27	LAT
Metals (ICPMS) by Method 6020	WG975076	1	05/04/17 08:58	05/04/17 23:27	VSS
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975620	1	05/02/17 07:44	05/02/17 07:44	BMB
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975620	200	05/08/17 16:01	05/08/17 16:01	BMB
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975620	50	05/05/17 18:15	05/05/17 18:15	LRL
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG975550	1	05/01/17 22:59	05/05/17 21:33	TRF

MW-111 L905668-14 GW

Collected by: Scott Ude-HMI Team
Collected date/time: 04/26/17 15:35
Received date/time: 04/28/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG975505	1	05/02/17 15:24	05/02/17 15:55	MMF
Wet Chemistry by Method 353.2	WG975895	10	05/05/17 10:38	05/05/17 10:38	DR
Wet Chemistry by Method 9056A	WG975537	1	05/02/17 16:00	05/02/17 16:00	SAM
Wet Chemistry by Method 9056A	WG975537	20	05/02/17 16:15	05/02/17 16:15	SAM
Metals (ICPMS) by Method 6020	WG975067	1	05/02/17 18:58	05/03/17 02:31	LAT
Metals (ICPMS) by Method 6020	WG975076	1	05/04/17 08:58	05/04/17 23:30	VSS
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG975302	1	05/01/17 04:07	05/01/17 04:07	LRL
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975620	1	05/02/17 08:05	05/02/17 08:05	BMB
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975620	25	05/05/17 18:02	05/05/17 18:02	LRL
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG975550	1	05/01/17 22:59	05/05/17 21:50	TRF

KWB-6 L905668-15 GW

Collected by: Scott Ude-HMI Team
Collected date/time: 04/26/17 14:35
Received date/time: 04/28/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG975505	1	05/02/17 15:24	05/02/17 15:55	MMF
Wet Chemistry by Method 353.2	WG975895	10	05/05/17 10:39	05/05/17 10:39	DR
Wet Chemistry by Method 9056A	WG975537	1	05/02/17 17:02	05/02/17 17:02	SAM
Wet Chemistry by Method 9056A	WG975537	20	05/02/17 17:50	05/02/17 17:50	SAM
Metals (ICPMS) by Method 6020	WG975067	1	05/02/17 18:58	05/03/17 02:34	LAT
Metals (ICPMS) by Method 6020	WG975076	1	05/04/17 08:58	05/04/17 23:34	VSS
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975620	5	05/02/17 08:26	05/02/17 08:26	BMB
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975620	50	05/08/17 16:18	05/08/17 16:18	BMB
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG975550	1	05/01/17 22:59	05/05/17 22:08	TRF

MW-57 L905668-16 GW

Collected by: Scott Ude-HMI Team
Collected date/time: 04/26/17 13:45
Received date/time: 04/28/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG975505	1	05/02/17 15:24	05/02/17 15:55	MMF
Wet Chemistry by Method 353.2	WG975895	10	05/05/17 10:41	05/05/17 10:41	DR
Wet Chemistry by Method 9056A	WG975537	1	05/02/17 18:36	05/02/17 18:36	SAM
Wet Chemistry by Method 9056A	WG975537	100	05/02/17 18:52	05/02/17 18:52	SAM
Metals (ICPMS) by Method 6020	WG975067	1	05/02/17 18:58	05/03/17 02:38	LAT
Metals (ICPMS) by Method 6020	WG975076	1	05/04/17 08:58	05/04/17 23:48	VSS
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG975302	1	05/01/17 04:31	05/01/17 04:31	LRL
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975620	1	05/02/17 08:48	05/02/17 08:48	BMB

MW-57 L905668-16 GW

Collected by: Scott Ude-HMI Team
Collected date/time: 04/26/17 13:45
Received date/time: 04/28/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975620	1	05/05/17 17:36	05/05/17 17:36	LRL
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG977596	1	05/08/17 18:54	05/09/17 14:13	TRF

KWB-12A L905668-17 GW

Collected by: Scott Ude-HMI Team
Collected date/time: 04/26/17 12:10
Received date/time: 04/28/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG975505	1	05/02/17 15:24	05/02/17 15:55	MMF
Wet Chemistry by Method 353.2	WG975895	10	05/05/17 10:42	05/05/17 10:42	DR
Wet Chemistry by Method 4500CN E-2011	WG975005	1	05/01/17 10:39	05/02/17 10:58	DR
Wet Chemistry by Method 9056A	WG975537	1	05/02/17 19:07	05/02/17 19:07	SAM
Wet Chemistry by Method 9056A	WG975537	50	05/02/17 19:23	05/02/17 19:23	SAM
Mercury by Method 7470A	WG974957	1	04/29/17 06:59	05/02/17 15:31	TRB
Mercury by Method 7470A	WG974958	1	04/29/17 06:58	05/02/17 14:37	TRB
Metals (ICPMS) by Method 6020	WG975067	1	05/02/17 18:58	05/03/17 01:34	LAT
Metals (ICPMS) by Method 6020	WG975067	1	05/02/17 18:58	05/03/17 21:31	VSS
Metals (ICPMS) by Method 6020	WG975076	1	05/04/17 08:58	05/04/17 22:22	VSS
Metals (ICPMS) by Method 6020	WG975076	1	05/04/17 08:58	05/05/17 08:39	LAT
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG975302	1	05/01/17 04:56	05/01/17 04:56	LRL
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975620	1	05/02/17 09:09	05/02/17 09:09	BMB
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG977596	1	05/08/17 18:54	05/09/17 14:31	TRF

KWB-12B L905668-18 GW

Collected by: Scott Ude-HMI Team
Collected date/time: 04/26/17 12:50
Received date/time: 04/28/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG975505	1	05/02/17 15:24	05/02/17 15:55	MMF
Wet Chemistry by Method 353.2	WG975896	10	05/03/17 15:29	05/03/17 15:29	DR
Wet Chemistry by Method 4500CN E-2011	WG975005	1	05/01/17 10:39	05/02/17 10:59	DR
Wet Chemistry by Method 9056A	WG975537	1	05/02/17 19:38	05/02/17 19:38	SAM
Wet Chemistry by Method 9056A	WG975537	50	05/02/17 19:53	05/02/17 19:53	SAM
Mercury by Method 7470A	WG974957	1	04/29/17 06:59	05/02/17 15:59	TRB
Mercury by Method 7470A	WG974958	1	04/29/17 06:58	05/02/17 14:39	TRB
Metals (ICPMS) by Method 6020	WG975067	1	05/02/17 18:58	05/03/17 01:38	LAT
Metals (ICPMS) by Method 6020	WG975067	1	05/02/17 18:58	05/03/17 21:34	VSS
Metals (ICPMS) by Method 6020	WG975076	1	05/04/17 08:58	05/04/17 22:25	VSS
Metals (ICPMS) by Method 6020	WG975076	1	05/04/17 08:58	05/05/17 08:42	LAT
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG975303	1	04/30/17 19:57	04/30/17 19:57	LRL
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975620	1	05/02/17 09:30	05/02/17 09:30	BMB
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG975550	1	05/01/17 22:59	05/05/17 23:00	TRF

KWB-13 L905668-19 GW

Collected by: Scott Ude-HMI Team
Collected date/time: 04/26/17 11:20
Received date/time: 04/28/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG975505	1	05/02/17 15:24	05/02/17 15:55	MMF
Wet Chemistry by Method 353.2	WG975896	10	05/03/17 15:30	05/03/17 15:30	DR
Wet Chemistry by Method 4500CN E-2011	WG975005	1	05/01/17 10:39	05/02/17 11:02	DR
Wet Chemistry by Method 9056A	WG975537	1	05/02/17 20:55	05/02/17 20:55	SAM
Wet Chemistry by Method 9056A	WG975537	100	05/02/17 21:10	05/02/17 21:10	SAM
Mercury by Method 7470A	WG974957	1	04/29/17 06:59	05/02/17 16:01	TRB
Mercury by Method 7470A	WG974958	1	04/29/17 06:58	05/02/17 14:41	TRB

KWB-13 L905668-19 GW

Collected by: Scott Ude-HMI Team
Collected date/time: 04/26/17 11:20
Received date/time: 04/28/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICPMS) by Method 6020	WG975067	1	05/02/17 18:58	05/03/17 01:41	LAT
Metals (ICPMS) by Method 6020	WG975067	1	05/02/17 18:58	05/03/17 21:38	VSS
Metals (ICPMS) by Method 6020	WG975076	1	05/04/17 08:58	05/04/17 22:29	VSS
Metals (ICPMS) by Method 6020	WG975076	1	05/04/17 08:58	05/05/17 08:46	LAT
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975620	1	05/02/17 09:51	05/02/17 09:51	BMB
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG977596	1	05/08/17 18:54	05/09/17 14:49	TRF

MW-102 L905668-20 GW

Collected by: Scott Ude-HMI Team
Collected date/time: 04/26/17 09:25
Received date/time: 04/28/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG975505	1	05/02/17 15:24	05/02/17 15:55	MMF
Wet Chemistry by Method 353.2	WG975896	10	05/03/17 15:31	05/03/17 15:31	DR
Wet Chemistry by Method 9056A	WG976223	1	05/04/17 13:42	05/04/17 13:42	KCF
Wet Chemistry by Method 9056A	WG976223	10	05/04/17 14:17	05/04/17 14:17	KCF
Metals (ICPMS) by Method 6020	WG975067	1	05/02/17 18:58	05/03/17 02:41	LAT
Metals (ICPMS) by Method 6020	WG975076	1	05/04/17 08:58	05/04/17 23:51	VSS
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG975303	25	04/30/17 20:20	04/30/17 20:20	LRL
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975620	20	05/02/17 10:12	05/02/17 10:12	BMB
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975620	200	05/05/17 19:05	05/05/17 19:05	LRL
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG975550	5	05/01/17 22:59	05/08/17 16:14	TRF

RW-4 L905668-21 GW

Collected by: Scott Ude-HMI Team
Collected date/time: 04/26/17 13:10
Received date/time: 04/28/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG975505	1	05/02/17 15:24	05/02/17 15:55	MMF
Wet Chemistry by Method 353.2	WG975896	10	05/03/17 15:32	05/03/17 15:32	DR
Wet Chemistry by Method 9056A	WG975537	1	05/02/17 21:57	05/02/17 21:57	SAM
Wet Chemistry by Method 9056A	WG975537	100	05/02/17 22:12	05/02/17 22:12	SAM
Wet Chemistry by Method 9056A	WG976223	5	05/04/17 14:35	05/04/17 14:35	KCF
Metals (ICPMS) by Method 6020	WG975067	1	05/02/17 18:58	05/03/17 01:13	LAT
Metals (ICPMS) by Method 6020	WG975076	1	05/04/17 08:58	05/04/17 23:55	VSS
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975624	5	05/01/17 18:58	05/01/17 18:58	ACG
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG975550	1	05/01/17 22:59	05/05/17 23:52	TRF

MW-99 L905668-22 GW

Collected by: Scott Ude-HMI Team
Collected date/time: 04/26/17 10:20
Received date/time: 04/28/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG975505	1	05/02/17 15:24	05/02/17 15:55	MMF
Wet Chemistry by Method 353.2	WG975896	10	05/03/17 15:33	05/03/17 15:33	DR
Wet Chemistry by Method 9056A	WG975537	1	05/02/17 22:27	05/02/17 22:27	SAM
Wet Chemistry by Method 9056A	WG975537	100	05/02/17 22:43	05/02/17 22:43	SAM
Wet Chemistry by Method 9056A	WG976223	5	05/04/17 14:52	05/04/17 14:52	KCF
Metals (ICPMS) by Method 6020	WG975067	1	05/02/17 18:58	05/03/17 02:45	LAT
Metals (ICPMS) by Method 6020	WG975077	1	05/01/17 21:09	05/02/17 03:03	LAT
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG975303	5	05/07/17 22:37	05/07/17 22:37	LRL
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975624	50	05/01/17 19:20	05/01/17 19:20	ACG
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG975550	1	05/01/17 22:59	05/06/17 00:10	TRF

MW-66 L905668-23 GW

Collected by: Scott Ude-HMI Team
Collected date/time: 04/26/17 11:15
Received date/time: 04/28/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG975506	1	05/02/17 15:36	05/02/17 16:19	AS
Wet Chemistry by Method 353.2	WG975896	1	05/03/17 15:39	05/03/17 15:39	DR
Wet Chemistry by Method 4500CN E-2011	WG975005	1	05/01/17 10:39	05/02/17 11:03	DR
Wet Chemistry by Method 9056A	WG975537	1	05/02/17 22:58	05/02/17 22:58	SAM
Wet Chemistry by Method 9056A	WG975537	100	05/02/17 23:45	05/02/17 23:45	SAM
Mercury by Method 7470A	WG974957	1	04/29/17 06:59	05/02/17 16:54	TRB
Mercury by Method 7470A	WG974958	1	04/29/17 06:58	05/02/17 14:48	TRB
Metals (ICPMS) by Method 6020	WG975067	1	05/02/17 18:58	05/03/17 01:45	LAT
Metals (ICPMS) by Method 6020	WG975067	1	05/02/17 18:58	05/03/17 21:41	VSS
Metals (ICPMS) by Method 6020	WG975077	1	05/01/17 21:09	05/02/17 03:07	LAT
Metals (ICPMS) by Method 6020	WG975077	1	05/01/17 21:09	05/02/17 13:06	JPD
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG975303	1	04/30/17 21:05	04/30/17 21:05	LRL
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975624	50	05/03/17 19:42	05/03/17 19:42	LRL
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG975550	1	05/01/17 22:59	05/06/17 00:27	TRF

MW-28 L905668-24 GW

Collected by: Scott Ude-HMI Team
Collected date/time: 04/26/17 12:10
Received date/time: 04/28/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG975506	1	05/02/17 15:36	05/02/17 16:19	AS
Wet Chemistry by Method 353.2	WG975896	10	05/03/17 15:41	05/03/17 15:41	DR
Wet Chemistry by Method 4500CN E-2011	WG975005	50	05/01/17 10:39	05/02/17 11:05	DR
Wet Chemistry by Method 9056A	WG975537	1	05/03/17 00:00	05/03/17 00:00	SAM
Wet Chemistry by Method 9056A	WG975537	100	05/03/17 00:15	05/03/17 00:15	SAM
Mercury by Method 7470A	WG974957	1	04/29/17 06:59	05/02/17 16:56	TRB
Mercury by Method 7470A	WG974958	1	04/29/17 06:58	05/02/17 14:50	TRB
Metals (ICPMS) by Method 6020	WG975067	1	05/02/17 18:58	05/03/17 01:48	LAT
Metals (ICPMS) by Method 6020	WG975067	2	05/02/17 18:58	05/03/17 21:53	VSS
Metals (ICPMS) by Method 6020	WG975077	1	05/01/17 21:09	05/02/17 03:10	LAT
Metals (ICPMS) by Method 6020	WG975077	1	05/01/17 21:09	05/02/17 13:10	JPD
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG975303	1	05/07/17 22:59	05/07/17 22:59	LRL
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975624	50	05/01/17 20:04	05/01/17 20:04	ACG
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG975551	2	05/01/17 22:59	05/03/17 00:03	TH

MW-107 L905668-25 GW

Collected by: Scott Ude-HMI Team
Collected date/time: 04/26/17 15:10
Received date/time: 04/28/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG975506	1	05/02/17 15:36	05/02/17 16:19	AS
Wet Chemistry by Method 353.2	WG975896	10	05/03/17 15:42	05/03/17 15:42	DR
Wet Chemistry by Method 9056A	WG975537	1	05/03/17 00:31	05/03/17 00:31	SAM
Wet Chemistry by Method 9056A	WG975537	100	05/03/17 00:46	05/03/17 00:46	SAM
Metals (ICPMS) by Method 6020	WG975068	1	05/02/17 20:14	05/05/17 17:43	LAT
Metals (ICPMS) by Method 6020	WG975077	1	05/01/17 21:09	05/02/17 03:14	LAT
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG975303	1	04/30/17 21:49	04/30/17 21:49	LRL
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975624	50	05/03/17 19:55	05/03/17 19:55	LRL
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG975551	1	05/01/17 22:59	05/03/17 00:20	TH

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

MW-128 L905668-26 GW

Collected by: Scott Ude-HMI Team
Collected date/time: 04/26/17 14:10
Received date/time: 04/28/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG975506	1	05/02/17 15:36	05/02/17 16:19	AS
Wet Chemistry by Method 353.2	WG975896	1	05/03/17 15:43	05/03/17 15:43	DR
Wet Chemistry by Method 9056A	WG975537	1	05/03/17 01:02	05/03/17 01:02	SAM
Wet Chemistry by Method 9056A	WG975537	100	05/03/17 01:17	05/03/17 01:17	SAM
Wet Chemistry by Method 9056A	WG976223	5	05/04/17 22:08	05/04/17 22:08	KCF
Metals (ICPMS) by Method 6020	WG975068	1	05/02/17 20:14	05/05/17 17:54	LAT
Metals (ICPMS) by Method 6020	WG975077	1	05/01/17 21:09	05/02/17 03:17	LAT
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG975303	1	04/30/17 22:12	04/30/17 22:12	LRL
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975624	1	05/01/17 20:48	05/01/17 20:48	ACG
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975624	50	05/03/17 20:08	05/03/17 20:08	LRL
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG975551	1	05/01/17 22:59	05/03/17 00:37	TH

MW-125 L905668-27 GW

Collected by: Scott Ude-HMI Team
Collected date/time: 04/26/17 16:00
Received date/time: 04/28/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG975506	1	05/02/17 15:36	05/02/17 16:19	AS
Wet Chemistry by Method 353.2	WG975896	10	05/03/17 15:45	05/03/17 15:45	DR
Wet Chemistry by Method 9056A	WG975537	1	05/03/17 01:32	05/03/17 01:32	SAM
Wet Chemistry by Method 9056A	WG975537	100	05/03/17 01:48	05/03/17 01:48	SAM
Metals (ICPMS) by Method 6020	WG975068	1	05/02/17 20:14	05/05/17 17:57	LAT
Metals (ICPMS) by Method 6020	WG975077	1	05/01/17 21:09	05/02/17 03:21	LAT
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG975303	1	04/30/17 22:34	04/30/17 22:34	LRL
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975624	1	05/01/17 21:10	05/01/17 21:10	ACG
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975624	1	05/03/17 20:21	05/03/17 20:21	LRL
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG975551	1	05/01/17 22:59	05/03/17 00:54	TH

MW-116 L905668-28 GW

Collected by: Scott Ude-HMI Team
Collected date/time: 04/26/17 16:55
Received date/time: 04/28/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG975506	1	05/02/17 15:36	05/02/17 16:19	AS
Wet Chemistry by Method 353.2	WG975896	10	05/03/17 15:46	05/03/17 15:46	DR
Wet Chemistry by Method 9056A	WG975537	1	05/03/17 02:34	05/03/17 02:34	SAM
Wet Chemistry by Method 9056A	WG975537	100	05/03/17 02:49	05/03/17 02:49	SAM
Metals (ICPMS) by Method 6020	WG975068	1	05/02/17 20:14	05/05/17 18:01	LAT
Metals (ICPMS) by Method 6020	WG975077	1	05/01/17 21:09	05/02/17 03:24	LAT
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG975303	1	04/30/17 22:56	04/30/17 22:56	LRL
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975624	1	05/01/17 21:32	05/01/17 21:32	ACG
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG975551	1	05/01/17 22:59	05/03/17 01:11	TH

MW-105 L905668-29 GW

Collected by: Scott Ude-HMI Team
Collected date/time: 04/26/17 08:25
Received date/time: 04/28/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG975506	1	05/02/17 15:36	05/02/17 16:19	AS
Wet Chemistry by Method 353.2	WG976257	10	05/04/17 15:53	05/04/17 15:53	DR
Wet Chemistry by Method 9056A	WG975912	1	05/03/17 19:07	05/03/17 19:07	SAM
Metals (ICPMS) by Method 6020	WG975068	1	05/02/17 20:14	05/05/17 18:04	LAT
Metals (ICPMS) by Method 6020	WG975077	1	05/01/17 21:09	05/02/17 03:28	LAT
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG975303	10	05/07/17 23:22	05/07/17 23:22	LRL
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975624	100	05/01/17 21:54	05/01/17 21:54	ACG
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG975551	5	05/01/17 22:59	05/04/17 17:11	TRF

RW-2 L905668-30 GW

Collected by: Scott Ude-HMI Team
Collected date/time: 04/26/17 14:25
Received date/time: 04/28/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG975506	1	05/02/17 15:36	05/02/17 16:19	AS
Wet Chemistry by Method 353.2	WG976257	10	05/04/17 15:55	05/04/17 15:55	DR
Wet Chemistry by Method 9056A	WG975912	1	05/03/17 15:22	05/03/17 15:22	SAM
Wet Chemistry by Method 9056A	WG975912	50	05/03/17 15:37	05/03/17 15:37	SAM
Metals (ICPMS) by Method 6020	WG975068	1	05/02/17 20:14	05/05/17 18:08	LAT
Metals (ICPMS) by Method 6020	WG975077	1	05/01/17 21:09	05/02/17 03:31	LAT
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG975303	50	04/30/17 23:41	04/30/17 23:41	LRL
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975624	50	05/01/17 22:16	05/01/17 22:16	ACG
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG975551	5	05/01/17 22:59	05/06/17 01:17	DMG

MW-61 L905668-31 GW

Collected by: Scott Ude-HMI Team
Collected date/time: 04/26/17 09:35
Received date/time: 04/28/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG975506	1	05/02/17 15:36	05/02/17 16:19	AS
Wet Chemistry by Method 353.2	WG976257	10	05/04/17 15:56	05/04/17 15:56	DR
Wet Chemistry by Method 9056A	WG975912	1	05/03/17 15:53	05/03/17 15:53	SAM
Wet Chemistry by Method 9056A	WG975912	50	05/03/17 16:08	05/03/17 16:08	SAM
Metals (ICPMS) by Method 6020	WG975068	1	05/02/17 20:14	05/05/17 18:11	LAT
Metals (ICPMS) by Method 6020	WG975077	1	05/01/17 21:09	05/02/17 03:35	LAT
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG975303	1	05/07/17 23:44	05/07/17 23:44	LRL
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975624	25	05/01/17 22:38	05/01/17 22:38	ACG
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG975551	5	05/01/17 22:59	05/04/17 16:20	TRF

MW-62 L905668-32 GW

Collected by: Scott Ude-HMI Team
Collected date/time: 04/26/17 10:20
Received date/time: 04/28/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG975506	1	05/02/17 15:36	05/02/17 16:19	AS
Wet Chemistry by Method 353.2	WG976257	10	05/04/17 16:02	05/04/17 16:02	DR
Wet Chemistry by Method 9056A	WG975912	1	05/03/17 16:23	05/03/17 16:23	SAM
Wet Chemistry by Method 9056A	WG975912	50	05/03/17 16:39	05/03/17 16:39	SAM
Metals (ICPMS) by Method 6020	WG975068	1	05/02/17 20:14	05/05/17 18:15	LAT
Metals (ICPMS) by Method 6020	WG975077	1	05/01/17 21:09	05/02/17 03:45	LAT
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG975303	1	05/08/17 00:06	05/08/17 00:06	LRL
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975624	50	05/01/17 23:00	05/01/17 23:00	ACG
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG975551	5	05/01/17 22:59	05/06/17 01:51	DMG

MW-93 L905668-33 GW

Collected by: Scott Ude-HMI Team
Collected date/time: 04/26/17 12:15
Received date/time: 04/28/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG975508	1	05/02/17 16:00	05/02/17 16:52	MMF
Wet Chemistry by Method 353.2	WG976257	10	05/04/17 16:03	05/04/17 16:03	DR
Wet Chemistry by Method 9056A	WG975912	1	05/03/17 19:37	05/03/17 19:37	SAM
Wet Chemistry by Method 9056A	WG975912	50	05/03/17 19:53	05/03/17 19:53	SAM
Metals (ICPMS) by Method 6020	WG975068	1	05/02/17 20:14	05/04/17 14:33	LAT
Metals (ICPMS) by Method 6020	WG975068	1	05/02/17 20:14	05/05/17 18:19	LAT
Metals (ICPMS) by Method 6020	WG975077	1	05/01/17 21:09	05/02/17 03:49	LAT
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG975303	1	05/08/17 00:28	05/08/17 00:28	LRL
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975624	25	05/01/17 23:22	05/01/17 23:22	ACG
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG975551	5	05/01/17 22:59	05/04/17 17:28	TRF

MW-23 L905668-34 GW

Collected by: Scott Ude-HMI Team
Collected date/time: 04/26/17 11:15
Received date/time: 04/28/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG975508	1	05/02/17 16:00	05/02/17 16:52	MMF
Wet Chemistry by Method 353.2	WG976257	10	05/04/17 16:04	05/04/17 16:04	DR
Wet Chemistry by Method 9056A	WG975912	1	05/03/17 20:08	05/03/17 20:08	SAM
Wet Chemistry by Method 9056A	WG975912	50	05/03/17 20:24	05/03/17 20:24	SAM
Metals (ICPMS) by Method 6020	WG975068	1	05/02/17 20:14	05/04/17 01:03	LAT
Metals (ICPMS) by Method 6020	WG975068	1	05/02/17 20:14	05/05/17 18:22	LAT
Metals (ICPMS) by Method 6020	WG975077	1	05/01/17 21:09	05/02/17 03:52	LAT
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG975303	5	05/08/17 00:50	05/08/17 00:50	LRL
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975624	1	05/01/17 23:44	05/01/17 23:44	ACG
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975624	100	05/03/17 20:34	05/03/17 20:34	LRL
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG975551	20	05/01/17 22:59	05/04/17 17:45	TRF

MW-39 L905668-35 GW

Collected by: Scott Ude-HMI Team
Collected date/time: 04/26/17 19:20
Received date/time: 04/28/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG975508	1	05/02/17 16:00	05/02/17 16:52	MMF
Wet Chemistry by Method 353.2	WG976257	10	05/04/17 16:05	05/04/17 16:05	DR
Wet Chemistry by Method 9056A	WG975912	1	05/04/17 02:03	05/04/17 02:03	SAM
Wet Chemistry by Method 9056A	WG975912	50	05/04/17 02:18	05/04/17 02:18	SAM
Metals (ICPMS) by Method 6020	WG975068	1	05/02/17 20:14	05/05/17 18:26	LAT
Metals (ICPMS) by Method 6020	WG975077	1	05/01/17 21:09	05/02/17 03:56	LAT
Metals (ICPMS) by Method 6020	WG975077	10	05/01/17 21:09	05/02/17 12:14	JPD
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG975303	1	05/08/17 01:12	05/08/17 01:12	LRL
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975624	10	05/02/17 00:06	05/02/17 00:06	ACG
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG975551	5	05/01/17 22:59	05/06/17 01:01	DMG

MW-41 L905668-36 GW

Collected by: Scott Ude-HMI Team
Collected date/time: 04/26/17 18:25
Received date/time: 04/28/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG975508	1	05/02/17 16:00	05/02/17 16:52	MMF
Wet Chemistry by Method 353.2	WG976257	10	05/04/17 16:06	05/04/17 16:06	DR
Wet Chemistry by Method 9056A	WG975912	1	05/03/17 16:54	05/03/17 16:54	SAM
Wet Chemistry by Method 9056A	WG975912	50	05/03/17 17:10	05/03/17 17:10	SAM
Metals (ICPMS) by Method 6020	WG975068	1	05/02/17 20:14	05/04/17 01:10	LAT
Metals (ICPMS) by Method 6020	WG975068	1	05/02/17 20:14	05/05/17 18:49	LAT
Metals (ICPMS) by Method 6020	WG975077	1	05/01/17 21:09	05/02/17 03:59	LAT
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG975303	1	05/08/17 01:34	05/08/17 01:34	LRL
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975624	1	05/03/17 20:47	05/03/17 20:47	LRL
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG975551	5	05/01/17 22:59	05/06/17 02:07	DMG

MW-42 L905668-37 GW

Collected by: Scott Ude-HMI Team
Collected date/time: 04/26/17 16:25
Received date/time: 04/28/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG975508	1	05/02/17 16:00	05/02/17 16:52	MMF
Wet Chemistry by Method 353.2	WG976257	10	05/04/17 16:08	05/04/17 16:08	DR
Wet Chemistry by Method 9056A	WG975912	1	05/03/17 18:36	05/03/17 18:36	SAM
Wet Chemistry by Method 9056A	WG975912	50	05/03/17 18:51	05/03/17 18:51	SAM
Metals (ICPMS) by Method 6020	WG975068	1	05/02/17 20:14	05/04/17 01:14	LAT
Metals (ICPMS) by Method 6020	WG975068	1	05/02/17 20:14	05/05/17 18:53	LAT

MW-42 L905668-37 GW

Collected by: Scott Ude-HMI Team
Collected date/time: 04/26/17 16:25
Received date/time: 04/28/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICPMS) by Method 6020	WG975077	1	05/01/17 21:09	05/02/17 04:03	LAT
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG975303	1	05/01/17 02:17	05/01/17 02:17	LRL
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975624	1	05/02/17 00:49	05/02/17 00:49	ACG
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG975551	5	05/01/17 22:59	05/04/17 16:54	TRF

MW-29 L905668-38 GW

Collected by: Scott Ude-HMI Team
Collected date/time: 04/26/17 17:25
Received date/time: 04/28/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG975508	1	05/02/17 16:00	05/02/17 16:52	MMF
Wet Chemistry by Method 353.2	WG975897	10	05/04/17 14:05	05/04/17 14:05	DR
Wet Chemistry by Method 9056A	WG975912	1	05/03/17 20:39	05/03/17 20:39	SAM
Wet Chemistry by Method 9056A	WG975912	50	05/03/17 20:54	05/03/17 20:54	SAM
Metals (ICPMS) by Method 6020	WG975068	1	05/02/17 20:14	05/05/17 17:29	LAT
Metals (ICPMS) by Method 6020	WG975077	1	05/01/17 21:09	05/02/17 02:42	LAT
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG975303	1	05/01/17 02:39	05/01/17 02:39	LRL
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975624	1	05/02/17 01:10	05/02/17 01:10	ACG
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG975551	1	05/01/17 22:59	05/03/17 01:27	TH

RW-#16B L905668-39 GW

Collected by: Scott Ude-HMI Team
Collected date/time: 04/26/17 15:25
Received date/time: 04/28/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG975508	1	05/02/17 16:00	05/02/17 16:52	MMF
Wet Chemistry by Method 353.2	WG975897	10	05/04/17 14:07	05/04/17 14:07	DR
Wet Chemistry by Method 9056A	WG975912	1	05/03/17 21:41	05/03/17 21:41	SAM
Wet Chemistry by Method 9056A	WG975912	50	05/03/17 21:56	05/03/17 21:56	SAM
Metals (ICPMS) by Method 6020	WG975068	1	05/02/17 20:14	05/04/17 01:17	LAT
Metals (ICPMS) by Method 6020	WG975068	1	05/02/17 20:14	05/05/17 18:56	LAT
Metals (ICPMS) by Method 6020	WG975077	1	05/01/17 21:09	05/02/17 04:06	LAT
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975624	1	05/02/17 01:32	05/02/17 01:32	ACG
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG975551	1	05/01/17 22:59	05/03/17 01:44	TH

MW-94 L905668-40 GW

Collected by: Scott Ude-HMI Team
Collected date/time: 04/26/17 14:20
Received date/time: 04/28/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG975508	1	05/02/17 16:00	05/02/17 16:52	MMF
Wet Chemistry by Method 353.2	WG975897	10	05/04/17 14:08	05/04/17 14:08	DR
Wet Chemistry by Method 9056A	WG975912	1	05/03/17 22:11	05/03/17 22:11	SAM
Wet Chemistry by Method 9056A	WG975912	50	05/03/17 22:27	05/03/17 22:27	SAM
Wet Chemistry by Method 9056A	WG976618	1	05/05/17 14:16	05/05/17 14:16	KCF
Metals (ICPMS) by Method 6020	WG975068	1	05/02/17 20:14	05/04/17 01:21	LAT
Metals (ICPMS) by Method 6020	WG975068	1	05/02/17 20:14	05/05/17 19:00	LAT
Metals (ICPMS) by Method 6020	WG975077	1	05/01/17 21:09	05/02/17 04:09	LAT
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG975303	1	05/08/17 01:57	05/08/17 01:57	LRL
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975624	25	05/03/17 21:00	05/03/17 21:00	LRL
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG975551	5	05/01/17 22:59	05/04/17 16:37	TRF

MW-67 L905668-41 GW

Collected by: Scott Ude-HMI Team
Collected date/time: 04/26/17 16:15
Received date/time: 04/28/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG975508	1	05/02/17 16:00	05/02/17 16:52	MMF
Wet Chemistry by Method 353.2	WG975897	10	05/04/17 14:09	05/04/17 14:09	DR
Wet Chemistry by Method 4500CN E-2011	WG975005	50	05/01/17 10:39	05/02/17 11:06	DR
Wet Chemistry by Method 9056A	WG975912	1	05/04/17 01:32	05/04/17 01:32	SAM
Wet Chemistry by Method 9056A	WG975912	50	05/04/17 01:47	05/04/17 01:47	SAM
Mercury by Method 7470A	WG974957	1	04/29/17 06:59	05/02/17 16:58	TRB
Mercury by Method 7470A	WG974958	1	04/29/17 06:58	05/02/17 14:53	TRB
Metals (ICPMS) by Method 6020	WG975068	1	05/02/17 20:14	05/03/17 23:46	LAT
Metals (ICPMS) by Method 6020	WG975068	1	05/02/17 20:14	05/05/17 19:03	LAT
Metals (ICPMS) by Method 6020	WG975077	1	05/01/17 21:09	05/02/17 04:13	LAT
Metals (ICPMS) by Method 6020	WG975077	1	05/01/17 21:09	05/02/17 13:14	JPD
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG975304	1	05/09/17 07:15	05/09/17 07:15	LRL
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975625	5	05/03/17 19:04	05/03/17 19:04	LRL
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG975551	5	05/01/17 22:59	05/04/17 16:03	TRF

MW-95 L905668-42 GW

Collected by: Scott Ude-HMI Team
Collected date/time: 04/26/17 17:10
Received date/time: 04/28/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG975508	1	05/02/17 16:00	05/02/17 16:52	MMF
Wet Chemistry by Method 353.2	WG975897	10	05/04/17 14:14	05/04/17 14:14	DR
Wet Chemistry by Method 9056A	WG975912	1	05/03/17 22:42	05/03/17 22:42	SAM
Wet Chemistry by Method 9056A	WG975912	50	05/03/17 22:58	05/03/17 22:58	SAM
Metals (ICPMS) by Method 6020	WG975068	1	05/02/17 20:14	05/04/17 11:28	LAT
Metals (ICPMS) by Method 6020	WG975068	1	05/02/17 20:14	05/05/17 19:07	LAT
Metals (ICPMS) by Method 6020	WG975078	1	05/03/17 06:44	05/04/17 10:54	JPD
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG975304	1	04/30/17 22:13	04/30/17 22:13	LRL
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975625	1	05/02/17 04:49	05/02/17 04:49	ACG
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG975551	5	05/01/17 22:59	05/06/17 02:24	DMG

RW-7 L905668-43 GW

Collected by: Scott Ude-HMI Team
Collected date/time: 04/26/17 13:35
Received date/time: 04/28/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG975509	1	05/02/17 17:18	05/02/17 17:49	MMF
Wet Chemistry by Method 353.2	WG975897	10	05/04/17 14:15	05/04/17 14:15	DR
Wet Chemistry by Method 9056A	WG975912	1	05/03/17 23:29	05/03/17 23:29	SAM
Wet Chemistry by Method 9056A	WG975912	50	05/03/17 23:44	05/03/17 23:44	SAM
Metals (ICPMS) by Method 6020	WG975068	1	05/02/17 20:14	05/04/17 01:28	LAT
Metals (ICPMS) by Method 6020	WG975068	1	05/02/17 20:14	05/05/17 19:10	LAT
Metals (ICPMS) by Method 6020	WG975078	1	05/03/17 06:44	05/04/17 11:08	JPD
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG975304	1	04/30/17 22:35	04/30/17 22:35	LRL
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975625	1	05/02/17 05:11	05/02/17 05:11	ACG
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG975551	1	05/01/17 22:59	05/03/17 02:01	TH

RW-#17A L905668-44 GW

Collected by: Scott Ude-HMI Team
Collected date/time: 04/26/17 17:55
Received date/time: 04/28/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG975509	1	05/02/17 17:18	05/02/17 17:49	MMF
Wet Chemistry by Method 353.2	WG975897	10	05/04/17 14:17	05/04/17 14:17	DR
Wet Chemistry by Method 9056A	WG975912	1	05/04/17 00:30	05/04/17 00:30	SAM

RW-#17A L905668-44 GW

Collected by: Scott Ude-HMI Team
Collected date/time: 04/26/17 17:55
Received date/time: 04/28/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Wet Chemistry by Method 9056A	WG975912	50	05/04/17 00:46	05/04/17 00:46	SAM
Metals (ICPMS) by Method 6020	WG975068	1	05/02/17 20:14	05/04/17 01:31	LAT
Metals (ICPMS) by Method 6020	WG975068	1	05/02/17 20:14	05/05/17 19:13	LAT
Metals (ICPMS) by Method 6020	WG975078	1	05/03/17 06:44	05/04/17 11:12	JPD
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG975304	1	04/30/17 22:57	04/30/17 22:57	LRL
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975625	1	05/02/17 05:33	05/02/17 05:33	ACG
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG975552	1	05/01/17 22:59	05/02/17 12:39	TH

DUP-REST-03 L905668-45 GW

Collected by: Scott Ude-HMI Team
Collected date/time: 04/26/17 12:00
Received date/time: 04/28/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG975509	1	05/02/17 17:18	05/02/17 17:49	MMF
Wet Chemistry by Method 353.2	WG975897	10	05/04/17 14:18	05/04/17 14:18	DR
Wet Chemistry by Method 9056A	WG975914	1	05/03/17 13:17	05/03/17 13:17	KCF
Wet Chemistry by Method 9056A	WG975914	50	05/03/17 13:40	05/03/17 13:40	KCF
Metals (ICPMS) by Method 6020	WG975069	1	05/02/17 18:35	05/02/17 21:09	VSS
Metals (ICPMS) by Method 6020	WG975078	1	05/03/17 06:44	05/04/17 11:30	JPD
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG975304	1	04/30/17 23:20	04/30/17 23:20	LRL
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975625	1	05/02/17 05:56	05/02/17 05:56	ACG
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG975552	1	05/01/17 22:59	05/02/17 16:16	TH

DUP-REST-05 L905668-46 GW

Collected by: Scott Ude-HMI Team
Collected date/time: 04/26/17 08:00
Received date/time: 04/28/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG975509	1	05/02/17 17:18	05/02/17 17:49	MMF
Wet Chemistry by Method 353.2	WG975897	10	05/04/17 14:19	05/04/17 14:19	DR
Wet Chemistry by Method 4500CN E-2011	WG975005	1	05/01/17 10:39	05/02/17 11:07	DR
Wet Chemistry by Method 9056A	WG975914	1	05/03/17 13:28	05/03/17 13:28	KCF
Wet Chemistry by Method 9056A	WG975914	50	05/03/17 13:51	05/03/17 13:51	KCF
Mercury by Method 7470A	WG974957	1	04/29/17 06:59	05/02/17 17:00	TRB
Mercury by Method 7470A	WG974958	1	04/29/17 06:58	05/02/17 14:55	TRB
Metals (ICPMS) by Method 6020	WG975069	1	05/02/17 18:35	05/02/17 22:04	VSS
Metals (ICPMS) by Method 6020	WG975078	1	05/03/17 06:44	05/04/17 11:34	JPD
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG975304	1	04/30/17 23:42	04/30/17 23:42	LRL
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975625	1	05/02/17 06:18	05/02/17 06:18	ACG
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG975552	1	05/01/17 22:59	05/02/17 13:13	TH

EB-REST-03 L905668-47 GW

Collected by: Scott Ude-HMI Team
Collected date/time: 04/26/17 08:55
Received date/time: 04/28/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG975509	1	05/02/17 17:18	05/02/17 17:49	MMF
Wet Chemistry by Method 353.2	WG975897	10	05/04/17 14:20	05/04/17 14:20	DR
Wet Chemistry by Method 9056A	WG975914	1	05/03/17 14:03	05/03/17 14:03	KCF
Metals (ICPMS) by Method 6020	WG975069	1	05/02/17 18:35	05/02/17 22:38	VSS
Metals (ICPMS) by Method 6020	WG975078	1	05/03/17 06:44	05/04/17 11:37	JPD
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG975304	1	05/01/17 00:04	05/01/17 00:04	LRL
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975625	1	05/02/17 06:39	05/02/17 06:39	ACG
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG975552	1	05/01/17 22:59	05/02/17 13:29	TH

EB-REST-05 L905668-48 GW

Collected by: Scott Ude-HMI Team | Collected date/time: 04/26/17 13:05 | Received date/time: 04/28/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG975509	1	05/02/17 17:18	05/02/17 17:49	MMF
Wet Chemistry by Method 353.2	WG975897	10	05/04/17 14:27	05/04/17 14:27	DR
Wet Chemistry by Method 4500CN E-2011	WG975005	1	05/01/17 10:39	05/02/17 11:08	DR
Wet Chemistry by Method 9056A	WG975914	1	05/03/17 14:50	05/03/17 14:50	KCF
Mercury by Method 7470A	WG974957	1	04/29/17 06:59	05/02/17 17:03	TRB
Mercury by Method 7470A	WG974958	1	04/29/17 06:58	05/02/17 14:57	TRB
Metals (ICPMS) by Method 6020	WG975069	1	05/02/17 18:35	05/02/17 22:07	VSS
Metals (ICPMS) by Method 6020	WG975078	1	05/03/17 06:44	05/04/17 11:41	JPD
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG975304	1	05/01/17 00:26	05/01/17 00:26	LRL
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975625	1	05/02/17 07:02	05/02/17 07:02	ACG
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG975552	1	05/01/17 22:59	05/02/17 13:46	TH

TRIP BLANK-REST-02 L905668-49 GW

Collected by: Scott Ude-HMI Team | Collected date/time: 04/26/17 00:00 | Received date/time: 04/28/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975625	1	05/02/17 04:05	05/02/17 04:05	ACG

MW-52 L905668-50 GW

Collected by: Scott Ude-HMI Team | Collected date/time: 04/27/17 08:55 | Received date/time: 04/28/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG975909	1	05/03/17 13:20	05/03/17 14:04	MMF
Wet Chemistry by Method 353.2	WG975897	10	05/04/17 14:28	05/04/17 14:28	ADH
Wet Chemistry by Method 4500CN E-2011	WG975005	1	05/01/17 10:39	05/02/17 11:09	DR
Wet Chemistry by Method 9056A	WG975914	1	05/03/17 15:13	05/03/17 15:13	KCF
Wet Chemistry by Method 9056A	WG975914	20	05/03/17 16:00	05/03/17 16:00	KCF
Wet Chemistry by Method 9056A	WG976618	10	05/05/17 13:36	05/05/17 13:36	KCF
Mercury by Method 7470A	WG974957	1	04/29/17 06:59	05/02/17 17:05	TRB
Mercury by Method 7470A	WG974958	1	04/29/17 06:58	05/02/17 14:59	TRB
Metals (ICPMS) by Method 6020	WG975069	1	05/02/17 18:35	05/02/17 22:11	VSS
Metals (ICPMS) by Method 6020	WG975078	1	05/03/17 06:44	05/04/17 11:45	JPD
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG975304	1	05/01/17 00:49	05/01/17 00:49	LRL
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975625	1	05/02/17 07:24	05/02/17 07:24	ACG
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG975552	1	05/01/17 22:59	05/02/17 14:03	TH

MW-109 L905668-51 GW

Collected by: Scott Ude-HMI Team | Collected date/time: 04/27/17 09:40 | Received date/time: 04/28/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG975909	1	05/03/17 13:20	05/03/17 14:04	MMF
Wet Chemistry by Method 353.2	WG975897	10	05/04/17 14:29	05/04/17 14:29	DR
Wet Chemistry by Method 9056A	WG975914	1	05/03/17 15:25	05/03/17 15:25	KCF
Wet Chemistry by Method 9056A	WG975914	50	05/03/17 16:11	05/03/17 16:11	KCF
Metals (ICPMS) by Method 6020	WG975069	1	05/02/17 18:35	05/02/17 22:41	VSS
Metals (ICPMS) by Method 6020	WG975078	1	05/03/17 06:44	05/04/17 11:48	JPD
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG975304	1	05/09/17 07:37	05/09/17 07:37	LRL
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975625	10	05/02/17 07:47	05/02/17 07:47	ACG
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG975552	1	05/01/17 22:59	05/02/17 14:19	TH

MW-110 L905668-52 GW

Collected by: Scott Ude-HMI Team
Collected date/time: 04/27/17 10:25
Received date/time: 04/28/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG975909	1	05/03/17 13:20	05/03/17 14:04	MMF
Wet Chemistry by Method 353.2	WG975897	10	05/04/17 14:30	05/04/17 14:30	DR
Wet Chemistry by Method 9056A	WG975914	1	05/03/17 15:36	05/03/17 15:36	KCF
Wet Chemistry by Method 9056A	WG975914	20	05/03/17 16:24	05/03/17 16:24	KCF
Metals (ICPMS) by Method 6020	WG975069	1	05/02/17 18:35	05/02/17 22:45	VSS
Metals (ICPMS) by Method 6020	WG975078	1	05/03/17 06:44	05/04/17 11:52	JPD
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG975304	1	05/09/17 08:00	05/09/17 08:00	LRL
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975625	5	05/02/17 08:09	05/02/17 08:09	ACG
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG975552	1	05/01/17 22:59	05/02/17 14:36	TH

RW-12R L905668-53 GW

Collected by: Scott Ude-HMI Team
Collected date/time: 04/27/17 12:30
Received date/time: 04/28/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG975911	1	05/03/17 13:42	05/03/17 14:39	AS
Wet Chemistry by Method 353.2	WG975897	10	05/04/17 14:31	05/04/17 14:31	DR
Wet Chemistry by Method 9056A	WG975914	1	05/03/17 15:48	05/03/17 15:48	KCF
Wet Chemistry by Method 9056A	WG975914	50	05/03/17 16:35	05/03/17 16:35	KCF
Metals (ICPMS) by Method 6020	WG975069	1	05/02/17 18:35	05/02/17 22:48	VSS
Metals (ICPMS) by Method 6020	WG975078	1	05/03/17 06:44	05/04/17 11:55	JPD
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975625	5	05/03/17 19:17	05/03/17 19:17	LRL
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG975552	1	05/01/17 22:59	05/02/17 14:53	TH

MW-113 L905668-54 GW

Collected by: Scott Ude-HMI Team
Collected date/time: 04/27/17 09:10
Received date/time: 04/28/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG975911	1	05/03/17 13:42	05/03/17 14:39	AS
Wet Chemistry by Method 353.2	WG975897	10	05/04/17 14:32	05/04/17 14:32	DR
Wet Chemistry by Method 9056A	WG975914	1	05/03/17 17:10	05/03/17 17:10	KCF
Wet Chemistry by Method 9056A	WG975914	50	05/03/17 18:08	05/03/17 18:08	KCF
Metals (ICPMS) by Method 6020	WG975069	1	05/02/17 18:35	05/02/17 22:52	VSS
Metals (ICPMS) by Method 6020	WG975078	1	05/03/17 06:44	05/04/17 11:58	JPD
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG975304	1	05/01/17 01:56	05/01/17 01:56	LRL
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975625	1	05/02/17 08:53	05/02/17 08:53	ACG
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG975552	1	05/01/17 22:59	05/02/17 15:09	TH

RA-313 L905668-55 GW

Collected by: Scott Ude-HMI Team
Collected date/time: 04/27/17 09:30
Received date/time: 04/28/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG975911	1	05/03/17 13:42	05/03/17 14:39	AS
Wet Chemistry by Method 353.2	WG975897	10	05/04/17 14:33	05/04/17 14:33	DR
Wet Chemistry by Method 9056A	WG975914	1	05/03/17 17:22	05/03/17 17:22	KCF
Wet Chemistry by Method 9056A	WG975914	50	05/03/17 18:20	05/03/17 18:20	KCF
Metals (ICPMS) by Method 6020	WG975078	1	05/03/17 06:44	05/04/17 12:17	JPD
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975625	1	05/02/17 09:15	05/02/17 09:15	ACG

MW-115 L905668-56 GW

Collected by: Scott Ude-HMI Team
Collected date/time: 04/27/17 10:40
Received date/time: 04/28/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG975911	1	05/03/17 13:42	05/03/17 14:39	AS
Wet Chemistry by Method 353.2	WG975897	10	05/04/17 14:34	05/04/17 14:34	DR
Wet Chemistry by Method 9056A	WG975914	1	05/03/17 17:33	05/03/17 17:33	KCF
Wet Chemistry by Method 9056A	WG975914	50	05/03/17 18:32	05/03/17 18:32	KCF
Metals (ICPMS) by Method 6020	WG975069	1	05/02/17 18:35	05/02/17 22:56	VSS
Metals (ICPMS) by Method 6020	WG975078	1	05/03/17 06:44	05/04/17 12:21	JPD
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG975304	1	05/01/17 02:18	05/01/17 02:18	LRL
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975625	1	05/02/17 09:37	05/02/17 09:37	ACG
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG975552	1	05/01/17 22:59	05/02/17 15:26	TH

MW-114 L905668-57 GW

Collected by: Scott Ude-HMI Team
Collected date/time: 04/27/17 11:30
Received date/time: 04/28/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG975911	1	05/03/17 13:42	05/03/17 14:39	AS
Wet Chemistry by Method 353.2	WG975897	10	05/04/17 14:39	05/04/17 14:39	DR
Wet Chemistry by Method 9056A	WG975914	1	05/03/17 17:45	05/03/17 17:45	KCF
Wet Chemistry by Method 9056A	WG975914	50	05/03/17 18:43	05/03/17 18:43	KCF
Metals (ICPMS) by Method 6020	WG975069	1	05/02/17 18:35	05/02/17 22:59	VSS
Metals (ICPMS) by Method 6020	WG975078	1	05/03/17 06:44	05/04/17 12:24	JPD
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG975304	1	05/01/17 02:40	05/01/17 02:40	LRL
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975625	1	05/02/17 09:59	05/02/17 09:59	ACG
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG975552	1	05/01/17 22:59	05/02/17 15:42	TH

MW-126A L905668-58 GW

Collected by: Scott Ude-HMI Team
Collected date/time: 04/27/17 09:20
Received date/time: 04/28/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG975911	1	05/03/17 13:42	05/03/17 14:39	AS
Wet Chemistry by Method 353.2	WG975897	10	05/04/17 14:43	05/04/17 14:43	DR
Wet Chemistry by Method 9056A	WG975914	1	05/03/17 17:57	05/03/17 17:57	KCF
Wet Chemistry by Method 9056A	WG975914	50	05/03/17 18:55	05/03/17 18:55	KCF
Metals (ICPMS) by Method 6020	WG975069	1	05/02/17 18:35	05/02/17 23:03	VSS
Metals (ICPMS) by Method 6020	WG975078	1	05/03/17 06:44	05/04/17 12:28	JPD
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG975304	1	05/01/17 03:02	05/01/17 03:02	LRL
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975625	1	05/02/17 10:20	05/02/17 10:20	ACG
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG975552	1	05/01/17 22:59	05/02/17 20:24	TH

MW-126B L905668-59 GW

Collected by: Scott Ude-HMI Team
Collected date/time: 04/27/17 10:00
Received date/time: 04/28/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG975911	1	05/03/17 13:42	05/03/17 14:39	AS
Wet Chemistry by Method 353.2	WG976256	10	05/04/17 11:26	05/04/17 11:26	DR
Wet Chemistry by Method 9056A	WG975914	1	05/03/17 19:30	05/03/17 19:30	KCF
Wet Chemistry by Method 9056A	WG975914	50	05/03/17 20:52	05/03/17 20:52	KCF
Metals (ICPMS) by Method 6020	WG975069	1	05/02/17 18:35	05/02/17 23:07	VSS
Metals (ICPMS) by Method 6020	WG975078	1	05/03/17 06:44	05/04/17 12:31	JPD
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG975304	1	05/01/17 03:24	05/01/17 03:24	LRL
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975625	1	05/02/17 10:42	05/02/17 10:42	ACG
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG975552	1	05/01/17 22:59	05/02/17 20:41	TH

MW-127 L905668-60 GW

Collected by: Scott Ude-HMI Team
Collected date/time: 04/27/17 10:50
Received date/time: 04/28/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG975911	1	05/03/17 13:42	05/03/17 14:39	AS
Wet Chemistry by Method 353.2	WG976256	10	05/04/17 11:28	05/04/17 11:28	DR
Wet Chemistry by Method 9056A	WG975914	1	05/03/17 19:42	05/03/17 19:42	KCF
Wet Chemistry by Method 9056A	WG975914	20	05/03/17 21:03	05/03/17 21:03	KCF
Metals (ICPMS) by Method 6020	WG975069	1	05/02/17 18:35	05/02/17 23:10	VSS
Metals (ICPMS) by Method 6020	WG975078	1	05/03/17 06:44	05/04/17 12:35	JPD
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG975304	1	05/01/17 03:47	05/01/17 03:47	LRL
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975625	1	05/02/17 11:04	05/02/17 11:04	ACG
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975625	25	05/03/17 19:30	05/03/17 19:30	LRL
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG975552	1	05/01/17 22:59	05/02/17 20:57	TH

MW-129 L905668-61 GW

Collected by: Scott Ude-HMI Team
Collected date/time: 04/27/17 11:40
Received date/time: 04/28/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG975911	1	05/03/17 13:42	05/03/17 14:39	AS
Wet Chemistry by Method 353.2	WG976256	10	05/04/17 11:30	05/04/17 11:30	DR
Wet Chemistry by Method 9056A	WG975914	1	05/03/17 19:53	05/03/17 19:53	KCF
Wet Chemistry by Method 9056A	WG975914	20	05/03/17 21:15	05/03/17 21:15	KCF
Metals (ICPMS) by Method 6020	WG975069	1	05/02/17 18:35	05/02/17 23:25	VSS
Metals (ICPMS) by Method 6020	WG975078	1	05/03/17 06:44	05/04/17 12:38	JPD
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG975304	1	05/01/17 04:09	05/01/17 04:09	LRL
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975483	1	05/02/17 17:38	05/02/17 17:38	GLN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975483	100	05/08/17 00:43	05/08/17 00:43	BMB
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG975552	1	05/01/17 22:59	05/02/17 21:14	TH

MW-131 L905668-62 GW

Collected by: Scott Ude-HMI Team
Collected date/time: 04/27/17 11:10
Received date/time: 04/28/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG975911	1	05/03/17 13:42	05/03/17 14:39	AS
Wet Chemistry by Method 353.2	WG976256	10	05/04/17 11:36	05/04/17 11:36	DR
Wet Chemistry by Method 9056A	WG975914	1	05/03/17 21:50	05/03/17 21:50	KCF
Wet Chemistry by Method 9056A	WG975914	20	05/03/17 20:28	05/03/17 20:28	KCF
Metals (ICPMS) by Method 6020	WG975069	1	05/02/17 18:35	05/02/17 23:29	VSS
Metals (ICPMS) by Method 6020	WG975078	1	05/03/17 06:44	05/04/17 12:42	JPD
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG975304	1	05/01/17 04:31	05/01/17 04:31	LRL
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975483	1	05/02/17 17:59	05/02/17 17:59	LRL
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975483	100	05/08/17 01:06	05/08/17 01:06	BMB
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975483	20	05/03/17 23:07	05/03/17 23:07	JHH
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG975552	1	05/01/17 22:59	05/02/17 21:30	TH

MW-59 L905668-63 GW

Collected by: Scott Ude-HMI Team
Collected date/time: 04/27/17 09:25
Received date/time: 04/28/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG975913	1	05/03/17 14:35	05/03/17 15:37	MMF
Wet Chemistry by Method 353.2	WG976256	10	05/04/17 11:37	05/04/17 11:37	DR
Wet Chemistry by Method 9056A	WG975914	1	05/03/17 22:13	05/03/17 22:13	KCF
Wet Chemistry by Method 9056A	WG975914	50	05/03/17 22:48	05/03/17 22:48	KCF
Wet Chemistry by Method 9056A	WG976618	10	05/05/17 13:46	05/05/17 13:46	KCF
Metals (ICPMS) by Method 6020	WG975069	1	05/02/17 18:35	05/02/17 23:32	VSS

MW-59 L905668-63 GW

Collected by: Scott Ude-HMI Team
Collected date/time: 04/27/17 09:25
Received date/time: 04/28/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICPMS) by Method 6020	WG975082	1	05/03/17 09:29	05/05/17 04:27	LAT
Metals (ICPMS) by Method 6020	WG975082	1	05/03/17 09:29	05/05/17 21:52	VSS
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG975304	1	05/01/17 04:53	05/01/17 04:53	LRL
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975483	1	05/02/17 18:20	05/02/17 18:20	LRL
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975483	1	05/03/17 23:24	05/03/17 23:24	JHH
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG975552	1	05/01/17 22:59	05/02/17 21:47	TH

MW-60 L905668-64 GW

Collected by: Scott Ude-HMI Team
Collected date/time: 04/27/17 10:15
Received date/time: 04/28/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG975913	1	05/03/17 14:35	05/03/17 15:37	MMF
Wet Chemistry by Method 353.2	WG976256	10	05/04/17 11:38	05/04/17 11:38	DR
Wet Chemistry by Method 4500CN E-2011	WG975005	50	05/01/17 10:39	05/02/17 11:10	DR
Wet Chemistry by Method 9056A	WG975914	1	05/03/17 22:25	05/03/17 22:25	KCF
Wet Chemistry by Method 9056A	WG975914	50	05/03/17 23:00	05/03/17 23:00	KCF
Mercury by Method 7470A	WG974957	1	04/29/17 06:59	05/02/17 17:07	TRB
Mercury by Method 7470A	WG974958	1	04/29/17 06:58	05/02/17 15:02	TRB
Metals (ICPMS) by Method 6020	WG975069	1	05/02/17 18:35	05/02/17 22:14	VSS
Metals (ICPMS) by Method 6020	WG975082	1	05/03/17 09:29	05/05/17 04:38	LAT
Metals (ICPMS) by Method 6020	WG975082	1	05/03/17 09:29	05/05/17 21:55	VSS
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG975386	1	05/01/17 16:48	05/01/17 16:48	BMB
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975483	1	05/02/17 18:40	05/02/17 18:40	LRL
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG975552	1	05/01/17 22:59	05/02/17 23:29	TH

RW-10 L905668-65 GW

Collected by: Scott Ude-HMI Team
Collected date/time: 04/27/17 09:55
Received date/time: 04/28/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG975913	1	05/03/17 14:35	05/03/17 15:37	MMF
Wet Chemistry by Method 353.2	WG976256	10	05/04/17 11:39	05/04/17 11:39	DR
Wet Chemistry by Method 9056A	WG975914	1	05/03/17 22:37	05/03/17 22:37	KCF
Wet Chemistry by Method 9056A	WG975914	50	05/03/17 23:12	05/03/17 23:12	KCF
Metals (ICPMS) by Method 6020	WG975069	1	05/02/17 18:35	05/02/17 23:36	VSS
Metals (ICPMS) by Method 6020	WG975082	1	05/03/17 09:29	05/05/17 04:41	LAT
Metals (ICPMS) by Method 6020	WG975082	1	05/03/17 09:29	05/05/17 21:59	VSS
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG975386	1	05/09/17 08:22	05/09/17 08:22	LRL
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975945	1	05/03/17 22:04	05/03/17 22:04	LRL
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG975552	1	05/01/17 22:59	05/02/17 23:46	TH

DUP-REST-01 L905668-66 GW

Collected by: Scott Ude-HMI Team
Collected date/time: 04/27/17 10:00
Received date/time: 04/28/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG975913	1	05/03/17 14:35	05/03/17 15:37	MMF
Wet Chemistry by Method 353.2	WG976256	10	05/04/17 11:40	05/04/17 11:40	DR
Wet Chemistry by Method 9056A	WG975915	1	05/03/17 16:51	05/03/17 16:51	KCF
Wet Chemistry by Method 9056A	WG975915	50	05/03/17 18:35	05/03/17 18:35	KCF
Metals (ICPMS) by Method 6020	WG975069	1	05/02/17 18:35	05/02/17 23:39	VSS
Metals (ICPMS) by Method 6020	WG975082	1	05/03/17 09:29	05/05/17 04:45	LAT
Metals (ICPMS) by Method 6020	WG975082	1	05/03/17 09:29	05/05/17 22:13	VSS
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG975386	1	05/01/17 17:36	05/01/17 17:36	BMB

DUP-REST-01 L905668-66 GW

Collected by: Scott Ude-HMI Team
Collected date/time: 04/27/17 10:00
Received date/time: 04/28/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975808	1	05/03/17 03:11	05/03/17 03:11	LRL
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG975555	1	05/01/17 23:00	05/03/17 05:24	TH

DUP-REST-04 L905668-67 GW

Collected by: Scott Ude-HMI Team
Collected date/time: 04/27/17 08:00
Received date/time: 04/28/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG975913	1	05/03/17 14:35	05/03/17 15:37	MMF
Wet Chemistry by Method 353.2	WG976256	10	05/04/17 11:41	05/04/17 11:41	DR
Wet Chemistry by Method 4500CN E-2011	WG975005	50	05/01/17 10:39	05/02/17 11:13	DR
Wet Chemistry by Method 9056A	WG975915	1	05/03/17 17:08	05/03/17 17:08	KCF
Wet Chemistry by Method 9056A	WG975915	50	05/03/17 18:52	05/03/17 18:52	KCF
Mercury by Method 7470A	WG974957	1	04/29/17 06:59	05/02/17 17:09	TRB
Mercury by Method 7470A	WG974958	1	04/29/17 06:58	05/02/17 15:04	TRB
Metals (ICPMS) by Method 6020	WG975071	1	05/03/17 22:13	05/05/17 03:21	LAT
Metals (ICPMS) by Method 6020	WG975082	1	05/03/17 09:29	05/05/17 04:48	LAT
Metals (ICPMS) by Method 6020	WG975082	1	05/03/17 09:29	05/05/17 22:17	VSS
Metals (ICPMS) by Method 6020	WG976972	1	05/05/17 13:15	05/10/17 11:53	JPD
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG975386	1	05/01/17 18:00	05/01/17 18:00	BMB
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975808	1	05/03/17 03:32	05/03/17 03:32	LRL
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG975555	1	05/01/17 23:00	05/03/17 05:40	TH

EB-REST-01 L905668-68 GW

Collected by: Scott Ude-HMI Team
Collected date/time: 04/27/17 09:35
Received date/time: 04/28/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG975913	1	05/03/17 14:35	05/03/17 15:37	MMF
Wet Chemistry by Method 353.2	WG978963	1	05/11/17 23:07	05/11/17 23:07	ASK
Wet Chemistry by Method 9056A	WG976618	1	05/05/17 13:56	05/05/17 13:56	KCF
Metals (ICPMS) by Method 6020	WG975071	1	05/03/17 22:13	05/05/17 03:25	LAT
Metals (ICPMS) by Method 6020	WG975082	1	05/03/17 09:29	05/05/17 04:52	LAT
Metals (ICPMS) by Method 6020	WG975082	1	05/03/17 09:29	05/05/17 22:20	VSS
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG975386	1	05/01/17 18:24	05/01/17 18:24	BMB
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975808	1	05/03/17 03:53	05/03/17 03:53	LRL
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG975555	1	05/01/17 23:00	05/04/17 22:52	TRF

EB-REST-04 L905668-69 GW

Collected by: Scott Ude-HMI Team
Collected date/time: 04/27/17 10:30
Received date/time: 04/28/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG975913	1	05/03/17 14:35	05/03/17 15:37	MMF
Wet Chemistry by Method 353.2	WG978963	1	05/11/17 22:30	05/11/17 22:30	ASK
Wet Chemistry by Method 4500CN E-2011	WG975491	1	05/01/17 21:47	05/02/17 15:06	DR
Wet Chemistry by Method 9056A	WG975915	1	05/03/17 17:43	05/03/17 17:43	KCF
Mercury by Method 7470A	WG974957	1	04/29/17 06:59	05/02/17 17:16	TRB
Mercury by Method 7470A	WG974958	1	04/29/17 06:58	05/02/17 15:06	TRB
Metals (ICPMS) by Method 6020	WG975071	1	05/03/17 22:13	05/05/17 03:29	LAT
Metals (ICPMS) by Method 6020	WG975082	1	05/03/17 09:29	05/05/17 04:56	RDS
Metals (ICPMS) by Method 6020	WG975082	1	05/03/17 09:29	05/05/17 22:24	VSS
Metals (ICPMS) by Method 6020	WG976972	1	05/05/17 13:15	05/10/17 11:56	JPD
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG975386	1	05/01/17 18:48	05/01/17 18:48	BMB
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975808	1	05/03/17 04:13	05/03/17 04:13	LRL
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG975555	1	05/01/17 23:00	05/03/17 06:14	TH

TRIP BLANK-REST-04 L905668-70 GW

Collected by: Scott Ude-HMI Team
Collected date/time: 04/27/17 00:00
Received date/time: 04/28/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975945	1	05/02/17 18:13	05/02/17 18:13	JHH

TRIP BLANK-REST-03 L905668-72 GW

Collected by: Scott Ude-HMI Team
Collected date/time: 04/27/17 00:00
Received date/time: 04/28/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975945	1	05/02/17 18:36	05/02/17 18:36	JHH

RW-8 L905668-73 GW

Collected by: Scott Ude-HMI Team
Collected date/time: 04/26/17 15:05
Received date/time: 04/28/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG975509	1	05/02/17 17:18	05/02/17 17:49	MMF
Wet Chemistry by Method 353.2	WG976256	10	05/04/17 11:50	05/04/17 11:50	DR
Wet Chemistry by Method 9056A	WG975915	1	05/03/17 18:00	05/03/17 18:00	KCF
Wet Chemistry by Method 9056A	WG975915	20	05/03/17 19:10	05/03/17 19:10	KCF
Metals (ICPMS) by Method 6020	WG975071	1	05/03/17 22:13	05/05/17 03:32	LAT
Metals (ICPMS) by Method 6020	WG975082	1	05/03/17 09:29	05/05/17 04:59	LAT
Metals (ICPMS) by Method 6020	WG975082	1	05/03/17 09:29	05/05/17 22:28	VSS
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975808	1	05/03/17 04:34	05/03/17 04:34	LRL
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975808	20	05/03/17 21:25	05/03/17 21:25	LRL
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG975555	5	05/01/17 23:00	05/06/17 01:34	ADF

MW-101 L905668-74 GW

Collected by: Scott Ude-HMI Team
Collected date/time: 04/27/17 09:45
Received date/time: 04/29/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG975913	1	05/03/17 14:35	05/03/17 15:37	MMF
Wet Chemistry by Method 353.2	WG976256	10	05/04/17 11:51	05/04/17 11:51	DR
Wet Chemistry by Method 9056A	WG975915	1	05/03/17 18:18	05/03/17 18:18	KCF
Wet Chemistry by Method 9056A	WG975915	20	05/03/17 19:27	05/03/17 19:27	KCF
Metals (ICPMS) by Method 6020	WG975340	1	05/02/17 14:58	05/02/17 19:20	VSS
Metals (ICPMS) by Method 6020	WG978287	1	05/10/17 12:38	05/10/17 17:12	VSS
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG975393	1	05/01/17 14:19	05/01/17 14:19	BMB
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975945	1	05/02/17 22:58	05/02/17 22:58	ACG
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG975555	1	05/01/17 23:00	05/03/17 08:13	TH

MW-40 L905668-75 GW

Collected by: Scott Ude-HMI Team
Collected date/time: 04/27/17 12:10
Received date/time: 04/29/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG975913	1	05/03/17 14:35	05/03/17 15:37	MMF
Wet Chemistry by Method 353.2	WG976256	10	05/04/17 11:52	05/04/17 11:52	DR
Wet Chemistry by Method 9056A	WG975915	1	05/03/17 21:47	05/03/17 21:47	KCF
Wet Chemistry by Method 9056A	WG975915	50	05/03/17 22:22	05/03/17 22:22	KCF
Metals (ICPMS) by Method 6020	WG975340	1	05/02/17 14:58	05/02/17 19:23	VSS
Metals (ICPMS) by Method 6020	WG978287	1	05/10/17 12:38	05/10/17 17:16	VSS
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG975393	1	05/01/17 14:40	05/01/17 14:40	BMB
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975945	1	05/03/17 22:17	05/03/17 22:17	LRL
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG975555	1	05/01/17 23:00	05/03/17 08:30	TH

RW-9 L905668-76 GW

Collected by: Scott Ude-HMI Team
Collected date/time: 04/27/17 11:15
Received date/time: 04/29/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Gravimetric Analysis by Method 2540 C-2011	WG975913	1	05/03/17 14:35	05/03/17 15:37	MMF
Wet Chemistry by Method 353.2	WG976256	10	05/04/17 11:53	05/04/17 11:53	DR
Wet Chemistry by Method 9056A	WG975915	1	05/03/17 22:04	05/03/17 22:04	KCF
Wet Chemistry by Method 9056A	WG975915	100	05/03/17 22:39	05/03/17 22:39	KCF
Metals (ICPMS) by Method 6020	WG975340	1	05/02/17 14:58	05/02/17 19:27	VSS
Metals (ICPMS) by Method 6020	WG975340	5	05/02/17 14:58	05/02/17 20:37	VSS
Metals (ICPMS) by Method 6020	WG978287	1	05/10/17 12:38	05/10/17 17:19	VSS
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG975393	1	05/01/17 15:01	05/01/17 15:01	BMB
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975945	1	05/03/17 22:30	05/03/17 22:30	LRL
Volatile Organic Compounds (GC/MS) by Method 8260B	WG975945	5	05/04/17 13:54	05/04/17 13:54	LRL
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG975555	1	05/01/17 23:00	05/03/17 09:04	TH

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
Technical Service Representative

Sample Handling and Receiving

VOC pH outside of method requirement.

ESC Sample ID	Project Sample ID	Method
L905668-35	MW-39	8015D/GRO
L905668-40	MW-94	8015D/GRO

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Dissolved Solids	1610		2.82	10.0	1	05/03/2017 12:09	WG975503

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	0.442	J	0.197	1.00	10	05/05/2017 10:17	WG975895

Sample Narrative:

353.2 L905668-01 WG975895: dilution due to sample matrix

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	409		0.519	10.0	10	05/04/2017 19:55	WG976555
Fluoride	0.774		0.00990	0.100	1	05/04/2017 19:39	WG976555
Sulfate	19.4		0.0774	5.00	1	05/04/2017 19:39	WG976555

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.0274		0.000250	0.00200	1	05/04/2017 23:02	WG975076
Arsenic,Dissolved	0.0306		0.000250	0.00200	1	05/03/2017 01:52	WG975067
Barium	0.885		0.000360	0.00500	1	05/04/2017 23:02	WG975076
Barium,Dissolved	0.896		0.000360	0.00500	1	05/03/2017 01:52	WG975067
Calcium	160		0.0460	1.00	1	05/04/2017 23:02	WG975076
Chromium	U		0.000540	0.00200	1	05/04/2017 23:02	WG975076
Chromium,Dissolved	U		0.000540	0.00200	1	05/03/2017 01:52	WG975067
Iron	0.316		0.0150	0.100	1	05/04/2017 23:02	WG975076
Iron,Dissolved	0.137		0.0150	0.100	1	05/03/2017 01:52	WG975067
Lead	0.0116		0.000240	0.00200	1	05/04/2017 23:02	WG975076
Lead,Dissolved	0.000501	J	0.000240	0.00200	1	05/03/2017 01:52	WG975067
Manganese	0.358		0.000250	0.00500	1	05/04/2017 23:02	WG975076
Manganese,Dissolved	0.376		0.000250	0.00500	1	05/03/2017 01:52	WG975067
Potassium	1.59		0.0370	1.00	1	05/04/2017 23:02	WG975076
Selenium	0.000461	B J	0.000380	0.00200	1	05/04/2017 23:02	WG975076
Selenium,Dissolved	U		0.000380	0.00200	1	05/03/2017 01:52	WG975067
Sodium	269		0.110	1.00	1	05/04/2017 23:02	WG975076

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		0.250	1.25	25	05/02/2017 03:30	WG975620
Benzene	19.1		0.166	0.500	500	05/05/2017 18:52	WG975620
Bromodichloromethane	U		0.00950	0.0250	25	05/02/2017 03:30	WG975620
Bromoform	U		0.0117	0.0250	25	05/02/2017 03:30	WG975620
Bromomethane	U		0.0216	0.125	25	05/02/2017 03:30	WG975620
n-Butylbenzene	0.0168	J	0.00902	0.0250	25	05/02/2017 03:30	WG975620
sec-Butylbenzene	0.0194	J	0.00912	0.0250	25	05/02/2017 03:30	WG975620
Carbon disulfide	U		0.00688	0.0250	25	05/02/2017 03:30	WG975620
Carbon tetrachloride	U		0.00948	0.0250	25	05/02/2017 03:30	WG975620
Chlorobenzene	U		0.00870	0.0250	25	05/02/2017 03:30	WG975620
Chlorodibromomethane	U		0.00818	0.0250	25	05/02/2017 03:30	WG975620
Chloroethane	U		0.0113	0.125	25	05/02/2017 03:30	WG975620
Chloroform	U		0.00810	0.125	25	05/02/2017 03:30	WG975620

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

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloromethane	U		0.00690	0.0625	25	05/02/2017 03:30	WG975620
1,2-Dibromoethane	U		0.00952	0.0250	25	05/02/2017 03:30	WG975620
1,1-Dichloroethane	U		0.00648	0.0250	25	05/02/2017 03:30	WG975620
1,2-Dichloroethane	U		0.00902	0.0250	25	05/02/2017 03:30	WG975620
1,1-Dichloroethene	U		0.00995	0.0250	25	05/02/2017 03:30	WG975620
cis-1,2-Dichloroethene	U		0.00650	0.0250	25	05/02/2017 03:30	WG975620
trans-1,2-Dichloroethene	U		0.00990	0.0250	25	05/02/2017 03:30	WG975620
1,2-Dichloropropane	U		0.00765	0.0250	25	05/02/2017 03:30	WG975620
cis-1,3-Dichloropropene	U		0.0104	0.0250	25	05/02/2017 03:30	WG975620
trans-1,3-Dichloropropene	U		0.0105	0.0250	25	05/02/2017 03:30	WG975620
Ethylbenzene	4.19		0.00960	0.0250	25	05/02/2017 03:30	WG975620
Isopropylbenzene	0.143		0.00815	0.0250	25	05/02/2017 03:30	WG975620
p-Isopropyltoluene	U		0.00875	0.0250	25	05/02/2017 03:30	WG975620
2-Butanone (MEK)	U		0.0982	0.250	25	05/02/2017 03:30	WG975620
2-Hexanone	U		0.0955	0.250	25	05/02/2017 03:30	WG975620
Methylene Chloride	U		0.0250	0.125	25	05/02/2017 03:30	WG975620
4-Methyl-2-pentanone (MIBK)	U		0.0535	0.250	25	05/02/2017 03:30	WG975620
Methyl tert-butyl ether	4.25		0.00918	0.0250	25	05/02/2017 03:30	WG975620
Naphthalene	0.383		0.0250	0.125	25	05/02/2017 03:30	WG975620
n-Propylbenzene	0.296		0.00872	0.0250	25	05/02/2017 03:30	WG975620
Styrene	U		0.00768	0.0250	25	05/02/2017 03:30	WG975620
1,1,1,2-Tetrachloroethane	U		0.00962	0.0250	25	05/02/2017 03:30	WG975620
1,1,2,2-Tetrachloroethane	U		0.00325	0.0250	25	05/02/2017 03:30	WG975620
Tetrachloroethene	U		0.00930	0.0250	25	05/02/2017 03:30	WG975620
Toluene	0.172		0.0103	0.0250	25	05/02/2017 03:30	WG975620
1,1,1-Trichloroethane	U		0.00798	0.0250	25	05/02/2017 03:30	WG975620
1,1,2-Trichloroethane	U		0.00958	0.0250	25	05/02/2017 03:30	WG975620
Trichloroethene	U		0.00995	0.0250	25	05/02/2017 03:30	WG975620
1,2,4-Trimethylbenzene	1.46		0.00932	0.0250	25	05/02/2017 03:30	WG975620
1,3,5-Trimethylbenzene	0.231		0.00968	0.0250	25	05/02/2017 03:30	WG975620
Vinyl chloride	U		0.00648	0.0250	25	05/02/2017 03:30	WG975620
o-Xylene	0.472		0.00852	0.0250	25	05/02/2017 03:30	WG975620
m&p-Xylene	4.92		0.0180	0.0500	25	05/02/2017 03:30	WG975620
Xylenes, Total	5.39		0.0265	0.0750	25	05/02/2017 03:30	WG975620
(S) Toluene-d8	*105*			*80.0-120*		*05/02/2017 03:30*	WG975620
(S) Toluene-d8	*110*			*80.0-120*		*05/05/2017 18:52*	WG975620
(S) Dibromofluoromethane	*106*			*76.0-123*		*05/05/2017 18:52*	WG975620
(S) Dibromofluoromethane	*121*			*76.0-123*		*05/02/2017 03:30*	WG975620
(S) 4-Bromofluorobenzene	*103*			*80.0-120*		*05/02/2017 03:30*	WG975620
(S) 4-Bromofluorobenzene	*133*	J1		*80.0-120*		*05/05/2017 18:52*	WG975620

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	9.74		0.124	0.500	5	05/05/2017 19:14	WG975550
(S) o-Terphenyl	*78.5*			*31.0-160*		*05/05/2017 19:14*	WG975550

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Dissolved Solids	2210		2.82	10.0	1	05/02/2017 14:23	WG975504

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	0.202	J	0.197	1.00	10	05/05/2017 10:18	WG975895

Sample Narrative:

353.2 L905668-02 WG975895: dilution due to sample matrix

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	909		1.04	20.0	20	05/04/2017 20:56	WG976555
Fluoride	1.47		0.00990	0.100	1	05/04/2017 20:41	WG976555
Sulfate	18.2		0.0774	5.00	1	05/04/2017 20:41	WG976555

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.00786		0.000250	0.00200	1	05/04/2017 23:06	WG975076
Arsenic,Dissolved	0.00737		0.000250	0.00200	1	05/03/2017 01:55	WG975067
Barium	2.54		0.000360	0.00500	1	05/04/2017 23:06	WG975076
Barium,Dissolved	2.54		0.000360	0.00500	1	05/03/2017 01:55	WG975067
Calcium	190		0.0460	1.00	1	05/04/2017 23:06	WG975076
Chromium	U		0.000540	0.00200	1	05/04/2017 23:06	WG975076
Chromium,Dissolved	0.000562	J	0.000540	0.00200	1	05/03/2017 01:55	WG975067
Iron	0.0884	J	0.0150	0.100	1	05/04/2017 23:06	WG975076
Iron,Dissolved	U		0.0150	0.100	1	05/03/2017 01:55	WG975067
Lead	0.00150	J	0.000240	0.00200	1	05/04/2017 23:06	WG975076
Lead,Dissolved	0.000434	J	0.000240	0.00200	1	05/03/2017 01:55	WG975067
Manganese	0.210		0.000250	0.00500	1	05/04/2017 23:06	WG975076
Manganese,Dissolved	0.214		0.000250	0.00500	1	05/03/2017 01:55	WG975067
Potassium	1.13		0.0370	1.00	1	05/04/2017 23:06	WG975076
Selenium	0.000838	B J	0.000380	0.00200	1	05/04/2017 23:06	WG975076
Selenium,Dissolved	0.0553		0.000380	0.00200	1	05/03/2017 01:55	WG975067
Sodium	255		0.110	1.00	1	05/04/2017 23:06	WG975076

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	31.5		1.57	5.00	50	05/01/2017 01:17	WG975302
(S) a,a,a-Trifluorotoluene(FID)	*99.8*			*77.0-122*		*05/01/2017 01:17*	WG975302

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		0.500	2.50	50	05/02/2017 03:51	WG975620
Benzene	11.7		0.331	1.00	1000	05/08/2017 15:45	WG975620
Bromodichloromethane	U		0.0190	0.0500	50	05/02/2017 03:51	WG975620
Bromoform	U		0.0234	0.0500	50	05/02/2017 03:51	WG975620
Bromomethane	U		0.0433	0.250	50	05/02/2017 03:51	WG975620
n-Butylbenzene	U		0.0180	0.0500	50	05/02/2017 03:51	WG975620

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		0.0182	0.0500	50	05/02/2017 03:51	WG975620
Carbon disulfide	U		0.0138	0.0500	50	05/02/2017 03:51	WG975620
Carbon tetrachloride	U		0.0190	0.0500	50	05/02/2017 03:51	WG975620
Chlorobenzene	U		0.0174	0.0500	50	05/02/2017 03:51	WG975620
Chlorodibromomethane	U		0.0164	0.0500	50	05/02/2017 03:51	WG975620
Chloroethane	U		0.0226	0.250	50	05/02/2017 03:51	WG975620
Chloroform	U		0.0162	0.250	50	05/02/2017 03:51	WG975620
Chloromethane	U		0.0138	0.125	50	05/02/2017 03:51	WG975620
1,2-Dibromoethane	U		0.0190	0.0500	50	05/02/2017 03:51	WG975620
1,1-Dichloroethane	U		0.0130	0.0500	50	05/02/2017 03:51	WG975620
1,2-Dichloroethane	U		0.0180	0.0500	50	05/02/2017 03:51	WG975620
1,1-Dichloroethene	U		0.0199	0.0500	50	05/02/2017 03:51	WG975620
cis-1,2-Dichloroethene	U		0.0130	0.0500	50	05/02/2017 03:51	WG975620
trans-1,2-Dichloroethene	U		0.0198	0.0500	50	05/02/2017 03:51	WG975620
1,2-Dichloropropane	U		0.0153	0.0500	50	05/02/2017 03:51	WG975620
cis-1,3-Dichloropropene	U		0.0209	0.0500	50	05/02/2017 03:51	WG975620
trans-1,3-Dichloropropene	U		0.0210	0.0500	50	05/02/2017 03:51	WG975620
Ethylbenzene	1.27		0.0192	0.0500	50	05/02/2017 03:51	WG975620
Isopropylbenzene	0.0828		0.0163	0.0500	50	05/02/2017 03:51	WG975620
p-Isopropyltoluene	U		0.0175	0.0500	50	05/02/2017 03:51	WG975620
2-Butanone (MEK)	U		0.196	0.500	50	05/02/2017 03:51	WG975620
2-Hexanone	U		0.191	0.500	50	05/02/2017 03:51	WG975620
Methylene Chloride	U		0.0500	0.250	50	05/02/2017 03:51	WG975620
4-Methyl-2-pentanone (MIBK)	U		0.107	0.500	50	05/02/2017 03:51	WG975620
Methyl tert-butyl ether	0.214		0.0184	0.0500	50	05/02/2017 03:51	WG975620
Naphthalene	0.224	J	0.0500	0.250	50	05/02/2017 03:51	WG975620
n-Propylbenzene	0.144		0.0174	0.0500	50	05/02/2017 03:51	WG975620
Styrene	U		0.0154	0.0500	50	05/02/2017 03:51	WG975620
1,1,1,2-Tetrachloroethane	U		0.0192	0.0500	50	05/02/2017 03:51	WG975620
1,1,2,2-Tetrachloroethane	U		0.00650	0.0500	50	05/02/2017 03:51	WG975620
Tetrachloroethene	U		0.0186	0.0500	50	05/02/2017 03:51	WG975620
Toluene	0.667		0.0206	0.0500	50	05/02/2017 03:51	WG975620
1,1,1-Trichloroethane	U		0.0160	0.0500	50	05/02/2017 03:51	WG975620
1,1,2-Trichloroethane	U		0.0192	0.0500	50	05/02/2017 03:51	WG975620
Trichloroethene	U		0.0199	0.0500	50	05/02/2017 03:51	WG975620
1,2,4-Trimethylbenzene	0.482		0.0186	0.0500	50	05/02/2017 03:51	WG975620
1,3,5-Trimethylbenzene	0.0577		0.0194	0.0500	50	05/02/2017 03:51	WG975620
Vinyl chloride	U		0.0130	0.0500	50	05/02/2017 03:51	WG975620
o-Xylene	0.115		0.0170	0.0500	50	05/02/2017 03:51	WG975620
m&p-Xylene	1.04		0.0360	0.100	50	05/02/2017 03:51	WG975620
Xylenes, Total	1.16		0.0530	0.150	50	05/02/2017 03:51	WG975620
(S) Toluene-d8	*99.2*			*80.0-120*		*05/08/2017 15:45*	WG975620
(S) Toluene-d8	*105*			*80.0-120*		*05/02/2017 03:51*	WG975620
(S) Dibromofluoromethane	*102*			*76.0-123*		*05/08/2017 15:45*	WG975620
(S) Dibromofluoromethane	*106*			*76.0-123*		*05/02/2017 03:51*	WG975620
(S) 4-Bromofluorobenzene	*92.1*			*80.0-120*		*05/08/2017 15:45*	WG975620
(S) 4-Bromofluorobenzene	*103*			*80.0-120*		*05/02/2017 03:51*	WG975620

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	10.6		0.124	0.500	5	05/05/2017 19:31	WG975550
(S) o-Terphenyl	*60.5*			*31.0-160*		*05/05/2017 19:31*	WG975550

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Dissolved Solids	2510		2.82	10.0	1	05/02/2017 14:23	WG975504

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	3.26		0.197	1.00	10	05/05/2017 10:19	WG975895

Sample Narrative:

353.2 L905668-03 WG975895: dilution due to sample matrix

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	266		1.04	20.0	20	05/04/2017 21:27	WG976555
Fluoride	0.778		0.00990	0.100	1	05/04/2017 21:12	WG976555
Sulfate	1020		1.55	100	20	05/04/2017 21:27	WG976555

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.00391		0.000250	0.00200	1	05/04/2017 19:21	WG975076
Arsenic,Dissolved	0.00386		0.000250	0.00200	1	05/03/2017 01:59	WG975067
Barium	0.0198		0.000360	0.00500	1	05/04/2017 19:21	WG975076
Barium,Dissolved	0.0173		0.000360	0.00500	1	05/03/2017 01:59	WG975067
Calcium	263	V	0.0460	1.00	1	05/04/2017 19:21	WG975076
Chromium	U		0.000540	0.00200	1	05/04/2017 19:21	WG975076
Chromium,Dissolved	U		0.000540	0.00200	1	05/03/2017 01:59	WG975067
Iron	0.0756	J	0.0150	0.100	1	05/04/2017 19:21	WG975076
Iron,Dissolved	U		0.0150	0.100	1	05/03/2017 01:59	WG975067
Lead	U		0.000240	0.00200	1	05/04/2017 22:08	WG975076
Lead,Dissolved	U		0.000240	0.00200	1	05/03/2017 01:59	WG975067
Manganese	0.0972		0.000250	0.00500	1	05/04/2017 19:21	WG975076
Manganese,Dissolved	0.0967		0.000250	0.00500	1	05/03/2017 01:59	WG975067
Potassium	0.676	J	0.0370	1.00	1	05/04/2017 19:21	WG975076
Selenium	0.0101		0.000380	0.00200	1	05/04/2017 19:21	WG975076
Selenium,Dissolved	0.0164		0.000380	0.00200	1	05/03/2017 01:59	WG975067
Sodium	290	V	0.110	1.00	1	05/04/2017 19:21	WG975076

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	05/01/2017 01:41	WG975302
(S) a,a,a-Trifluorotoluene(FID)	*100*			*77.0-122*		*05/01/2017 01:41*	WG975302

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		0.0100	0.0500	1	05/02/2017 04:12	WG975620
Benzene	U		0.000331	0.00100	1	05/02/2017 04:12	WG975620
Bromodichloromethane	U		0.000380	0.00100	1	05/02/2017 04:12	WG975620
Bromoform	U		0.000469	0.00100	1	05/02/2017 04:12	WG975620
Bromomethane	U		0.000866	0.00500	1	05/02/2017 04:12	WG975620
n-Butylbenzene	U		0.000361	0.00100	1	05/02/2017 04:12	WG975620

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		0.000365	0.00100	1	05/02/2017 04:12	WG975620
Carbon disulfide	U		0.000275	0.00100	1	05/02/2017 04:12	WG975620
Carbon tetrachloride	U		0.000379	0.00100	1	05/02/2017 04:12	WG975620
Chlorobenzene	U		0.000348	0.00100	1	05/02/2017 04:12	WG975620
Chlorodibromomethane	U		0.000327	0.00100	1	05/02/2017 04:12	WG975620
Chloroethane	U		0.000453	0.00500	1	05/02/2017 04:12	WG975620
Chloroform	U		0.000324	0.00500	1	05/02/2017 04:12	WG975620
Chloromethane	U		0.000276	0.00250	1	05/02/2017 04:12	WG975620
1,2-Dibromoethane	U		0.000381	0.00100	1	05/02/2017 04:12	WG975620
1,1-Dichloroethane	U		0.000259	0.00100	1	05/02/2017 04:12	WG975620
1,2-Dichloroethane	U		0.000361	0.00100	1	05/02/2017 04:12	WG975620
1,1-Dichloroethene	U		0.000398	0.00100	1	05/02/2017 04:12	WG975620
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	05/02/2017 04:12	WG975620
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	05/02/2017 04:12	WG975620
1,2-Dichloropropane	U		0.000306	0.00100	1	05/02/2017 04:12	WG975620
cis-1,3-Dichloropropene	U		0.000418	0.00100	1	05/02/2017 04:12	WG975620
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	05/02/2017 04:12	WG975620
Ethylbenzene	U		0.000384	0.00100	1	05/02/2017 04:12	WG975620
Isopropylbenzene	U		0.000326	0.00100	1	05/02/2017 04:12	WG975620
p-Isopropyltoluene	U		0.000350	0.00100	1	05/02/2017 04:12	WG975620
2-Butanone (MEK)	U		0.00393	0.0100	1	05/02/2017 04:12	WG975620
2-Hexanone	U		0.00382	0.0100	1	05/02/2017 04:12	WG975620
Methylene Chloride	U		0.00100	0.00500	1	05/02/2017 04:12	WG975620
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	05/02/2017 04:12	WG975620
Methyl tert-butyl ether	0.00130		0.000367	0.00100	1	05/02/2017 04:12	WG975620
Naphthalene	U		0.00100	0.00500	1	05/02/2017 04:12	WG975620
n-Propylbenzene	U		0.000349	0.00100	1	05/02/2017 04:12	WG975620
Styrene	U		0.000307	0.00100	1	05/02/2017 04:12	WG975620
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	05/02/2017 04:12	WG975620
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	05/02/2017 04:12	WG975620
Tetrachloroethene	U		0.000372	0.00100	1	05/02/2017 04:12	WG975620
Toluene	U		0.000412	0.00100	1	05/02/2017 04:12	WG975620
1,1,1-Trichloroethane	U		0.000319	0.00100	1	05/02/2017 04:12	WG975620
1,1,2-Trichloroethane	U		0.000383	0.00100	1	05/02/2017 04:12	WG975620
Trichloroethene	U		0.000398	0.00100	1	05/02/2017 04:12	WG975620
1,2,4-Trimethylbenzene	U		0.000373	0.00100	1	05/02/2017 04:12	WG975620
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	05/02/2017 04:12	WG975620
Vinyl chloride	U		0.000259	0.00100	1	05/02/2017 04:12	WG975620
o-Xylene	U		0.000341	0.00100	1	05/02/2017 04:12	WG975620
m&p-Xylene	U		0.000719	0.00200	1	05/02/2017 04:12	WG975620
Xylenes, Total	U		0.00106	0.00300	1	05/02/2017 04:12	WG975620
(S) Toluene-d8	*104*			*80.0-120*		*05/02/2017 04:12*	WG975620
(S) Dibromofluoromethane	*102*			*76.0-123*		*05/02/2017 04:12*	WG975620
(S) 4-Bromofluorobenzene	*102*			*80.0-120*		*05/02/2017 04:12*	WG975620

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	1.08		0.0247	0.100	1	05/09/2017 12:26	WG977596
(S) o-Terphenyl	*63.3*			*31.0-160*		*05/09/2017 12:26*	WG977596

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		0.0100	0.0500	1	05/02/2017 04:33	WG975620
Benzene	U		0.000331	0.00100	1	05/02/2017 04:33	WG975620
Bromodichloromethane	U		0.000380	0.00100	1	05/02/2017 04:33	WG975620
Bromoform	U		0.000469	0.00100	1	05/02/2017 04:33	WG975620
Bromomethane	U		0.000866	0.00500	1	05/02/2017 04:33	WG975620
n-Butylbenzene	U		0.000361	0.00100	1	05/02/2017 04:33	WG975620
sec-Butylbenzene	U		0.000365	0.00100	1	05/02/2017 04:33	WG975620
Carbon disulfide	U		0.000275	0.00100	1	05/02/2017 04:33	WG975620
Carbon tetrachloride	U		0.000379	0.00100	1	05/02/2017 04:33	WG975620
Chlorobenzene	U		0.000348	0.00100	1	05/02/2017 04:33	WG975620
Chlorodibromomethane	U		0.000327	0.00100	1	05/02/2017 04:33	WG975620
Chloroethane	U		0.000453	0.00500	1	05/02/2017 04:33	WG975620
Chloroform	U		0.000324	0.00500	1	05/02/2017 04:33	WG975620
Chloromethane	U		0.000276	0.00250	1	05/02/2017 04:33	WG975620
1,2-Dibromoethane	U		0.000381	0.00100	1	05/02/2017 04:33	WG975620
1,1-Dichloroethane	U		0.000259	0.00100	1	05/02/2017 04:33	WG975620
1,2-Dichloroethane	U		0.000361	0.00100	1	05/02/2017 04:33	WG975620
1,1-Dichloroethene	U		0.000398	0.00100	1	05/02/2017 04:33	WG975620
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	05/02/2017 04:33	WG975620
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	05/02/2017 04:33	WG975620
1,2-Dichloropropane	U		0.000306	0.00100	1	05/02/2017 04:33	WG975620
cis-1,3-Dichloropropene	U		0.000418	0.00100	1	05/02/2017 04:33	WG975620
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	05/02/2017 04:33	WG975620
Ethylbenzene	U		0.000384	0.00100	1	05/02/2017 04:33	WG975620
Isopropylbenzene	U		0.000326	0.00100	1	05/02/2017 04:33	WG975620
p-Isopropyltoluene	U		0.000350	0.00100	1	05/02/2017 04:33	WG975620
2-Butanone (MEK)	U		0.00393	0.0100	1	05/02/2017 04:33	WG975620
2-Hexanone	U		0.00382	0.0100	1	05/02/2017 04:33	WG975620
Methylene Chloride	U		0.00100	0.00500	1	05/02/2017 04:33	WG975620
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	05/02/2017 04:33	WG975620
Methyl tert-butyl ether	U		0.000367	0.00100	1	05/02/2017 04:33	WG975620
Naphthalene	U		0.00100	0.00500	1	05/02/2017 04:33	WG975620
n-Propylbenzene	U		0.000349	0.00100	1	05/02/2017 04:33	WG975620
Styrene	U		0.000307	0.00100	1	05/02/2017 04:33	WG975620
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	05/02/2017 04:33	WG975620
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	05/02/2017 04:33	WG975620
Tetrachloroethene	U		0.000372	0.00100	1	05/02/2017 04:33	WG975620
Toluene	U		0.000412	0.00100	1	05/02/2017 04:33	WG975620
1,1,1-Trichloroethane	U		0.000319	0.00100	1	05/02/2017 04:33	WG975620
1,1,2-Trichloroethane	U		0.000383	0.00100	1	05/02/2017 04:33	WG975620
Trichloroethene	U		0.000398	0.00100	1	05/02/2017 04:33	WG975620
1,2,4-Trimethylbenzene	U		0.000373	0.00100	1	05/02/2017 04:33	WG975620
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	05/02/2017 04:33	WG975620
Vinyl chloride	U		0.000259	0.00100	1	05/02/2017 04:33	WG975620
o-Xylene	U		0.000341	0.00100	1	05/02/2017 04:33	WG975620
m&p-Xylene	U		0.000719	0.00200	1	05/02/2017 04:33	WG975620
Xylenes, Total	U		0.00106	0.00300	1	05/02/2017 04:33	WG975620
(S) Toluene-d8	*104*			*80.0-120*		*05/02/2017 04:33*	WG975620
(S) Dibromofluoromethane	*104*			*76.0-123*		*05/02/2017 04:33*	WG975620
(S) 4-Bromofluorobenzene	*103*			*80.0-120*		*05/02/2017 04:33*	WG975620

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	0.0526	J	0.0247	0.100	1	05/09/2017 13:02	WG977596

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	*59.6*			*31.0-160*		*05/09/2017 13:02*	WG977596

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Dissolved Solids	4140		2.82	10.0	1	05/02/2017 14:23	WG975504

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	3.37		0.197	1.00	10	05/05/2017 10:21	WG975895

Sample Narrative:

353.2 L905668-05 WG975895: dilution due to sample matrix

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	499		2.60	50.0	50	05/04/2017 21:58	WG976555
Fluoride	0.944		0.00990	0.100	1	05/04/2017 21:43	WG976555
Sulfate	2880		3.87	250	50	05/04/2017 21:58	WG976555

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.00453		0.000250	0.00200	1	05/04/2017 23:09	WG975076
Arsenic,Dissolved	0.00441		0.000250	0.00200	1	05/03/2017 02:02	WG975067
Barium	0.00963		0.000360	0.00500	1	05/04/2017 23:09	WG975076
Barium,Dissolved	0.0101		0.000360	0.00500	1	05/03/2017 02:02	WG975067
Calcium	528		0.0460	1.00	1	05/04/2017 23:09	WG975076
Chromium	U		0.000540	0.00200	1	05/04/2017 23:09	WG975076
Chromium,Dissolved	U		0.000540	0.00200	1	05/03/2017 02:02	WG975067
Iron	U		0.0150	0.100	1	05/04/2017 23:09	WG975076
Iron,Dissolved	U		0.0150	0.100	1	05/03/2017 02:02	WG975067
Lead	U		0.000240	0.00200	1	05/04/2017 23:09	WG975076
Lead,Dissolved	0.000467	J	0.000240	0.00200	1	05/03/2017 02:02	WG975067
Manganese	0.00801		0.000250	0.00500	1	05/04/2017 23:09	WG975076
Manganese,Dissolved	0.00881		0.000250	0.00500	1	05/03/2017 02:02	WG975067
Potassium	1.56		0.0370	1.00	1	05/04/2017 23:09	WG975076
Selenium	0.00537		0.000380	0.00200	1	05/04/2017 23:09	WG975076
Selenium,Dissolved	0.0106		0.000380	0.00200	1	05/03/2017 02:02	WG975067
Sodium	247		0.110	1.00	1	05/04/2017 23:09	WG975076

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	05/01/2017 02:05	WG975302
(S) a,a,a-Trifluorotoluene(FID)	*100*			*77.0-122*		*05/01/2017 02:05*	WG975302

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		0.0100	0.0500	1	05/02/2017 04:55	WG975620
Benzene	U		0.000331	0.00100	1	05/02/2017 04:55	WG975620
Bromodichloromethane	U		0.000380	0.00100	1	05/02/2017 04:55	WG975620
Bromoform	U		0.000469	0.00100	1	05/02/2017 04:55	WG975620
Bromomethane	U		0.000866	0.00500	1	05/02/2017 04:55	WG975620
n-Butylbenzene	U		0.000361	0.00100	1	05/02/2017 04:55	WG975620

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		0.000365	0.00100	1	05/02/2017 04:55	WG975620
Carbon disulfide	U		0.000275	0.00100	1	05/02/2017 04:55	WG975620
Carbon tetrachloride	U		0.000379	0.00100	1	05/02/2017 04:55	WG975620
Chlorobenzene	U		0.000348	0.00100	1	05/02/2017 04:55	WG975620
Chlorodibromomethane	U		0.000327	0.00100	1	05/02/2017 04:55	WG975620
Chloroethane	U		0.000453	0.00500	1	05/02/2017 04:55	WG975620
Chloroform	U		0.000324	0.00500	1	05/02/2017 04:55	WG975620
Chloromethane	U		0.000276	0.00250	1	05/02/2017 04:55	WG975620
1,2-Dibromoethane	U		0.000381	0.00100	1	05/02/2017 04:55	WG975620
1,1-Dichloroethane	U		0.000259	0.00100	1	05/02/2017 04:55	WG975620
1,2-Dichloroethane	U		0.000361	0.00100	1	05/02/2017 04:55	WG975620
1,1-Dichloroethene	U		0.000398	0.00100	1	05/02/2017 04:55	WG975620
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	05/02/2017 04:55	WG975620
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	05/02/2017 04:55	WG975620
1,2-Dichloropropane	U		0.000306	0.00100	1	05/02/2017 04:55	WG975620
cis-1,3-Dichloropropene	U		0.000418	0.00100	1	05/02/2017 04:55	WG975620
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	05/02/2017 04:55	WG975620
Ethylbenzene	U		0.000384	0.00100	1	05/02/2017 04:55	WG975620
Isopropylbenzene	U		0.000326	0.00100	1	05/02/2017 04:55	WG975620
p-Isopropyltoluene	U		0.000350	0.00100	1	05/02/2017 04:55	WG975620
2-Butanone (MEK)	U		0.00393	0.0100	1	05/02/2017 04:55	WG975620
2-Hexanone	U		0.00382	0.0100	1	05/02/2017 04:55	WG975620
Methylene Chloride	U		0.00100	0.00500	1	05/02/2017 04:55	WG975620
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	05/02/2017 04:55	WG975620
Methyl tert-butyl ether	U		0.000367	0.00100	1	05/02/2017 04:55	WG975620
Naphthalene	U		0.00100	0.00500	1	05/02/2017 04:55	WG975620
n-Propylbenzene	U		0.000349	0.00100	1	05/02/2017 04:55	WG975620
Styrene	U		0.000307	0.00100	1	05/02/2017 04:55	WG975620
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	05/02/2017 04:55	WG975620
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	05/02/2017 04:55	WG975620
Tetrachloroethene	U		0.000372	0.00100	1	05/02/2017 04:55	WG975620
Toluene	U		0.000412	0.00100	1	05/02/2017 04:55	WG975620
1,1,1-Trichloroethane	U		0.000319	0.00100	1	05/02/2017 04:55	WG975620
1,1,2-Trichloroethane	U		0.000383	0.00100	1	05/02/2017 04:55	WG975620
Trichloroethene	U		0.000398	0.00100	1	05/02/2017 04:55	WG975620
1,2,4-Trimethylbenzene	U		0.000373	0.00100	1	05/02/2017 04:55	WG975620
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	05/02/2017 04:55	WG975620
Vinyl chloride	U		0.000259	0.00100	1	05/02/2017 04:55	WG975620
o-Xylene	U		0.000341	0.00100	1	05/02/2017 04:55	WG975620
m&p-Xylene	U		0.000719	0.00200	1	05/02/2017 04:55	WG975620
Xylenes, Total	U		0.00106	0.00300	1	05/02/2017 04:55	WG975620
(S) Toluene-d8	*104*			*80.0-120*		*05/02/2017 04:55*	WG975620
(S) Dibromofluoromethane	*105*			*76.0-123*		*05/02/2017 04:55*	WG975620
(S) 4-Bromofluorobenzene	*103*			*80.0-120*		*05/02/2017 04:55*	WG975620

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	0.0894	J	0.0247	0.100	1	05/09/2017 13:20	WG977596
(S) o-Terphenyl	*62.8*			*31.0-160*		*05/09/2017 13:20*	WG977596

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Dissolved Solids	1820		2.82	10.0	1	05/02/2017 14:23	WG975504

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	1.55		0.197	1.00	10	05/05/2017 10:26	WG975895

Sample Narrative:

353.2 L905668-06 WG975895: dilution due to sample matrix

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	95.1		0.0519	1.00	1	05/04/2017 22:13	WG976555
Fluoride	0.359		0.00990	0.100	1	05/04/2017 22:13	WG976555
Sulfate	1010		1.55	100	20	05/04/2017 22:29	WG976555

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Calcium	305		0.0460	1.00	1	05/04/2017 19:53	WG975076
Potassium	2.03		0.0370	1.00	1	05/04/2017 19:53	WG975076
Sodium	64.6		0.110	1.00	1	05/04/2017 19:53	WG975076

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		0.0100	0.0500	1	05/02/2017 05:16	WG975620
Benzene	U		0.000331	0.00100	1	05/02/2017 05:16	WG975620
Bromodichloromethane	U		0.000380	0.00100	1	05/02/2017 05:16	WG975620
Bromoform	U		0.000469	0.00100	1	05/02/2017 05:16	WG975620
Bromomethane	U		0.000866	0.00500	1	05/02/2017 05:16	WG975620
n-Butylbenzene	U		0.000361	0.00100	1	05/02/2017 05:16	WG975620
sec-Butylbenzene	U		0.000365	0.00100	1	05/02/2017 05:16	WG975620
Carbon disulfide	U		0.000275	0.00100	1	05/02/2017 05:16	WG975620
Carbon tetrachloride	U		0.000379	0.00100	1	05/02/2017 05:16	WG975620
Chlorobenzene	U		0.000348	0.00100	1	05/02/2017 05:16	WG975620
Chlorodibromomethane	U		0.000327	0.00100	1	05/02/2017 05:16	WG975620
Chloroethane	U		0.000453	0.00500	1	05/02/2017 05:16	WG975620
Chloroform	U		0.000324	0.00500	1	05/02/2017 05:16	WG975620
Chloromethane	U		0.000276	0.00250	1	05/02/2017 05:16	WG975620
1,2-Dibromoethane	U		0.000381	0.00100	1	05/02/2017 05:16	WG975620
1,1-Dichloroethane	U		0.000259	0.00100	1	05/02/2017 05:16	WG975620
1,2-Dichloroethane	0.000793	J	0.000361	0.00100	1	05/02/2017 05:16	WG975620
1,1-Dichloroethene	U		0.000398	0.00100	1	05/02/2017 05:16	WG975620
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	05/02/2017 05:16	WG975620
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	05/02/2017 05:16	WG975620
1,2-Dichloropropane	U		0.000306	0.00100	1	05/02/2017 05:16	WG975620
cis-1,3-Dichloropropene	U		0.000418	0.00100	1	05/02/2017 05:16	WG975620
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	05/02/2017 05:16	WG975620
Ethylbenzene	U		0.000384	0.00100	1	05/02/2017 05:16	WG975620
Isopropylbenzene	U		0.000326	0.00100	1	05/02/2017 05:16	WG975620
p-Isopropyltoluene	U		0.000350	0.00100	1	05/02/2017 05:16	WG975620
2-Butanone (MEK)	U		0.00393	0.0100	1	05/02/2017 05:16	WG975620

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
2-Hexanone	U		0.00382	0.0100	1	05/02/2017 05:16	WG975620
Methylene Chloride	U		0.00100	0.00500	1	05/02/2017 05:16	WG975620
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	05/02/2017 05:16	WG975620
Methyl tert-butyl ether	0.00360		0.000367	0.00100	1	05/02/2017 05:16	WG975620
Naphthalene	U		0.00100	0.00500	1	05/02/2017 05:16	WG975620
n-Propylbenzene	U		0.000349	0.00100	1	05/02/2017 05:16	WG975620
Styrene	U		0.000307	0.00100	1	05/02/2017 05:16	WG975620
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	05/02/2017 05:16	WG975620
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	05/02/2017 05:16	WG975620
Tetrachloroethene	U		0.000372	0.00100	1	05/02/2017 05:16	WG975620
Toluene	U		0.000412	0.00100	1	05/02/2017 05:16	WG975620
1,1,1-Trichloroethane	U		0.000319	0.00100	1	05/02/2017 05:16	WG975620
1,1,2-Trichloroethane	U		0.000383	0.00100	1	05/02/2017 05:16	WG975620
Trichloroethene	U		0.000398	0.00100	1	05/02/2017 05:16	WG975620
1,2,4-Trimethylbenzene	U		0.000373	0.00100	1	05/02/2017 05:16	WG975620
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	05/02/2017 05:16	WG975620
Vinyl chloride	U		0.000259	0.00100	1	05/02/2017 05:16	WG975620
o-Xylene	U		0.000341	0.00100	1	05/02/2017 05:16	WG975620
m&p-Xylene	U		0.000719	0.00200	1	05/02/2017 05:16	WG975620
Xylenes, Total	U		0.00106	0.00300	1	05/02/2017 05:16	WG975620
(S) Toluene-d8	*101*			*80.0-120*		*05/02/2017 05:16*	WG975620
(S) Dibromofluoromethane	*105*			*76.0-123*		*05/02/2017 05:16*	WG975620
(S) 4-Bromofluorobenzene	*102*			*80.0-120*		*05/02/2017 05:16*	WG975620

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Dissolved Solids	2220		2.82	10.0	1	05/02/2017 14:23	WG975504

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	U		0.197	1.00	10	05/05/2017 10:27	WG975895

Sample Narrative:

353.2 L905668-07 WG975895: dilution due to sample matrix

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	142		1.04	20.0	20	05/04/2017 23:00	WG976555
Fluoride	0.309		0.00990	0.100	1	05/04/2017 22:44	WG976555
Sulfate	1250		1.55	100	20	05/04/2017 23:00	WG976555

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Calcium	378		0.0460	1.00	1	05/04/2017 19:56	WG975076
Potassium	2.19		0.0370	1.00	1	05/04/2017 19:56	WG975076
Sodium	91.1		0.110	1.00	1	05/04/2017 19:56	WG975076

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		0.0100	0.0500	1	05/02/2017 05:37	WG975620
Benzene	U		0.000331	0.00100	1	05/02/2017 05:37	WG975620
Bromodichloromethane	U		0.000380	0.00100	1	05/02/2017 05:37	WG975620
Bromoform	U		0.000469	0.00100	1	05/02/2017 05:37	WG975620
Bromomethane	U		0.000866	0.00500	1	05/02/2017 05:37	WG975620
n-Butylbenzene	U		0.000361	0.00100	1	05/02/2017 05:37	WG975620
sec-Butylbenzene	U		0.000365	0.00100	1	05/02/2017 05:37	WG975620
Carbon disulfide	U		0.000275	0.00100	1	05/02/2017 05:37	WG975620
Carbon tetrachloride	U		0.000379	0.00100	1	05/02/2017 05:37	WG975620
Chlorobenzene	U		0.000348	0.00100	1	05/02/2017 05:37	WG975620
Chlorodibromomethane	U		0.000327	0.00100	1	05/02/2017 05:37	WG975620
Chloroethane	U		0.000453	0.00500	1	05/02/2017 05:37	WG975620
Chloroform	U		0.000324	0.00500	1	05/02/2017 05:37	WG975620
Chloromethane	U		0.000276	0.00250	1	05/02/2017 05:37	WG975620
1,2-Dibromoethane	U		0.000381	0.00100	1	05/02/2017 05:37	WG975620
1,1-Dichloroethane	U		0.000259	0.00100	1	05/02/2017 05:37	WG975620
1,2-Dichloroethane	U		0.000361	0.00100	1	05/02/2017 05:37	WG975620
1,1-Dichloroethene	U		0.000398	0.00100	1	05/02/2017 05:37	WG975620
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	05/02/2017 05:37	WG975620
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	05/02/2017 05:37	WG975620
1,2-Dichloropropane	U		0.000306	0.00100	1	05/02/2017 05:37	WG975620
cis-1,3-Dichloropropene	U		0.000418	0.00100	1	05/02/2017 05:37	WG975620
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	05/02/2017 05:37	WG975620
Ethylbenzene	U		0.000384	0.00100	1	05/02/2017 05:37	WG975620
Isopropylbenzene	U		0.000326	0.00100	1	05/02/2017 05:37	WG975620
p-Isopropyltoluene	U		0.000350	0.00100	1	05/02/2017 05:37	WG975620
2-Butanone (MEK)	U		0.00393	0.0100	1	05/02/2017 05:37	WG975620

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
2-Hexanone	U		0.00382	0.0100	1	05/02/2017 05:37	WG975620
Methylene Chloride	U		0.00100	0.00500	1	05/02/2017 05:37	WG975620
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	05/02/2017 05:37	WG975620
Methyl tert-butyl ether	0.00618		0.000367	0.00100	1	05/02/2017 05:37	WG975620
Naphthalene	U		0.00100	0.00500	1	05/02/2017 05:37	WG975620
n-Propylbenzene	U		0.000349	0.00100	1	05/02/2017 05:37	WG975620
Styrene	U		0.000307	0.00100	1	05/02/2017 05:37	WG975620
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	05/02/2017 05:37	WG975620
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	05/02/2017 05:37	WG975620
Tetrachloroethene	U		0.000372	0.00100	1	05/02/2017 05:37	WG975620
Toluene	U		0.000412	0.00100	1	05/02/2017 05:37	WG975620
1,1,1-Trichloroethane	U		0.000319	0.00100	1	05/02/2017 05:37	WG975620
1,1,2-Trichloroethane	U		0.000383	0.00100	1	05/02/2017 05:37	WG975620
Trichloroethene	U		0.000398	0.00100	1	05/02/2017 05:37	WG975620
1,2,4-Trimethylbenzene	U		0.000373	0.00100	1	05/02/2017 05:37	WG975620
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	05/02/2017 05:37	WG975620
Vinyl chloride	U		0.000259	0.00100	1	05/02/2017 05:37	WG975620
o-Xylene	U		0.000341	0.00100	1	05/02/2017 05:37	WG975620
m&p-Xylene	U		0.000719	0.00200	1	05/02/2017 05:37	WG975620
Xylenes, Total	U		0.00106	0.00300	1	05/02/2017 05:37	WG975620
(S) Toluene-d8	*104*			*80.0-120*		*05/02/2017 05:37*	WG975620
(S) Dibromofluoromethane	*102*			*76.0-123*		*05/02/2017 05:37*	WG975620
(S) 4-Bromofluorobenzene	*100*			*80.0-120*		*05/02/2017 05:37*	WG975620

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Dissolved Solids	2400		2.82	10.0	1	05/02/2017 14:23	WG975504

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	0.330	J	0.197	1.00	10	05/05/2017 10:28	WG975895

Sample Narrative:

353.2 L905668-08 WG975895: dilution due to sample matrix

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	568		1.04	20.0	20	05/05/2017 00:01	WG976555
Fluoride	0.668		0.00990	0.100	1	05/04/2017 23:46	WG976555
Sulfate	1080		1.55	100	20	05/05/2017 00:01	WG976555

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Calcium	337		0.0460	1.00	1	05/04/2017 20:00	WG975076
Potassium	2.41		0.0370	1.00	1	05/04/2017 20:00	WG975076
Sodium	292		0.110	1.00	1	05/04/2017 20:00	WG975076

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		0.0100	0.0500	1	05/02/2017 05:58	WG975620
Benzene	U		0.000331	0.00100	1	05/02/2017 05:58	WG975620
Bromodichloromethane	U		0.000380	0.00100	1	05/02/2017 05:58	WG975620
Bromoform	U		0.000469	0.00100	1	05/02/2017 05:58	WG975620
Bromomethane	U		0.000866	0.00500	1	05/02/2017 05:58	WG975620
n-Butylbenzene	U		0.000361	0.00100	1	05/02/2017 05:58	WG975620
sec-Butylbenzene	U		0.000365	0.00100	1	05/02/2017 05:58	WG975620
Carbon disulfide	U		0.000275	0.00100	1	05/02/2017 05:58	WG975620
Carbon tetrachloride	U		0.000379	0.00100	1	05/02/2017 05:58	WG975620
Chlorobenzene	U		0.000348	0.00100	1	05/02/2017 05:58	WG975620
Chlorodibromomethane	U		0.000327	0.00100	1	05/02/2017 05:58	WG975620
Chloroethane	U		0.000453	0.00500	1	05/02/2017 05:58	WG975620
Chloroform	U		0.000324	0.00500	1	05/02/2017 05:58	WG975620
Chloromethane	U		0.000276	0.00250	1	05/02/2017 05:58	WG975620
1,2-Dibromoethane	U		0.000381	0.00100	1	05/02/2017 05:58	WG975620
1,1-Dichloroethane	U		0.000259	0.00100	1	05/02/2017 05:58	WG975620
1,2-Dichloroethane	U		0.000361	0.00100	1	05/02/2017 05:58	WG975620
1,1-Dichloroethene	U		0.000398	0.00100	1	05/02/2017 05:58	WG975620
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	05/02/2017 05:58	WG975620
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	05/02/2017 05:58	WG975620
1,2-Dichloropropane	U		0.000306	0.00100	1	05/02/2017 05:58	WG975620
cis-1,3-Dichloropropene	U		0.000418	0.00100	1	05/02/2017 05:58	WG975620
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	05/02/2017 05:58	WG975620
Ethylbenzene	U		0.000384	0.00100	1	05/02/2017 05:58	WG975620
Isopropylbenzene	U		0.000326	0.00100	1	05/02/2017 05:58	WG975620
p-Isopropyltoluene	U		0.000350	0.00100	1	05/02/2017 05:58	WG975620
2-Butanone (MEK)	U		0.00393	0.0100	1	05/02/2017 05:58	WG975620

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
2-Hexanone	U		0.00382	0.0100	1	05/02/2017 05:58	WG975620
Methylene Chloride	U		0.00100	0.00500	1	05/02/2017 05:58	WG975620
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	05/02/2017 05:58	WG975620
Methyl tert-butyl ether	U		0.000367	0.00100	1	05/02/2017 05:58	WG975620
Naphthalene	U		0.00100	0.00500	1	05/02/2017 05:58	WG975620
n-Propylbenzene	U		0.000349	0.00100	1	05/02/2017 05:58	WG975620
Styrene	U		0.000307	0.00100	1	05/02/2017 05:58	WG975620
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	05/02/2017 05:58	WG975620
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	05/02/2017 05:58	WG975620
Tetrachloroethene	U		0.000372	0.00100	1	05/02/2017 05:58	WG975620
Toluene	U		0.000412	0.00100	1	05/02/2017 05:58	WG975620
1,1,1-Trichloroethane	U		0.000319	0.00100	1	05/02/2017 05:58	WG975620
1,1,2-Trichloroethane	U		0.000383	0.00100	1	05/02/2017 05:58	WG975620
Trichloroethene	U		0.000398	0.00100	1	05/02/2017 05:58	WG975620
1,2,4-Trimethylbenzene	U		0.000373	0.00100	1	05/02/2017 05:58	WG975620
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	05/02/2017 05:58	WG975620
Vinyl chloride	U		0.000259	0.00100	1	05/02/2017 05:58	WG975620
o-Xylene	U		0.000341	0.00100	1	05/02/2017 05:58	WG975620
m&p-Xylene	U		0.000719	0.00200	1	05/02/2017 05:58	WG975620
Xylenes, Total	U		0.00106	0.00300	1	05/02/2017 05:58	WG975620
(S) Toluene-d8	*104*			*80.0-120*		*05/02/2017 05:58*	WG975620
(S) Dibromofluoromethane	*105*			*76.0-123*		*05/02/2017 05:58*	WG975620
(S) 4-Bromofluorobenzene	*105*			*80.0-120*		*05/02/2017 05:58*	WG975620

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Dissolved Solids	5050		2.82	10.0	1	05/02/2017 14:23	WG975504

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	63.3		0.197	1.00	10	05/05/2017 10:29	WG975895

Sample Narrative:

353.2 L905668-09 WG975895: dilution due to sample matrix

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	1200		5.19	100	100	05/02/2017 13:10	WG975537
Fluoride	1.23		0.00990	0.100	1	05/02/2017 12:56	WG975537
Sulfate	2900		7.74	500	100	05/02/2017 13:10	WG975537

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.00324		0.000250	0.00200	1	05/04/2017 23:13	WG975076
Arsenic,Dissolved	0.00300		0.000250	0.00200	1	05/03/2017 02:06	WG975067
Barium	0.0221		0.000360	0.00500	1	05/04/2017 23:13	WG975076
Barium,Dissolved	0.00994		0.000360	0.00500	1	05/03/2017 02:06	WG975067
Calcium	608		0.0460	1.00	1	05/04/2017 23:13	WG975076
Chromium	U		0.000540	0.00200	1	05/04/2017 23:13	WG975076
Chromium,Dissolved	0.000633	J	0.000540	0.00200	1	05/03/2017 02:06	WG975067
Iron	0.339		0.0150	0.100	1	05/04/2017 23:13	WG975076
Iron,Dissolved	U		0.0150	0.100	1	05/03/2017 02:06	WG975067
Lead	0.000499	J	0.000240	0.00200	1	05/04/2017 23:13	WG975076
Lead,Dissolved	0.000270	J	0.000240	0.00200	1	05/03/2017 02:06	WG975067
Manganese	0.0187		0.000250	0.00500	1	05/04/2017 23:13	WG975076
Manganese,Dissolved	0.000848	B J	0.000250	0.00500	1	05/03/2017 02:06	WG975067
Potassium	0.979	J	0.0370	1.00	1	05/04/2017 23:13	WG975076
Selenium	0.0361		0.000380	0.00200	1	05/04/2017 23:13	WG975076
Selenium,Dissolved	0.0402		0.000380	0.00200	1	05/03/2017 02:06	WG975067
Sodium	626		0.110	1.00	1	05/04/2017 23:13	WG975076

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	05/01/2017 02:29	WG975302
(S) a,a,a-Trifluorotoluene(FID)	*100*			*77.0-122*		*05/01/2017 02:29*	WG975302

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		0.0100	0.0500	1	05/02/2017 06:20	WG975620
Benzene	U		0.000331	0.00100	1	05/02/2017 06:20	WG975620
Bromodichloromethane	U		0.000380	0.00100	1	05/02/2017 06:20	WG975620
Bromoform	U		0.000469	0.00100	1	05/02/2017 06:20	WG975620
Bromomethane	U		0.000866	0.00500	1	05/02/2017 06:20	WG975620
n-Butylbenzene	U		0.000361	0.00100	1	05/02/2017 06:20	WG975620

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		0.000365	0.00100	1	05/02/2017 06:20	WG975620
Carbon disulfide	U		0.000275	0.00100	1	05/02/2017 06:20	WG975620
Carbon tetrachloride	U		0.000379	0.00100	1	05/02/2017 06:20	WG975620
Chlorobenzene	U		0.000348	0.00100	1	05/02/2017 06:20	WG975620
Chlorodibromomethane	U		0.000327	0.00100	1	05/02/2017 06:20	WG975620
Chloroethane	U		0.000453	0.00500	1	05/02/2017 06:20	WG975620
Chloroform	U		0.000324	0.00500	1	05/02/2017 06:20	WG975620
Chloromethane	U		0.000276	0.00250	1	05/02/2017 06:20	WG975620
1,2-Dibromoethane	U		0.000381	0.00100	1	05/02/2017 06:20	WG975620
1,1-Dichloroethane	U		0.000259	0.00100	1	05/02/2017 06:20	WG975620
1,2-Dichloroethane	U		0.000361	0.00100	1	05/02/2017 06:20	WG975620
1,1-Dichloroethene	U		0.000398	0.00100	1	05/02/2017 06:20	WG975620
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	05/02/2017 06:20	WG975620
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	05/02/2017 06:20	WG975620
1,2-Dichloropropane	U		0.000306	0.00100	1	05/02/2017 06:20	WG975620
cis-1,3-Dichloropropene	U		0.000418	0.00100	1	05/02/2017 06:20	WG975620
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	05/02/2017 06:20	WG975620
Ethylbenzene	U		0.000384	0.00100	1	05/02/2017 06:20	WG975620
Isopropylbenzene	U		0.000326	0.00100	1	05/02/2017 06:20	WG975620
p-Isopropyltoluene	U		0.000350	0.00100	1	05/02/2017 06:20	WG975620
2-Butanone (MEK)	U		0.00393	0.0100	1	05/02/2017 06:20	WG975620
2-Hexanone	U		0.00382	0.0100	1	05/02/2017 06:20	WG975620
Methylene Chloride	U		0.00100	0.00500	1	05/02/2017 06:20	WG975620
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	05/02/2017 06:20	WG975620
Methyl tert-butyl ether	U		0.000367	0.00100	1	05/02/2017 06:20	WG975620
Naphthalene	U		0.00100	0.00500	1	05/02/2017 06:20	WG975620
n-Propylbenzene	U		0.000349	0.00100	1	05/02/2017 06:20	WG975620
Styrene	U		0.000307	0.00100	1	05/02/2017 06:20	WG975620
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	05/02/2017 06:20	WG975620
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	05/02/2017 06:20	WG975620
Tetrachloroethene	U		0.000372	0.00100	1	05/02/2017 06:20	WG975620
Toluene	U		0.000412	0.00100	1	05/02/2017 06:20	WG975620
1,1,1-Trichloroethane	U		0.000319	0.00100	1	05/02/2017 06:20	WG975620
1,1,2-Trichloroethane	U		0.000383	0.00100	1	05/02/2017 06:20	WG975620
Trichloroethene	U		0.000398	0.00100	1	05/02/2017 06:20	WG975620
1,2,4-Trimethylbenzene	U		0.000373	0.00100	1	05/02/2017 06:20	WG975620
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	05/02/2017 06:20	WG975620
Vinyl chloride	U		0.000259	0.00100	1	05/02/2017 06:20	WG975620
o-Xylene	U		0.000341	0.00100	1	05/02/2017 06:20	WG975620
m&p-Xylene	U		0.000719	0.00200	1	05/02/2017 06:20	WG975620
Xylenes, Total	U		0.00106	0.00300	1	05/02/2017 06:20	WG975620
(S) Toluene-d8	*104*			*80.0-120*		*05/02/2017 06:20*	WG975620
(S) Dibromofluoromethane	*106*			*76.0-123*		*05/02/2017 06:20*	WG975620
(S) 4-Bromofluorobenzene	*102*			*80.0-120*		*05/02/2017 06:20*	WG975620

Semi-Volatile Organic Compounds (GC) by 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	J	0.0247	0.100	1	05/09/2017 13:38	WG977596
(S) o-Terphenyl	*62.0*			*31.0-160*		*05/09/2017 13:38*	WG977596

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Dissolved Solids	3640		2.82	10.0	1	05/02/2017 14:23	WG975504

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	0.266	J	0.197	1.00	10	05/05/2017 10:30	WG975895

Sample Narrative:

353.2 L905668-10 WG975895: dilution due to sample matrix

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	245		5.19	100	100	05/02/2017 13:41	WG975537
Fluoride	3.33		0.00990	0.100	1	05/02/2017 13:26	WG975537
Sulfate	2090		7.74	500	100	05/02/2017 13:41	WG975537

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.00255		0.000250	0.00200	1	05/04/2017 23:16	WG975076
Arsenic,Dissolved	0.00240		0.000250	0.00200	1	05/03/2017 02:16	WG975067
Barium	0.0197		0.000360	0.00500	1	05/04/2017 23:16	WG975076
Barium,Dissolved	0.00950	B	0.000360	0.00500	1	05/03/2017 02:16	WG975067
Calcium	548		0.0460	1.00	1	05/04/2017 23:16	WG975076
Chromium	0.00209		0.000540	0.00200	1	05/04/2017 23:16	WG975076
Chromium,Dissolved	U		0.000540	0.00200	1	05/03/2017 02:16	WG975067
Iron	1.11		0.0150	0.100	1	05/04/2017 23:16	WG975076
Iron,Dissolved	U		0.0150	0.100	1	05/03/2017 02:16	WG975067
Lead	0.000901	J	0.000240	0.00200	1	05/04/2017 23:16	WG975076
Lead,Dissolved	0.000330	J	0.000240	0.00200	1	05/03/2017 02:16	WG975067
Manganese	0.0147		0.000250	0.00500	1	05/04/2017 23:16	WG975076
Manganese,Dissolved	0.00260	B J	0.000250	0.00500	1	05/03/2017 02:16	WG975067
Potassium	6.50		0.0370	1.00	1	05/04/2017 23:16	WG975076
Selenium	0.00349	B	0.000380	0.00200	1	05/04/2017 23:16	WG975076
Selenium,Dissolved	0.00439		0.000380	0.00200	1	05/03/2017 02:16	WG975067
Sodium	96.7		0.110	1.00	1	05/04/2017 23:16	WG975076

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	05/01/2017 02:54	WG975302
(S) a,a,a-Trifluorotoluene(FID)	*100*			*77.0-122*		*05/01/2017 02:54*	WG975302

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		0.0100	0.0500	1	05/02/2017 06:41	WG975620
Benzene	U		0.000331	0.00100	1	05/02/2017 06:41	WG975620
Bromodichloromethane	U		0.000380	0.00100	1	05/02/2017 06:41	WG975620
Bromoform	U		0.000469	0.00100	1	05/02/2017 06:41	WG975620
Bromomethane	U		0.000866	0.00500	1	05/02/2017 06:41	WG975620
n-Butylbenzene	U		0.000361	0.00100	1	05/02/2017 06:41	WG975620

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		0.000365	0.00100	1	05/02/2017 06:41	WG975620
Carbon disulfide	U		0.000275	0.00100	1	05/02/2017 06:41	WG975620
Carbon tetrachloride	U		0.000379	0.00100	1	05/02/2017 06:41	WG975620
Chlorobenzene	U		0.000348	0.00100	1	05/02/2017 06:41	WG975620
Chlorodibromomethane	U		0.000327	0.00100	1	05/02/2017 06:41	WG975620
Chloroethane	U		0.000453	0.00500	1	05/02/2017 06:41	WG975620
Chloroform	U		0.000324	0.00500	1	05/02/2017 06:41	WG975620
Chloromethane	U		0.000276	0.00250	1	05/02/2017 06:41	WG975620
1,2-Dibromoethane	U		0.000381	0.00100	1	05/02/2017 06:41	WG975620
1,1-Dichloroethane	U		0.000259	0.00100	1	05/02/2017 06:41	WG975620
1,2-Dichloroethane	U		0.000361	0.00100	1	05/02/2017 06:41	WG975620
1,1-Dichloroethene	U		0.000398	0.00100	1	05/02/2017 06:41	WG975620
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	05/02/2017 06:41	WG975620
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	05/02/2017 06:41	WG975620
1,2-Dichloropropane	U		0.000306	0.00100	1	05/02/2017 06:41	WG975620
cis-1,3-Dichloropropene	U		0.000418	0.00100	1	05/02/2017 06:41	WG975620
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	05/02/2017 06:41	WG975620
Ethylbenzene	U		0.000384	0.00100	1	05/02/2017 06:41	WG975620
Isopropylbenzene	U		0.000326	0.00100	1	05/02/2017 06:41	WG975620
p-Isopropyltoluene	U		0.000350	0.00100	1	05/02/2017 06:41	WG975620
2-Butanone (MEK)	U		0.00393	0.0100	1	05/02/2017 06:41	WG975620
2-Hexanone	U		0.00382	0.0100	1	05/02/2017 06:41	WG975620
Methylene Chloride	U		0.00100	0.00500	1	05/02/2017 06:41	WG975620
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	05/02/2017 06:41	WG975620
Methyl tert-butyl ether	U		0.000367	0.00100	1	05/02/2017 06:41	WG975620
Naphthalene	U		0.00100	0.00500	1	05/02/2017 06:41	WG975620
n-Propylbenzene	U		0.000349	0.00100	1	05/02/2017 06:41	WG975620
Styrene	U		0.000307	0.00100	1	05/02/2017 06:41	WG975620
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	05/02/2017 06:41	WG975620
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	05/02/2017 06:41	WG975620
Tetrachloroethene	U		0.000372	0.00100	1	05/02/2017 06:41	WG975620
Toluene	U		0.000412	0.00100	1	05/02/2017 06:41	WG975620
1,1,1-Trichloroethane	U		0.000319	0.00100	1	05/02/2017 06:41	WG975620
1,1,2-Trichloroethane	U		0.000383	0.00100	1	05/02/2017 06:41	WG975620
Trichloroethene	U		0.000398	0.00100	1	05/02/2017 06:41	WG975620
1,2,4-Trimethylbenzene	U		0.000373	0.00100	1	05/02/2017 06:41	WG975620
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	05/02/2017 06:41	WG975620
Vinyl chloride	U		0.000259	0.00100	1	05/02/2017 06:41	WG975620
o-Xylene	U		0.000341	0.00100	1	05/02/2017 06:41	WG975620
m&p-Xylene	U		0.000719	0.00200	1	05/02/2017 06:41	WG975620
Xylenes, Total	U		0.00106	0.00300	1	05/02/2017 06:41	WG975620
(S) Toluene-d8	*103*			*80.0-120*		*05/02/2017 06:41*	WG975620
(S) Dibromofluoromethane	*104*			*76.0-123*		*05/02/2017 06:41*	WG975620
(S) 4-Bromofluorobenzene	*101*			*80.0-120*		*05/02/2017 06:41*	WG975620

Semi-Volatile Organic Compounds (GC) by 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	05/05/2017 20:41	WG975550
(S) o-Terphenyl	*60.5*			*31.0-160*		*05/05/2017 20:41*	WG975550

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Dissolved Solids	3830		2.82	10.0	1	05/02/2017 14:23	WG975504

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	8.51		0.197	1.00	10	05/05/2017 10:31	WG975895

Sample Narrative:

353.2 L905668-11 WG975895: dilution due to sample matrix

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	175		5.19	100	100	05/02/2017 14:12	WG975537
Fluoride	5.98		0.00990	0.100	1	05/02/2017 13:57	WG975537
Sulfate	2630		7.74	500	100	05/02/2017 14:12	WG975537

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.0105		0.000250	0.00200	1	05/04/2017 23:20	WG975076
Arsenic,Dissolved	0.0104		0.000250	0.00200	1	05/03/2017 02:20	WG975067
Barium	0.00910		0.000360	0.00500	1	05/04/2017 23:20	WG975076
Barium,Dissolved	0.00910	B	0.000360	0.00500	1	05/03/2017 02:20	WG975067
Calcium	544		0.0460	1.00	1	05/04/2017 23:20	WG975076
Chromium	U		0.000540	0.00200	1	05/04/2017 23:20	WG975076
Chromium,Dissolved	U		0.000540	0.00200	1	05/03/2017 02:20	WG975067
Iron	0.0337	J	0.0150	0.100	1	05/04/2017 23:20	WG975076
Iron,Dissolved	U		0.0150	0.100	1	05/03/2017 02:20	WG975067
Lead	U		0.000240	0.00200	1	05/04/2017 23:20	WG975076
Lead,Dissolved	0.000324	J	0.000240	0.00200	1	05/03/2017 02:20	WG975067
Manganese	0.000670	J	0.000250	0.00500	1	05/04/2017 23:20	WG975076
Manganese,Dissolved	U		0.000250	0.00500	1	05/03/2017 02:20	WG975067
Potassium	5.06		0.0370	1.00	1	05/04/2017 23:20	WG975076
Selenium	0.0222		0.000380	0.00200	1	05/04/2017 23:20	WG975076
Selenium,Dissolved	0.0236		0.000380	0.00200	1	05/03/2017 02:20	WG975067
Sodium	139		0.110	1.00	1	05/04/2017 23:20	WG975076

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	05/01/2017 03:18	WG975302
(S) a,a,a-Trifluorotoluene(FID)	*100*			*77.0-122*		*05/01/2017 03:18*	WG975302

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		0.0100	0.0500	1	05/02/2017 07:01	WG975620
Benzene	U		0.000331	0.00100	1	05/02/2017 07:01	WG975620
Bromodichloromethane	U		0.000380	0.00100	1	05/02/2017 07:01	WG975620
Bromoform	U		0.000469	0.00100	1	05/02/2017 07:01	WG975620
Bromomethane	U		0.000866	0.00500	1	05/02/2017 07:01	WG975620
n-Butylbenzene	U		0.000361	0.00100	1	05/02/2017 07:01	WG975620

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		0.000365	0.00100	1	05/02/2017 07:01	WG975620
Carbon disulfide	U		0.000275	0.00100	1	05/02/2017 07:01	WG975620
Carbon tetrachloride	U		0.000379	0.00100	1	05/02/2017 07:01	WG975620
Chlorobenzene	U		0.000348	0.00100	1	05/02/2017 07:01	WG975620
Chlorodibromomethane	U		0.000327	0.00100	1	05/02/2017 07:01	WG975620
Chloroethane	U		0.000453	0.00500	1	05/02/2017 07:01	WG975620
Chloroform	U		0.000324	0.00500	1	05/02/2017 07:01	WG975620
Chloromethane	U		0.000276	0.00250	1	05/02/2017 07:01	WG975620
1,2-Dibromoethane	U		0.000381	0.00100	1	05/02/2017 07:01	WG975620
1,1-Dichloroethane	U		0.000259	0.00100	1	05/02/2017 07:01	WG975620
1,2-Dichloroethane	U		0.000361	0.00100	1	05/02/2017 07:01	WG975620
1,1-Dichloroethene	U		0.000398	0.00100	1	05/02/2017 07:01	WG975620
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	05/02/2017 07:01	WG975620
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	05/02/2017 07:01	WG975620
1,2-Dichloropropane	U		0.000306	0.00100	1	05/02/2017 07:01	WG975620
cis-1,3-Dichloropropene	U		0.000418	0.00100	1	05/02/2017 07:01	WG975620
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	05/02/2017 07:01	WG975620
Ethylbenzene	U		0.000384	0.00100	1	05/02/2017 07:01	WG975620
Isopropylbenzene	U		0.000326	0.00100	1	05/02/2017 07:01	WG975620
p-Isopropyltoluene	U		0.000350	0.00100	1	05/02/2017 07:01	WG975620
2-Butanone (MEK)	U		0.00393	0.0100	1	05/02/2017 07:01	WG975620
2-Hexanone	U		0.00382	0.0100	1	05/02/2017 07:01	WG975620
Methylene Chloride	U		0.00100	0.00500	1	05/02/2017 07:01	WG975620
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	05/02/2017 07:01	WG975620
Methyl tert-butyl ether	U		0.000367	0.00100	1	05/02/2017 07:01	WG975620
Naphthalene	U		0.00100	0.00500	1	05/02/2017 07:01	WG975620
n-Propylbenzene	U		0.000349	0.00100	1	05/02/2017 07:01	WG975620
Styrene	U		0.000307	0.00100	1	05/02/2017 07:01	WG975620
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	05/02/2017 07:01	WG975620
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	05/02/2017 07:01	WG975620
Tetrachloroethene	U		0.000372	0.00100	1	05/02/2017 07:01	WG975620
Toluene	U		0.000412	0.00100	1	05/02/2017 07:01	WG975620
1,1,1-Trichloroethane	U		0.000319	0.00100	1	05/02/2017 07:01	WG975620
1,1,2-Trichloroethane	U		0.000383	0.00100	1	05/02/2017 07:01	WG975620
Trichloroethene	U		0.000398	0.00100	1	05/02/2017 07:01	WG975620
1,2,4-Trimethylbenzene	U		0.000373	0.00100	1	05/02/2017 07:01	WG975620
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	05/02/2017 07:01	WG975620
Vinyl chloride	U		0.000259	0.00100	1	05/02/2017 07:01	WG975620
o-Xylene	U		0.000341	0.00100	1	05/02/2017 07:01	WG975620
m&p-Xylene	U		0.000719	0.00200	1	05/02/2017 07:01	WG975620
Xylenes, Total	U		0.00106	0.00300	1	05/02/2017 07:01	WG975620
(S) Toluene-d8	*106*			*80.0-120*		*05/02/2017 07:01*	WG975620
(S) Dibromofluoromethane	*106*			*76.0-123*		*05/02/2017 07:01*	WG975620
(S) 4-Bromofluorobenzene	*104*			*80.0-120*		*05/02/2017 07:01*	WG975620

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	05/05/2017 20:58	WG975550
(S) o-Terphenyl	*60.4*			*31.0-160*		*05/05/2017 20:58*	WG975550

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Dissolved Solids	3650		2.82	10.0	1	05/02/2017 14:23	WG975504

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	U		0.197	1.00	10	05/05/2017 10:32	WG975895

Sample Narrative:

353.2 L905668-12 WG975895: dilution due to sample matrix

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	290		5.19	100	100	05/02/2017 15:14	WG975537
Fluoride	2.86		0.00990	0.100	1	05/02/2017 14:58	WG975537
Sulfate	2420		7.74	500	100	05/02/2017 15:14	WG975537

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.00376		0.000250	0.00200	1	05/04/2017 23:23	WG975076
Arsenic,Dissolved	0.00382		0.000250	0.00200	1	05/03/2017 02:23	WG975067
Barium	0.00966		0.000360	0.00500	1	05/04/2017 23:23	WG975076
Barium,Dissolved	0.0103		0.000360	0.00500	1	05/03/2017 02:23	WG975067
Calcium	587		0.0460	1.00	1	05/04/2017 23:23	WG975076
Chromium	U		0.000540	0.00200	1	05/04/2017 23:23	WG975076
Chromium,Dissolved	U		0.000540	0.00200	1	05/03/2017 02:23	WG975067
Iron	0.0438	J	0.0150	0.100	1	05/04/2017 23:23	WG975076
Iron,Dissolved	U		0.0150	0.100	1	05/03/2017 02:23	WG975067
Lead	U		0.000240	0.00200	1	05/04/2017 23:23	WG975076
Lead,Dissolved	U		0.000240	0.00200	1	05/03/2017 02:23	WG975067
Manganese	0.00331	J	0.000250	0.00500	1	05/04/2017 23:23	WG975076
Manganese,Dissolved	0.00177	B J	0.000250	0.00500	1	05/03/2017 02:23	WG975067
Potassium	0.965	J	0.0370	1.00	1	05/04/2017 23:23	WG975076
Selenium	0.00442		0.000380	0.00200	1	05/04/2017 23:23	WG975076
Selenium,Dissolved	0.00434		0.000380	0.00200	1	05/03/2017 02:23	WG975067
Sodium	123		0.110	1.00	1	05/04/2017 23:23	WG975076

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	05/01/2017 03:42	WG975302
(S) a,a,a-Trifluorotoluene(FID)	*100*			*77.0-122*		*05/01/2017 03:42*	WG975302

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		0.0100	0.0500	1	05/02/2017 07:22	WG975620
Benzene	U		0.000331	0.00100	1	05/02/2017 07:22	WG975620
Bromodichloromethane	U		0.000380	0.00100	1	05/02/2017 07:22	WG975620
Bromoform	U		0.000469	0.00100	1	05/02/2017 07:22	WG975620
Bromomethane	U		0.000866	0.00500	1	05/02/2017 07:22	WG975620
n-Butylbenzene	U		0.000361	0.00100	1	05/02/2017 07:22	WG975620

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		0.000365	0.00100	1	05/02/2017 07:22	WG975620
Carbon disulfide	U		0.000275	0.00100	1	05/02/2017 07:22	WG975620
Carbon tetrachloride	U		0.000379	0.00100	1	05/02/2017 07:22	WG975620
Chlorobenzene	U		0.000348	0.00100	1	05/02/2017 07:22	WG975620
Chlorodibromomethane	U		0.000327	0.00100	1	05/02/2017 07:22	WG975620
Chloroethane	U		0.000453	0.00500	1	05/02/2017 07:22	WG975620
Chloroform	U		0.000324	0.00500	1	05/02/2017 07:22	WG975620
Chloromethane	U		0.000276	0.00250	1	05/02/2017 07:22	WG975620
1,2-Dibromoethane	U		0.000381	0.00100	1	05/02/2017 07:22	WG975620
1,1-Dichloroethane	U		0.000259	0.00100	1	05/02/2017 07:22	WG975620
1,2-Dichloroethane	U		0.000361	0.00100	1	05/02/2017 07:22	WG975620
1,1-Dichloroethene	U		0.000398	0.00100	1	05/02/2017 07:22	WG975620
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	05/02/2017 07:22	WG975620
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	05/02/2017 07:22	WG975620
1,2-Dichloropropane	U		0.000306	0.00100	1	05/02/2017 07:22	WG975620
cis-1,3-Dichloropropene	U		0.000418	0.00100	1	05/02/2017 07:22	WG975620
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	05/02/2017 07:22	WG975620
Ethylbenzene	U		0.000384	0.00100	1	05/02/2017 07:22	WG975620
Isopropylbenzene	U		0.000326	0.00100	1	05/02/2017 07:22	WG975620
p-Isopropyltoluene	U		0.000350	0.00100	1	05/02/2017 07:22	WG975620
2-Butanone (MEK)	U		0.00393	0.0100	1	05/02/2017 07:22	WG975620
2-Hexanone	U		0.00382	0.0100	1	05/02/2017 07:22	WG975620
Methylene Chloride	U		0.00100	0.00500	1	05/02/2017 07:22	WG975620
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	05/02/2017 07:22	WG975620
Methyl tert-butyl ether	U		0.000367	0.00100	1	05/02/2017 07:22	WG975620
Naphthalene	U		0.00100	0.00500	1	05/02/2017 07:22	WG975620
n-Propylbenzene	U		0.000349	0.00100	1	05/02/2017 07:22	WG975620
Styrene	U		0.000307	0.00100	1	05/02/2017 07:22	WG975620
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	05/02/2017 07:22	WG975620
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	05/02/2017 07:22	WG975620
Tetrachloroethene	U		0.000372	0.00100	1	05/02/2017 07:22	WG975620
Toluene	U		0.000412	0.00100	1	05/02/2017 07:22	WG975620
1,1,1-Trichloroethane	U		0.000319	0.00100	1	05/02/2017 07:22	WG975620
1,1,2-Trichloroethane	U		0.000383	0.00100	1	05/02/2017 07:22	WG975620
Trichloroethene	U		0.000398	0.00100	1	05/02/2017 07:22	WG975620
1,2,4-Trimethylbenzene	U		0.000373	0.00100	1	05/02/2017 07:22	WG975620
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	05/02/2017 07:22	WG975620
Vinyl chloride	U		0.000259	0.00100	1	05/02/2017 07:22	WG975620
o-Xylene	U		0.000341	0.00100	1	05/02/2017 07:22	WG975620
m&p-Xylene	U		0.000719	0.00200	1	05/02/2017 07:22	WG975620
Xylenes, Total	U		0.00106	0.00300	1	05/02/2017 07:22	WG975620
(S) Toluene-d8	*103*			*80.0-120*		*05/02/2017 07:22*	WG975620
(S) Dibromofluoromethane	*105*			*76.0-123*		*05/02/2017 07:22*	WG975620
(S) 4-Bromofluorobenzene	*102*			*80.0-120*		*05/02/2017 07:22*	WG975620

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	0.0622	J	0.0247	0.100	1	05/09/2017 13:55	WG977596
(S) o-Terphenyl	*61.5*			*31.0-160*		*05/09/2017 13:55*	WG977596

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Dissolved Solids	1580		2.82	10.0	1	05/02/2017 15:55	WG975505

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	U		0.197	1.00	10	05/05/2017 10:33	WG975895

Sample Narrative:

353.2 L905668-13 WG975895: dilution due to sample matrix

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	575		1.04	20.0	20	05/02/2017 15:45	WG975537
Fluoride	0.936		0.00990	0.100	1	05/02/2017 15:29	WG975537
Sulfate	14.8		0.0774	5.00	1	05/02/2017 15:29	WG975537

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.0219		0.000250	0.00200	1	05/04/2017 23:27	WG975076
Arsenic,Dissolved	0.0214		0.000250	0.00200	1	05/03/2017 02:27	WG975067
Barium	3.49		0.000360	0.00500	1	05/04/2017 23:27	WG975076
Barium,Dissolved	3.27		0.000360	0.00500	1	05/03/2017 02:27	WG975067
Calcium	224		0.0460	1.00	1	05/04/2017 23:27	WG975076
Chromium	U		0.000540	0.00200	1	05/04/2017 23:27	WG975076
Chromium,Dissolved	U		0.000540	0.00200	1	05/03/2017 02:27	WG975067
Iron	4.43		0.0150	0.100	1	05/04/2017 23:27	WG975076
Iron,Dissolved	U		0.0150	0.100	1	05/03/2017 02:27	WG975067
Lead	U		0.000240	0.00200	1	05/04/2017 23:27	WG975076
Lead,Dissolved	U		0.000240	0.00200	1	05/03/2017 02:27	WG975067
Manganese	1.81		0.000250	0.00500	1	05/04/2017 23:27	WG975076
Manganese,Dissolved	1.89		0.000250	0.00500	1	05/03/2017 02:27	WG975067
Potassium	1.48		0.0370	1.00	1	05/04/2017 23:27	WG975076
Selenium	0.000511	B J	0.000380	0.00200	1	05/04/2017 23:27	WG975076
Selenium,Dissolved	0.000873	J	0.000380	0.00200	1	05/03/2017 02:27	WG975067
Sodium	204		0.110	1.00	1	05/04/2017 23:27	WG975076

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		0.0100	0.0500	1	05/02/2017 07:44	WG975620
Benzene	0.525		0.0166	0.0500	50	05/05/2017 18:15	WG975620
Bromodichloromethane	U		0.000380	0.00100	1	05/02/2017 07:44	WG975620
Bromoform	U		0.000469	0.00100	1	05/02/2017 07:44	WG975620
Bromomethane	U		0.000866	0.00500	1	05/02/2017 07:44	WG975620
n-Butylbenzene	0.00176		0.000361	0.00100	1	05/02/2017 07:44	WG975620
sec-Butylbenzene	0.00280		0.000365	0.00100	1	05/02/2017 07:44	WG975620
Carbon disulfide	U		0.000275	0.00100	1	05/02/2017 07:44	WG975620
Carbon tetrachloride	U		0.000379	0.00100	1	05/02/2017 07:44	WG975620
Chlorobenzene	U		0.000348	0.00100	1	05/02/2017 07:44	WG975620
Chlorodibromomethane	U		0.000327	0.00100	1	05/02/2017 07:44	WG975620
Chloroethane	U		0.000453	0.00500	1	05/02/2017 07:44	WG975620
Chloroform	U		0.000324	0.00500	1	05/02/2017 07:44	WG975620

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloromethane	U		0.000276	0.00250	1	05/02/2017 07:44	WG975620
1,2-Dibromoethane	U		0.000381	0.00100	1	05/02/2017 07:44	WG975620
1,1-Dichloroethane	U		0.000259	0.00100	1	05/02/2017 07:44	WG975620
1,2-Dichloroethane	U		0.000361	0.00100	1	05/02/2017 07:44	WG975620
1,1-Dichloroethene	U		0.000398	0.00100	1	05/02/2017 07:44	WG975620
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	05/02/2017 07:44	WG975620
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	05/02/2017 07:44	WG975620
1,2-Dichloropropane	U		0.000306	0.00100	1	05/02/2017 07:44	WG975620
cis-1,3-Dichloropropene	U		0.000418	0.00100	1	05/02/2017 07:44	WG975620
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	05/02/2017 07:44	WG975620
Ethylbenzene	0.0103		0.000384	0.00100	1	05/02/2017 07:44	WG975620
Isopropylbenzene	0.0138		0.000326	0.00100	1	05/02/2017 07:44	WG975620
p-Isopropyltoluene	U		0.000350	0.00100	1	05/02/2017 07:44	WG975620
2-Butanone (MEK)	U		0.00393	0.0100	1	05/02/2017 07:44	WG975620
2-Hexanone	U		0.00382	0.0100	1	05/02/2017 07:44	WG975620
Methylene Chloride	U		0.00100	0.00500	1	05/02/2017 07:44	WG975620
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	05/02/2017 07:44	WG975620
Methyl tert-butyl ether	8.84		0.0734	0.200	200	05/08/2017 16:01	WG975620
Naphthalene	0.0302		0.00100	0.00500	1	05/02/2017 07:44	WG975620
n-Propylbenzene	0.0247		0.000349	0.00100	1	05/02/2017 07:44	WG975620
Styrene	U		0.000307	0.00100	1	05/02/2017 07:44	WG975620
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	05/02/2017 07:44	WG975620
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	05/02/2017 07:44	WG975620
Tetrachloroethene	U		0.000372	0.00100	1	05/02/2017 07:44	WG975620
Toluene	0.00470		0.000412	0.00100	1	05/02/2017 07:44	WG975620
1,1,1-Trichloroethane	U		0.000319	0.00100	1	05/02/2017 07:44	WG975620
1,1,2-Trichloroethane	U		0.000383	0.00100	1	05/02/2017 07:44	WG975620
Trichloroethene	U		0.000398	0.00100	1	05/02/2017 07:44	WG975620
1,2,4-Trimethylbenzene	0.0172		0.000373	0.00100	1	05/02/2017 07:44	WG975620
1,3,5-Trimethylbenzene	0.00179		0.000387	0.00100	1	05/02/2017 07:44	WG975620
Vinyl chloride	U		0.000259	0.00100	1	05/02/2017 07:44	WG975620
o-Xylene	0.00472		0.000341	0.00100	1	05/02/2017 07:44	WG975620
m&p-Xylene	0.0387		0.000719	0.00200	1	05/02/2017 07:44	WG975620
Xylenes, Total	0.0434		0.00106	0.00300	1	05/02/2017 07:44	WG975620
(S) Toluene-d8	*101*			*80.0-120*		*05/08/2017 16:01*	WG975620
(S) Toluene-d8	*105*			*80.0-120*		*05/05/2017 18:15*	WG975620
(S) Toluene-d8	*107*			*80.0-120*		*05/02/2017 07:44*	WG975620
(S) Dibromofluoromethane	*99.9*			*76.0-123*		*05/08/2017 16:01*	WG975620
(S) Dibromofluoromethane	*102*			*76.0-123*		*05/05/2017 18:15*	WG975620
(S) Dibromofluoromethane	*105*			*76.0-123*		*05/02/2017 07:44*	WG975620
(S) 4-Bromofluorobenzene	*90.5*			*80.0-120*		*05/08/2017 16:01*	WG975620
(S) 4-Bromofluorobenzene	*96.3*			*80.0-120*		*05/05/2017 18:15*	WG975620
(S) 4-Bromofluorobenzene	*103*			*80.0-120*		*05/02/2017 07:44*	WG975620

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	1.98		0.0247	0.100	1	05/05/2017 21:33	WG975550
(S) o-Terphenyl	*68.2*			*31.0-160*		*05/05/2017 21:33*	WG975550

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Dissolved Solids	2250		2.82	10.0	1	05/02/2017 15:55	WG975505

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	0.266	J	0.197	1.00	10	05/05/2017 10:38	WG975895

Sample Narrative:

353.2 L905668-14 WG975895: dilution due to sample matrix

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	456	J3	1.04	20.0	20	05/02/2017 16:15	WG975537
Fluoride	1.28		0.00990	0.100	1	05/02/2017 16:00	WG975537
Sulfate	366	P1	1.55	100	20	05/02/2017 16:15	WG975537

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.0127		0.000250	0.00200	1	05/04/2017 23:30	WG975076
Arsenic,Dissolved	0.00967		0.000250	0.00200	1	05/03/2017 02:31	WG975067
Barium	0.0697		0.000360	0.00500	1	05/04/2017 23:30	WG975076
Barium,Dissolved	0.0596		0.000360	0.00500	1	05/03/2017 02:31	WG975067
Calcium	232		0.0460	1.00	1	05/04/2017 23:30	WG975076
Chromium	U		0.000540	0.00200	1	05/04/2017 23:30	WG975076
Chromium,Dissolved	U		0.000540	0.00200	1	05/03/2017 02:31	WG975067
Iron	6.15		0.0150	0.100	1	05/04/2017 23:30	WG975076
Iron,Dissolved	U		0.0150	0.100	1	05/03/2017 02:31	WG975067
Lead	U		0.000240	0.00200	1	05/04/2017 23:30	WG975076
Lead,Dissolved	U		0.000240	0.00200	1	05/03/2017 02:31	WG975067
Manganese	1.57		0.000250	0.00500	1	05/04/2017 23:30	WG975076
Manganese,Dissolved	1.59		0.000250	0.00500	1	05/03/2017 02:31	WG975067
Potassium	0.203	J	0.0370	1.00	1	05/04/2017 23:30	WG975076
Selenium	U		0.000380	0.00200	1	05/04/2017 23:30	WG975076
Selenium,Dissolved	0.000586	J	0.000380	0.00200	1	05/03/2017 02:31	WG975067
Sodium	211		0.110	1.00	1	05/04/2017 23:30	WG975076

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	1.27		0.0314	0.100	1	05/01/2017 04:07	WG975302
(S) a,a,a-Trifluorotoluene(FID)	*99.8*			*77.0-122*		*05/01/2017 04:07*	WG975302

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		0.0100	0.0500	1	05/02/2017 08:05	WG975620
Benzene	0.0205		0.000331	0.00100	1	05/02/2017 08:05	WG975620
Bromodichloromethane	U		0.000380	0.00100	1	05/02/2017 08:05	WG975620
Bromoform	U		0.000469	0.00100	1	05/02/2017 08:05	WG975620
Bromomethane	U		0.000866	0.00500	1	05/02/2017 08:05	WG975620
n-Butylbenzene	U		0.000361	0.00100	1	05/02/2017 08:05	WG975620

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		0.000365	0.00100	1	05/02/2017 08:05	WG975620
Carbon disulfide	U		0.000275	0.00100	1	05/02/2017 08:05	WG975620
Carbon tetrachloride	U		0.000379	0.00100	1	05/02/2017 08:05	WG975620
Chlorobenzene	U		0.000348	0.00100	1	05/02/2017 08:05	WG975620
Chlorodibromomethane	U		0.000327	0.00100	1	05/02/2017 08:05	WG975620
Chloroethane	U		0.000453	0.00500	1	05/02/2017 08:05	WG975620
Chloroform	U		0.000324	0.00500	1	05/02/2017 08:05	WG975620
Chloromethane	U		0.000276	0.00250	1	05/02/2017 08:05	WG975620
1,2-Dibromoethane	U		0.000381	0.00100	1	05/02/2017 08:05	WG975620
1,1-Dichloroethane	U		0.000259	0.00100	1	05/02/2017 08:05	WG975620
1,2-Dichloroethane	0.000698	J	0.000361	0.00100	1	05/02/2017 08:05	WG975620
1,1-Dichloroethene	U		0.000398	0.00100	1	05/02/2017 08:05	WG975620
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	05/02/2017 08:05	WG975620
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	05/02/2017 08:05	WG975620
1,2-Dichloropropane	U		0.000306	0.00100	1	05/02/2017 08:05	WG975620
cis-1,3-Dichloropropene	U		0.000418	0.00100	1	05/02/2017 08:05	WG975620
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	05/02/2017 08:05	WG975620
Ethylbenzene	0.000432	J	0.000384	0.00100	1	05/02/2017 08:05	WG975620
Isopropylbenzene	0.00163		0.000326	0.00100	1	05/02/2017 08:05	WG975620
p-Isopropyltoluene	U		0.000350	0.00100	1	05/02/2017 08:05	WG975620
2-Butanone (MEK)	U		0.00393	0.0100	1	05/02/2017 08:05	WG975620
2-Hexanone	U		0.00382	0.0100	1	05/02/2017 08:05	WG975620
Methylene Chloride	U		0.00100	0.00500	1	05/02/2017 08:05	WG975620
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	05/02/2017 08:05	WG975620
Methyl tert-butyl ether	0.955		0.00918	0.0250	25	05/05/2017 18:02	WG975620
Naphthalene	0.00310	J	0.00100	0.00500	1	05/02/2017 08:05	WG975620
n-Propylbenzene	0.000769	J	0.000349	0.00100	1	05/02/2017 08:05	WG975620
Styrene	U		0.000307	0.00100	1	05/02/2017 08:05	WG975620
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	05/02/2017 08:05	WG975620
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	05/02/2017 08:05	WG975620
Tetrachloroethene	U		0.000372	0.00100	1	05/02/2017 08:05	WG975620
Toluene	U		0.000412	0.00100	1	05/02/2017 08:05	WG975620
1,1,1-Trichloroethane	U		0.000319	0.00100	1	05/02/2017 08:05	WG975620
1,1,2-Trichloroethane	U		0.000383	0.00100	1	05/02/2017 08:05	WG975620
Trichloroethene	U		0.000398	0.00100	1	05/02/2017 08:05	WG975620
1,2,4-Trimethylbenzene	0.00219		0.000373	0.00100	1	05/02/2017 08:05	WG975620
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	05/02/2017 08:05	WG975620
Vinyl chloride	U		0.000259	0.00100	1	05/02/2017 08:05	WG975620
o-Xylene	U		0.000341	0.00100	1	05/02/2017 08:05	WG975620
m&p-Xylene	0.00237		0.000719	0.00200	1	05/02/2017 08:05	WG975620
Xylenes, Total	0.00237	J	0.00106	0.00300	1	05/02/2017 08:05	WG975620
(S) Toluene-d8	*104*			*80.0-120*		*05/02/2017 08:05*	WG975620
(S) Toluene-d8	*105*			*80.0-120*		*05/05/2017 18:02*	WG975620
(S) Dibromofluoromethane	*99.5*			*76.0-123*		*05/02/2017 08:05*	WG975620
(S) Dibromofluoromethane	*105*			*76.0-123*		*05/05/2017 18:02*	WG975620
(S) 4-Bromofluorobenzene	*96.9*			*80.0-120*		*05/05/2017 18:02*	WG975620
(S) 4-Bromofluorobenzene	*103*			*80.0-120*		*05/02/2017 08:05*	WG975620

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	2.08		0.0247	0.100	1	05/05/2017 21:50	WG975550
(S) o-Terphenyl	*68.4*			*31.0-160*		*05/05/2017 21:50*	WG975550

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Dissolved Solids	1630		2.82	10.0	1	05/02/2017 15:55	WG975505

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	0.556	J	0.197	1.00	10	05/05/2017 10:39	WG975895

Sample Narrative:

353.2 L905668-15 WG975895: dilution due to sample matrix

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	260		1.04	20.0	20	05/02/2017 17:50	WG975537
Fluoride	0.965		0.00990	0.100	1	05/02/2017 17:02	WG975537
Sulfate	211		1.55	100	20	05/02/2017 17:50	WG975537

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.00406		0.000250	0.00200	1	05/04/2017 23:34	WG975076
Arsenic,Dissolved	0.00449		0.000250	0.00200	1	05/03/2017 02:34	WG975067
Barium	0.152		0.000360	0.00500	1	05/04/2017 23:34	WG975076
Barium,Dissolved	0.140		0.000360	0.00500	1	05/03/2017 02:34	WG975067
Calcium	227		0.0460	1.00	1	05/04/2017 23:34	WG975076
Chromium	U		0.000540	0.00200	1	05/04/2017 23:34	WG975076
Chromium,Dissolved	U		0.000540	0.00200	1	05/03/2017 02:34	WG975067
Iron	0.152		0.0150	0.100	1	05/04/2017 23:34	WG975076
Iron,Dissolved	U		0.0150	0.100	1	05/03/2017 02:34	WG975067
Lead	0.000533	J	0.000240	0.00200	1	05/04/2017 23:34	WG975076
Lead,Dissolved	U		0.000240	0.00200	1	05/03/2017 02:34	WG975067
Manganese	1.91		0.000250	0.00500	1	05/04/2017 23:34	WG975076
Manganese,Dissolved	1.98		0.000250	0.00500	1	05/03/2017 02:34	WG975067
Potassium	0.183	J	0.0370	1.00	1	05/04/2017 23:34	WG975076
Selenium	U		0.000380	0.00200	1	05/04/2017 23:34	WG975076
Selenium,Dissolved	0.000450	J	0.000380	0.00200	1	05/03/2017 02:34	WG975067
Sodium	120		0.110	1.00	1	05/04/2017 23:34	WG975076

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		0.0500	0.250	5	05/02/2017 08:26	WG975620
Benzene	4.67		0.0166	0.0500	50	05/08/2017 16:18	WG975620
Bromodichloromethane	U		0.00190	0.00500	5	05/02/2017 08:26	WG975620
Bromoform	U		0.00234	0.00500	5	05/02/2017 08:26	WG975620
Bromomethane	U		0.00433	0.0250	5	05/02/2017 08:26	WG975620
n-Butylbenzene	0.00434	J	0.00180	0.00500	5	05/02/2017 08:26	WG975620
sec-Butylbenzene	0.00695		0.00182	0.00500	5	05/02/2017 08:26	WG975620
Carbon disulfide	U		0.00138	0.00500	5	05/02/2017 08:26	WG975620
Carbon tetrachloride	U		0.00190	0.00500	5	05/02/2017 08:26	WG975620
Chlorobenzene	U		0.00174	0.00500	5	05/02/2017 08:26	WG975620
Chlorodibromomethane	U		0.00164	0.00500	5	05/02/2017 08:26	WG975620
Chloroethane	U		0.00226	0.0250	5	05/02/2017 08:26	WG975620
Chloroform	U		0.00162	0.0250	5	05/02/2017 08:26	WG975620

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

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloromethane	U		0.00138	0.0125	5	05/02/2017 08:26	WG975620
1,2-Dibromoethane	U		0.00190	0.00500	5	05/02/2017 08:26	WG975620
1,1-Dichloroethane	U		0.00130	0.00500	5	05/02/2017 08:26	WG975620
1,2-Dichloroethane	0.00451	J	0.00180	0.00500	5	05/02/2017 08:26	WG975620
1,1-Dichloroethene	U		0.00199	0.00500	5	05/02/2017 08:26	WG975620
cis-1,2-Dichloroethene	U		0.00130	0.00500	5	05/02/2017 08:26	WG975620
trans-1,2-Dichloroethene	U		0.00198	0.00500	5	05/02/2017 08:26	WG975620
1,2-Dichloropropane	U		0.00153	0.00500	5	05/02/2017 08:26	WG975620
cis-1,3-Dichloropropene	U		0.00209	0.00500	5	05/02/2017 08:26	WG975620
trans-1,3-Dichloropropene	U		0.00210	0.00500	5	05/02/2017 08:26	WG975620
Ethylbenzene	0.346		0.00192	0.00500	5	05/02/2017 08:26	WG975620
Isopropylbenzene	0.0344		0.00163	0.00500	5	05/02/2017 08:26	WG975620
p-Isopropyltoluene	0.00450	J	0.00175	0.00500	5	05/02/2017 08:26	WG975620
2-Butanone (MEK)	U		0.0196	0.0500	5	05/02/2017 08:26	WG975620
2-Hexanone	U		0.0191	0.0500	5	05/02/2017 08:26	WG975620
Methylene Chloride	U		0.00500	0.0250	5	05/02/2017 08:26	WG975620
4-Methyl-2-pentanone (MIBK)	U		0.0107	0.0500	5	05/02/2017 08:26	WG975620
Methyl tert-butyl ether	0.154		0.00184	0.00500	5	05/02/2017 08:26	WG975620
Naphthalene	0.0563		0.00500	0.0250	5	05/02/2017 08:26	WG975620
n-Propylbenzene	0.0737		0.00174	0.00500	5	05/02/2017 08:26	WG975620
Styrene	U		0.00154	0.00500	5	05/02/2017 08:26	WG975620
1,1,1,2-Tetrachloroethane	U		0.00192	0.00500	5	05/02/2017 08:26	WG975620
1,1,2,2-Tetrachloroethane	U		0.000650	0.00500	5	05/02/2017 08:26	WG975620
Tetrachloroethene	U		0.00186	0.00500	5	05/02/2017 08:26	WG975620
Toluene	0.0205		0.00206	0.00500	5	05/02/2017 08:26	WG975620
1,1,1-Trichloroethane	U		0.00160	0.00500	5	05/02/2017 08:26	WG975620
1,1,2-Trichloroethane	U		0.00192	0.00500	5	05/02/2017 08:26	WG975620
Trichloroethene	U		0.00199	0.00500	5	05/02/2017 08:26	WG975620
1,2,4-Trimethylbenzene	0.399		0.00186	0.00500	5	05/02/2017 08:26	WG975620
1,3,5-Trimethylbenzene	0.0517		0.00194	0.00500	5	05/02/2017 08:26	WG975620
Vinyl chloride	U		0.00130	0.00500	5	05/02/2017 08:26	WG975620
o-Xylene	0.0179		0.00170	0.00500	5	05/02/2017 08:26	WG975620
m&p-Xylene	0.373		0.00360	0.0100	5	05/02/2017 08:26	WG975620
Xylenes, Total	0.391		0.00530	0.0150	5	05/02/2017 08:26	WG975620
(S) Toluene-d8	*101*			*80.0-120*		*05/08/2017 16:18*	WG975620
(S) Toluene-d8	*103*			*80.0-120*		*05/02/2017 08:26*	WG975620
(S) Dibromofluoromethane	*101*			*76.0-123*		*05/08/2017 16:18*	WG975620
(S) Dibromofluoromethane	*119*			*76.0-123*		*05/02/2017 08:26*	WG975620
(S) 4-Bromofluorobenzene	*92.1*			*80.0-120*		*05/08/2017 16:18*	WG975620
(S) 4-Bromofluorobenzene	*107*			*80.0-120*		*05/02/2017 08:26*	WG975620

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	2.04		0.0247	0.100	1	05/05/2017 22:08	WG975550
(S) o-Terphenyl	*71.6*			*31.0-160*		*05/05/2017 22:08*	WG975550

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Dissolved Solids	4530		2.82	10.0	1	05/02/2017 15:55	WG975505

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	13.8		0.197	1.00	10	05/05/2017 10:41	WG975895

Sample Narrative:

353.2 L905668-16 WG975895: dilution due to sample matrix

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	336		5.19	100	100	05/02/2017 18:52	WG975537
Fluoride	2.38		0.00990	0.100	1	05/02/2017 18:36	WG975537
Sulfate	2630		7.74	500	100	05/02/2017 18:52	WG975537

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.00502		0.000250	0.00200	1	05/04/2017 23:48	WG975076
Arsenic,Dissolved	0.00348		0.000250	0.00200	1	05/03/2017 02:38	WG975067
Barium	0.0202		0.000360	0.00500	1	05/04/2017 23:48	WG975076
Barium,Dissolved	0.0154		0.000360	0.00500	1	05/03/2017 02:38	WG975067
Calcium	538		0.0460	1.00	1	05/04/2017 23:48	WG975076
Chromium	U		0.000540	0.00200	1	05/04/2017 23:48	WG975076
Chromium,Dissolved	U		0.000540	0.00200	1	05/03/2017 02:38	WG975067
Iron	0.353		0.0150	0.100	1	05/04/2017 23:48	WG975076
Iron,Dissolved	U		0.0150	0.100	1	05/03/2017 02:38	WG975067
Lead	0.000515	J	0.000240	0.00200	1	05/04/2017 23:48	WG975076
Lead,Dissolved	U		0.000240	0.00200	1	05/03/2017 02:38	WG975067
Manganese	0.278		0.000250	0.00500	1	05/04/2017 23:48	WG975076
Manganese,Dissolved	0.283		0.000250	0.00500	1	05/03/2017 02:38	WG975067
Potassium	1.62		0.0370	1.00	1	05/04/2017 23:48	WG975076
Selenium	0.0231		0.000380	0.00200	1	05/04/2017 23:48	WG975076
Selenium,Dissolved	0.0231		0.000380	0.00200	1	05/03/2017 02:38	WG975067
Sodium	342		0.110	1.00	1	05/04/2017 23:48	WG975076

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	05/01/2017 04:31	WG975302
(S) a,a,a-Trifluorotoluene(FID)	*101*			*77.0-122*		*05/01/2017 04:31*	WG975302

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		0.0100	0.0500	1	05/02/2017 08:48	WG975620
Benzene	U		0.000331	0.00100	1	05/05/2017 17:36	WG975620
Bromodichloromethane	U		0.000380	0.00100	1	05/02/2017 08:48	WG975620
Bromoform	U		0.000469	0.00100	1	05/02/2017 08:48	WG975620
Bromomethane	U		0.000866	0.00500	1	05/02/2017 08:48	WG975620
n-Butylbenzene	U		0.000361	0.00100	1	05/02/2017 08:48	WG975620

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		0.000365	0.00100	1	05/02/2017 08:48	WG975620
Carbon disulfide	U		0.000275	0.00100	1	05/02/2017 08:48	WG975620
Carbon tetrachloride	U		0.000379	0.00100	1	05/02/2017 08:48	WG975620
Chlorobenzene	U		0.000348	0.00100	1	05/02/2017 08:48	WG975620
Chlorodibromomethane	U		0.000327	0.00100	1	05/02/2017 08:48	WG975620
Chloroethane	U		0.000453	0.00500	1	05/02/2017 08:48	WG975620
Chloroform	U		0.000324	0.00500	1	05/02/2017 08:48	WG975620
Chloromethane	U		0.000276	0.00250	1	05/02/2017 08:48	WG975620
1,2-Dibromoethane	U		0.000381	0.00100	1	05/02/2017 08:48	WG975620
1,1-Dichloroethane	U		0.000259	0.00100	1	05/02/2017 08:48	WG975620
1,2-Dichloroethane	U		0.000361	0.00100	1	05/02/2017 08:48	WG975620
1,1-Dichloroethene	U		0.000398	0.00100	1	05/02/2017 08:48	WG975620
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	05/02/2017 08:48	WG975620
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	05/02/2017 08:48	WG975620
1,2-Dichloropropane	U		0.000306	0.00100	1	05/02/2017 08:48	WG975620
cis-1,3-Dichloropropene	U		0.000418	0.00100	1	05/02/2017 08:48	WG975620
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	05/02/2017 08:48	WG975620
Ethylbenzene	U		0.000384	0.00100	1	05/02/2017 08:48	WG975620
Isopropylbenzene	U		0.000326	0.00100	1	05/02/2017 08:48	WG975620
p-Isopropyltoluene	U		0.000350	0.00100	1	05/02/2017 08:48	WG975620
2-Butanone (MEK)	U		0.00393	0.0100	1	05/02/2017 08:48	WG975620
2-Hexanone	U		0.00382	0.0100	1	05/02/2017 08:48	WG975620
Methylene Chloride	U		0.00100	0.00500	1	05/02/2017 08:48	WG975620
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	05/02/2017 08:48	WG975620
Methyl tert-butyl ether	U		0.000367	0.00100	1	05/02/2017 08:48	WG975620
Naphthalene	U		0.00100	0.00500	1	05/02/2017 08:48	WG975620
n-Propylbenzene	U		0.000349	0.00100	1	05/02/2017 08:48	WG975620
Styrene	U		0.000307	0.00100	1	05/02/2017 08:48	WG975620
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	05/02/2017 08:48	WG975620
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	05/02/2017 08:48	WG975620
Tetrachloroethene	U		0.000372	0.00100	1	05/02/2017 08:48	WG975620
Toluene	U		0.000412	0.00100	1	05/02/2017 08:48	WG975620
1,1,1-Trichloroethane	U		0.000319	0.00100	1	05/02/2017 08:48	WG975620
1,1,2-Trichloroethane	U		0.000383	0.00100	1	05/02/2017 08:48	WG975620
Trichloroethene	U		0.000398	0.00100	1	05/02/2017 08:48	WG975620
1,2,4-Trimethylbenzene	U		0.000373	0.00100	1	05/02/2017 08:48	WG975620
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	05/02/2017 08:48	WG975620
Vinyl chloride	U		0.000259	0.00100	1	05/02/2017 08:48	WG975620
o-Xylene	U		0.000341	0.00100	1	05/02/2017 08:48	WG975620
m&p-Xylene	U		0.000719	0.00200	1	05/02/2017 08:48	WG975620
Xylenes, Total	U		0.00106	0.00300	1	05/02/2017 08:48	WG975620
(S) Toluene-d8	*104*			*80.0-120*		*05/02/2017 08:48*	WG975620
(S) Toluene-d8	*104*			*80.0-120*		*05/05/2017 17:36*	WG975620
(S) Dibromofluoromethane	*102*			*76.0-123*		*05/02/2017 08:48*	WG975620
(S) Dibromofluoromethane	*104*			*76.0-123*		*05/05/2017 17:36*	WG975620
(S) 4-Bromofluorobenzene	*96.7*			*80.0-120*		*05/05/2017 17:36*	WG975620
(S) 4-Bromofluorobenzene	*102*			*80.0-120*		*05/02/2017 08:48*	WG975620

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	0.195		0.0247	0.100	1	05/09/2017 14:13	WG977596
(S) o-Terphenyl	*62.5*			*31.0-160*		*05/09/2017 14:13*	WG977596

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Dissolved Solids	4260		2.82	10.0	1	05/02/2017 15:55	WG975505

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	7.12		0.197	1.00	10	05/05/2017 10:42	WG975895

Sample Narrative:

353.2 L905668-17 WG975895: dilution due to sample matrix

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	05/02/2017 10:58	WG975005

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	136		2.60	50.0	50	05/02/2017 19:23	WG975537
Fluoride	0.446		0.00990	0.100	1	05/02/2017 19:07	WG975537
Sulfate	2280		3.87	250	50	05/02/2017 19:23	WG975537

Mercury by Method 7470A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Mercury	U		0.0000490	0.000200	1	05/02/2017 15:31	WG974957
Mercury,Dissolved	U		0.0000490	0.000200	1	05/02/2017 14:37	WG974958

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.00149	J	0.000250	0.00200	1	05/04/2017 22:22	WG975076
Arsenic,Dissolved	0.00145	J	0.000250	0.00200	1	05/03/2017 01:34	WG975067
Barium	0.0157		0.000360	0.00500	1	05/04/2017 22:22	WG975076
Barium,Dissolved	0.0155		0.000360	0.00500	1	05/03/2017 01:34	WG975067
Boron	0.492		0.00150	0.0200	1	05/05/2017 08:39	WG975076
Boron,Dissolved	0.560		0.00150	0.0200	1	05/03/2017 21:31	WG975067
Cadmium	U		0.000160	0.00100	1	05/04/2017 22:22	WG975076
Cadmium,Dissolved	U		0.000160	0.00100	1	05/03/2017 01:34	WG975067
Calcium	541		0.0460	1.00	1	05/04/2017 22:22	WG975076
Chromium	U		0.000540	0.00200	1	05/04/2017 22:22	WG975076
Chromium,Dissolved	U		0.000540	0.00200	1	05/03/2017 01:34	WG975067
Cobalt	U		0.000260	0.00200	1	05/04/2017 22:22	WG975076
Cobalt,Dissolved	U		0.000260	0.00200	1	05/03/2017 01:34	WG975067
Iron	U		0.0150	0.100	1	05/04/2017 22:22	WG975076
Iron,Dissolved	U		0.0150	0.100	1	05/03/2017 01:34	WG975067
Lead	U		0.000240	0.00200	1	05/04/2017 22:22	WG975076
Lead,Dissolved	U		0.000240	0.00200	1	05/03/2017 01:34	WG975067
Manganese	0.00213	J	0.000250	0.00500	1	05/04/2017 22:22	WG975076
Manganese,Dissolved	0.00171	B J	0.000250	0.00500	1	05/03/2017 01:34	WG975067
Nickel	U		0.000350	0.00200	1	05/04/2017 22:22	WG975076
Nickel,Dissolved	0.000403	B J	0.000350	0.00200	1	05/03/2017 01:34	WG975067
Potassium	0.786	J	0.0370	1.00	1	05/04/2017 22:22	WG975076

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Selenium	0.00372	B	0.000380	0.00200	1	05/04/2017 22:22	WG975076
Selenium,Dissolved	0.00361		0.000380	0.00200	1	05/03/2017 01:34	WG975067
Sodium	131		0.110	1.00	1	05/04/2017 22:22	WG975076
Uranium	0.0260		0.000330	0.0100	1	05/04/2017 22:22	WG975076
Uranium,Dissolved	0.0290		0.000330	0.0100	1	05/03/2017 01:34	WG975067
Vanadium	0.0112		0.000180	0.00500	1	05/04/2017 22:22	WG975076
Vanadium,Dissolved	0.0121		0.000180	0.00500	1	05/03/2017 01:34	WG975067

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	05/01/2017 04:56	WG975302
(S) a,a,a-Trifluorotoluene(FID)	*100*			*77.0-122*		*05/01/2017 04:56*	WG975302

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		0.0100	0.0500	1	05/02/2017 09:09	WG975620
Benzene	U		0.000331	0.00100	1	05/02/2017 09:09	WG975620
Bromodichloromethane	U		0.000380	0.00100	1	05/02/2017 09:09	WG975620
Bromoform	U		0.000469	0.00100	1	05/02/2017 09:09	WG975620
Bromomethane	U		0.000866	0.00500	1	05/02/2017 09:09	WG975620
n-Butylbenzene	U		0.000361	0.00100	1	05/02/2017 09:09	WG975620
sec-Butylbenzene	U		0.000365	0.00100	1	05/02/2017 09:09	WG975620
Carbon disulfide	U		0.000275	0.00100	1	05/02/2017 09:09	WG975620
Carbon tetrachloride	U		0.000379	0.00100	1	05/02/2017 09:09	WG975620
Chlorobenzene	U		0.000348	0.00100	1	05/02/2017 09:09	WG975620
Chlorodibromomethane	U		0.000327	0.00100	1	05/02/2017 09:09	WG975620
Chloroethane	U		0.000453	0.00500	1	05/02/2017 09:09	WG975620
Chloroform	U		0.000324	0.00500	1	05/02/2017 09:09	WG975620
Chloromethane	U		0.000276	0.00250	1	05/02/2017 09:09	WG975620
1,2-Dibromoethane	U		0.000381	0.00100	1	05/02/2017 09:09	WG975620
1,1-Dichloroethane	U		0.000259	0.00100	1	05/02/2017 09:09	WG975620
1,2-Dichloroethane	U		0.000361	0.00100	1	05/02/2017 09:09	WG975620
1,1-Dichloroethene	U		0.000398	0.00100	1	05/02/2017 09:09	WG975620
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	05/02/2017 09:09	WG975620
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	05/02/2017 09:09	WG975620
1,2-Dichloropropane	U		0.000306	0.00100	1	05/02/2017 09:09	WG975620
cis-1,3-Dichloropropene	U		0.000418	0.00100	1	05/02/2017 09:09	WG975620
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	05/02/2017 09:09	WG975620
Ethylbenzene	U		0.000384	0.00100	1	05/02/2017 09:09	WG975620
Isopropylbenzene	U		0.000326	0.00100	1	05/02/2017 09:09	WG975620
p-Isopropyltoluene	U		0.000350	0.00100	1	05/02/2017 09:09	WG975620
2-Butanone (MEK)	U		0.00393	0.0100	1	05/02/2017 09:09	WG975620
2-Hexanone	U		0.00382	0.0100	1	05/02/2017 09:09	WG975620
Methylene Chloride	U		0.00100	0.00500	1	05/02/2017 09:09	WG975620
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	05/02/2017 09:09	WG975620
Methyl tert-butyl ether	U		0.000367	0.00100	1	05/02/2017 09:09	WG975620
Naphthalene	U		0.00100	0.00500	1	05/02/2017 09:09	WG975620
n-Propylbenzene	U		0.000349	0.00100	1	05/02/2017 09:09	WG975620
Styrene	U		0.000307	0.00100	1	05/02/2017 09:09	WG975620
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	05/02/2017 09:09	WG975620
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	05/02/2017 09:09	WG975620
Tetrachloroethene	U		0.000372	0.00100	1	05/02/2017 09:09	WG975620
Toluene	U		0.000412	0.00100	1	05/02/2017 09:09	WG975620

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
1,1,1-Trichloroethane	U		0.000319	0.00100	1	05/02/2017 09:09	WG975620
1,1,2-Trichloroethane	U		0.000383	0.00100	1	05/02/2017 09:09	WG975620
Trichloroethene	U		0.000398	0.00100	1	05/02/2017 09:09	WG975620
1,2,4-Trimethylbenzene	U		0.000373	0.00100	1	05/02/2017 09:09	WG975620
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	05/02/2017 09:09	WG975620
Vinyl chloride	U		0.000259	0.00100	1	05/02/2017 09:09	WG975620
o-Xylene	U		0.000341	0.00100	1	05/02/2017 09:09	WG975620
m&p-Xylene	U		0.000719	0.00200	1	05/02/2017 09:09	WG975620
Xylenes, Total	U		0.00106	0.00300	1	05/02/2017 09:09	WG975620
(S) Toluene-d8	*103*			*80.0-120*		*05/02/2017 09:09*	WG975620
(S) Dibromofluoromethane	*103*			*76.0-123*		*05/02/2017 09:09*	WG975620
(S) 4-Bromofluorobenzene	*98.2*			*80.0-120*		*05/02/2017 09:09*	WG975620

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	0.0359	J	0.0247	0.100	1	05/09/2017 14:31	WG977596
(S) o-Terphenyl	*61.7*			*31.0-160*		*05/09/2017 14:31*	WG977596

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Dissolved Solids	3880		2.82	10.0	1	05/02/2017 15:55	WG975505

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	6.87		0.197	1.00	10	05/03/2017 15:29	WG975896

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	05/02/2017 10:59	WG975005

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	144		2.60	50.0	50	05/02/2017 19:53	WG975537
Fluoride	0.419		0.00990	0.100	1	05/02/2017 19:38	WG975537
Sulfate	2410		3.87	250	50	05/02/2017 19:53	WG975537

Mercury by Method 7470A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Mercury	U		0.0000490	0.000200	1	05/02/2017 15:59	WG974957
Mercury,Dissolved	U		0.0000490	0.000200	1	05/02/2017 14:39	WG974958

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.00157	J	0.000250	0.00200	1	05/04/2017 22:25	WG975076
Arsenic,Dissolved	0.00158	J	0.000250	0.00200	1	05/03/2017 01:38	WG975067
Barium	0.00901		0.000360	0.00500	1	05/04/2017 22:25	WG975076
Barium,Dissolved	0.0101		0.000360	0.00500	1	05/03/2017 01:38	WG975067
Boron	0.525		0.00150	0.0200	1	05/05/2017 08:42	WG975076
Boron,Dissolved	0.603		0.00150	0.0200	1	05/03/2017 21:34	WG975067
Cadmium	U		0.000160	0.00100	1	05/04/2017 22:25	WG975076
Cadmium,Dissolved	U		0.000160	0.00100	1	05/03/2017 01:38	WG975067
Calcium	554		0.0460	1.00	1	05/04/2017 22:25	WG975076
Chromium	U		0.000540	0.00200	1	05/04/2017 22:25	WG975076
Chromium,Dissolved	U		0.000540	0.00200	1	05/03/2017 01:38	WG975067
Cobalt	U		0.000260	0.00200	1	05/04/2017 22:25	WG975076
Cobalt,Dissolved	U		0.000260	0.00200	1	05/03/2017 01:38	WG975067
Iron	U		0.0150	0.100	1	05/04/2017 22:25	WG975076
Iron,Dissolved	U		0.0150	0.100	1	05/03/2017 01:38	WG975067
Lead	U		0.000240	0.00200	1	05/04/2017 22:25	WG975076
Lead,Dissolved	U		0.000240	0.00200	1	05/03/2017 01:38	WG975067
Manganese	0.00232	J	0.000250	0.00500	1	05/04/2017 22:25	WG975076
Manganese,Dissolved	0.000491	B J	0.000250	0.00500	1	05/03/2017 01:38	WG975067
Nickel	U		0.000350	0.00200	1	05/04/2017 22:25	WG975076
Nickel,Dissolved	0.000610	B J	0.000350	0.00200	1	05/03/2017 01:38	WG975067
Potassium	0.641	J	0.0370	1.00	1	05/04/2017 22:25	WG975076
Selenium	0.00382	B	0.000380	0.00200	1	05/04/2017 22:25	WG975076
Selenium,Dissolved	0.00354		0.000380	0.00200	1	05/03/2017 01:38	WG975067
Sodium	135		0.110	1.00	1	05/04/2017 22:25	WG975076

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Uranium	0.0273		0.000330	0.0100	1	05/04/2017 22:25	WG975076
Uranium,Dissolved	0.0307		0.000330	0.0100	1	05/03/2017 01:38	WG975067
Vanadium	0.0122		0.000180	0.00500	1	05/04/2017 22:25	WG975076
Vanadium,Dissolved	0.0120		0.000180	0.00500	1	05/03/2017 01:38	WG975067

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
TPH (GC/FID) Low Fraction	U		0.0314	0.100	1	04/30/2017 19:57	WG975303
(S) a,a,a-Trifluorotoluene(FID)	*101*			*77.0-122*		*04/30/2017 19:57*	WG975303

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		0.0100	0.0500	1	05/02/2017 09:30	WG975620
Benzene	U		0.000331	0.00100	1	05/02/2017 09:30	WG975620
Bromodichloromethane	U		0.000380	0.00100	1	05/02/2017 09:30	WG975620
Bromoform	U		0.000469	0.00100	1	05/02/2017 09:30	WG975620
Bromomethane	U		0.000866	0.00500	1	05/02/2017 09:30	WG975620
n-Butylbenzene	U		0.000361	0.00100	1	05/02/2017 09:30	WG975620
sec-Butylbenzene	U		0.000365	0.00100	1	05/02/2017 09:30	WG975620
Carbon disulfide	U		0.000275	0.00100	1	05/02/2017 09:30	WG975620
Carbon tetrachloride	U		0.000379	0.00100	1	05/02/2017 09:30	WG975620
Chlorobenzene	U		0.000348	0.00100	1	05/02/2017 09:30	WG975620
Chlorodibromomethane	U		0.000327	0.00100	1	05/02/2017 09:30	WG975620
Chloroethane	U		0.000453	0.00500	1	05/02/2017 09:30	WG975620
Chloroform	U		0.000324	0.00500	1	05/02/2017 09:30	WG975620
Chloromethane	U		0.000276	0.00250	1	05/02/2017 09:30	WG975620
1,2-Dibromoethane	U		0.000381	0.00100	1	05/02/2017 09:30	WG975620
1,1-Dichloroethane	U		0.000259	0.00100	1	05/02/2017 09:30	WG975620
1,2-Dichloroethane	U		0.000361	0.00100	1	05/02/2017 09:30	WG975620
1,1-Dichloroethene	U		0.000398	0.00100	1	05/02/2017 09:30	WG975620
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	05/02/2017 09:30	WG975620
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	05/02/2017 09:30	WG975620
1,2-Dichloropropane	U		0.000306	0.00100	1	05/02/2017 09:30	WG975620
cis-1,3-Dichloropropene	U		0.000418	0.00100	1	05/02/2017 09:30	WG975620
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	05/02/2017 09:30	WG975620
Ethylbenzene	U		0.000384	0.00100	1	05/02/2017 09:30	WG975620
Isopropylbenzene	U		0.000326	0.00100	1	05/02/2017 09:30	WG975620
p-Isopropyltoluene	U		0.000350	0.00100	1	05/02/2017 09:30	WG975620
2-Butanone (MEK)	U		0.00393	0.0100	1	05/02/2017 09:30	WG975620
2-Hexanone	U		0.00382	0.0100	1	05/02/2017 09:30	WG975620
Methylene Chloride	U		0.00100	0.00500	1	05/02/2017 09:30	WG975620
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	05/02/2017 09:30	WG975620
Methyl tert-butyl ether	U		0.000367	0.00100	1	05/02/2017 09:30	WG975620
Naphthalene	U		0.00100	0.00500	1	05/02/2017 09:30	WG975620
n-Propylbenzene	U		0.000349	0.00100	1	05/02/2017 09:30	WG975620
Styrene	U		0.000307	0.00100	1	05/02/2017 09:30	WG975620
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	05/02/2017 09:30	WG975620
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	05/02/2017 09:30	WG975620
Tetrachloroethene	U		0.000372	0.00100	1	05/02/2017 09:30	WG975620
Toluene	U		0.000412	0.00100	1	05/02/2017 09:30	WG975620
1,1,1-Trichloroethane	U		0.000319	0.00100	1	05/02/2017 09:30	WG975620
1,1,2-Trichloroethane	U		0.000383	0.00100	1	05/02/2017 09:30	WG975620
Trichloroethene	U		0.000398	0.00100	1	05/02/2017 09:30	WG975620

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
1,2,4-Trimethylbenzene	U		0.000373	0.00100	1	05/02/2017 09:30	WG975620
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	05/02/2017 09:30	WG975620
Vinyl chloride	U		0.000259	0.00100	1	05/02/2017 09:30	WG975620
o-Xylene	U		0.000341	0.00100	1	05/02/2017 09:30	WG975620
m&p-Xylene	U		0.000719	0.00200	1	05/02/2017 09:30	WG975620
Xylenes, Total	U		0.00106	0.00300	1	05/02/2017 09:30	WG975620
(S) Toluene-d8	*102*			*80.0-120*		*05/02/2017 09:30*	WG975620
(S) Dibromofluoromethane	*105*			*76.0-123*		*05/02/2017 09:30*	WG975620
(S) 4-Bromofluorobenzene	*101*			*80.0-120*		*05/02/2017 09:30*	WG975620

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	05/05/2017 23:00	WG975550
(S) o-Terphenyl	*62.0*			*31.0-160*		*05/05/2017 23:00*	WG975550

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Dissolved Solids	3600		2.82	10.0	1	05/02/2017 15:55	WG975505

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	16.1		0.197	1.00	10	05/03/2017 15:30	WG975896

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	05/02/2017 11:02	WG975005

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	180		5.19	100	100	05/02/2017 21:10	WG975537
Fluoride	0.803		0.00990	0.100	1	05/02/2017 20:55	WG975537
Sulfate	2390		7.74	500	100	05/02/2017 21:10	WG975537

Mercury by Method 7470A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Mercury	U		0.0000490	0.000200	1	05/02/2017 16:01	WG974957
Mercury,Dissolved	U		0.0000490	0.000200	1	05/02/2017 14:41	WG974958

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.00286		0.000250	0.00200	1	05/04/2017 22:29	WG975076
Arsenic,Dissolved	0.00251		0.000250	0.00200	1	05/03/2017 01:41	WG975067
Barium	0.0229		0.000360	0.00500	1	05/04/2017 22:29	WG975076
Barium,Dissolved	0.0181		0.000360	0.00500	1	05/03/2017 01:41	WG975067
Boron	0.294		0.00150	0.0200	1	05/05/2017 08:46	WG975076
Boron,Dissolved	0.348		0.00150	0.0200	1	05/03/2017 21:38	WG975067
Cadmium	U		0.000160	0.00100	1	05/04/2017 22:29	WG975076
Cadmium,Dissolved	0.000738	J	0.000160	0.00100	1	05/03/2017 01:41	WG975067
Calcium	526		0.0460	1.00	1	05/04/2017 22:29	WG975076
Chromium	0.00148	J	0.000540	0.00200	1	05/04/2017 22:29	WG975076
Chromium,Dissolved	0.000961	J	0.000540	0.00200	1	05/03/2017 01:41	WG975067
Cobalt	0.000487	J	0.000260	0.00200	1	05/04/2017 22:29	WG975076
Cobalt,Dissolved	U		0.000260	0.00200	1	05/03/2017 01:41	WG975067
Iron	1.02		0.0150	0.100	1	05/04/2017 22:29	WG975076
Iron,Dissolved	U		0.0150	0.100	1	05/03/2017 01:41	WG975067
Lead	0.00107	J	0.000240	0.00200	1	05/04/2017 22:29	WG975076
Lead,Dissolved	0.000617	J	0.000240	0.00200	1	05/03/2017 01:41	WG975067
Manganese	0.0234		0.000250	0.00500	1	05/04/2017 22:29	WG975076
Manganese,Dissolved	0.000700	B J	0.000250	0.00500	1	05/03/2017 01:41	WG975067
Nickel	0.00119	J	0.000350	0.00200	1	05/04/2017 22:29	WG975076
Nickel,Dissolved	0.00154	B J	0.000350	0.00200	1	05/03/2017 01:41	WG975067
Potassium	1.18		0.0370	1.00	1	05/04/2017 22:29	WG975076
Selenium	0.0130		0.000380	0.00200	1	05/04/2017 22:29	WG975076
Selenium,Dissolved	0.0126		0.000380	0.00200	1	05/03/2017 01:41	WG975067
Sodium	200		0.110	1.00	1	05/04/2017 22:29	WG975076

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Uranium	0.0227		0.000330	0.0100	1	05/04/2017 22:29	WG975076
Uranium,Dissolved	0.0254		0.000330	0.0100	1	05/03/2017 01:41	WG975067
Vanadium	0.0213		0.000180	0.00500	1	05/04/2017 22:29	WG975076
Vanadium,Dissolved	0.0197		0.000180	0.00500	1	05/03/2017 01:41	WG975067

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		0.0100	0.0500	1	05/02/2017 09:51	WG975620
Benzene	U		0.000331	0.00100	1	05/02/2017 09:51	WG975620
Bromodichloromethane	U		0.000380	0.00100	1	05/02/2017 09:51	WG975620
Bromoform	U		0.000469	0.00100	1	05/02/2017 09:51	WG975620
Bromomethane	U		0.000866	0.00500	1	05/02/2017 09:51	WG975620
n-Butylbenzene	U		0.000361	0.00100	1	05/02/2017 09:51	WG975620
sec-Butylbenzene	U		0.000365	0.00100	1	05/02/2017 09:51	WG975620
Carbon disulfide	U		0.000275	0.00100	1	05/02/2017 09:51	WG975620
Carbon tetrachloride	U		0.000379	0.00100	1	05/02/2017 09:51	WG975620
Chlorobenzene	U		0.000348	0.00100	1	05/02/2017 09:51	WG975620
Chlorodibromomethane	U		0.000327	0.00100	1	05/02/2017 09:51	WG975620
Chloroethane	U		0.000453	0.00500	1	05/02/2017 09:51	WG975620
Chloroform	U		0.000324	0.00500	1	05/02/2017 09:51	WG975620
Chloromethane	U		0.000276	0.00250	1	05/02/2017 09:51	WG975620
1,2-Dibromoethane	U		0.000381	0.00100	1	05/02/2017 09:51	WG975620
1,1-Dichloroethane	U		0.000259	0.00100	1	05/02/2017 09:51	WG975620
1,2-Dichloroethane	U		0.000361	0.00100	1	05/02/2017 09:51	WG975620
1,1-Dichloroethene	U		0.000398	0.00100	1	05/02/2017 09:51	WG975620
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	05/02/2017 09:51	WG975620
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	05/02/2017 09:51	WG975620
1,2-Dichloropropane	U		0.000306	0.00100	1	05/02/2017 09:51	WG975620
cis-1,3-Dichloropropene	U		0.000418	0.00100	1	05/02/2017 09:51	WG975620
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	05/02/2017 09:51	WG975620
Ethylbenzene	U		0.000384	0.00100	1	05/02/2017 09:51	WG975620
Isopropylbenzene	U		0.000326	0.00100	1	05/02/2017 09:51	WG975620
p-Isopropyltoluene	U		0.000350	0.00100	1	05/02/2017 09:51	WG975620
2-Butanone (MEK)	U		0.00393	0.0100	1	05/02/2017 09:51	WG975620
2-Hexanone	U		0.00382	0.0100	1	05/02/2017 09:51	WG975620
Methylene Chloride	U		0.00100	0.00500	1	05/02/2017 09:51	WG975620
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	05/02/2017 09:51	WG975620
Methyl tert-butyl ether	U		0.000367	0.00100	1	05/02/2017 09:51	WG975620
Naphthalene	U		0.00100	0.00500	1	05/02/2017 09:51	WG975620
n-Propylbenzene	U		0.000349	0.00100	1	05/02/2017 09:51	WG975620
Styrene	U		0.000307	0.00100	1	05/02/2017 09:51	WG975620
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	05/02/2017 09:51	WG975620
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	05/02/2017 09:51	WG975620
Tetrachloroethene	U		0.000372	0.00100	1	05/02/2017 09:51	WG975620
Toluene	U		0.000412	0.00100	1	05/02/2017 09:51	WG975620
1,1,1-Trichloroethane	U		0.000319	0.00100	1	05/02/2017 09:51	WG975620
1,1,2-Trichloroethane	U		0.000383	0.00100	1	05/02/2017 09:51	WG975620
Trichloroethene	U		0.000398	0.00100	1	05/02/2017 09:51	WG975620
1,2,4-Trimethylbenzene	U		0.000373	0.00100	1	05/02/2017 09:51	WG975620
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	05/02/2017 09:51	WG975620
Vinyl chloride	U		0.000259	0.00100	1	05/02/2017 09:51	WG975620
o-Xylene	U		0.000341	0.00100	1	05/02/2017 09:51	WG975620
m&p-Xylene	U		0.000719	0.00200	1	05/02/2017 09:51	WG975620
Xylenes, Total	U		0.00106	0.00300	1	05/02/2017 09:51	WG975620
(S) Toluene-d8	*104*			*80.0-120*		*05/02/2017 09:51*	WG975620

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) Dibromofluoromethane	*103*			*76.0-123*		*05/02/2017 09:51*	WG975620
(S) 4-Bromofluorobenzene	*101*			*80.0-120*		*05/02/2017 09:51*	WG975620

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	0.0370	J	0.0247	0.100	1	05/09/2017 14:49	WG977596
(S) o-Terphenyl	*59.7*			*31.0-160*		*05/09/2017 14:49*	WG977596

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Dissolved Solids	1550		2.82	10.0	1	05/02/2017 15:55	WG975505

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	U		0.197	1.00	10	05/03/2017 15:31	WG975896

Sample Narrative:

353.2 L905668-20 WG975896: 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	258		0.519	10.0	10	05/04/2017 14:17	WG976223
Fluoride	1.09		0.00990	0.100	1	05/04/2017 13:42	WG976223
Sulfate	11.3		0.0774	5.00	1	05/04/2017 13:42	WG976223

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.0123		0.000250	0.00200	1	05/04/2017 23:51	WG975076
Arsenic,Dissolved	0.0130		0.000250	0.00200	1	05/03/2017 02:41	WG975067
Barium	5.06		0.000360	0.00500	1	05/04/2017 23:51	WG975076
Barium,Dissolved	5.01		0.000360	0.00500	1	05/03/2017 02:41	WG975067
Calcium	120		0.0460	1.00	1	05/04/2017 23:51	WG975076
Chromium	U		0.000540	0.00200	1	05/04/2017 23:51	WG975076
Chromium,Dissolved	0.000792	J	0.000540	0.00200	1	05/03/2017 02:41	WG975067
Iron	0.201		0.0150	0.100	1	05/04/2017 23:51	WG975076
Iron,Dissolved	0.0205	J	0.0150	0.100	1	05/03/2017 02:41	WG975067
Lead	0.00242		0.000240	0.00200	1	05/04/2017 23:51	WG975076
Lead,Dissolved	0.00177	J	0.000240	0.00200	1	05/03/2017 02:41	WG975067
Manganese	0.0231		0.000250	0.00500	1	05/04/2017 23:51	WG975076
Manganese,Dissolved	0.0252		0.000250	0.00500	1	05/03/2017 02:41	WG975067
Potassium	0.504	J	0.0370	1.00	1	05/04/2017 23:51	WG975076
Selenium	0.000673	B J	0.000380	0.00200	1	05/04/2017 23:51	WG975076
Selenium,Dissolved	0.000638	J	0.000380	0.00200	1	05/03/2017 02:41	WG975067
Sodium	379		0.110	1.00	1	05/04/2017 23:51	WG975076

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	26.4		0.785	2.50	25	04/30/2017 20:20	WG975303
(S) a,a,a-Trifluorotoluene(FID)	*98.0*			*77.0-122*		*04/30/2017 20:20*	WG975303

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		0.200	1.00	20	05/02/2017 10:12	WG975620
Benzene	8.38		0.0662	0.200	200	05/05/2017 19:05	WG975620
Bromodichloromethane	U		0.00760	0.0200	20	05/02/2017 10:12	WG975620
Bromoform	U		0.00938	0.0200	20	05/02/2017 10:12	WG975620
Bromomethane	U		0.0173	0.100	20	05/02/2017 10:12	WG975620
n-Butylbenzene	0.0125	J	0.00722	0.0200	20	05/02/2017 10:12	WG975620

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	0.0152	J	0.00730	0.0200	20	05/02/2017 10:12	WG975620
Carbon disulfide	U		0.00550	0.0200	20	05/02/2017 10:12	WG975620
Carbon tetrachloride	U		0.00758	0.0200	20	05/02/2017 10:12	WG975620
Chlorobenzene	U		0.00696	0.0200	20	05/02/2017 10:12	WG975620
Chlorodibromomethane	U		0.00654	0.0200	20	05/02/2017 10:12	WG975620
Chloroethane	U		0.00906	0.100	20	05/02/2017 10:12	WG975620
Chloroform	U		0.00648	0.100	20	05/02/2017 10:12	WG975620
Chloromethane	U		0.00552	0.0500	20	05/02/2017 10:12	WG975620
1,2-Dibromoethane	U		0.00762	0.0200	20	05/02/2017 10:12	WG975620
1,1-Dichloroethane	U		0.00518	0.0200	20	05/02/2017 10:12	WG975620
1,2-Dichloroethane	U		0.00722	0.0200	20	05/02/2017 10:12	WG975620
1,1-Dichloroethene	U		0.00796	0.0200	20	05/02/2017 10:12	WG975620
cis-1,2-Dichloroethene	U		0.00520	0.0200	20	05/02/2017 10:12	WG975620
trans-1,2-Dichloroethene	U		0.00792	0.0200	20	05/02/2017 10:12	WG975620
1,2-Dichloropropane	U		0.00612	0.0200	20	05/02/2017 10:12	WG975620
cis-1,3-Dichloropropene	U		0.00836	0.0200	20	05/02/2017 10:12	WG975620
trans-1,3-Dichloropropene	U		0.00838	0.0200	20	05/02/2017 10:12	WG975620
Ethylbenzene	0.726		0.00768	0.0200	20	05/02/2017 10:12	WG975620
Isopropylbenzene	0.0401		0.00652	0.0200	20	05/02/2017 10:12	WG975620
p-Isopropyltoluene	U		0.00700	0.0200	20	05/02/2017 10:12	WG975620
2-Butanone (MEK)	U		0.0786	0.200	20	05/02/2017 10:12	WG975620
2-Hexanone	U		0.0764	0.200	20	05/02/2017 10:12	WG975620
Methylene Chloride	U		0.0200	0.100	20	05/02/2017 10:12	WG975620
4-Methyl-2-pentanone (MIBK)	U		0.0428	0.200	20	05/02/2017 10:12	WG975620
Methyl tert-butyl ether	1.87		0.00734	0.0200	20	05/02/2017 10:12	WG975620
Naphthalene	0.200		0.0200	0.100	20	05/02/2017 10:12	WG975620
n-Propylbenzene	0.0725		0.00698	0.0200	20	05/02/2017 10:12	WG975620
Styrene	U		0.00614	0.0200	20	05/02/2017 10:12	WG975620
1,1,1,2-Tetrachloroethane	U		0.00770	0.0200	20	05/02/2017 10:12	WG975620
1,1,2,2-Tetrachloroethane	U		0.00260	0.0200	20	05/02/2017 10:12	WG975620
Tetrachloroethene	U		0.00744	0.0200	20	05/02/2017 10:12	WG975620
Toluene	0.243		0.00824	0.0200	20	05/02/2017 10:12	WG975620
1,1,1-Trichloroethane	U		0.00638	0.0200	20	05/02/2017 10:12	WG975620
1,1,2-Trichloroethane	U		0.00766	0.0200	20	05/02/2017 10:12	WG975620
Trichloroethene	U		0.00796	0.0200	20	05/02/2017 10:12	WG975620
1,2,4-Trimethylbenzene	0.291		0.00746	0.0200	20	05/02/2017 10:12	WG975620
1,3,5-Trimethylbenzene	0.0282		0.00774	0.0200	20	05/02/2017 10:12	WG975620
Vinyl chloride	U		0.00518	0.0200	20	05/02/2017 10:12	WG975620
o-Xylene	0.0189	J	0.00682	0.0200	20	05/02/2017 10:12	WG975620
m&p-Xylene	0.372		0.0144	0.0400	20	05/02/2017 10:12	WG975620
Xylenes, Total	0.391		0.0212	0.0600	20	05/02/2017 10:12	WG975620
(S) Toluene-d8	*103*			*80.0-120*		*05/02/2017 10:12*	WG975620
(S) Toluene-d8	*105*			*80.0-120*		*05/05/2017 19:05*	WG975620
(S) Dibromofluoromethane	*101*			*76.0-123*		*05/05/2017 19:05*	WG975620
(S) Dibromofluoromethane	*111*			*76.0-123*		*05/02/2017 10:12*	WG975620
(S) 4-Bromofluorobenzene	*98.6*			*80.0-120*		*05/05/2017 19:05*	WG975620
(S) 4-Bromofluorobenzene	*103*			*80.0-120*		*05/02/2017 10:12*	WG975620

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	11.9		0.124	0.500	5	05/08/2017 16:14	WG975550
(S) o-Terphenyl	*67.5*			*31.0-160*		*05/08/2017 16:14*	WG975550

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Dissolved Solids	1510		2.82	10.0	1	05/02/2017 15:55	WG975505

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	U		0.197	1.00	10	05/03/2017 15:32	WG975896

Sample Narrative:

353.2 L905668-21 WG975896: 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	280		5.19	100	100	05/02/2017 22:12	WG975537
Fluoride	0.977		0.00990	0.100	1	05/02/2017 21:57	WG975537
Sulfate	318		0.387	25.0	5	05/04/2017 14:35	WG976223

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.00340		0.000250	0.00200	1	05/04/2017 23:55	WG975076
Arsenic,Dissolved	0.00381		0.000250	0.00200	1	05/03/2017 01:13	WG975067
Barium	0.0732		0.000360	0.00500	1	05/04/2017 23:55	WG975076
Barium,Dissolved	0.0709		0.000360	0.00500	1	05/03/2017 01:13	WG975067
Calcium	151		0.0460	1.00	1	05/04/2017 23:55	WG975076
Chromium	U		0.000540	0.00200	1	05/04/2017 23:55	WG975076
Chromium,Dissolved	0.000690	J	0.000540	0.00200	1	05/03/2017 01:13	WG975067
Iron	0.192		0.0150	0.100	1	05/04/2017 23:55	WG975076
Iron,Dissolved	U		0.0150	0.100	1	05/03/2017 01:13	WG975067
Lead	0.000419	J	0.000240	0.00200	1	05/04/2017 23:55	WG975076
Lead,Dissolved	U		0.000240	0.00200	1	05/03/2017 01:13	WG975067
Manganese	0.0261		0.000250	0.00500	1	05/04/2017 23:55	WG975076
Manganese,Dissolved	0.0245	O1	0.000250	0.00500	1	05/03/2017 01:13	WG975067
Potassium	1.50		0.0370	1.00	1	05/04/2017 23:55	WG975076
Selenium	U		0.000380	0.00200	1	05/04/2017 23:55	WG975076
Selenium,Dissolved	U		0.000380	0.00200	1	05/03/2017 01:13	WG975067
Sodium	177		0.110	1.00	1	05/04/2017 23:55	WG975076

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	0.0509	J	0.0500	0.250	5	05/01/2017 18:58	WG975624
Benzene	0.0294		0.00166	0.00500	5	05/01/2017 18:58	WG975624
Bromodichloromethane	U		0.00190	0.00500	5	05/01/2017 18:58	WG975624
Bromoform	U		0.00234	0.00500	5	05/01/2017 18:58	WG975624
Bromomethane	U	J4	0.00433	0.0250	5	05/01/2017 18:58	WG975624
n-Butylbenzene	U		0.00180	0.00500	5	05/01/2017 18:58	WG975624
sec-Butylbenzene	0.00213	J	0.00182	0.00500	5	05/01/2017 18:58	WG975624
Carbon disulfide	0.00239	J	0.00138	0.00500	5	05/01/2017 18:58	WG975624
Carbon tetrachloride	U		0.00190	0.00500	5	05/01/2017 18:58	WG975624
Chlorobenzene	U		0.00174	0.00500	5	05/01/2017 18:58	WG975624
Chlorodibromomethane	U		0.00164	0.00500	5	05/01/2017 18:58	WG975624
Chloroethane	U		0.00226	0.0250	5	05/01/2017 18:58	WG975624
Chloroform	U		0.00162	0.0250	5	05/01/2017 18:58	WG975624

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

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloromethane	U		0.00138	0.0125	5	05/01/2017 18:58	WG975624
1,2-Dibromoethane	U		0.00190	0.00500	5	05/01/2017 18:58	WG975624
1,1-Dichloroethane	U		0.00130	0.00500	5	05/01/2017 18:58	WG975624
1,2-Dichloroethane	U		0.00180	0.00500	5	05/01/2017 18:58	WG975624
1,1-Dichloroethene	U		0.00199	0.00500	5	05/01/2017 18:58	WG975624
cis-1,2-Dichloroethene	U		0.00130	0.00500	5	05/01/2017 18:58	WG975624
trans-1,2-Dichloroethene	U		0.00198	0.00500	5	05/01/2017 18:58	WG975624
1,2-Dichloropropane	U		0.00153	0.00500	5	05/01/2017 18:58	WG975624
cis-1,3-Dichloropropene	U		0.00209	0.00500	5	05/01/2017 18:58	WG975624
trans-1,3-Dichloropropene	U		0.00210	0.00500	5	05/01/2017 18:58	WG975624
Ethylbenzene	U		0.00192	0.00500	5	05/01/2017 18:58	WG975624
Isopropylbenzene	0.00716		0.00163	0.00500	5	05/01/2017 18:58	WG975624
p-Isopropyltoluene	U		0.00175	0.00500	5	05/01/2017 18:58	WG975624
2-Butanone (MEK)	U		0.0196	0.0500	5	05/01/2017 18:58	WG975624
2-Hexanone	U		0.0191	0.0500	5	05/01/2017 18:58	WG975624
Methylene Chloride	U		0.00500	0.0250	5	05/01/2017 18:58	WG975624
4-Methyl-2-pentanone (MIBK)	U		0.0107	0.0500	5	05/01/2017 18:58	WG975624
Methyl tert-butyl ether	0.132		0.00184	0.00500	5	05/01/2017 18:58	WG975624
Naphthalene	U		0.00500	0.0250	5	05/01/2017 18:58	WG975624
n-Propylbenzene	0.00532		0.00174	0.00500	5	05/01/2017 18:58	WG975624
Styrene	U		0.00154	0.00500	5	05/01/2017 18:58	WG975624
1,1,1,2-Tetrachloroethane	U		0.00192	0.00500	5	05/01/2017 18:58	WG975624
1,1,2,2-Tetrachloroethane	U		0.000650	0.00500	5	05/01/2017 18:58	WG975624
Tetrachloroethene	U		0.00186	0.00500	5	05/01/2017 18:58	WG975624
Toluene	U		0.00206	0.00500	5	05/01/2017 18:58	WG975624
1,1,1-Trichloroethane	U		0.00160	0.00500	5	05/01/2017 18:58	WG975624
1,1,2-Trichloroethane	U		0.00192	0.00500	5	05/01/2017 18:58	WG975624
Trichloroethene	U		0.00199	0.00500	5	05/01/2017 18:58	WG975624
1,2,4-Trimethylbenzene	U		0.00186	0.00500	5	05/01/2017 18:58	WG975624
1,3,5-Trimethylbenzene	U		0.00194	0.00500	5	05/01/2017 18:58	WG975624
Vinyl chloride	U		0.00130	0.00500	5	05/01/2017 18:58	WG975624
o-Xylene	U		0.00170	0.00500	5	05/01/2017 18:58	WG975624
m&p-Xylene	U		0.00360	0.0100	5	05/01/2017 18:58	WG975624
Xylenes, Total	U		0.00530	0.0150	5	05/01/2017 18:58	WG975624
(S) Toluene-d8	*107*			*80.0-120*		*05/01/2017 18:58*	WG975624
(S) Dibromofluoromethane	*108*			*76.0-123*		*05/01/2017 18:58*	WG975624
(S) 4-Bromofluorobenzene	*94.6*			*80.0-120*		*05/01/2017 18:58*	WG975624

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	2.35		0.0247	0.100	1	05/05/2017 23:52	WG975550
(S) o-Terphenyl	*68.3*			*31.0-160*		*05/05/2017 23:52*	WG975550

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Dissolved Solids	1370		2.82	10.0	1	05/02/2017 15:55	WG975505

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	U		0.197	1.00	10	05/03/2017 15:33	WG975896

Sample Narrative:

353.2 L905668-22 WG975896: 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	284		5.19	100	100	05/02/2017 22:43	WG975537
Fluoride	0.758		0.00990	0.100	1	05/02/2017 22:27	WG975537
Sulfate	169		0.387	25.0	5	05/04/2017 14:52	WG976223

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.00772		0.000250	0.00200	1	05/02/2017 03:03	WG975077
Arsenic,Dissolved	0.00811		0.000250	0.00200	1	05/03/2017 02:45	WG975067
Barium	0.297		0.000360	0.00500	1	05/02/2017 03:03	WG975077
Barium,Dissolved	0.339		0.000360	0.00500	1	05/03/2017 02:45	WG975067
Calcium	161		0.0460	1.00	1	05/02/2017 03:03	WG975077
Chromium	U		0.000540	0.00200	1	05/02/2017 03:03	WG975077
Chromium,Dissolved	U		0.000540	0.00200	1	05/03/2017 02:45	WG975067
Iron	0.204		0.0150	0.100	1	05/02/2017 03:03	WG975077
Iron,Dissolved	U		0.0150	0.100	1	05/03/2017 02:45	WG975067
Lead	0.00116	J	0.000240	0.00200	1	05/02/2017 03:03	WG975077
Lead,Dissolved	U		0.000240	0.00200	1	05/03/2017 02:45	WG975067
Manganese	0.243		0.000250	0.00500	1	05/02/2017 03:03	WG975077
Manganese,Dissolved	0.262		0.000250	0.00500	1	05/03/2017 02:45	WG975067
Potassium	0.819	J	0.0370	1.00	1	05/02/2017 03:03	WG975077
Selenium	0.0857		0.000380	0.00200	1	05/02/2017 03:03	WG975077
Selenium,Dissolved	0.000416	J	0.000380	0.00200	1	05/03/2017 02:45	WG975067
Sodium	205		0.110	1.00	1	05/02/2017 03:03	WG975077

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	14.4		0.157	0.500	5	05/07/2017 22:37	WG975303
(S) a,a,a-Trifluorotoluene(FID)	*97.6*			*77.0-122*		*05/07/2017 22:37*	WG975303

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		0.500	2.50	50	05/01/2017 19:20	WG975624
Benzene	2.79		0.0166	0.0500	50	05/01/2017 19:20	WG975624
Bromodichloromethane	U		0.0190	0.0500	50	05/01/2017 19:20	WG975624
Bromoform	U		0.0234	0.0500	50	05/01/2017 19:20	WG975624
Bromomethane	U	J4	0.0433	0.250	50	05/01/2017 19:20	WG975624
n-Butylbenzene	U		0.0180	0.0500	50	05/01/2017 19:20	WG975624

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		0.0182	0.0500	50	05/01/2017 19:20	WG975624
Carbon disulfide	U		0.0138	0.0500	50	05/01/2017 19:20	WG975624
Carbon tetrachloride	U		0.0190	0.0500	50	05/01/2017 19:20	WG975624
Chlorobenzene	U		0.0174	0.0500	50	05/01/2017 19:20	WG975624
Chlorodibromomethane	U		0.0164	0.0500	50	05/01/2017 19:20	WG975624
Chloroethane	U		0.0226	0.250	50	05/01/2017 19:20	WG975624
Chloroform	U		0.0162	0.250	50	05/01/2017 19:20	WG975624
Chloromethane	U		0.0138	0.125	50	05/01/2017 19:20	WG975624
1,2-Dibromoethane	U		0.0190	0.0500	50	05/01/2017 19:20	WG975624
1,1-Dichloroethane	U		0.0130	0.0500	50	05/01/2017 19:20	WG975624
1,2-Dichloroethane	U		0.0180	0.0500	50	05/01/2017 19:20	WG975624
1,1-Dichloroethene	U		0.0199	0.0500	50	05/01/2017 19:20	WG975624
cis-1,2-Dichloroethene	U		0.0130	0.0500	50	05/01/2017 19:20	WG975624
trans-1,2-Dichloroethene	U		0.0198	0.0500	50	05/01/2017 19:20	WG975624
1,2-Dichloropropane	U		0.0153	0.0500	50	05/01/2017 19:20	WG975624
cis-1,3-Dichloropropene	U		0.0209	0.0500	50	05/01/2017 19:20	WG975624
trans-1,3-Dichloropropene	U		0.0210	0.0500	50	05/01/2017 19:20	WG975624
Ethylbenzene	0.402		0.0192	0.0500	50	05/01/2017 19:20	WG975624
Isopropylbenzene	0.0477	J	0.0163	0.0500	50	05/01/2017 19:20	WG975624
p-Isopropyltoluene	U		0.0175	0.0500	50	05/01/2017 19:20	WG975624
2-Butanone (MEK)	U		0.196	0.500	50	05/01/2017 19:20	WG975624
2-Hexanone	U		0.191	0.500	50	05/01/2017 19:20	WG975624
Methylene Chloride	U		0.0500	0.250	50	05/01/2017 19:20	WG975624
4-Methyl-2-pentanone (MIBK)	U		0.107	0.500	50	05/01/2017 19:20	WG975624
Methyl tert-butyl ether	4.65		0.0184	0.0500	50	05/01/2017 19:20	WG975624
Naphthalene	U		0.0500	0.250	50	05/01/2017 19:20	WG975624
n-Propylbenzene	0.0667		0.0174	0.0500	50	05/01/2017 19:20	WG975624
Styrene	U		0.0154	0.0500	50	05/01/2017 19:20	WG975624
1,1,1,2-Tetrachloroethane	U		0.0192	0.0500	50	05/01/2017 19:20	WG975624
1,1,2,2-Tetrachloroethane	U		0.00650	0.0500	50	05/01/2017 19:20	WG975624
Tetrachloroethene	U		0.0186	0.0500	50	05/01/2017 19:20	WG975624
Toluene	0.0860		0.0206	0.0500	50	05/01/2017 19:20	WG975624
1,1,1-Trichloroethane	U		0.0160	0.0500	50	05/01/2017 19:20	WG975624
1,1,2-Trichloroethane	U		0.0192	0.0500	50	05/01/2017 19:20	WG975624
Trichloroethene	U		0.0199	0.0500	50	05/01/2017 19:20	WG975624
1,2,4-Trimethylbenzene	0.252		0.0186	0.0500	50	05/01/2017 19:20	WG975624
1,3,5-Trimethylbenzene	0.0196	J	0.0194	0.0500	50	05/01/2017 19:20	WG975624
Vinyl chloride	U		0.0130	0.0500	50	05/01/2017 19:20	WG975624
o-Xylene	0.106		0.0170	0.0500	50	05/01/2017 19:20	WG975624
m&p-Xylene	0.416		0.0360	0.100	50	05/01/2017 19:20	WG975624
Xylenes, Total	0.522		0.0530	0.150	50	05/01/2017 19:20	WG975624
(S) Toluene-d8	*105*			*80.0-120*		*05/01/2017 19:20*	WG975624
(S) Dibromofluoromethane	*107*			*76.0-123*		*05/01/2017 19:20*	WG975624
(S) 4-Bromofluorobenzene	*95.4*			*80.0-120*		*05/01/2017 19:20*	WG975624

Semi-Volatile Organic Compounds (GC) by 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	05/06/2017 00:10	WG975550
(S) o-Terphenyl	*67.3*			*31.0-160*		*05/06/2017 00:10*	WG975550

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Dissolved Solids	976		2.82	10.0	1	05/02/2017 16:19	WG975506

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	0.0370	J P1	0.0197	0.100	1	05/03/2017 15:39	WG975896

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	05/02/2017 11:03	WG975005

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	184		5.19	100	100	05/02/2017 23:45	WG975537
Fluoride	1.55		0.00990	0.100	1	05/02/2017 22:58	WG975537
Sulfate	0.360	J	0.0774	5.00	1	05/02/2017 22:58	WG975537

Mercury by Method 7470A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Mercury	U		0.0000490	0.000200	1	05/02/2017 16:54	WG974957
Mercury,Dissolved	U		0.0000490	0.000200	1	05/02/2017 14:48	WG974958

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.00255		0.000250	0.00200	1	05/02/2017 03:07	WG975077
Arsenic,Dissolved	0.00240		0.000250	0.00200	1	05/03/2017 01:45	WG975067
Barium	2.22		0.000360	0.00500	1	05/02/2017 03:07	WG975077
Barium,Dissolved	2.49		0.000360	0.00500	1	05/03/2017 01:45	WG975067
Boron	0.263		0.00150	0.0200	1	05/02/2017 13:06	WG975077
Boron,Dissolved	0.287		0.00150	0.0200	1	05/03/2017 21:41	WG975067
Cadmium	U		0.000160	0.00100	1	05/02/2017 03:07	WG975077
Cadmium,Dissolved	U		0.000160	0.00100	1	05/03/2017 01:45	WG975067
Calcium	115		0.0460	1.00	1	05/02/2017 03:07	WG975077
Chromium	U		0.000540	0.00200	1	05/02/2017 03:07	WG975077
Chromium,Dissolved	U		0.000540	0.00200	1	05/03/2017 01:45	WG975067
Cobalt	U		0.000260	0.00200	1	05/02/2017 03:07	WG975077
Cobalt,Dissolved	U		0.000260	0.00200	1	05/03/2017 01:45	WG975067
Iron	0.773		0.0150	0.100	1	05/02/2017 03:07	WG975077
Iron,Dissolved	0.117		0.0150	0.100	1	05/03/2017 01:45	WG975067
Lead	0.000592	J	0.000240	0.00200	1	05/02/2017 03:07	WG975077
Lead,Dissolved	U		0.000240	0.00200	1	05/03/2017 01:45	WG975067
Manganese	0.193		0.000250	0.00500	1	05/02/2017 03:07	WG975077
Manganese,Dissolved	0.202		0.000250	0.00500	1	05/03/2017 01:45	WG975067
Nickel	0.00829		0.000350	0.00200	1	05/02/2017 03:07	WG975077
Nickel,Dissolved	0.00386		0.000350	0.00200	1	05/03/2017 01:45	WG975067
Potassium	0.830	J	0.0370	1.00	1	05/02/2017 03:07	WG975077
Selenium	0.0134		0.000380	0.00200	1	05/02/2017 03:07	WG975077
Selenium,Dissolved	U		0.000380	0.00200	1	05/03/2017 01:45	WG975067
Sodium	143		0.110	1.00	1	05/02/2017 03:07	WG975077

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Uranium	U		0.000330	0.0100	1	05/02/2017 03:07	WG975077
Uranium,Dissolved	U		0.000330	0.0100	1	05/03/2017 01:45	WG975067
Vanadium	0.000535	B J	0.000180	0.00500	1	05/02/2017 03:07	WG975077
Vanadium,Dissolved	0.000408	J	0.000180	0.00500	1	05/03/2017 01:45	WG975067

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	6.04		0.0314	0.100	1	04/30/2017 21:05	WG975303
(S) a,a,a-Trifluorotoluene(FID)	*81.6*			*77.0-122*		*04/30/2017 21:05*	WG975303

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		0.500	2.50	50	05/03/2017 19:42	WG975624
Benzene	1.89		0.0166	0.0500	50	05/03/2017 19:42	WG975624
Bromodichloromethane	U		0.0190	0.0500	50	05/03/2017 19:42	WG975624
Bromoform	U		0.0234	0.0500	50	05/03/2017 19:42	WG975624
Bromomethane	U	J4	0.0433	0.250	50	05/03/2017 19:42	WG975624
n-Butylbenzene	0.0236	J	0.0180	0.0500	50	05/03/2017 19:42	WG975624
sec-Butylbenzene	U		0.0182	0.0500	50	05/03/2017 19:42	WG975624
Carbon disulfide	U		0.0138	0.0500	50	05/03/2017 19:42	WG975624
Carbon tetrachloride	U		0.0190	0.0500	50	05/03/2017 19:42	WG975624
Chlorobenzene	U		0.0174	0.0500	50	05/03/2017 19:42	WG975624
Chlorodibromomethane	U		0.0164	0.0500	50	05/03/2017 19:42	WG975624
Chloroethane	U		0.0226	0.250	50	05/03/2017 19:42	WG975624
Chloroform	U		0.0162	0.250	50	05/03/2017 19:42	WG975624
Chloromethane	U		0.0138	0.125	50	05/03/2017 19:42	WG975624
1,2-Dibromoethane	U		0.0190	0.0500	50	05/03/2017 19:42	WG975624
1,1-Dichloroethane	U		0.0130	0.0500	50	05/03/2017 19:42	WG975624
1,2-Dichloroethane	U		0.0180	0.0500	50	05/03/2017 19:42	WG975624
1,1-Dichloroethene	U		0.0199	0.0500	50	05/03/2017 19:42	WG975624
cis-1,2-Dichloroethene	U		0.0130	0.0500	50	05/03/2017 19:42	WG975624
trans-1,2-Dichloroethene	U		0.0198	0.0500	50	05/03/2017 19:42	WG975624
1,2-Dichloropropane	U		0.0153	0.0500	50	05/03/2017 19:42	WG975624
cis-1,3-Dichloropropene	U		0.0209	0.0500	50	05/03/2017 19:42	WG975624
trans-1,3-Dichloropropene	U		0.0210	0.0500	50	05/03/2017 19:42	WG975624
Ethylbenzene	U		0.0192	0.0500	50	05/03/2017 19:42	WG975624
Isopropylbenzene	0.0311	J	0.0163	0.0500	50	05/03/2017 19:42	WG975624
p-Isopropyltoluene	U		0.0175	0.0500	50	05/03/2017 19:42	WG975624
2-Butanone (MEK)	U		0.196	0.500	50	05/03/2017 19:42	WG975624
2-Hexanone	U		0.191	0.500	50	05/03/2017 19:42	WG975624
Methylene Chloride	U		0.0500	0.250	50	05/03/2017 19:42	WG975624
4-Methyl-2-pentanone (MIBK)	U		0.107	0.500	50	05/03/2017 19:42	WG975624
Methyl tert-butyl ether	1.21		0.0184	0.0500	50	05/03/2017 19:42	WG975624
Naphthalene	0.104	J	0.0500	0.250	50	05/03/2017 19:42	WG975624
n-Propylbenzene	0.0525		0.0174	0.0500	50	05/03/2017 19:42	WG975624
Styrene	U		0.0154	0.0500	50	05/03/2017 19:42	WG975624
1,1,1,2-Tetrachloroethane	U		0.0192	0.0500	50	05/03/2017 19:42	WG975624
1,1,2,2-Tetrachloroethane	U		0.00650	0.0500	50	05/03/2017 19:42	WG975624
Tetrachloroethene	U		0.0186	0.0500	50	05/03/2017 19:42	WG975624
Toluene	U		0.0206	0.0500	50	05/03/2017 19:42	WG975624
1,1,1-Trichloroethane	U		0.0160	0.0500	50	05/03/2017 19:42	WG975624
1,1,2-Trichloroethane	U		0.0192	0.0500	50	05/03/2017 19:42	WG975624
Trichloroethene	U		0.0199	0.0500	50	05/03/2017 19:42	WG975624

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
1,2,4-Trimethylbenzene	U		0.0186	0.0500	50	05/03/2017 19:42	WG975624
1,3,5-Trimethylbenzene	U		0.0194	0.0500	50	05/03/2017 19:42	WG975624
Vinyl chloride	U		0.0130	0.0500	50	05/03/2017 19:42	WG975624
o-Xylene	U		0.0170	0.0500	50	05/03/2017 19:42	WG975624
m&p-Xylene	U		0.0360	0.100	50	05/03/2017 19:42	WG975624
Xylenes, Total	U		0.0530	0.150	50	05/03/2017 19:42	WG975624
(S) Toluene-d8	*101*			*80.0-120*		*05/03/2017 19:42*	WG975624
(S) Dibromofluoromethane	*98.2*			*76.0-123*		*05/03/2017 19:42*	WG975624
(S) 4-Bromofluorobenzene	*99.8*			*80.0-120*		*05/03/2017 19:42*	WG975624

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
TPH (GC/FID) High Fraction	4.18		0.0247	0.100	1	05/06/2017 00:27	WG975550
(S) o-Terphenyl	*75.8*			*31.0-160*		*05/06/2017 00:27*	WG975550

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Dissolved Solids	2420		2.82	10.0	1	05/02/2017 16:19	WG975506

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	U		0.197	1.00	10	05/03/2017 15:41	WG975896

Sample Narrative:

353.2 L905668-24 WG975896: Dilution due to matrix

Wet Chemistry by Method 4500CN E-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Cyanide	U		0.0900	0.250	50	05/02/2017 11:05	WG975005

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	190		5.19	100	100	05/03/2017 00:15	WG975537
Fluoride	1.56		0.00990	0.100	1	05/03/2017 00:00	WG975537
Sulfate	1170		7.74	500	100	05/03/2017 00:15	WG975537

Mercury by Method 7470A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Mercury	U		0.0000490	0.000200	1	05/02/2017 16:56	WG974957
Mercury,Dissolved	U		0.0000490	0.000200	1	05/02/2017 14:50	WG974958

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.00674		0.000250	0.00200	1	05/02/2017 03:10	WG975077
Arsenic,Dissolved	0.0137		0.000250	0.00200	1	05/03/2017 01:48	WG975067
Barium	0.0462		0.000360	0.00500	1	05/02/2017 03:10	WG975077
Barium,Dissolved	0.0543		0.000360	0.00500	1	05/03/2017 01:48	WG975067
Boron	1.21		0.00150	0.0200	1	05/02/2017 13:10	WG975077
Boron,Dissolved	1.38		0.00300	0.0400	2	05/03/2017 21:53	WG975067
Cadmium	U		0.000160	0.00100	1	05/02/2017 03:10	WG975077
Cadmium,Dissolved	U		0.000160	0.00100	1	05/03/2017 01:48	WG975067
Calcium	380		0.0460	1.00	1	05/02/2017 03:10	WG975077
Chromium	0.000618	J	0.000540	0.00200	1	05/02/2017 03:10	WG975077
Chromium,Dissolved	U		0.000540	0.00200	1	05/03/2017 01:48	WG975067
Cobalt	U		0.000260	0.00200	1	05/02/2017 03:10	WG975077
Cobalt,Dissolved	U		0.000260	0.00200	1	05/03/2017 01:48	WG975067
Iron	0.0779	J	0.0150	0.100	1	05/02/2017 03:10	WG975077
Iron,Dissolved	U		0.0150	0.100	1	05/03/2017 01:48	WG975067
Lead	0.0130		0.000240	0.00200	1	05/02/2017 03:10	WG975077
Lead,Dissolved	0.00539		0.000240	0.00200	1	05/03/2017 01:48	WG975067
Manganese	0.0624		0.000250	0.00500	1	05/02/2017 03:10	WG975077
Manganese,Dissolved	0.0603		0.000250	0.00500	1	05/03/2017 01:48	WG975067
Nickel	0.0484		0.000350	0.00200	1	05/02/2017 03:10	WG975077
Nickel,Dissolved	0.00259	B	0.000350	0.00200	1	05/03/2017 01:48	WG975067
Potassium	0.778	J	0.0370	1.00	1	05/02/2017 03:10	WG975077

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Selenium	0.0491		0.000380	0.00200	1	05/02/2017 03:10	WG975077
Selenium,Dissolved	0.000569	J	0.000380	0.00200	1	05/03/2017 01:48	WG975067
Sodium	89.9		0.110	1.00	1	05/02/2017 03:10	WG975077
Uranium	0.000382	J	0.000330	0.0100	1	05/02/2017 03:10	WG975077
Uranium,Dissolved	0.000332	J	0.000330	0.0100	1	05/03/2017 01:48	WG975067
Vanadium	0.00329	J	0.000180	0.00500	1	05/02/2017 03:10	WG975077
Vanadium,Dissolved	0.00198	J	0.000180	0.00500	1	05/03/2017 01:48	WG975067

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	9.38		0.0314	0.100	1	05/07/2017 22:59	WG975303
(S) a,a,a-Trifluorotoluene(FID)	*104*			*77.0-122*		*05/07/2017 22:59*	WG975303

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		0.500	2.50	50	05/01/2017 20:04	WG975624
Benzene	2.58		0.0166	0.0500	50	05/01/2017 20:04	WG975624
Bromodichloromethane	U		0.0190	0.0500	50	05/01/2017 20:04	WG975624
Bromoform	U		0.0234	0.0500	50	05/01/2017 20:04	WG975624
Bromomethane	U	J4	0.0433	0.250	50	05/01/2017 20:04	WG975624
n-Butylbenzene	U		0.0180	0.0500	50	05/01/2017 20:04	WG975624
sec-Butylbenzene	U		0.0182	0.0500	50	05/01/2017 20:04	WG975624
Carbon disulfide	U		0.0138	0.0500	50	05/01/2017 20:04	WG975624
Carbon tetrachloride	U		0.0190	0.0500	50	05/01/2017 20:04	WG975624
Chlorobenzene	U		0.0174	0.0500	50	05/01/2017 20:04	WG975624
Chlorodibromomethane	U		0.0164	0.0500	50	05/01/2017 20:04	WG975624
Chloroethane	U		0.0226	0.250	50	05/01/2017 20:04	WG975624
Chloroform	U		0.0162	0.250	50	05/01/2017 20:04	WG975624
Chloromethane	U		0.0138	0.125	50	05/01/2017 20:04	WG975624
1,2-Dibromoethane	U		0.0190	0.0500	50	05/01/2017 20:04	WG975624
1,1-Dichloroethane	U		0.0130	0.0500	50	05/01/2017 20:04	WG975624
1,2-Dichloroethane	U		0.0180	0.0500	50	05/01/2017 20:04	WG975624
1,1-Dichloroethene	U		0.0199	0.0500	50	05/01/2017 20:04	WG975624
cis-1,2-Dichloroethene	U		0.0130	0.0500	50	05/01/2017 20:04	WG975624
trans-1,2-Dichloroethene	U		0.0198	0.0500	50	05/01/2017 20:04	WG975624
1,2-Dichloropropane	U		0.0153	0.0500	50	05/01/2017 20:04	WG975624
cis-1,3-Dichloropropene	U		0.0209	0.0500	50	05/01/2017 20:04	WG975624
trans-1,3-Dichloropropene	U		0.0210	0.0500	50	05/01/2017 20:04	WG975624
Ethylbenzene	0.0489	J	0.0192	0.0500	50	05/01/2017 20:04	WG975624
Isopropylbenzene	0.0613		0.0163	0.0500	50	05/01/2017 20:04	WG975624
p-Isopropyltoluene	U		0.0175	0.0500	50	05/01/2017 20:04	WG975624
2-Butanone (MEK)	U		0.196	0.500	50	05/01/2017 20:04	WG975624
2-Hexanone	U		0.191	0.500	50	05/01/2017 20:04	WG975624
Methylene Chloride	U		0.0500	0.250	50	05/01/2017 20:04	WG975624
4-Methyl-2-pentanone (MIBK)	U		0.107	0.500	50	05/01/2017 20:04	WG975624
Methyl tert-butyl ether	0.423		0.0184	0.0500	50	05/01/2017 20:04	WG975624
Naphthalene	0.0668	J	0.0500	0.250	50	05/01/2017 20:04	WG975624
n-Propylbenzene	0.0909		0.0174	0.0500	50	05/01/2017 20:04	WG975624
Styrene	U		0.0154	0.0500	50	05/01/2017 20:04	WG975624
1,1,1,2-Tetrachloroethane	U		0.0192	0.0500	50	05/01/2017 20:04	WG975624
1,1,2,2-Tetrachloroethane	U		0.00650	0.0500	50	05/01/2017 20:04	WG975624
Tetrachloroethene	U		0.0186	0.0500	50	05/01/2017 20:04	WG975624
Toluene	0.0587		0.0206	0.0500	50	05/01/2017 20:04	WG975624

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
1,1,1-Trichloroethane	U		0.0160	0.0500	50	05/01/2017 20:04	WG975624
1,1,2-Trichloroethane	U		0.0192	0.0500	50	05/01/2017 20:04	WG975624
Trichloroethene	U		0.0199	0.0500	50	05/01/2017 20:04	WG975624
1,2,4-Trimethylbenzene	0.168		0.0186	0.0500	50	05/01/2017 20:04	WG975624
1,3,5-Trimethylbenzene	U		0.0194	0.0500	50	05/01/2017 20:04	WG975624
Vinyl chloride	U		0.0130	0.0500	50	05/01/2017 20:04	WG975624
o-Xylene	U		0.0170	0.0500	50	05/01/2017 20:04	WG975624
m&p-Xylene	0.238		0.0360	0.100	50	05/01/2017 20:04	WG975624
Xylenes, Total	0.238		0.0530	0.150	50	05/01/2017 20:04	WG975624
(S) Toluene-d8	*105*			*80.0-120*		*05/01/2017 20:04*	WG975624
(S) Dibromofluoromethane	*105*			*76.0-123*		*05/01/2017 20:04*	WG975624
(S) 4-Bromofluorobenzene	*96.3*			*80.0-120*		*05/01/2017 20:04*	WG975624

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	14.4		0.0494	0.200	2	05/03/2017 00:03	WG975551
(S) o-Terphenyl	*69.6*			*31.0-160*		*05/03/2017 00:03*	WG975551

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	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Dissolved Solids	1260		2.82	10.0	1	05/02/2017 16:19	WG975506

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	U		0.197	1.00	10	05/03/2017 15:42	WG975896

Sample Narrative:

353.2 L905668-25 WG975896: 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	313		5.19	100	100	05/03/2017 00:46	WG975537
Fluoride	1.76		0.00990	0.100	1	05/03/2017 00:31	WG975537
Sulfate	U		0.0774	5.00	1	05/03/2017 00:31	WG975537

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.00143	J	0.000250	0.00200	1	05/02/2017 03:14	WG975077
Arsenic,Dissolved	0.00128	J	0.000250	0.00200	1	05/05/2017 17:43	WG975068
Barium	1.99		0.000360	0.00500	1	05/02/2017 03:14	WG975077
Barium,Dissolved	2.01		0.000360	0.00500	1	05/05/2017 17:43	WG975068
Calcium	140		0.0460	1.00	1	05/02/2017 03:14	WG975077
Chromium	U		0.000540	0.00200	1	05/02/2017 03:14	WG975077
Chromium,Dissolved	U		0.000540	0.00200	1	05/05/2017 17:43	WG975068
Iron	5.17		0.0150	0.100	1	05/02/2017 03:14	WG975077
Iron,Dissolved	0.0388	J	0.0150	0.100	1	05/05/2017 17:43	WG975068
Lead	0.000437	J	0.000240	0.00200	1	05/02/2017 03:14	WG975077
Lead,Dissolved	U		0.000240	0.00200	1	05/05/2017 17:43	WG975068
Manganese	0.105		0.000250	0.00500	1	05/02/2017 03:14	WG975077
Manganese,Dissolved	0.107		0.000250	0.00500	1	05/05/2017 17:43	WG975068
Potassium	0.655	J	0.0370	1.00	1	05/02/2017 03:14	WG975077
Selenium	0.0145		0.000380	0.00200	1	05/02/2017 03:14	WG975077
Selenium,Dissolved	U		0.000380	0.00200	1	05/05/2017 17:43	WG975068
Sodium	75.4		0.110	1.00	1	05/02/2017 03:14	WG975077

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	6.67		0.0314	0.100	1	04/30/2017 21:49	WG975303
(S) a,a,a-Trifluorotoluene(FID)	*59.0*	J2		*77.0-122*		*04/30/2017 21:49*	WG975303

Sample Narrative:

8015D/GRO L905668-25 WG975303: Surrogate fails due to sample matrix interference.

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		0.500	2.50	50	05/03/2017 19:55	WG975624
Benzene	3.37		0.0166	0.0500	50	05/03/2017 19:55	WG975624
Bromodichloromethane	U		0.0190	0.0500	50	05/03/2017 19:55	WG975624

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

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Bromoform	U		0.0234	0.0500	50	05/03/2017 19:55	WG975624
Bromomethane	U	J4	0.0433	0.250	50	05/03/2017 19:55	WG975624
n-Butylbenzene	U		0.0180	0.0500	50	05/03/2017 19:55	WG975624
sec-Butylbenzene	U		0.0182	0.0500	50	05/03/2017 19:55	WG975624
Carbon disulfide	U		0.0138	0.0500	50	05/03/2017 19:55	WG975624
Carbon tetrachloride	U		0.0190	0.0500	50	05/03/2017 19:55	WG975624
Chlorobenzene	U		0.0174	0.0500	50	05/03/2017 19:55	WG975624
Chlorodibromomethane	U		0.0164	0.0500	50	05/03/2017 19:55	WG975624
Chloroethane	U		0.0226	0.250	50	05/03/2017 19:55	WG975624
Chloroform	U		0.0162	0.250	50	05/03/2017 19:55	WG975624
Chloromethane	U		0.0138	0.125	50	05/03/2017 19:55	WG975624
1,2-Dibromoethane	U		0.0190	0.0500	50	05/03/2017 19:55	WG975624
1,1-Dichloroethane	U		0.0130	0.0500	50	05/03/2017 19:55	WG975624
1,2-Dichloroethane	U		0.0180	0.0500	50	05/03/2017 19:55	WG975624
1,1-Dichloroethene	U		0.0199	0.0500	50	05/03/2017 19:55	WG975624
cis-1,2-Dichloroethene	U		0.0130	0.0500	50	05/03/2017 19:55	WG975624
trans-1,2-Dichloroethene	U		0.0198	0.0500	50	05/03/2017 19:55	WG975624
1,2-Dichloropropane	U		0.0153	0.0500	50	05/03/2017 19:55	WG975624
cis-1,3-Dichloropropene	U		0.0209	0.0500	50	05/03/2017 19:55	WG975624
trans-1,3-Dichloropropene	U		0.0210	0.0500	50	05/03/2017 19:55	WG975624
Ethylbenzene	U		0.0192	0.0500	50	05/03/2017 19:55	WG975624
Isopropylbenzene	0.0334	J	0.0163	0.0500	50	05/03/2017 19:55	WG975624
p-Isopropyltoluene	U		0.0175	0.0500	50	05/03/2017 19:55	WG975624
2-Butanone (MEK)	U		0.196	0.500	50	05/03/2017 19:55	WG975624
2-Hexanone	U		0.191	0.500	50	05/03/2017 19:55	WG975624
Methylene Chloride	U		0.0500	0.250	50	05/03/2017 19:55	WG975624
4-Methyl-2-pentanone (MIBK)	U		0.107	0.500	50	05/03/2017 19:55	WG975624
Methyl tert-butyl ether	2.78		0.0184	0.0500	50	05/03/2017 19:55	WG975624
Naphthalene	0.0788	J	0.0500	0.250	50	05/03/2017 19:55	WG975624
n-Propylbenzene	0.0528		0.0174	0.0500	50	05/03/2017 19:55	WG975624
Styrene	U		0.0154	0.0500	50	05/03/2017 19:55	WG975624
1,1,1,2-Tetrachloroethane	U		0.0192	0.0500	50	05/03/2017 19:55	WG975624
1,1,2,2-Tetrachloroethane	U		0.00650	0.0500	50	05/03/2017 19:55	WG975624
Tetrachloroethene	U		0.0186	0.0500	50	05/03/2017 19:55	WG975624
Toluene	U		0.0206	0.0500	50	05/03/2017 19:55	WG975624
1,1,1-Trichloroethane	U		0.0160	0.0500	50	05/03/2017 19:55	WG975624
1,1,2-Trichloroethane	U		0.0192	0.0500	50	05/03/2017 19:55	WG975624
Trichloroethene	U		0.0199	0.0500	50	05/03/2017 19:55	WG975624
1,2,4-Trimethylbenzene	U		0.0186	0.0500	50	05/03/2017 19:55	WG975624
1,3,5-Trimethylbenzene	U		0.0194	0.0500	50	05/03/2017 19:55	WG975624
Vinyl chloride	U		0.0130	0.0500	50	05/03/2017 19:55	WG975624
o-Xylene	U		0.0170	0.0500	50	05/03/2017 19:55	WG975624
m&p-Xylene	U		0.0360	0.100	50	05/03/2017 19:55	WG975624
Xylenes, Total	U		0.0530	0.150	50	05/03/2017 19:55	WG975624
(S) Toluene-d8	*102*			*80.0-120*		*05/03/2017 19:55*	WG975624
(S) Dibromofluoromethane	*97.3*			*76.0-123*		*05/03/2017 19:55*	WG975624
(S) 4-Bromofluorobenzene	*98.9*			*80.0-120*		*05/03/2017 19:55*	WG975624

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	7.91		0.0247	0.100	1	05/03/2017 00:20	WG975551
(S) o-Terphenyl	*60.6*			*31.0-160*		*05/03/2017 00:20*	WG975551

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Dissolved Solids	1580		2.82	10.0	1	05/02/2017 16:19	WG975506

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	0.0340	J	0.0197	0.100	1	05/03/2017 15:43	WG975896

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	264		5.19	100	100	05/03/2017 01:17	WG975537
Fluoride	1.27		0.00990	0.100	1	05/03/2017 01:02	WG975537
Sulfate	273		0.387	25.0	5	05/04/2017 22:08	WG976223

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.0583		0.000250	0.00200	1	05/02/2017 03:17	WG975077
Arsenic,Dissolved	0.0464		0.000250	0.00200	1	05/05/2017 17:54	WG975068
Barium	0.0621		0.000360	0.00500	1	05/02/2017 03:17	WG975077
Barium,Dissolved	0.0573		0.000360	0.00500	1	05/05/2017 17:54	WG975068
Calcium	182		0.0460	1.00	1	05/02/2017 03:17	WG975077
Chromium	0.000580	J	0.000540	0.00200	1	05/02/2017 03:17	WG975077
Chromium,Dissolved	U		0.000540	0.00200	1	05/05/2017 17:54	WG975068
Iron	2.98		0.0150	0.100	1	05/02/2017 03:17	WG975077
Iron,Dissolved	0.0239	J	0.0150	0.100	1	05/05/2017 17:54	WG975068
Lead	0.00114	J	0.000240	0.00200	1	05/02/2017 03:17	WG975077
Lead,Dissolved	U		0.000240	0.00200	1	05/05/2017 17:54	WG975068
Manganese	2.09		0.000250	0.00500	1	05/02/2017 03:17	WG975077
Manganese,Dissolved	2.16		0.000250	0.00500	1	05/05/2017 17:54	WG975068
Potassium	0.536	J	0.0370	1.00	1	05/02/2017 03:17	WG975077
Selenium	0.00973		0.000380	0.00200	1	05/02/2017 03:17	WG975077
Selenium,Dissolved	U		0.000380	0.00200	1	05/05/2017 17:54	WG975068
Sodium	106		0.110	1.00	1	05/02/2017 03:17	WG975077

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	1.09		0.0314	0.100	1	04/30/2017 22:12	WG975303
(S) a,a,a-Trifluorotoluene(FID)	*101*			*77.0-122*		*04/30/2017 22:12*	WG975303

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		0.0100	0.0500	1	05/01/2017 20:48	WG975624
Benzene	0.0563		0.000331	0.00100	1	05/01/2017 20:48	WG975624
Bromodichloromethane	U		0.000380	0.00100	1	05/01/2017 20:48	WG975624
Bromoform	U		0.000469	0.00100	1	05/01/2017 20:48	WG975624
Bromomethane	U	J4	0.000866	0.00500	1	05/01/2017 20:48	WG975624
n-Butylbenzene	U		0.000361	0.00100	1	05/01/2017 20:48	WG975624
sec-Butylbenzene	0.000391	J	0.000365	0.00100	1	05/01/2017 20:48	WG975624
Carbon disulfide	U		0.000275	0.00100	1	05/01/2017 20:48	WG975624
Carbon tetrachloride	U		0.000379	0.00100	1	05/01/2017 20:48	WG975624

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		0.000348	0.00100	1	05/01/2017 20:48	WG975624
Chlorodibromomethane	U		0.000327	0.00100	1	05/01/2017 20:48	WG975624
Chloroethane	U		0.000453	0.00500	1	05/01/2017 20:48	WG975624
Chloroform	U		0.000324	0.00500	1	05/01/2017 20:48	WG975624
Chloromethane	U		0.000276	0.00250	1	05/01/2017 20:48	WG975624
1,2-Dibromoethane	U		0.000381	0.00100	1	05/01/2017 20:48	WG975624
1,1-Dichloroethane	U		0.000259	0.00100	1	05/01/2017 20:48	WG975624
1,2-Dichloroethane	U		0.000361	0.00100	1	05/01/2017 20:48	WG975624
1,1-Dichloroethene	U		0.000398	0.00100	1	05/01/2017 20:48	WG975624
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	05/01/2017 20:48	WG975624
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	05/01/2017 20:48	WG975624
1,2-Dichloropropane	U		0.000306	0.00100	1	05/01/2017 20:48	WG975624
cis-1,3-Dichloropropene	U		0.000418	0.00100	1	05/01/2017 20:48	WG975624
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	05/01/2017 20:48	WG975624
Ethylbenzene	0.00166		0.000384	0.00100	1	05/01/2017 20:48	WG975624
Isopropylbenzene	0.00124		0.000326	0.00100	1	05/01/2017 20:48	WG975624
p-Isopropyltoluene	U		0.000350	0.00100	1	05/01/2017 20:48	WG975624
2-Butanone (MEK)	U		0.00393	0.0100	1	05/01/2017 20:48	WG975624
2-Hexanone	U		0.00382	0.0100	1	05/01/2017 20:48	WG975624
Methylene Chloride	U		0.00100	0.00500	1	05/01/2017 20:48	WG975624
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	05/01/2017 20:48	WG975624
Methyl tert-butyl ether	0.821		0.0184	0.0500	50	05/03/2017 20:08	WG975624
Naphthalene	0.00140	J	0.00100	0.00500	1	05/01/2017 20:48	WG975624
n-Propylbenzene	0.00181		0.000349	0.00100	1	05/01/2017 20:48	WG975624
Styrene	U		0.000307	0.00100	1	05/01/2017 20:48	WG975624
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	05/01/2017 20:48	WG975624
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	05/01/2017 20:48	WG975624
Tetrachloroethene	U		0.000372	0.00100	1	05/01/2017 20:48	WG975624
Toluene	U		0.000412	0.00100	1	05/01/2017 20:48	WG975624
1,1,1-Trichloroethane	U		0.000319	0.00100	1	05/01/2017 20:48	WG975624
1,1,2-Trichloroethane	U		0.000383	0.00100	1	05/01/2017 20:48	WG975624
Trichloroethene	U		0.000398	0.00100	1	05/01/2017 20:48	WG975624
1,2,4-Trimethylbenzene	0.00276		0.000373	0.00100	1	05/01/2017 20:48	WG975624
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	05/01/2017 20:48	WG975624
Vinyl chloride	U		0.000259	0.00100	1	05/01/2017 20:48	WG975624
o-Xylene	U		0.000341	0.00100	1	05/01/2017 20:48	WG975624
m&p-Xylene	0.00159	J	0.000719	0.00200	1	05/01/2017 20:48	WG975624
Xylenes, Total	0.00159	J	0.00106	0.00300	1	05/01/2017 20:48	WG975624
(S) Toluene-d8	*103*			*80.0-120*		*05/03/2017 20:08*	WG975624
(S) Toluene-d8	*104*			*80.0-120*		*05/01/2017 20:48*	WG975624
(S) Dibromofluoromethane	*98.9*			*76.0-123*		*05/03/2017 20:08*	WG975624
(S) Dibromofluoromethane	*103*			*76.0-123*		*05/01/2017 20:48*	WG975624
(S) 4-Bromofluorobenzene	*97.8*			*80.0-120*		*05/01/2017 20:48*	WG975624
(S) 4-Bromofluorobenzene	*100*			*80.0-120*		*05/03/2017 20:08*	WG975624

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	2.42		0.0247	0.100	1	05/03/2017 00:37	WG975551
(S) o-Terphenyl	*77.4*			*31.0-160*		*05/03/2017 00:37*	WG975551

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Dissolved Solids	4600		2.82	10.0	1	05/02/2017 16:19	WG975506

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	0.751	J	0.197	1.00	10	05/03/2017 15:45	WG975896

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	310		5.19	100	100	05/03/2017 01:48	WG975537
Fluoride	1.33		0.00990	0.100	1	05/03/2017 01:32	WG975537
Sulfate	2810		7.74	500	100	05/03/2017 01:48	WG975537

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.00336		0.000250	0.00200	1	05/02/2017 03:21	WG975077
Arsenic,Dissolved	0.00350		0.000250	0.00200	1	05/05/2017 17:57	WG975068
Barium	0.00822		0.000360	0.00500	1	05/02/2017 03:21	WG975077
Barium,Dissolved	0.00884		0.000360	0.00500	1	05/05/2017 17:57	WG975068
Calcium	495		0.0460	1.00	1	05/02/2017 03:21	WG975077
Chromium	U		0.000540	0.00200	1	05/02/2017 03:21	WG975077
Chromium,Dissolved	U		0.000540	0.00200	1	05/05/2017 17:57	WG975068
Iron	U		0.0150	0.100	1	05/02/2017 03:21	WG975077
Iron,Dissolved	U		0.0150	0.100	1	05/05/2017 17:57	WG975068
Lead	U		0.000240	0.00200	1	05/02/2017 03:21	WG975077
Lead,Dissolved	U		0.000240	0.00200	1	05/05/2017 17:57	WG975068
Manganese	0.374		0.000250	0.00500	1	05/02/2017 03:21	WG975077
Manganese,Dissolved	0.393		0.000250	0.00500	1	05/05/2017 17:57	WG975068
Potassium	1.27		0.0370	1.00	1	05/02/2017 03:21	WG975077
Selenium	0.00962		0.000380	0.00200	1	05/02/2017 03:21	WG975077
Selenium,Dissolved	0.00331		0.000380	0.00200	1	05/05/2017 17:57	WG975068
Sodium	218		0.110	1.00	1	05/02/2017 03:21	WG975077

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
TPH (GC/FID) Low Fraction	U		0.0314	0.100	1	04/30/2017 22:34	WG975303
(S) a,a,a-Trifluorotoluene(FID)	*101*			*77.0-122*		*04/30/2017 22:34*	WG975303

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		0.0100	0.0500	1	05/01/2017 21:10	WG975624
Benzene	0.000603	J	0.000331	0.00100	1	05/01/2017 21:10	WG975624
Bromodichloromethane	U		0.000380	0.00100	1	05/01/2017 21:10	WG975624
Bromoform	U		0.000469	0.00100	1	05/01/2017 21:10	WG975624
Bromomethane	U	J4	0.000866	0.00500	1	05/01/2017 21:10	WG975624
n-Butylbenzene	U		0.000361	0.00100	1	05/01/2017 21:10	WG975624
sec-Butylbenzene	U		0.000365	0.00100	1	05/01/2017 21:10	WG975624
Carbon disulfide	U		0.000275	0.00100	1	05/01/2017 21:10	WG975624
Carbon tetrachloride	U		0.000379	0.00100	1	05/01/2017 21:10	WG975624

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		0.000348	0.00100	1	05/01/2017 21:10	WG975624
Chlorodibromomethane	U		0.000327	0.00100	1	05/01/2017 21:10	WG975624
Chloroethane	U		0.000453	0.00500	1	05/01/2017 21:10	WG975624
Chloroform	U		0.000324	0.00500	1	05/01/2017 21:10	WG975624
Chloromethane	U		0.000276	0.00250	1	05/01/2017 21:10	WG975624
1,2-Dibromoethane	U		0.000381	0.00100	1	05/01/2017 21:10	WG975624
1,1-Dichloroethane	U		0.000259	0.00100	1	05/01/2017 21:10	WG975624
1,2-Dichloroethane	U		0.000361	0.00100	1	05/01/2017 21:10	WG975624
1,1-Dichloroethene	U		0.000398	0.00100	1	05/01/2017 21:10	WG975624
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	05/01/2017 21:10	WG975624
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	05/01/2017 21:10	WG975624
1,2-Dichloropropane	U		0.000306	0.00100	1	05/01/2017 21:10	WG975624
cis-1,3-Dichloropropene	U		0.000418	0.00100	1	05/01/2017 21:10	WG975624
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	05/01/2017 21:10	WG975624
Ethylbenzene	U		0.000384	0.00100	1	05/01/2017 21:10	WG975624
Isopropylbenzene	U		0.000326	0.00100	1	05/01/2017 21:10	WG975624
p-Isopropyltoluene	U		0.000350	0.00100	1	05/01/2017 21:10	WG975624
2-Butanone (MEK)	U		0.00393	0.0100	1	05/01/2017 21:10	WG975624
2-Hexanone	U		0.00382	0.0100	1	05/01/2017 21:10	WG975624
Methylene Chloride	U		0.00100	0.00500	1	05/01/2017 21:10	WG975624
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	05/01/2017 21:10	WG975624
Methyl tert-butyl ether	U		0.000367	0.00100	1	05/03/2017 20:21	WG975624
Naphthalene	U		0.00100	0.00500	1	05/01/2017 21:10	WG975624
n-Propylbenzene	U		0.000349	0.00100	1	05/01/2017 21:10	WG975624
Styrene	U		0.000307	0.00100	1	05/01/2017 21:10	WG975624
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	05/01/2017 21:10	WG975624
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	05/01/2017 21:10	WG975624
Tetrachloroethene	U		0.000372	0.00100	1	05/01/2017 21:10	WG975624
Toluene	U		0.000412	0.00100	1	05/01/2017 21:10	WG975624
1,1,1-Trichloroethane	U		0.000319	0.00100	1	05/01/2017 21:10	WG975624
1,1,2-Trichloroethane	U		0.000383	0.00100	1	05/01/2017 21:10	WG975624
Trichloroethene	U		0.000398	0.00100	1	05/01/2017 21:10	WG975624
1,2,4-Trimethylbenzene	U		0.000373	0.00100	1	05/01/2017 21:10	WG975624
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	05/01/2017 21:10	WG975624
Vinyl chloride	U		0.000259	0.00100	1	05/01/2017 21:10	WG975624
o-Xylene	U		0.000341	0.00100	1	05/01/2017 21:10	WG975624
m&p-Xylene	U		0.000719	0.00200	1	05/01/2017 21:10	WG975624
Xylenes, Total	U		0.00106	0.00300	1	05/01/2017 21:10	WG975624
(S) Toluene-d8	*102*			*80.0-120*		*05/03/2017 20:21*	WG975624
(S) Toluene-d8	*106*			*80.0-120*		*05/01/2017 21:10*	WG975624
(S) Dibromofluoromethane	*100*			*76.0-123*		*05/03/2017 20:21*	WG975624
(S) Dibromofluoromethane	*109*			*76.0-123*		*05/01/2017 21:10*	WG975624
(S) 4-Bromofluorobenzene	*97.4*			*80.0-120*		*05/01/2017 21:10*	WG975624
(S) 4-Bromofluorobenzene	*98.4*			*80.0-120*		*05/03/2017 20:21*	WG975624

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	0.0964	J	0.0247	0.100	1	05/03/2017 00:54	WG975551
(S) o-Terphenyl	*65.4*			*31.0-160*		*05/03/2017 00:54*	WG975551

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Dissolved Solids	3450		2.82	10.0	1	05/02/2017 16:19	WG975506

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	0.258	J	0.197	1.00	10	05/03/2017 15:46	WG975896

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	270		5.19	100	100	05/03/2017 02:49	WG975537
Fluoride	2.00		0.00990	0.100	1	05/03/2017 02:34	WG975537
Sulfate	2060		7.74	500	100	05/03/2017 02:49	WG975537

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.00357		0.000250	0.00200	1	05/02/2017 03:24	WG975077
Arsenic,Dissolved	0.00347		0.000250	0.00200	1	05/05/2017 18:01	WG975068
Barium	0.0121		0.000360	0.00500	1	05/02/2017 03:24	WG975077
Barium,Dissolved	0.00800	B	0.000360	0.00500	1	05/05/2017 18:01	WG975068
Calcium	501		0.0460	1.00	1	05/02/2017 03:24	WG975077
Chromium	0.000560	J	0.000540	0.00200	1	05/02/2017 03:24	WG975077
Chromium,Dissolved	U		0.000540	0.00200	1	05/05/2017 18:01	WG975068
Iron	0.224		0.0150	0.100	1	05/02/2017 03:24	WG975077
Iron,Dissolved	U		0.0150	0.100	1	05/05/2017 18:01	WG975068
Lead	0.000542	J	0.000240	0.00200	1	05/02/2017 03:24	WG975077
Lead,Dissolved	U		0.000240	0.00200	1	05/05/2017 18:01	WG975068
Manganese	0.0545		0.000250	0.00500	1	05/02/2017 03:24	WG975077
Manganese,Dissolved	0.0449		0.000250	0.00500	1	05/05/2017 18:01	WG975068
Potassium	2.22		0.0370	1.00	1	05/02/2017 03:24	WG975077
Selenium	0.00488		0.000380	0.00200	1	05/02/2017 03:24	WG975077
Selenium,Dissolved	U		0.000380	0.00200	1	05/05/2017 18:01	WG975068
Sodium	154		0.110	1.00	1	05/02/2017 03:24	WG975077

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
TPH (GC/FID) Low Fraction	U		0.0314	0.100	1	04/30/2017 22:56	WG975303
(S) a,a,a-Trifluorotoluene(FID)	*101*			*77.0-122*		*04/30/2017 22:56*	WG975303

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		0.0100	0.0500	1	05/01/2017 21:32	WG975624
Benzene	0.000430	J	0.000331	0.00100	1	05/01/2017 21:32	WG975624
Bromodichloromethane	U		0.000380	0.00100	1	05/01/2017 21:32	WG975624
Bromoform	U		0.000469	0.00100	1	05/01/2017 21:32	WG975624
Bromomethane	U	J4	0.000866	0.00500	1	05/01/2017 21:32	WG975624
n-Butylbenzene	U		0.000361	0.00100	1	05/01/2017 21:32	WG975624
sec-Butylbenzene	U		0.000365	0.00100	1	05/01/2017 21:32	WG975624
Carbon disulfide	U		0.000275	0.00100	1	05/01/2017 21:32	WG975624
Carbon tetrachloride	U		0.000379	0.00100	1	05/01/2017 21:32	WG975624

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chlorobenzene	U		0.000348	0.00100	1	05/01/2017 21:32	WG975624
Chlorodibromomethane	U		0.000327	0.00100	1	05/01/2017 21:32	WG975624
Chloroethane	U		0.000453	0.00500	1	05/01/2017 21:32	WG975624
Chloroform	U		0.000324	0.00500	1	05/01/2017 21:32	WG975624
Chloromethane	U		0.000276	0.00250	1	05/01/2017 21:32	WG975624
1,2-Dibromoethane	U		0.000381	0.00100	1	05/01/2017 21:32	WG975624
1,1-Dichloroethane	U		0.000259	0.00100	1	05/01/2017 21:32	WG975624
1,2-Dichloroethane	U		0.000361	0.00100	1	05/01/2017 21:32	WG975624
1,1-Dichloroethene	U		0.000398	0.00100	1	05/01/2017 21:32	WG975624
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	05/01/2017 21:32	WG975624
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	05/01/2017 21:32	WG975624
1,2-Dichloropropane	U		0.000306	0.00100	1	05/01/2017 21:32	WG975624
cis-1,3-Dichloropropene	U		0.000418	0.00100	1	05/01/2017 21:32	WG975624
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	05/01/2017 21:32	WG975624
Ethylbenzene	U		0.000384	0.00100	1	05/01/2017 21:32	WG975624
Isopropylbenzene	U		0.000326	0.00100	1	05/01/2017 21:32	WG975624
p-Isopropyltoluene	U		0.000350	0.00100	1	05/01/2017 21:32	WG975624
2-Butanone (MEK)	U		0.00393	0.0100	1	05/01/2017 21:32	WG975624
2-Hexanone	U		0.00382	0.0100	1	05/01/2017 21:32	WG975624
Methylene Chloride	U		0.00100	0.00500	1	05/01/2017 21:32	WG975624
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	05/01/2017 21:32	WG975624
Methyl tert-butyl ether	U		0.000367	0.00100	1	05/01/2017 21:32	WG975624
Naphthalene	U		0.00100	0.00500	1	05/01/2017 21:32	WG975624
n-Propylbenzene	U		0.000349	0.00100	1	05/01/2017 21:32	WG975624
Styrene	U		0.000307	0.00100	1	05/01/2017 21:32	WG975624
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	05/01/2017 21:32	WG975624
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	05/01/2017 21:32	WG975624
Tetrachloroethene	U		0.000372	0.00100	1	05/01/2017 21:32	WG975624
Toluene	U		0.000412	0.00100	1	05/01/2017 21:32	WG975624
1,1,1-Trichloroethane	U		0.000319	0.00100	1	05/01/2017 21:32	WG975624
1,1,2-Trichloroethane	U		0.000383	0.00100	1	05/01/2017 21:32	WG975624
Trichloroethene	U		0.000398	0.00100	1	05/01/2017 21:32	WG975624
1,2,4-Trimethylbenzene	U		0.000373	0.00100	1	05/01/2017 21:32	WG975624
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	05/01/2017 21:32	WG975624
Vinyl chloride	U		0.000259	0.00100	1	05/01/2017 21:32	WG975624
o-Xylene	U		0.000341	0.00100	1	05/01/2017 21:32	WG975624
m&p-Xylene	U		0.000719	0.00200	1	05/01/2017 21:32	WG975624
Xylenes, Total	U		0.00106	0.00300	1	05/01/2017 21:32	WG975624
(S) Toluene-d8	*107*			*80.0-120*		*05/01/2017 21:32*	WG975624
(S) Dibromofluoromethane	*109*			*76.0-123*		*05/01/2017 21:32*	WG975624
(S) 4-Bromofluorobenzene	*96.9*			*80.0-120*		*05/01/2017 21:32*	WG975624

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	0.0549	J	0.0247	0.100	1	05/03/2017 01:11	WG975551
(S) o-Terphenyl	*56.8*			*31.0-160*		*05/03/2017 01:11*	WG975551

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Dissolved Solids	982		2.82	10.0	1	05/02/2017 16:19	WG975506

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	U		0.197	1.00	10	05/04/2017 15:53	WG976257

Sample Narrative:

353.2 L905668-29 WG976257: 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	48.2		0.0519	1.00	1	05/03/2017 19:07	WG975912
Fluoride	1.60		0.00990	0.100	1	05/03/2017 19:07	WG975912
Sulfate	9.54		0.0774	5.00	1	05/03/2017 19:07	WG975912

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.0123		0.000250	0.00200	1	05/02/2017 03:28	WG975077
Arsenic,Dissolved	0.0142		0.000250	0.00200	1	05/05/2017 18:04	WG975068
Barium	2.63		0.000360	0.00500	1	05/02/2017 03:28	WG975077
Barium,Dissolved	2.85		0.000360	0.00500	1	05/05/2017 18:04	WG975068
Calcium	212		0.0460	1.00	1	05/02/2017 03:28	WG975077
Chromium	0.00150	J	0.000540	0.00200	1	05/02/2017 03:28	WG975077
Chromium,Dissolved	0.00138	J	0.000540	0.00200	1	05/05/2017 18:04	WG975068
Iron	0.151		0.0150	0.100	1	05/02/2017 03:28	WG975077
Iron,Dissolved	0.0193	J	0.0150	0.100	1	05/05/2017 18:04	WG975068
Lead	0.00143	J	0.000240	0.00200	1	05/02/2017 03:28	WG975077
Lead,Dissolved	0.000346	J	0.000240	0.00200	1	05/05/2017 18:04	WG975068
Manganese	0.0622		0.000250	0.00500	1	05/02/2017 03:28	WG975077
Manganese,Dissolved	0.0622		0.000250	0.00500	1	05/05/2017 18:04	WG975068
Potassium	4.45		0.0370	1.00	1	05/02/2017 03:28	WG975077
Selenium	0.0357		0.000380	0.00200	1	05/02/2017 03:28	WG975077
Selenium,Dissolved	0.0563		0.000380	0.00200	1	05/05/2017 18:04	WG975068
Sodium	38.3		0.110	1.00	1	05/02/2017 03:28	WG975077

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	33.9		0.314	1.00	10	05/07/2017 23:22	WG975303
(S) a,a,a-Trifluorotoluene(FID)	*94.3*			*77.0-122*		*05/07/2017 23:22*	WG975303

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		1.00	5.00	100	05/01/2017 21:54	WG975624
Benzene	13.3		0.0331	0.100	100	05/01/2017 21:54	WG975624
Bromodichloromethane	U		0.0380	0.100	100	05/01/2017 21:54	WG975624
Bromoform	U		0.0469	0.100	100	05/01/2017 21:54	WG975624
Bromomethane	U	J4	0.0866	0.500	100	05/01/2017 21:54	WG975624
n-Butylbenzene	U		0.0361	0.100	100	05/01/2017 21:54	WG975624

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		0.0365	0.100	100	05/01/2017 21:54	WG975624
Carbon disulfide	U		0.0275	0.100	100	05/01/2017 21:54	WG975624
Carbon tetrachloride	U		0.0379	0.100	100	05/01/2017 21:54	WG975624
Chlorobenzene	U		0.0348	0.100	100	05/01/2017 21:54	WG975624
Chlorodibromomethane	U		0.0327	0.100	100	05/01/2017 21:54	WG975624
Chloroethane	U		0.0453	0.500	100	05/01/2017 21:54	WG975624
Chloroform	U		0.0324	0.500	100	05/01/2017 21:54	WG975624
Chloromethane	U		0.0276	0.250	100	05/01/2017 21:54	WG975624
1,2-Dibromoethane	U		0.0381	0.100	100	05/01/2017 21:54	WG975624
1,1-Dichloroethane	U		0.0259	0.100	100	05/01/2017 21:54	WG975624
1,2-Dichloroethane	U		0.0361	0.100	100	05/01/2017 21:54	WG975624
1,1-Dichloroethene	U		0.0398	0.100	100	05/01/2017 21:54	WG975624
cis-1,2-Dichloroethene	U		0.0260	0.100	100	05/01/2017 21:54	WG975624
trans-1,2-Dichloroethene	U		0.0396	0.100	100	05/01/2017 21:54	WG975624
1,2-Dichloropropane	U		0.0306	0.100	100	05/01/2017 21:54	WG975624
cis-1,3-Dichloropropene	U		0.0418	0.100	100	05/01/2017 21:54	WG975624
trans-1,3-Dichloropropene	U		0.0419	0.100	100	05/01/2017 21:54	WG975624
Ethylbenzene	1.71		0.0384	0.100	100	05/01/2017 21:54	WG975624
Isopropylbenzene	0.0921	J	0.0326	0.100	100	05/01/2017 21:54	WG975624
p-Isopropyltoluene	U		0.0350	0.100	100	05/01/2017 21:54	WG975624
2-Butanone (MEK)	U		0.393	1.00	100	05/01/2017 21:54	WG975624
2-Hexanone	U		0.382	1.00	100	05/01/2017 21:54	WG975624
Methylene Chloride	U		0.100	0.500	100	05/01/2017 21:54	WG975624
4-Methyl-2-pentanone (MIBK)	U		0.214	1.00	100	05/01/2017 21:54	WG975624
Methyl tert-butyl ether	U		0.0367	0.100	100	05/01/2017 21:54	WG975624
Naphthalene	0.104	J	0.100	0.500	100	05/01/2017 21:54	WG975624
n-Propylbenzene	0.109		0.0349	0.100	100	05/01/2017 21:54	WG975624
Styrene	U		0.0307	0.100	100	05/01/2017 21:54	WG975624
1,1,1,2-Tetrachloroethane	U		0.0385	0.100	100	05/01/2017 21:54	WG975624
1,1,2,2-Tetrachloroethane	U		0.0130	0.100	100	05/01/2017 21:54	WG975624
Tetrachloroethene	U		0.0372	0.100	100	05/01/2017 21:54	WG975624
Toluene	U		0.0412	0.100	100	05/01/2017 21:54	WG975624
1,1,1-Trichloroethane	U		0.0319	0.100	100	05/01/2017 21:54	WG975624
1,1,2-Trichloroethane	U		0.0383	0.100	100	05/01/2017 21:54	WG975624
Trichloroethene	U		0.0398	0.100	100	05/01/2017 21:54	WG975624
1,2,4-Trimethylbenzene	0.104		0.0373	0.100	100	05/01/2017 21:54	WG975624
1,3,5-Trimethylbenzene	U		0.0387	0.100	100	05/01/2017 21:54	WG975624
Vinyl chloride	U		0.0259	0.100	100	05/01/2017 21:54	WG975624
o-Xylene	U		0.0341	0.100	100	05/01/2017 21:54	WG975624
m&p-Xylene	0.446		0.0719	0.200	100	05/01/2017 21:54	WG975624
Xylenes, Total	0.446		0.106	0.300	100	05/01/2017 21:54	WG975624
(S) Toluene-d8	*103*			*80.0-120*		*05/01/2017 21:54*	WG975624
(S) Dibromofluoromethane	*104*			*76.0-123*		*05/01/2017 21:54*	WG975624
(S) 4-Bromofluorobenzene	*98.2*			*80.0-120*		*05/01/2017 21:54*	WG975624

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	13.8		0.124	0.500	5	05/04/2017 17:11	WG975551
(S) o-Terphenyl	*89.5*			*31.0-160*		*05/04/2017 17:11*	WG975551

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Dissolved Solids	3030		2.82	10.0	1	05/02/2017 16:19	WG975506

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	U		0.197	1.00	10	05/04/2017 15:55	WG976257

Sample Narrative:

353.2 L905668-30 WG976257: 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	251		2.60	50.0	50	05/03/2017 15:37	WG975912
Fluoride	2.35		0.00990	0.100	1	05/03/2017 15:22	WG975912
Sulfate	1200		3.87	250	50	05/03/2017 15:37	WG975912

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.00504		0.000250	0.00200	1	05/02/2017 03:31	WG975077
Arsenic,Dissolved	0.00230		0.000250	0.00200	1	05/05/2017 18:08	WG975068
Barium	0.0566		0.000360	0.00500	1	05/02/2017 03:31	WG975077
Barium,Dissolved	0.0530		0.000360	0.00500	1	05/05/2017 18:08	WG975068
Calcium	519		0.0460	1.00	1	05/02/2017 03:31	WG975077
Chromium	0.00173	J	0.000540	0.00200	1	05/02/2017 03:31	WG975077
Chromium,Dissolved	0.00131	J	0.000540	0.00200	1	05/05/2017 18:08	WG975068
Iron	0.264		0.0150	0.100	1	05/02/2017 03:31	WG975077
Iron,Dissolved	0.0200	J	0.0150	0.100	1	05/05/2017 18:08	WG975068
Lead	0.000960	J	0.000240	0.00200	1	05/02/2017 03:31	WG975077
Lead,Dissolved	0.000647	J	0.000240	0.00200	1	05/05/2017 18:08	WG975068
Manganese	0.0161		0.000250	0.00500	1	05/02/2017 03:31	WG975077
Manganese,Dissolved	0.0157		0.000250	0.00500	1	05/05/2017 18:08	WG975068
Potassium	2.86		0.0370	1.00	1	05/02/2017 03:31	WG975077
Selenium	0.0100		0.000380	0.00200	1	05/02/2017 03:31	WG975077
Selenium,Dissolved	0.0364		0.000380	0.00200	1	05/05/2017 18:08	WG975068
Sodium	261		0.110	1.00	1	05/02/2017 03:31	WG975077

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	17.2		1.57	5.00	50	04/30/2017 23:41	WG975303
(S) a,a,a-Trifluorotoluene(FID)	*98.5*			*77.0-122*		*04/30/2017 23:41*	WG975303

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		0.500	2.50	50	05/01/2017 22:16	WG975624
Benzene	7.78		0.0166	0.0500	50	05/01/2017 22:16	WG975624
Bromodichloromethane	U		0.0190	0.0500	50	05/01/2017 22:16	WG975624
Bromoform	U		0.0234	0.0500	50	05/01/2017 22:16	WG975624
Bromomethane	U	J4	0.0433	0.250	50	05/01/2017 22:16	WG975624
n-Butylbenzene	U		0.0180	0.0500	50	05/01/2017 22:16	WG975624

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		0.0182	0.0500	50	05/01/2017 22:16	WG975624
Carbon disulfide	U		0.0138	0.0500	50	05/01/2017 22:16	WG975624
Carbon tetrachloride	U		0.0190	0.0500	50	05/01/2017 22:16	WG975624
Chlorobenzene	U		0.0174	0.0500	50	05/01/2017 22:16	WG975624
Chlorodibromomethane	U		0.0164	0.0500	50	05/01/2017 22:16	WG975624
Chloroethane	U		0.0226	0.250	50	05/01/2017 22:16	WG975624
Chloroform	U		0.0162	0.250	50	05/01/2017 22:16	WG975624
Chloromethane	U		0.0138	0.125	50	05/01/2017 22:16	WG975624
1,2-Dibromoethane	U		0.0190	0.0500	50	05/01/2017 22:16	WG975624
1,1-Dichloroethane	U		0.0130	0.0500	50	05/01/2017 22:16	WG975624
1,2-Dichloroethane	U		0.0180	0.0500	50	05/01/2017 22:16	WG975624
1,1-Dichloroethene	U		0.0199	0.0500	50	05/01/2017 22:16	WG975624
cis-1,2-Dichloroethene	0.828		0.0130	0.0500	50	05/01/2017 22:16	WG975624
trans-1,2-Dichloroethene	U		0.0198	0.0500	50	05/01/2017 22:16	WG975624
1,2-Dichloropropane	U		0.0153	0.0500	50	05/01/2017 22:16	WG975624
cis-1,3-Dichloropropene	U		0.0209	0.0500	50	05/01/2017 22:16	WG975624
trans-1,3-Dichloropropene	U		0.0210	0.0500	50	05/01/2017 22:16	WG975624
Ethylbenzene	0.837		0.0192	0.0500	50	05/01/2017 22:16	WG975624
Isopropylbenzene	0.0533		0.0163	0.0500	50	05/01/2017 22:16	WG975624
p-Isopropyltoluene	U		0.0175	0.0500	50	05/01/2017 22:16	WG975624
2-Butanone (MEK)	U		0.196	0.500	50	05/01/2017 22:16	WG975624
2-Hexanone	U		0.191	0.500	50	05/01/2017 22:16	WG975624
Methylene Chloride	U		0.0500	0.250	50	05/01/2017 22:16	WG975624
4-Methyl-2-pentanone (MIBK)	U		0.107	0.500	50	05/01/2017 22:16	WG975624
Methyl tert-butyl ether	U		0.0184	0.0500	50	05/01/2017 22:16	WG975624
Naphthalene	0.145	J	0.0500	0.250	50	05/01/2017 22:16	WG975624
n-Propylbenzene	0.0816		0.0174	0.0500	50	05/01/2017 22:16	WG975624
Styrene	U		0.0154	0.0500	50	05/01/2017 22:16	WG975624
1,1,1,2-Tetrachloroethane	U		0.0192	0.0500	50	05/01/2017 22:16	WG975624
1,1,2,2-Tetrachloroethane	U		0.00650	0.0500	50	05/01/2017 22:16	WG975624
Tetrachloroethene	0.0218	J	0.0186	0.0500	50	05/01/2017 22:16	WG975624
Toluene	0.0430	J	0.0206	0.0500	50	05/01/2017 22:16	WG975624
1,1,1-Trichloroethane	U		0.0160	0.0500	50	05/01/2017 22:16	WG975624
1,1,2-Trichloroethane	U		0.0192	0.0500	50	05/01/2017 22:16	WG975624
Trichloroethene	0.0249	J	0.0199	0.0500	50	05/01/2017 22:16	WG975624
1,2,4-Trimethylbenzene	0.271		0.0186	0.0500	50	05/01/2017 22:16	WG975624
1,3,5-Trimethylbenzene	0.0664		0.0194	0.0500	50	05/01/2017 22:16	WG975624
Vinyl chloride	U		0.0130	0.0500	50	05/01/2017 22:16	WG975624
o-Xylene	0.0183	J	0.0170	0.0500	50	05/01/2017 22:16	WG975624
m&p-Xylene	0.413		0.0360	0.100	50	05/01/2017 22:16	WG975624
Xylenes, Total	0.431		0.0530	0.150	50	05/01/2017 22:16	WG975624
(S) Toluene-d8	*105*			*80.0-120*		*05/01/2017 22:16*	WG975624
(S) Dibromofluoromethane	*101*			*76.0-123*		*05/01/2017 22:16*	WG975624
(S) 4-Bromofluorobenzene	*97.3*			*80.0-120*		*05/01/2017 22:16*	WG975624

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	11.6		0.124	0.500	5	05/06/2017 01:17	WG975551
(S) o-Terphenyl	*79.0*			*31.0-160*		*05/06/2017 01:17*	WG975551

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Dissolved Solids	2600		2.82	10.0	1	05/02/2017 16:19	WG975506

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	U		0.197	1.00	10	05/04/2017 15:56	WG976257

Sample Narrative:

353.2 L905668-31 WG976257: 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	225		2.60	50.0	50	05/03/2017 16:08	WG975912
Fluoride	2.08		0.00990	0.100	1	05/03/2017 15:53	WG975912
Sulfate	1100		3.87	250	50	05/03/2017 16:08	WG975912

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.000981	J	0.000250	0.00200	1	05/02/2017 03:35	WG975077
Arsenic,Dissolved	0.000757	J	0.000250	0.00200	1	05/05/2017 18:11	WG975068
Barium	0.0218		0.000360	0.00500	1	05/02/2017 03:35	WG975077
Barium,Dissolved	0.0204		0.000360	0.00500	1	05/05/2017 18:11	WG975068
Calcium	322		0.0460	1.00	1	05/02/2017 03:35	WG975077
Chromium	0.000618	J	0.000540	0.00200	1	05/02/2017 03:35	WG975077
Chromium,Dissolved	U		0.000540	0.00200	1	05/05/2017 18:11	WG975068
Iron	0.0299	J	0.0150	0.100	1	05/02/2017 03:35	WG975077
Iron,Dissolved	U		0.0150	0.100	1	05/05/2017 18:11	WG975068
Lead	0.000959	J	0.000240	0.00200	1	05/02/2017 03:35	WG975077
Lead,Dissolved	0.000747	J	0.000240	0.00200	1	05/05/2017 18:11	WG975068
Manganese	0.0352		0.000250	0.00500	1	05/02/2017 03:35	WG975077
Manganese,Dissolved	0.0367		0.000250	0.00500	1	05/05/2017 18:11	WG975068
Potassium	1.85		0.0370	1.00	1	05/02/2017 03:35	WG975077
Selenium	0.00551		0.000380	0.00200	1	05/02/2017 03:35	WG975077
Selenium,Dissolved	0.0188		0.000380	0.00200	1	05/05/2017 18:11	WG975068
Sodium	248		0.110	1.00	1	05/02/2017 03:35	WG975077

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	6.48		0.0314	0.100	1	05/07/2017 23:44	WG975303
(S) a,a,a-Trifluorotoluene(FID)	*90.8*			*77.0-122*		*05/07/2017 23:44*	WG975303

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	0.267	J	0.250	1.25	25	05/01/2017 22:38	WG975624
Benzene	0.769		0.00828	0.0250	25	05/01/2017 22:38	WG975624
Bromodichloromethane	U		0.00950	0.0250	25	05/01/2017 22:38	WG975624
Bromoform	U		0.0117	0.0250	25	05/01/2017 22:38	WG975624
Bromomethane	U	J4	0.0216	0.125	25	05/01/2017 22:38	WG975624
n-Butylbenzene	U		0.00902	0.0250	25	05/01/2017 22:38	WG975624

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	0.0110	J	0.00912	0.0250	25	05/01/2017 22:38	WG975624
Carbon disulfide	U		0.00688	0.0250	25	05/01/2017 22:38	WG975624
Carbon tetrachloride	U		0.00948	0.0250	25	05/01/2017 22:38	WG975624
Chlorobenzene	U		0.00870	0.0250	25	05/01/2017 22:38	WG975624
Chlorodibromomethane	U		0.00818	0.0250	25	05/01/2017 22:38	WG975624
Chloroethane	U		0.0113	0.125	25	05/01/2017 22:38	WG975624
Chloroform	U		0.00810	0.125	25	05/01/2017 22:38	WG975624
Chloromethane	U		0.00690	0.0625	25	05/01/2017 22:38	WG975624
1,2-Dibromoethane	U		0.00952	0.0250	25	05/01/2017 22:38	WG975624
1,1-Dichloroethane	U		0.00648	0.0250	25	05/01/2017 22:38	WG975624
1,2-Dichloroethane	U		0.00902	0.0250	25	05/01/2017 22:38	WG975624
1,1-Dichloroethene	U		0.00995	0.0250	25	05/01/2017 22:38	WG975624
cis-1,2-Dichloroethene	U		0.00650	0.0250	25	05/01/2017 22:38	WG975624
trans-1,2-Dichloroethene	U		0.00990	0.0250	25	05/01/2017 22:38	WG975624
1,2-Dichloropropane	U		0.00765	0.0250	25	05/01/2017 22:38	WG975624
cis-1,3-Dichloropropene	U		0.0104	0.0250	25	05/01/2017 22:38	WG975624
trans-1,3-Dichloropropene	U		0.0105	0.0250	25	05/01/2017 22:38	WG975624
Ethylbenzene	0.0225	J	0.00960	0.0250	25	05/01/2017 22:38	WG975624
Isopropylbenzene	0.0860		0.00815	0.0250	25	05/01/2017 22:38	WG975624
p-Isopropyltoluene	U		0.00875	0.0250	25	05/01/2017 22:38	WG975624
2-Butanone (MEK)	U		0.0982	0.250	25	05/01/2017 22:38	WG975624
2-Hexanone	U		0.0955	0.250	25	05/01/2017 22:38	WG975624
Methylene Chloride	U		0.0250	0.125	25	05/01/2017 22:38	WG975624
4-Methyl-2-pentanone (MIBK)	U		0.0535	0.250	25	05/01/2017 22:38	WG975624
Methyl tert-butyl ether	U		0.00918	0.0250	25	05/01/2017 22:38	WG975624
Naphthalene	0.0307	J	0.0250	0.125	25	05/01/2017 22:38	WG975624
n-Propylbenzene	0.131		0.00872	0.0250	25	05/01/2017 22:38	WG975624
Styrene	U		0.00768	0.0250	25	05/01/2017 22:38	WG975624
1,1,1,2-Tetrachloroethane	U		0.00962	0.0250	25	05/01/2017 22:38	WG975624
1,1,2,2-Tetrachloroethane	U		0.00325	0.0250	25	05/01/2017 22:38	WG975624
Tetrachloroethene	U		0.00930	0.0250	25	05/01/2017 22:38	WG975624
Toluene	0.0312		0.0103	0.0250	25	05/01/2017 22:38	WG975624
1,1,1-Trichloroethane	U		0.00798	0.0250	25	05/01/2017 22:38	WG975624
1,1,2-Trichloroethane	U		0.00958	0.0250	25	05/01/2017 22:38	WG975624
Trichloroethene	U		0.00995	0.0250	25	05/01/2017 22:38	WG975624
1,2,4-Trimethylbenzene	0.118		0.00932	0.0250	25	05/01/2017 22:38	WG975624
1,3,5-Trimethylbenzene	U		0.00968	0.0250	25	05/01/2017 22:38	WG975624
Vinyl chloride	U		0.00648	0.0250	25	05/01/2017 22:38	WG975624
o-Xylene	U		0.00852	0.0250	25	05/01/2017 22:38	WG975624
m&p-Xylene	0.228		0.0180	0.0500	25	05/01/2017 22:38	WG975624
Xylenes, Total	0.228		0.0265	0.0750	25	05/01/2017 22:38	WG975624
(S) Toluene-d8	*106*			*80.0-120*		*05/01/2017 22:38*	WG975624
(S) Dibromofluoromethane	*106*			*76.0-123*		*05/01/2017 22:38*	WG975624
(S) 4-Bromofluorobenzene	*97.6*			*80.0-120*		*05/01/2017 22:38*	WG975624

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	2.70		0.124	0.500	5	05/04/2017 16:20	WG975551
(S) o-Terphenyl	*76.0*			*31.0-160*		*05/04/2017 16:20*	WG975551

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Dissolved Solids	3210		2.82	10.0	1	05/02/2017 16:19	WG975506

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	U		0.197	1.00	10	05/04/2017 16:02	WG976257

Sample Narrative:

353.2 L905668-32 WG976257: 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	275		2.60	50.0	50	05/03/2017 16:39	WG975912
Fluoride	1.78		0.00990	0.100	1	05/03/2017 16:23	WG975912
Sulfate	1180		3.87	250	50	05/03/2017 16:39	WG975912

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.00450		0.000250	0.00200	1	05/02/2017 03:45	WG975077
Arsenic,Dissolved	0.00302		0.000250	0.00200	1	05/05/2017 18:15	WG975068
Barium	0.0285		0.000360	0.00500	1	05/02/2017 03:45	WG975077
Barium,Dissolved	0.0239		0.000360	0.00500	1	05/05/2017 18:15	WG975068
Calcium	358		0.0460	1.00	1	05/02/2017 03:45	WG975077
Chromium	U		0.000540	0.00200	1	05/02/2017 03:45	WG975077
Chromium,Dissolved	U		0.000540	0.00200	1	05/05/2017 18:15	WG975068
Iron	U		0.0150	0.100	1	05/02/2017 03:45	WG975077
Iron,Dissolved	U		0.0150	0.100	1	05/05/2017 18:15	WG975068
Lead	0.000317	J	0.000240	0.00200	1	05/02/2017 03:45	WG975077
Lead,Dissolved	U		0.000240	0.00200	1	05/05/2017 18:15	WG975068
Manganese	0.00311	J	0.000250	0.00500	1	05/02/2017 03:45	WG975077
Manganese,Dissolved	0.00371	J	0.000250	0.00500	1	05/05/2017 18:15	WG975068
Potassium	1.20		0.0370	1.00	1	05/02/2017 03:45	WG975077
Selenium	0.00328		0.000380	0.00200	1	05/02/2017 03:45	WG975077
Selenium,Dissolved	0.0172		0.000380	0.00200	1	05/05/2017 18:15	WG975068
Sodium	358		0.110	1.00	1	05/02/2017 03:45	WG975077

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	8.61		0.0314	0.100	1	05/08/2017 00:06	WG975303
(S) a,a,a-Trifluorotoluene(FID)	*92.6*			*77.0-122*		*05/08/2017 00:06*	WG975303

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		0.500	2.50	50	05/01/2017 23:00	WG975624
Benzene	1.59		0.0166	0.0500	50	05/01/2017 23:00	WG975624
Bromodichloromethane	U		0.0190	0.0500	50	05/01/2017 23:00	WG975624
Bromoform	U		0.0234	0.0500	50	05/01/2017 23:00	WG975624
Bromomethane	U	J4	0.0433	0.250	50	05/01/2017 23:00	WG975624
n-Butylbenzene	U		0.0180	0.0500	50	05/01/2017 23:00	WG975624

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		0.0182	0.0500	50	05/01/2017 23:00	WG975624
Carbon disulfide	U		0.0138	0.0500	50	05/01/2017 23:00	WG975624
Carbon tetrachloride	U		0.0190	0.0500	50	05/01/2017 23:00	WG975624
Chlorobenzene	U		0.0174	0.0500	50	05/01/2017 23:00	WG975624
Chlorodibromomethane	U		0.0164	0.0500	50	05/01/2017 23:00	WG975624
Chloroethane	U		0.0226	0.250	50	05/01/2017 23:00	WG975624
Chloroform	U		0.0162	0.250	50	05/01/2017 23:00	WG975624
Chloromethane	U		0.0138	0.125	50	05/01/2017 23:00	WG975624
1,2-Dibromoethane	U		0.0190	0.0500	50	05/01/2017 23:00	WG975624
1,1-Dichloroethane	U		0.0130	0.0500	50	05/01/2017 23:00	WG975624
1,2-Dichloroethane	U		0.0180	0.0500	50	05/01/2017 23:00	WG975624
1,1-Dichloroethene	U		0.0199	0.0500	50	05/01/2017 23:00	WG975624
cis-1,2-Dichloroethene	U		0.0130	0.0500	50	05/01/2017 23:00	WG975624
trans-1,2-Dichloroethene	U		0.0198	0.0500	50	05/01/2017 23:00	WG975624
1,2-Dichloropropane	U		0.0153	0.0500	50	05/01/2017 23:00	WG975624
cis-1,3-Dichloropropene	U		0.0209	0.0500	50	05/01/2017 23:00	WG975624
trans-1,3-Dichloropropene	U		0.0210	0.0500	50	05/01/2017 23:00	WG975624
Ethylbenzene	0.248		0.0192	0.0500	50	05/01/2017 23:00	WG975624
Isopropylbenzene	0.107		0.0163	0.0500	50	05/01/2017 23:00	WG975624
p-Isopropyltoluene	U		0.0175	0.0500	50	05/01/2017 23:00	WG975624
2-Butanone (MEK)	U		0.196	0.500	50	05/01/2017 23:00	WG975624
2-Hexanone	U		0.191	0.500	50	05/01/2017 23:00	WG975624
Methylene Chloride	U		0.0500	0.250	50	05/01/2017 23:00	WG975624
4-Methyl-2-pentanone (MIBK)	U		0.107	0.500	50	05/01/2017 23:00	WG975624
Methyl tert-butyl ether	U		0.0184	0.0500	50	05/01/2017 23:00	WG975624
Naphthalene	0.204	J	0.0500	0.250	50	05/01/2017 23:00	WG975624
n-Propylbenzene	0.220		0.0174	0.0500	50	05/01/2017 23:00	WG975624
Styrene	U		0.0154	0.0500	50	05/01/2017 23:00	WG975624
1,1,1,2-Tetrachloroethane	U		0.0192	0.0500	50	05/01/2017 23:00	WG975624
1,1,2,2-Tetrachloroethane	U		0.00650	0.0500	50	05/01/2017 23:00	WG975624
Tetrachloroethene	U		0.0186	0.0500	50	05/01/2017 23:00	WG975624
Toluene	U		0.0206	0.0500	50	05/01/2017 23:00	WG975624
1,1,1-Trichloroethane	U		0.0160	0.0500	50	05/01/2017 23:00	WG975624
1,1,2-Trichloroethane	U		0.0192	0.0500	50	05/01/2017 23:00	WG975624
Trichloroethene	U		0.0199	0.0500	50	05/01/2017 23:00	WG975624
1,2,4-Trimethylbenzene	0.646		0.0186	0.0500	50	05/01/2017 23:00	WG975624
1,3,5-Trimethylbenzene	0.149		0.0194	0.0500	50	05/01/2017 23:00	WG975624
Vinyl chloride	U		0.0130	0.0500	50	05/01/2017 23:00	WG975624
o-Xylene	U		0.0170	0.0500	50	05/01/2017 23:00	WG975624
m&p-Xylene	1.13		0.0360	0.100	50	05/01/2017 23:00	WG975624
Xylenes, Total	1.13		0.0530	0.150	50	05/01/2017 23:00	WG975624
(S) Toluene-d8	*105*			*80.0-120*		*05/01/2017 23:00*	WG975624
(S) Dibromofluoromethane	*105*			*76.0-123*		*05/01/2017 23:00*	WG975624
(S) 4-Bromofluorobenzene	*96.9*			*80.0-120*		*05/01/2017 23:00*	WG975624

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	5.93		0.124	0.500	5	05/06/2017 01:51	WG975551
(S) o-Terphenyl	*82.0*			*31.0-160*		*05/06/2017 01:51*	WG975551

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Dissolved Solids	2930		2.82	10.0	1	05/02/2017 16:52	WG975508

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	U		0.197	1.00	10	05/04/2017 16:03	WG976257

Sample Narrative:

353.2 L905668-33 WG976257: 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	192		2.60	50.0	50	05/03/2017 19:53	WG975912
Fluoride	2.38		0.00990	0.100	1	05/03/2017 19:37	WG975912
Sulfate	1430		3.87	250	50	05/03/2017 19:53	WG975912

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.00456		0.000250	0.00200	1	05/02/2017 03:49	WG975077
Arsenic,Dissolved	0.00375		0.000250	0.00200	1	05/05/2017 18:19	WG975068
Barium	0.0228		0.000360	0.00500	1	05/02/2017 03:49	WG975077
Barium,Dissolved	0.0210		0.000360	0.00500	1	05/05/2017 18:19	WG975068
Calcium	489		0.0460	1.00	1	05/02/2017 03:49	WG975077
Chromium	0.00367		0.000540	0.00200	1	05/02/2017 03:49	WG975077
Chromium,Dissolved	0.00235		0.000540	0.00200	1	05/05/2017 18:19	WG975068
Iron	0.278		0.0150	0.100	1	05/02/2017 03:49	WG975077
Iron,Dissolved	0.0197	J	0.0150	0.100	1	05/05/2017 18:19	WG975068
Lead	0.00116	J	0.000240	0.00200	1	05/02/2017 03:49	WG975077
Lead,Dissolved	0.000486	J	0.000240	0.00200	1	05/04/2017 14:33	WG975068
Manganese	0.0258		0.000250	0.00500	1	05/02/2017 03:49	WG975077
Manganese,Dissolved	0.0255		0.000250	0.00500	1	05/05/2017 18:19	WG975068
Potassium	2.97		0.0370	1.00	1	05/02/2017 03:49	WG975077
Selenium	0.00683		0.000380	0.00200	1	05/02/2017 03:49	WG975077
Selenium,Dissolved	0.0145		0.000380	0.00200	1	05/05/2017 18:19	WG975068
Sodium	167		0.110	1.00	1	05/02/2017 03:49	WG975077

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	3.73		0.0314	0.100	1	05/08/2017 00:28	WG975303
(S) a,a,a-Trifluorotoluene(FID)	*95.1*			*77.0-122*		*05/08/2017 00:28*	WG975303

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		0.250	1.25	25	05/01/2017 23:22	WG975624
Benzene	0.633		0.00828	0.0250	25	05/01/2017 23:22	WG975624
Bromodichloromethane	U		0.00950	0.0250	25	05/01/2017 23:22	WG975624
Bromoform	U		0.0117	0.0250	25	05/01/2017 23:22	WG975624
Bromomethane	U	J4	0.0216	0.125	25	05/01/2017 23:22	WG975624
n-Butylbenzene	U		0.00902	0.0250	25	05/01/2017 23:22	WG975624

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		0.00912	0.0250	25	05/01/2017 23:22	WG975624
Carbon disulfide	U		0.00688	0.0250	25	05/01/2017 23:22	WG975624
Carbon tetrachloride	U		0.00948	0.0250	25	05/01/2017 23:22	WG975624
Chlorobenzene	U		0.00870	0.0250	25	05/01/2017 23:22	WG975624
Chlorodibromomethane	U		0.00818	0.0250	25	05/01/2017 23:22	WG975624
Chloroethane	U		0.0113	0.125	25	05/01/2017 23:22	WG975624
Chloroform	U		0.00810	0.125	25	05/01/2017 23:22	WG975624
Chloromethane	U		0.00690	0.0625	25	05/01/2017 23:22	WG975624
1,2-Dibromoethane	U		0.00952	0.0250	25	05/01/2017 23:22	WG975624
1,1-Dichloroethane	U		0.00648	0.0250	25	05/01/2017 23:22	WG975624
1,2-Dichloroethane	U		0.00902	0.0250	25	05/01/2017 23:22	WG975624
1,1-Dichloroethene	U		0.00995	0.0250	25	05/01/2017 23:22	WG975624
cis-1,2-Dichloroethene	U		0.00650	0.0250	25	05/01/2017 23:22	WG975624
trans-1,2-Dichloroethene	U		0.00990	0.0250	25	05/01/2017 23:22	WG975624
1,2-Dichloropropane	U		0.00765	0.0250	25	05/01/2017 23:22	WG975624
cis-1,3-Dichloropropene	U		0.0104	0.0250	25	05/01/2017 23:22	WG975624
trans-1,3-Dichloropropene	U		0.0105	0.0250	25	05/01/2017 23:22	WG975624
Ethylbenzene	U		0.00960	0.0250	25	05/01/2017 23:22	WG975624
Isopropylbenzene	0.0355		0.00815	0.0250	25	05/01/2017 23:22	WG975624
p-Isopropyltoluene	U		0.00875	0.0250	25	05/01/2017 23:22	WG975624
2-Butanone (MEK)	U		0.0982	0.250	25	05/01/2017 23:22	WG975624
2-Hexanone	U		0.0955	0.250	25	05/01/2017 23:22	WG975624
Methylene Chloride	U		0.0250	0.125	25	05/01/2017 23:22	WG975624
4-Methyl-2-pentanone (MIBK)	U		0.0535	0.250	25	05/01/2017 23:22	WG975624
Methyl tert-butyl ether	U		0.00918	0.0250	25	05/01/2017 23:22	WG975624
Naphthalene	0.0422	J	0.0250	0.125	25	05/01/2017 23:22	WG975624
n-Propylbenzene	0.0491		0.00872	0.0250	25	05/01/2017 23:22	WG975624
Styrene	U		0.00768	0.0250	25	05/01/2017 23:22	WG975624
1,1,1,2-Tetrachloroethane	U		0.00962	0.0250	25	05/01/2017 23:22	WG975624
1,1,2,2-Tetrachloroethane	U		0.00325	0.0250	25	05/01/2017 23:22	WG975624
Tetrachloroethene	U		0.00930	0.0250	25	05/01/2017 23:22	WG975624
Toluene	U		0.0103	0.0250	25	05/01/2017 23:22	WG975624
1,1,1-Trichloroethane	U		0.00798	0.0250	25	05/01/2017 23:22	WG975624
1,1,2-Trichloroethane	U		0.00958	0.0250	25	05/01/2017 23:22	WG975624
Trichloroethene	U		0.00995	0.0250	25	05/01/2017 23:22	WG975624
1,2,4-Trimethylbenzene	0.148		0.00932	0.0250	25	05/01/2017 23:22	WG975624
1,3,5-Trimethylbenzene	0.0236	J	0.00968	0.0250	25	05/01/2017 23:22	WG975624
Vinyl chloride	U		0.00648	0.0250	25	05/01/2017 23:22	WG975624
o-Xylene	U		0.00852	0.0250	25	05/01/2017 23:22	WG975624
m&p-Xylene	0.326		0.0180	0.0500	25	05/01/2017 23:22	WG975624
Xylenes, Total	0.326		0.0265	0.0750	25	05/01/2017 23:22	WG975624
(S) Toluene-d8	*105*			*80.0-120*		*05/01/2017 23:22*	WG975624
(S) Dibromofluoromethane	*107*			*76.0-123*		*05/01/2017 23:22*	WG975624
(S) 4-Bromofluorobenzene	*95.7*			*80.0-120*		*05/01/2017 23:22*	WG975624

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	7.89		0.124	0.500	5	05/04/2017 17:28	WG975551
(S) o-Terphenyl	*104*			*31.0-160*		*05/04/2017 17:28*	WG975551

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Dissolved Solids	2040		2.82	10.0	1	05/02/2017 16:52	WG975508

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	U		0.197	1.00	10	05/04/2017 16:04	WG976257

Sample Narrative:

353.2 L905668-34 WG976257: 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	517		2.60	50.0	50	05/03/2017 20:24	WG975912
Fluoride	1.74		0.00990	0.100	1	05/03/2017 20:08	WG975912
Sulfate	5.27		0.0774	5.00	1	05/03/2017 20:08	WG975912

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.00608		0.000250	0.00200	1	05/02/2017 03:52	WG975077
Arsenic,Dissolved	0.00644		0.000250	0.00200	1	05/05/2017 18:22	WG975068
Barium	9.82		0.000360	0.00500	1	05/02/2017 03:52	WG975077
Barium,Dissolved	9.68		0.000360	0.00500	1	05/05/2017 18:22	WG975068
Calcium	102		0.0460	1.00	1	05/02/2017 03:52	WG975077
Chromium	0.000789	J	0.000540	0.00200	1	05/02/2017 03:52	WG975077
Chromium,Dissolved	0.000654	J	0.000540	0.00200	1	05/05/2017 18:22	WG975068
Iron	0.0552	J	0.0150	0.100	1	05/02/2017 03:52	WG975077
Iron,Dissolved	U		0.0150	0.100	1	05/05/2017 18:22	WG975068
Lead	0.00296		0.000240	0.00200	1	05/02/2017 03:52	WG975077
Lead,Dissolved	0.000731	J	0.000240	0.00200	1	05/04/2017 01:03	WG975068
Manganese	0.0653		0.000250	0.00500	1	05/02/2017 03:52	WG975077
Manganese,Dissolved	0.0673		0.000250	0.00500	1	05/05/2017 18:22	WG975068
Potassium	1.59		0.0370	1.00	1	05/02/2017 03:52	WG975077
Selenium	0.00287		0.000380	0.00200	1	05/02/2017 03:52	WG975077
Selenium,Dissolved	0.00330		0.000380	0.00200	1	05/05/2017 18:22	WG975068
Sodium	446		0.110	1.00	1	05/02/2017 03:52	WG975077

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	29.1		0.157	0.500	5	05/08/2017 00:50	WG975303
(S) a,a,a-Trifluorotoluene(FID)	*93.8*			*77.0-122*		*05/08/2017 00:50*	WG975303

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		0.0100	0.0500	1	05/01/2017 23:44	WG975624
Benzene	8.49		0.0331	0.100	100	05/03/2017 20:34	WG975624
Bromodichloromethane	U		0.000380	0.00100	1	05/01/2017 23:44	WG975624
Bromoform	U		0.000469	0.00100	1	05/01/2017 23:44	WG975624
Bromomethane	U	J4	0.000866	0.00500	1	05/01/2017 23:44	WG975624
n-Butylbenzene	0.0169		0.000361	0.00100	1	05/01/2017 23:44	WG975624

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	0.0190		0.000365	0.00100	1	05/01/2017 23:44	WG975624
Carbon disulfide	0.000448	J	0.000275	0.00100	1	05/01/2017 23:44	WG975624
Carbon tetrachloride	U		0.000379	0.00100	1	05/01/2017 23:44	WG975624
Chlorobenzene	U		0.000348	0.00100	1	05/01/2017 23:44	WG975624
Chlorodibromomethane	U		0.000327	0.00100	1	05/01/2017 23:44	WG975624
Chloroethane	U		0.000453	0.00500	1	05/01/2017 23:44	WG975624
Chloroform	U		0.000324	0.00500	1	05/01/2017 23:44	WG975624
Chloromethane	U		0.000276	0.00250	1	05/01/2017 23:44	WG975624
1,2-Dibromoethane	U		0.000381	0.00100	1	05/01/2017 23:44	WG975624
1,1-Dichloroethane	U		0.000259	0.00100	1	05/01/2017 23:44	WG975624
1,2-Dichloroethane	U		0.000361	0.00100	1	05/01/2017 23:44	WG975624
1,1-Dichloroethene	0.00103		0.000398	0.00100	1	05/01/2017 23:44	WG975624
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	05/01/2017 23:44	WG975624
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	05/01/2017 23:44	WG975624
1,2-Dichloropropane	U		0.000306	0.00100	1	05/01/2017 23:44	WG975624
cis-1,3-Dichloropropene	U		0.000418	0.00100	1	05/01/2017 23:44	WG975624
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	05/01/2017 23:44	WG975624
Ethylbenzene	0.0958		0.000384	0.00100	1	05/01/2017 23:44	WG975624
Isopropylbenzene	0.144		0.000326	0.00100	1	05/01/2017 23:44	WG975624
p-Isopropyltoluene	0.000602	J	0.000350	0.00100	1	05/01/2017 23:44	WG975624
2-Butanone (MEK)	U		0.00393	0.0100	1	05/01/2017 23:44	WG975624
2-Hexanone	U		0.00382	0.0100	1	05/01/2017 23:44	WG975624
Methylene Chloride	U		0.00100	0.00500	1	05/01/2017 23:44	WG975624
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	05/01/2017 23:44	WG975624
Methyl tert-butyl ether	0.0270		0.000367	0.00100	1	05/01/2017 23:44	WG975624
Naphthalene	0.190		0.00100	0.00500	1	05/01/2017 23:44	WG975624
n-Propylbenzene	0.137		0.0349	0.100	100	05/03/2017 20:34	WG975624
Styrene	U		0.000307	0.00100	1	05/01/2017 23:44	WG975624
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	05/01/2017 23:44	WG975624
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	05/01/2017 23:44	WG975624
Tetrachloroethene	U		0.000372	0.00100	1	05/01/2017 23:44	WG975624
Toluene	0.00243		0.000412	0.00100	1	05/01/2017 23:44	WG975624
1,1,1-Trichloroethane	U		0.000319	0.00100	1	05/01/2017 23:44	WG975624
1,1,2-Trichloroethane	U		0.000383	0.00100	1	05/01/2017 23:44	WG975624
Trichloroethene	U		0.000398	0.00100	1	05/01/2017 23:44	WG975624
1,2,4-Trimethylbenzene	U		0.000373	0.00100	1	05/01/2017 23:44	WG975624
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	05/01/2017 23:44	WG975624
Vinyl chloride	U		0.000259	0.00100	1	05/01/2017 23:44	WG975624
o-Xylene	0.00188		0.000341	0.00100	1	05/01/2017 23:44	WG975624
m&p-Xylene	0.00361		0.000719	0.00200	1	05/01/2017 23:44	WG975624
Xylenes, Total	0.00549		0.00106	0.00300	1	05/01/2017 23:44	WG975624
(S) Toluene-d8	*98.4*			*80.0-120*		*05/01/2017 23:44*	WG975624
(S) Toluene-d8	*102*			*80.0-120*		*05/03/2017 20:34*	WG975624
(S) Dibromofluoromethane	*92.0*			*76.0-123*		*05/01/2017 23:44*	WG975624
(S) Dibromofluoromethane	*97.3*			*76.0-123*		*05/03/2017 20:34*	WG975624
(S) 4-Bromofluorobenzene	*99.3*			*80.0-120*		*05/01/2017 23:44*	WG975624
(S) 4-Bromofluorobenzene	*99.6*			*80.0-120*		*05/03/2017 20:34*	WG975624

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	2.78		0.494	2.00	20	05/04/2017 17:45	WG975551
(S) o-Terphenyl	*99.4*	J7		*31.0-160*		*05/04/2017 17:45*	WG975551

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Dissolved Solids	3890		2.82	10.0	1	05/02/2017 16:52	WG975508

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	U		0.197	1.00	10	05/04/2017 16:05	WG976257

Sample Narrative:

353.2 L905668-35 WG976257: 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	271		2.60	50.0	50	05/04/2017 02:18	WG975912
Fluoride	2.60		0.00990	0.100	1	05/04/2017 02:03	WG975912
Sulfate	957		3.87	250	50	05/04/2017 02:18	WG975912

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.0135		0.000250	0.00200	1	05/02/2017 03:56	WG975077
Arsenic,Dissolved	0.0134		0.000250	0.00200	1	05/05/2017 18:26	WG975068
Barium	0.0192		0.000360	0.00500	1	05/02/2017 03:56	WG975077
Barium,Dissolved	0.0206		0.000360	0.00500	1	05/05/2017 18:26	WG975068
Calcium	84.0		0.0460	1.00	1	05/02/2017 03:56	WG975077
Chromium	0.00275		0.000540	0.00200	1	05/02/2017 03:56	WG975077
Chromium,Dissolved	0.000959	J	0.000540	0.00200	1	05/05/2017 18:26	WG975068
Iron	0.101		0.0150	0.100	1	05/02/2017 03:56	WG975077
Iron,Dissolved	U		0.0150	0.100	1	05/05/2017 18:26	WG975068
Lead	0.00157	J	0.000240	0.00200	1	05/02/2017 03:56	WG975077
Lead,Dissolved	0.000354	J	0.000240	0.00200	1	05/05/2017 18:26	WG975068
Manganese	0.0113		0.000250	0.00500	1	05/02/2017 03:56	WG975077
Manganese,Dissolved	0.0120		0.000250	0.00500	1	05/05/2017 18:26	WG975068
Potassium	0.347	J	0.0370	1.00	1	05/02/2017 03:56	WG975077
Selenium	0.00268		0.000380	0.00200	1	05/02/2017 03:56	WG975077
Selenium,Dissolved	0.00316		0.000380	0.00200	1	05/05/2017 18:26	WG975068
Sodium	1260		1.10	10.0	10	05/02/2017 12:14	WG975077

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	5.20		0.0314	0.100	1	05/08/2017 01:12	WG975303
(S) a,a,a-Trifluorotoluene(FID)	*91.0*			*77.0-122*		*05/08/2017 01:12*	WG975303

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		0.100	0.500	10	05/02/2017 00:06	WG975624
Benzene	1.33		0.00331	0.0100	10	05/02/2017 00:06	WG975624
Bromodichloromethane	U		0.00380	0.0100	10	05/02/2017 00:06	WG975624
Bromoform	U		0.00469	0.0100	10	05/02/2017 00:06	WG975624
Bromomethane	U	J4	0.00866	0.0500	10	05/02/2017 00:06	WG975624
n-Butylbenzene	0.00439	J	0.00361	0.0100	10	05/02/2017 00:06	WG975624

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	0.00878	J	0.00365	0.0100	10	05/02/2017 00:06	WG975624
Carbon disulfide	U		0.00275	0.0100	10	05/02/2017 00:06	WG975624
Carbon tetrachloride	U		0.00379	0.0100	10	05/02/2017 00:06	WG975624
Chlorobenzene	U		0.00348	0.0100	10	05/02/2017 00:06	WG975624
Chlorodibromomethane	U		0.00327	0.0100	10	05/02/2017 00:06	WG975624
Chloroethane	U		0.00453	0.0500	10	05/02/2017 00:06	WG975624
Chloroform	U		0.00324	0.0500	10	05/02/2017 00:06	WG975624
Chloromethane	U		0.00276	0.0250	10	05/02/2017 00:06	WG975624
1,2-Dibromoethane	U		0.00381	0.0100	10	05/02/2017 00:06	WG975624
1,1-Dichloroethane	U		0.00259	0.0100	10	05/02/2017 00:06	WG975624
1,2-Dichloroethane	U		0.00361	0.0100	10	05/02/2017 00:06	WG975624
1,1-Dichloroethene	U		0.00398	0.0100	10	05/02/2017 00:06	WG975624
cis-1,2-Dichloroethene	U		0.00260	0.0100	10	05/02/2017 00:06	WG975624
trans-1,2-Dichloroethene	U		0.00396	0.0100	10	05/02/2017 00:06	WG975624
1,2-Dichloropropane	U		0.00306	0.0100	10	05/02/2017 00:06	WG975624
cis-1,3-Dichloropropene	U		0.00418	0.0100	10	05/02/2017 00:06	WG975624
trans-1,3-Dichloropropene	U		0.00419	0.0100	10	05/02/2017 00:06	WG975624
Ethylbenzene	0.0284		0.00384	0.0100	10	05/02/2017 00:06	WG975624
Isopropylbenzene	0.0449		0.00326	0.0100	10	05/02/2017 00:06	WG975624
p-Isopropyltoluene	U		0.00350	0.0100	10	05/02/2017 00:06	WG975624
2-Butanone (MEK)	U		0.0393	0.100	10	05/02/2017 00:06	WG975624
2-Hexanone	U		0.0382	0.100	10	05/02/2017 00:06	WG975624
Methylene Chloride	U		0.0100	0.0500	10	05/02/2017 00:06	WG975624
4-Methyl-2-pentanone (MIBK)	U		0.0214	0.100	10	05/02/2017 00:06	WG975624
Methyl tert-butyl ether	0.00429	J	0.00367	0.0100	10	05/02/2017 00:06	WG975624
Naphthalene	0.0158	J	0.0100	0.0500	10	05/02/2017 00:06	WG975624
n-Propylbenzene	0.0579		0.00349	0.0100	10	05/02/2017 00:06	WG975624
Styrene	U		0.00307	0.0100	10	05/02/2017 00:06	WG975624
1,1,1,2-Tetrachloroethane	U		0.00385	0.0100	10	05/02/2017 00:06	WG975624
1,1,2,2-Tetrachloroethane	U		0.00130	0.0100	10	05/02/2017 00:06	WG975624
Tetrachloroethene	U		0.00372	0.0100	10	05/02/2017 00:06	WG975624
Toluene	0.0251		0.00412	0.0100	10	05/02/2017 00:06	WG975624
1,1,1-Trichloroethane	U		0.00319	0.0100	10	05/02/2017 00:06	WG975624
1,1,2-Trichloroethane	U		0.00383	0.0100	10	05/02/2017 00:06	WG975624
Trichloroethene	U		0.00398	0.0100	10	05/02/2017 00:06	WG975624
1,2,4-Trimethylbenzene	0.0710		0.00373	0.0100	10	05/02/2017 00:06	WG975624
1,3,5-Trimethylbenzene	0.00534	J	0.00387	0.0100	10	05/02/2017 00:06	WG975624
Vinyl chloride	U		0.00259	0.0100	10	05/02/2017 00:06	WG975624
o-Xylene	0.0454		0.00341	0.0100	10	05/02/2017 00:06	WG975624
m&p-Xylene	0.141		0.00719	0.0200	10	05/02/2017 00:06	WG975624
Xylenes, Total	0.186		0.0106	0.0300	10	05/02/2017 00:06	WG975624
(S) Toluene-d8	*105*			*80.0-120*		*05/02/2017 00:06*	WG975624
(S) Dibromofluoromethane	*100*			*76.0-123*		*05/02/2017 00:06*	WG975624
(S) 4-Bromofluorobenzene	*98.6*			*80.0-120*		*05/02/2017 00:06*	WG975624

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	9.81		0.124	0.500	5	05/06/2017 01:01	WG975551
(S) o-Terphenyl	*79.0*			*31.0-160*		*05/06/2017 01:01*	WG975551

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Dissolved Solids	2890		2.82	10.0	1	05/02/2017 16:52	WG975508

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	U		0.197	1.00	10	05/04/2017 16:06	WG976257

Sample Narrative:

353.2 L905668-36 WG976257: 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	328		2.60	50.0	50	05/03/2017 17:10	WG975912
Fluoride	0.936		0.00990	0.100	1	05/03/2017 16:54	WG975912
Sulfate	1200		3.87	250	50	05/03/2017 17:10	WG975912

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.00391		0.000250	0.00200	1	05/02/2017 03:59	WG975077
Arsenic,Dissolved	0.00393		0.000250	0.00200	1	05/05/2017 18:49	WG975068
Barium	0.0154		0.000360	0.00500	1	05/02/2017 03:59	WG975077
Barium,Dissolved	0.0145		0.000360	0.00500	1	05/05/2017 18:49	WG975068
Calcium	224		0.0460	1.00	1	05/02/2017 03:59	WG975077
Chromium	U		0.000540	0.00200	1	05/02/2017 03:59	WG975077
Chromium,Dissolved	U		0.000540	0.00200	1	05/05/2017 18:49	WG975068
Iron	0.0429	J	0.0150	0.100	1	05/02/2017 03:59	WG975077
Iron,Dissolved	U		0.0150	0.100	1	05/05/2017 18:49	WG975068
Lead	0.000578	J	0.000240	0.00200	1	05/02/2017 03:59	WG975077
Lead,Dissolved	U		0.000240	0.00200	1	05/04/2017 01:10	WG975068
Manganese	0.737		0.000250	0.00500	1	05/02/2017 03:59	WG975077
Manganese,Dissolved	0.790		0.000250	0.00500	1	05/05/2017 18:49	WG975068
Potassium	0.415	J	0.0370	1.00	1	05/02/2017 03:59	WG975077
Selenium	0.00229		0.000380	0.00200	1	05/02/2017 03:59	WG975077
Selenium,Dissolved	0.00126	J	0.000380	0.00200	1	05/05/2017 18:49	WG975068
Sodium	379		0.110	1.00	1	05/02/2017 03:59	WG975077

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	0.249		0.0314	0.100	1	05/08/2017 01:34	WG975303
(S) a,a,a-Trifluorotoluene(FID)	*96.1*			*77.0-122*		*05/08/2017 01:34*	WG975303

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		0.0100	0.0500	1	05/03/2017 20:47	WG975624
Benzene	0.00339		0.000331	0.00100	1	05/03/2017 20:47	WG975624
Bromodichloromethane	U		0.000380	0.00100	1	05/03/2017 20:47	WG975624
Bromoform	U		0.000469	0.00100	1	05/03/2017 20:47	WG975624
Bromomethane	U	J4	0.000866	0.00500	1	05/03/2017 20:47	WG975624
n-Butylbenzene	U		0.000361	0.00100	1	05/03/2017 20:47	WG975624

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	0.00499		0.000365	0.00100	1	05/03/2017 20:47	WG975624
Carbon disulfide	0.000318	J	0.000275	0.00100	1	05/03/2017 20:47	WG975624
Carbon tetrachloride	U		0.000379	0.00100	1	05/03/2017 20:47	WG975624
Chlorobenzene	U		0.000348	0.00100	1	05/03/2017 20:47	WG975624
Chlorodibromomethane	U		0.000327	0.00100	1	05/03/2017 20:47	WG975624
Chloroethane	U		0.000453	0.00500	1	05/03/2017 20:47	WG975624
Chloroform	U		0.000324	0.00500	1	05/03/2017 20:47	WG975624
Chloromethane	U		0.000276	0.00250	1	05/03/2017 20:47	WG975624
1,2-Dibromoethane	U		0.000381	0.00100	1	05/03/2017 20:47	WG975624
1,1-Dichloroethane	U		0.000259	0.00100	1	05/03/2017 20:47	WG975624
1,2-Dichloroethane	U		0.000361	0.00100	1	05/03/2017 20:47	WG975624
1,1-Dichloroethene	U		0.000398	0.00100	1	05/03/2017 20:47	WG975624
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	05/03/2017 20:47	WG975624
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	05/03/2017 20:47	WG975624
1,2-Dichloropropane	U		0.000306	0.00100	1	05/03/2017 20:47	WG975624
cis-1,3-Dichloropropene	U		0.000418	0.00100	1	05/03/2017 20:47	WG975624
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	05/03/2017 20:47	WG975624
Ethylbenzene	U		0.000384	0.00100	1	05/03/2017 20:47	WG975624
Isopropylbenzene	0.0148		0.000326	0.00100	1	05/03/2017 20:47	WG975624
p-Isopropyltoluene	U		0.000350	0.00100	1	05/03/2017 20:47	WG975624
2-Butanone (MEK)	U		0.00393	0.0100	1	05/03/2017 20:47	WG975624
2-Hexanone	U		0.00382	0.0100	1	05/03/2017 20:47	WG975624
Methylene Chloride	U		0.00100	0.00500	1	05/03/2017 20:47	WG975624
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	05/03/2017 20:47	WG975624
Methyl tert-butyl ether	0.00380		0.000367	0.00100	1	05/03/2017 20:47	WG975624
Naphthalene	U		0.00100	0.00500	1	05/03/2017 20:47	WG975624
n-Propylbenzene	0.000572	J	0.000349	0.00100	1	05/03/2017 20:47	WG975624
Styrene	U		0.000307	0.00100	1	05/03/2017 20:47	WG975624
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	05/03/2017 20:47	WG975624
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	05/03/2017 20:47	WG975624
Tetrachloroethene	U		0.000372	0.00100	1	05/03/2017 20:47	WG975624
Toluene	U		0.000412	0.00100	1	05/03/2017 20:47	WG975624
1,1,1-Trichloroethane	U		0.000319	0.00100	1	05/03/2017 20:47	WG975624
1,1,2-Trichloroethane	U		0.000383	0.00100	1	05/03/2017 20:47	WG975624
Trichloroethene	U		0.000398	0.00100	1	05/03/2017 20:47	WG975624
1,2,4-Trimethylbenzene	U		0.000373	0.00100	1	05/03/2017 20:47	WG975624
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	05/03/2017 20:47	WG975624
Vinyl chloride	U		0.000259	0.00100	1	05/03/2017 20:47	WG975624
o-Xylene	U		0.000341	0.00100	1	05/03/2017 20:47	WG975624
m&p-Xylene	U		0.000719	0.00200	1	05/03/2017 20:47	WG975624
Xylenes, Total	U		0.00106	0.00300	1	05/03/2017 20:47	WG975624
(S) Toluene-d8	*103*			*80.0-120*		*05/03/2017 20:47*	WG975624
(S) Dibromofluoromethane	*100*			*76.0-123*		*05/03/2017 20:47*	WG975624
(S) 4-Bromofluorobenzene	*102*			*80.0-120*		*05/03/2017 20:47*	WG975624

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	1.58		0.124	0.500	5	05/06/2017 02:07	WG975551
(S) o-Terphenyl	*69.0*			*31.0-160*		*05/06/2017 02:07*	WG975551

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Dissolved Solids	3410		2.82	10.0	1	05/02/2017 16:52	WG975508

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	0.416	J P1	0.197	1.00	10	05/04/2017 16:08	WG976257

Sample Narrative:

353.2 L905668-37 WG976257: 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	406		2.60	50.0	50	05/03/2017 18:51	WG975912
Fluoride	0.831		0.00990	0.100	1	05/03/2017 18:36	WG975912
Sulfate	1100		3.87	250	50	05/03/2017 18:51	WG975912

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.00486		0.000250	0.00200	1	05/02/2017 04:03	WG975077
Arsenic,Dissolved	0.00487		0.000250	0.00200	1	05/05/2017 18:53	WG975068
Barium	0.0182		0.000360	0.00500	1	05/02/2017 04:03	WG975077
Barium,Dissolved	0.0179		0.000360	0.00500	1	05/05/2017 18:53	WG975068
Calcium	222		0.0460	1.00	1	05/02/2017 04:03	WG975077
Chromium	U		0.000540	0.00200	1	05/02/2017 04:03	WG975077
Chromium,Dissolved	U		0.000540	0.00200	1	05/05/2017 18:53	WG975068
Iron	U		0.0150	0.100	1	05/02/2017 04:03	WG975077
Iron,Dissolved	0.0328	J	0.0150	0.100	1	05/05/2017 18:53	WG975068
Lead	0.000252	J	0.000240	0.00200	1	05/02/2017 04:03	WG975077
Lead,Dissolved	0.000254	J	0.000240	0.00200	1	05/04/2017 01:14	WG975068
Manganese	0.177		0.000250	0.00500	1	05/02/2017 04:03	WG975077
Manganese,Dissolved	0.180		0.000250	0.00500	1	05/05/2017 18:53	WG975068
Potassium	0.421	J	0.0370	1.00	1	05/02/2017 04:03	WG975077
Selenium	0.00222		0.000380	0.00200	1	05/02/2017 04:03	WG975077
Selenium,Dissolved	0.00156	J	0.000380	0.00200	1	05/05/2017 18:53	WG975068
Sodium	462		0.110	1.00	1	05/02/2017 04:03	WG975077

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	0.262		0.0314	0.100	1	05/01/2017 02:17	WG975303
(S) a,a,a-Trifluorotoluene(FID)	*90.6*			*77.0-122*		*05/01/2017 02:17*	WG975303

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		0.0100	0.0500	1	05/02/2017 00:49	WG975624
Benzene	0.0240		0.000331	0.00100	1	05/02/2017 00:49	WG975624
Bromodichloromethane	U		0.000380	0.00100	1	05/02/2017 00:49	WG975624
Bromoform	U		0.000469	0.00100	1	05/02/2017 00:49	WG975624
Bromomethane	U	J4	0.000866	0.00500	1	05/02/2017 00:49	WG975624
n-Butylbenzene	U		0.000361	0.00100	1	05/02/2017 00:49	WG975624

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	0.00553		0.000365	0.00100	1	05/02/2017 00:49	WG975624
Carbon disulfide	U		0.000275	0.00100	1	05/02/2017 00:49	WG975624
Carbon tetrachloride	U		0.000379	0.00100	1	05/02/2017 00:49	WG975624
Chlorobenzene	U		0.000348	0.00100	1	05/02/2017 00:49	WG975624
Chlorodibromomethane	U		0.000327	0.00100	1	05/02/2017 00:49	WG975624
Chloroethane	U		0.000453	0.00500	1	05/02/2017 00:49	WG975624
Chloroform	U		0.000324	0.00500	1	05/02/2017 00:49	WG975624
Chloromethane	U		0.000276	0.00250	1	05/02/2017 00:49	WG975624
1,2-Dibromoethane	U		0.000381	0.00100	1	05/02/2017 00:49	WG975624
1,1-Dichloroethane	U		0.000259	0.00100	1	05/02/2017 00:49	WG975624
1,2-Dichloroethane	U		0.000361	0.00100	1	05/02/2017 00:49	WG975624
1,1-Dichloroethene	U		0.000398	0.00100	1	05/02/2017 00:49	WG975624
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	05/02/2017 00:49	WG975624
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	05/02/2017 00:49	WG975624
1,2-Dichloropropane	0.000951	J	0.000306	0.00100	1	05/02/2017 00:49	WG975624
cis-1,3-Dichloropropene	U		0.000418	0.00100	1	05/02/2017 00:49	WG975624
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	05/02/2017 00:49	WG975624
Ethylbenzene	U		0.000384	0.00100	1	05/02/2017 00:49	WG975624
Isopropylbenzene	0.0278		0.000326	0.00100	1	05/02/2017 00:49	WG975624
p-Isopropyltoluene	U		0.000350	0.00100	1	05/02/2017 00:49	WG975624
2-Butanone (MEK)	U		0.00393	0.0100	1	05/02/2017 00:49	WG975624
2-Hexanone	U		0.00382	0.0100	1	05/02/2017 00:49	WG975624
Methylene Chloride	U		0.00100	0.00500	1	05/02/2017 00:49	WG975624
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	05/02/2017 00:49	WG975624
Methyl tert-butyl ether	0.0104		0.000367	0.00100	1	05/02/2017 00:49	WG975624
Naphthalene	U		0.00100	0.00500	1	05/02/2017 00:49	WG975624
n-Propylbenzene	0.00355		0.000349	0.00100	1	05/02/2017 00:49	WG975624
Styrene	U		0.000307	0.00100	1	05/02/2017 00:49	WG975624
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	05/02/2017 00:49	WG975624
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	05/02/2017 00:49	WG975624
Tetrachloroethene	U		0.000372	0.00100	1	05/02/2017 00:49	WG975624
Toluene	0.000845	J	0.000412	0.00100	1	05/02/2017 00:49	WG975624
1,1,1-Trichloroethane	U		0.000319	0.00100	1	05/02/2017 00:49	WG975624
1,1,2-Trichloroethane	U		0.000383	0.00100	1	05/02/2017 00:49	WG975624
Trichloroethene	U		0.000398	0.00100	1	05/02/2017 00:49	WG975624
1,2,4-Trimethylbenzene	0.00352		0.000373	0.00100	1	05/02/2017 00:49	WG975624
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	05/02/2017 00:49	WG975624
Vinyl chloride	U		0.000259	0.00100	1	05/02/2017 00:49	WG975624
o-Xylene	U		0.000341	0.00100	1	05/02/2017 00:49	WG975624
m&p-Xylene	0.00365		0.000719	0.00200	1	05/02/2017 00:49	WG975624
Xylenes, Total	0.00365		0.00106	0.00300	1	05/02/2017 00:49	WG975624
(S) Toluene-d8	*104*			*80.0-120*		*05/02/2017 00:49*	WG975624
(S) Dibromofluoromethane	*107*			*76.0-123*		*05/02/2017 00:49*	WG975624
(S) 4-Bromofluorobenzene	*94.7*			*80.0-120*		*05/02/2017 00:49*	WG975624

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	3.41		0.124	0.500	5	05/04/2017 16:54	WG975551
(S) o-Terphenyl	*72.5*			*31.0-160*		*05/04/2017 16:54*	WG975551

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Dissolved Solids	3670		2.82	10.0	1	05/02/2017 16:52	WG975508

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	U		0.197	1.00	10	05/04/2017 14:05	WG975897

Sample Narrative:

353.2 L905668-38 WG975897: 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	268		2.60	50.0	50	05/03/2017 20:54	WG975912
Fluoride	0.642		0.00990	0.100	1	05/03/2017 20:39	WG975912
Sulfate	1790		3.87	250	50	05/03/2017 20:54	WG975912

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.000518	J	0.000250	0.00200	1	05/02/2017 02:42	WG975077
Arsenic,Dissolved	0.000531	J	0.000250	0.00200	1	05/05/2017 17:29	WG975068
Barium	0.0156		0.000360	0.00500	1	05/02/2017 02:42	WG975077
Barium,Dissolved	0.0173		0.000360	0.00500	1	05/05/2017 17:29	WG975068
Calcium	412	V	0.0460	1.00	1	05/02/2017 02:42	WG975077
Chromium	U		0.000540	0.00200	1	05/02/2017 02:42	WG975077
Chromium,Dissolved	U		0.000540	0.00200	1	05/05/2017 17:29	WG975068
Iron	0.0276	J	0.0150	0.100	1	05/02/2017 02:42	WG975077
Iron,Dissolved	U		0.0150	0.100	1	05/05/2017 17:29	WG975068
Lead	U		0.000240	0.00200	1	05/02/2017 02:42	WG975077
Lead,Dissolved	U		0.000240	0.00200	1	05/05/2017 17:29	WG975068
Manganese	0.436	V	0.000250	0.00500	1	05/02/2017 02:42	WG975077
Manganese,Dissolved	0.451	V	0.000250	0.00500	1	05/05/2017 17:29	WG975068
Potassium	0.745	J	0.0370	1.00	1	05/02/2017 02:42	WG975077
Selenium	U		0.000380	0.00200	1	05/02/2017 02:42	WG975077
Selenium,Dissolved	U		0.000380	0.00200	1	05/05/2017 17:29	WG975068
Sodium	178	V	0.110	1.00	1	05/02/2017 02:42	WG975077

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	05/01/2017 02:39	WG975303
(S) a,a,a-Trifluorotoluene(FID)	*99.8*			*77.0-122*		*05/01/2017 02:39*	WG975303

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		0.0100	0.0500	1	05/02/2017 01:10	WG975624
Benzene	0.000616	J	0.000331	0.00100	1	05/02/2017 01:10	WG975624
Bromodichloromethane	U		0.000380	0.00100	1	05/02/2017 01:10	WG975624
Bromoform	U		0.000469	0.00100	1	05/02/2017 01:10	WG975624
Bromomethane	U	J4	0.000866	0.00500	1	05/02/2017 01:10	WG975624
n-Butylbenzene	U		0.000361	0.00100	1	05/02/2017 01:10	WG975624

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		0.000365	0.00100	1	05/02/2017 01:10	WG975624
Carbon disulfide	U		0.000275	0.00100	1	05/02/2017 01:10	WG975624
Carbon tetrachloride	U		0.000379	0.00100	1	05/02/2017 01:10	WG975624
Chlorobenzene	U		0.000348	0.00100	1	05/02/2017 01:10	WG975624
Chlorodibromomethane	U		0.000327	0.00100	1	05/02/2017 01:10	WG975624
Chloroethane	U		0.000453	0.00500	1	05/02/2017 01:10	WG975624
Chloroform	U		0.000324	0.00500	1	05/02/2017 01:10	WG975624
Chloromethane	U		0.000276	0.00250	1	05/02/2017 01:10	WG975624
1,2-Dibromoethane	U		0.000381	0.00100	1	05/02/2017 01:10	WG975624
1,1-Dichloroethane	U		0.000259	0.00100	1	05/02/2017 01:10	WG975624
1,2-Dichloroethane	U		0.000361	0.00100	1	05/02/2017 01:10	WG975624
1,1-Dichloroethene	U		0.000398	0.00100	1	05/02/2017 01:10	WG975624
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	05/02/2017 01:10	WG975624
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	05/02/2017 01:10	WG975624
1,2-Dichloropropane	U		0.000306	0.00100	1	05/02/2017 01:10	WG975624
cis-1,3-Dichloropropene	U		0.000418	0.00100	1	05/02/2017 01:10	WG975624
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	05/02/2017 01:10	WG975624
Ethylbenzene	U		0.000384	0.00100	1	05/02/2017 01:10	WG975624
Isopropylbenzene	U		0.000326	0.00100	1	05/02/2017 01:10	WG975624
p-Isopropyltoluene	0.00281		0.000350	0.00100	1	05/02/2017 01:10	WG975624
2-Butanone (MEK)	U		0.00393	0.0100	1	05/02/2017 01:10	WG975624
2-Hexanone	U		0.00382	0.0100	1	05/02/2017 01:10	WG975624
Methylene Chloride	U		0.00100	0.00500	1	05/02/2017 01:10	WG975624
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	05/02/2017 01:10	WG975624
Methyl tert-butyl ether	U		0.000367	0.00100	1	05/02/2017 01:10	WG975624
Naphthalene	U		0.00100	0.00500	1	05/02/2017 01:10	WG975624
n-Propylbenzene	U		0.000349	0.00100	1	05/02/2017 01:10	WG975624
Styrene	U		0.000307	0.00100	1	05/02/2017 01:10	WG975624
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	05/02/2017 01:10	WG975624
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	05/02/2017 01:10	WG975624
Tetrachloroethene	U		0.000372	0.00100	1	05/02/2017 01:10	WG975624
Toluene	U		0.000412	0.00100	1	05/02/2017 01:10	WG975624
1,1,1-Trichloroethane	U		0.000319	0.00100	1	05/02/2017 01:10	WG975624
1,1,2-Trichloroethane	U		0.000383	0.00100	1	05/02/2017 01:10	WG975624
Trichloroethene	U		0.000398	0.00100	1	05/02/2017 01:10	WG975624
1,2,4-Trimethylbenzene	U		0.000373	0.00100	1	05/02/2017 01:10	WG975624
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	05/02/2017 01:10	WG975624
Vinyl chloride	U		0.000259	0.00100	1	05/02/2017 01:10	WG975624
o-Xylene	U		0.000341	0.00100	1	05/02/2017 01:10	WG975624
m&p-Xylene	U		0.000719	0.00200	1	05/02/2017 01:10	WG975624
Xylenes, Total	U		0.00106	0.00300	1	05/02/2017 01:10	WG975624
(S) Toluene-d8	*104*			*80.0-120*		*05/02/2017 01:10*	WG975624
(S) Dibromofluoromethane	*107*			*76.0-123*		*05/02/2017 01:10*	WG975624
(S) 4-Bromofluorobenzene	*96.8*			*80.0-120*		*05/02/2017 01:10*	WG975624

Semi-Volatile Organic Compounds (GC) by 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	05/03/2017 01:27	WG975551
(S) o-Terphenyl	*77.2*			*31.0-160*		*05/03/2017 01:27*	WG975551

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Dissolved Solids	5030		2.82	10.0	1	05/02/2017 16:52	WG975508

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	2.20		0.197	1.00	10	05/04/2017 14:07	WG975897

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	291		2.60	50.0	50	05/03/2017 21:56	WG975912
Fluoride	4.90		0.00990	0.100	1	05/03/2017 21:41	WG975912
Sulfate	2740		3.87	250	50	05/03/2017 21:56	WG975912

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.0129		0.000250	0.00200	1	05/02/2017 04:06	WG975077
Arsenic,Dissolved	0.0133		0.000250	0.00200	1	05/05/2017 18:56	WG975068
Barium	0.0126		0.000360	0.00500	1	05/02/2017 04:06	WG975077
Barium,Dissolved	0.0126		0.000360	0.00500	1	05/05/2017 18:56	WG975068
Calcium	499		0.0460	1.00	1	05/02/2017 04:06	WG975077
Chromium	0.00108	J	0.000540	0.00200	1	05/02/2017 04:06	WG975077
Chromium,Dissolved	0.000989	J	0.000540	0.00200	1	05/05/2017 18:56	WG975068
Iron	0.0227	J	0.0150	0.100	1	05/02/2017 04:06	WG975077
Iron,Dissolved	U		0.0150	0.100	1	05/05/2017 18:56	WG975068
Lead	0.00125	J	0.000240	0.00200	1	05/02/2017 04:06	WG975077
Lead,Dissolved	U		0.000240	0.00200	1	05/04/2017 01:17	WG975068
Manganese	0.263		0.000250	0.00500	1	05/02/2017 04:06	WG975077
Manganese,Dissolved	0.264		0.000250	0.00500	1	05/05/2017 18:56	WG975068
Potassium	0.832	J	0.0370	1.00	1	05/02/2017 04:06	WG975077
Selenium	0.00658		0.000380	0.00200	1	05/02/2017 04:06	WG975077
Selenium,Dissolved	0.00535		0.000380	0.00200	1	05/05/2017 18:56	WG975068
Sodium	372		0.110	1.00	1	05/02/2017 04:06	WG975077

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		0.0100	0.0500	1	05/02/2017 01:32	WG975624
Benzene	U		0.000331	0.00100	1	05/02/2017 01:32	WG975624
Bromodichloromethane	U		0.000380	0.00100	1	05/02/2017 01:32	WG975624
Bromoform	U		0.000469	0.00100	1	05/02/2017 01:32	WG975624
Bromomethane	U	J4	0.000866	0.00500	1	05/02/2017 01:32	WG975624
n-Butylbenzene	U		0.000361	0.00100	1	05/02/2017 01:32	WG975624
sec-Butylbenzene	U		0.000365	0.00100	1	05/02/2017 01:32	WG975624
Carbon disulfide	U		0.000275	0.00100	1	05/02/2017 01:32	WG975624
Carbon tetrachloride	U		0.000379	0.00100	1	05/02/2017 01:32	WG975624
Chlorobenzene	U		0.000348	0.00100	1	05/02/2017 01:32	WG975624
Chlorodibromomethane	U		0.000327	0.00100	1	05/02/2017 01:32	WG975624
Chloroethane	U		0.000453	0.00500	1	05/02/2017 01:32	WG975624
Chloroform	U		0.000324	0.00500	1	05/02/2017 01:32	WG975624
Chloromethane	U		0.000276	0.00250	1	05/02/2017 01:32	WG975624
1,2-Dibromoethane	U		0.000381	0.00100	1	05/02/2017 01:32	WG975624
1,1-Dichloroethane	U		0.000259	0.00100	1	05/02/2017 01:32	WG975624

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
1,2-Dichloroethane	U		0.000361	0.00100	1	05/02/2017 01:32	WG975624
1,1-Dichloroethene	U		0.000398	0.00100	1	05/02/2017 01:32	WG975624
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	05/02/2017 01:32	WG975624
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	05/02/2017 01:32	WG975624
1,2-Dichloropropane	U		0.000306	0.00100	1	05/02/2017 01:32	WG975624
cis-1,3-Dichloropropene	U		0.000418	0.00100	1	05/02/2017 01:32	WG975624
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	05/02/2017 01:32	WG975624
Ethylbenzene	U		0.000384	0.00100	1	05/02/2017 01:32	WG975624
Isopropylbenzene	U		0.000326	0.00100	1	05/02/2017 01:32	WG975624
p-Isopropyltoluene	U		0.000350	0.00100	1	05/02/2017 01:32	WG975624
2-Butanone (MEK)	U		0.00393	0.0100	1	05/02/2017 01:32	WG975624
2-Hexanone	U		0.00382	0.0100	1	05/02/2017 01:32	WG975624
Methylene Chloride	U		0.00100	0.00500	1	05/02/2017 01:32	WG975624
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	05/02/2017 01:32	WG975624
Methyl tert-butyl ether	0.0152		0.000367	0.00100	1	05/02/2017 01:32	WG975624
Naphthalene	U		0.00100	0.00500	1	05/02/2017 01:32	WG975624
n-Propylbenzene	U		0.000349	0.00100	1	05/02/2017 01:32	WG975624
Styrene	U		0.000307	0.00100	1	05/02/2017 01:32	WG975624
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	05/02/2017 01:32	WG975624
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	05/02/2017 01:32	WG975624
Tetrachloroethene	U		0.000372	0.00100	1	05/02/2017 01:32	WG975624
Toluene	U		0.000412	0.00100	1	05/02/2017 01:32	WG975624
1,1,1-Trichloroethane	U		0.000319	0.00100	1	05/02/2017 01:32	WG975624
1,1,2-Trichloroethane	U		0.000383	0.00100	1	05/02/2017 01:32	WG975624
Trichloroethene	U		0.000398	0.00100	1	05/02/2017 01:32	WG975624
1,2,4-Trimethylbenzene	U		0.000373	0.00100	1	05/02/2017 01:32	WG975624
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	05/02/2017 01:32	WG975624
Vinyl chloride	U		0.000259	0.00100	1	05/02/2017 01:32	WG975624
o-Xylene	U		0.000341	0.00100	1	05/02/2017 01:32	WG975624
m&p-Xylene	U		0.000719	0.00200	1	05/02/2017 01:32	WG975624
Xylenes, Total	U		0.00106	0.00300	1	05/02/2017 01:32	WG975624
(S) Toluene-d8	*104*			*80.0-120*		*05/02/2017 01:32*	WG975624
(S) Dibromofluoromethane	*110*			*76.0-123*		*05/02/2017 01:32*	WG975624
(S) 4-Bromofluorobenzene	*96.1*			*80.0-120*		*05/02/2017 01:32*	WG975624

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	1.08		0.0247	0.100	1	05/03/2017 01:44	WG975551
(S) o-Terphenyl	*73.3*			*31.0-160*		*05/03/2017 01:44*	WG975551

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Dissolved Solids	2660		2.82	10.0	1	05/02/2017 16:52	WG975508

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	U		0.197	1.00	10	05/04/2017 14:08	WG975897

Sample Narrative:

353.2 L905668-40 WG975897: 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	196		2.60	50.0	50	05/03/2017 22:27	WG975912
Fluoride	0.874		0.00990	0.100	1	05/03/2017 22:11	WG975912
Sulfate	85.7		0.0774	5.00	1	05/05/2017 14:16	WG976618

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.0170		0.000250	0.00200	1	05/02/2017 04:09	WG975077
Arsenic,Dissolved	0.0106		0.000250	0.00200	1	05/05/2017 19:00	WG975068
Barium	0.873		0.000360	0.00500	1	05/02/2017 04:09	WG975077
Barium,Dissolved	0.771		0.000360	0.00500	1	05/05/2017 19:00	WG975068
Calcium	95.6		0.0460	1.00	1	05/02/2017 04:09	WG975077
Chromium	0.00141	J	0.000540	0.00200	1	05/02/2017 04:09	WG975077
Chromium,Dissolved	0.00124	J	0.000540	0.00200	1	05/05/2017 19:00	WG975068
Iron	0.134		0.0150	0.100	1	05/02/2017 04:09	WG975077
Iron,Dissolved	U		0.0150	0.100	1	05/05/2017 19:00	WG975068
Lead	0.000298	J	0.000240	0.00200	1	05/02/2017 04:09	WG975077
Lead,Dissolved	0.000343	J	0.000240	0.00200	1	05/04/2017 01:21	WG975068
Manganese	0.00382	J	0.000250	0.00500	1	05/02/2017 04:09	WG975077
Manganese,Dissolved	0.00235	J	0.000250	0.00500	1	05/05/2017 19:00	WG975068
Potassium	0.331	J	0.0370	1.00	1	05/02/2017 04:09	WG975077
Selenium	0.00304		0.000380	0.00200	1	05/02/2017 04:09	WG975077
Selenium,Dissolved	0.00973		0.000380	0.00200	1	05/05/2017 19:00	WG975068
Sodium	427		0.110	1.00	1	05/02/2017 04:09	WG975077

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	10.2		0.0314	0.100	1	05/08/2017 01:57	WG975303
(S) a,a,a-Trifluorotoluene(FID)	*94.7*			*77.0-122*		*05/08/2017 01:57*	WG975303

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		0.250	1.25	25	05/03/2017 21:00	WG975624
Benzene	0.284		0.00828	0.0250	25	05/03/2017 21:00	WG975624
Bromodichloromethane	U		0.00950	0.0250	25	05/03/2017 21:00	WG975624
Bromoform	U		0.0117	0.0250	25	05/03/2017 21:00	WG975624
Bromomethane	U	J4	0.0216	0.125	25	05/03/2017 21:00	WG975624
n-Butylbenzene	0.0553		0.00902	0.0250	25	05/03/2017 21:00	WG975624

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	0.0317		0.00912	0.0250	25	05/03/2017 21:00	WG975624
Carbon disulfide	0.0101	J	0.00688	0.0250	25	05/03/2017 21:00	WG975624
Carbon tetrachloride	U		0.00948	0.0250	25	05/03/2017 21:00	WG975624
Chlorobenzene	U		0.00870	0.0250	25	05/03/2017 21:00	WG975624
Chlorodibromomethane	U		0.00818	0.0250	25	05/03/2017 21:00	WG975624
Chloroethane	U		0.0113	0.125	25	05/03/2017 21:00	WG975624
Chloroform	U		0.00810	0.125	25	05/03/2017 21:00	WG975624
Chloromethane	U		0.00690	0.0625	25	05/03/2017 21:00	WG975624
1,2-Dibromoethane	U		0.00952	0.0250	25	05/03/2017 21:00	WG975624
1,1-Dichloroethane	U		0.00648	0.0250	25	05/03/2017 21:00	WG975624
1,2-Dichloroethane	U		0.00902	0.0250	25	05/03/2017 21:00	WG975624
1,1-Dichloroethene	U		0.00995	0.0250	25	05/03/2017 21:00	WG975624
cis-1,2-Dichloroethene	U		0.00650	0.0250	25	05/03/2017 21:00	WG975624
trans-1,2-Dichloroethene	U		0.00990	0.0250	25	05/03/2017 21:00	WG975624
1,2-Dichloropropane	U		0.00765	0.0250	25	05/03/2017 21:00	WG975624
cis-1,3-Dichloropropene	U		0.0104	0.0250	25	05/03/2017 21:00	WG975624
trans-1,3-Dichloropropene	U		0.0105	0.0250	25	05/03/2017 21:00	WG975624
Ethylbenzene	0.432		0.00960	0.0250	25	05/03/2017 21:00	WG975624
Isopropylbenzene	0.0621		0.00815	0.0250	25	05/03/2017 21:00	WG975624
p-Isopropyltoluene	0.0477		0.00875	0.0250	25	05/03/2017 21:00	WG975624
2-Butanone (MEK)	U		0.0982	0.250	25	05/03/2017 21:00	WG975624
2-Hexanone	U		0.0955	0.250	25	05/03/2017 21:00	WG975624
Methylene Chloride	U		0.0250	0.125	25	05/03/2017 21:00	WG975624
4-Methyl-2-pentanone (MIBK)	U		0.0535	0.250	25	05/03/2017 21:00	WG975624
Methyl tert-butyl ether	0.958		0.00918	0.0250	25	05/03/2017 21:00	WG975624
Naphthalene	0.174		0.0250	0.125	25	05/03/2017 21:00	WG975624
n-Propylbenzene	0.0909		0.00872	0.0250	25	05/03/2017 21:00	WG975624
Styrene	U		0.00768	0.0250	25	05/03/2017 21:00	WG975624
1,1,1,2-Tetrachloroethane	U		0.00962	0.0250	25	05/03/2017 21:00	WG975624
1,1,2,2-Tetrachloroethane	U		0.00325	0.0250	25	05/03/2017 21:00	WG975624
Tetrachloroethene	U		0.00930	0.0250	25	05/03/2017 21:00	WG975624
Toluene	0.435		0.0103	0.0250	25	05/03/2017 21:00	WG975624
1,1,1-Trichloroethane	U		0.00798	0.0250	25	05/03/2017 21:00	WG975624
1,1,2-Trichloroethane	U		0.00958	0.0250	25	05/03/2017 21:00	WG975624
Trichloroethene	U		0.00995	0.0250	25	05/03/2017 21:00	WG975624
1,2,4-Trimethylbenzene	0.398		0.00932	0.0250	25	05/03/2017 21:00	WG975624
1,3,5-Trimethylbenzene	0.0785		0.00968	0.0250	25	05/03/2017 21:00	WG975624
Vinyl chloride	U		0.00648	0.0250	25	05/03/2017 21:00	WG975624
o-Xylene	0.292		0.00852	0.0250	25	05/03/2017 21:00	WG975624
m&p-Xylene	0.168		0.0180	0.0500	25	05/03/2017 21:00	WG975624
Xylenes, Total	0.460		0.0265	0.0750	25	05/03/2017 21:00	WG975624
(S) Toluene-d8	*103*			*80.0-120*		*05/03/2017 21:00*	WG975624
(S) Dibromofluoromethane	*101*			*76.0-123*		*05/03/2017 21:00*	WG975624
(S) 4-Bromofluorobenzene	*100*			*80.0-120*		*05/03/2017 21:00*	WG975624

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	9.96		0.124	0.500	5	05/04/2017 16:37	WG975551
(S) o-Terphenyl	*101*			*31.0-160*		*05/04/2017 16:37*	WG975551

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Dissolved Solids	2010		2.82	10.0	1	05/02/2017 16:52	WG975508

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	U		0.197	1.00	10	05/04/2017 14:09	WG975897

Sample Narrative:

353.2 L905668-41 WG975897: Dilution due to matrix

Wet Chemistry by Method 4500CN E-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Cyanide	U		0.0900	0.250	50	05/02/2017 11:06	WG975005

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	393		2.60	50.0	50	05/04/2017 01:47	WG975912
Fluoride	0.570		0.00990	0.100	1	05/04/2017 01:32	WG975912
Sulfate	275		3.87	250	50	05/04/2017 01:47	WG975912

Mercury by Method 7470A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Mercury	U		0.0000490	0.000200	1	05/02/2017 16:58	WG974957
Mercury,Dissolved	U		0.0000490	0.000200	1	05/02/2017 14:53	WG974958

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.0147		0.000250	0.00200	1	05/02/2017 04:13	WG975077
Arsenic,Dissolved	0.0163		0.000250	0.00200	1	05/05/2017 19:03	WG975068
Barium	0.137		0.000360	0.00500	1	05/02/2017 04:13	WG975077
Barium,Dissolved	0.118		0.000360	0.00500	1	05/05/2017 19:03	WG975068
Boron	0.435		0.00150	0.0200	1	05/02/2017 13:14	WG975077
Boron,Dissolved	0.436		0.00150	0.0200	1	05/03/2017 23:46	WG975068
Cadmium	U		0.000160	0.00100	1	05/02/2017 04:13	WG975077
Cadmium,Dissolved	U		0.000160	0.00100	1	05/05/2017 19:03	WG975068
Calcium	199		0.0460	1.00	1	05/02/2017 04:13	WG975077
Chromium	0.000612	J	0.000540	0.00200	1	05/02/2017 04:13	WG975077
Chromium,Dissolved	0.000587	J	0.000540	0.00200	1	05/05/2017 19:03	WG975068
Cobalt	U		0.000260	0.00200	1	05/02/2017 04:13	WG975077
Cobalt,Dissolved	U		0.000260	0.00200	1	05/05/2017 19:03	WG975068
Iron	0.0312	J	0.0150	0.100	1	05/02/2017 04:13	WG975077
Iron,Dissolved	U		0.0150	0.100	1	05/05/2017 19:03	WG975068
Lead	0.00155	J	0.000240	0.00200	1	05/02/2017 04:13	WG975077
Lead,Dissolved	0.000542	J	0.000240	0.00200	1	05/03/2017 23:46	WG975068
Manganese	0.0878		0.000250	0.00500	1	05/02/2017 04:13	WG975077
Manganese,Dissolved	0.0910		0.000250	0.00500	1	05/05/2017 19:03	WG975068
Nickel	0.000780	J	0.000350	0.00200	1	05/02/2017 04:13	WG975077
Nickel,Dissolved	0.00158	J	0.000350	0.00200	1	05/05/2017 19:03	WG975068
Potassium	0.565	J	0.0370	1.00	1	05/02/2017 04:13	WG975077

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Selenium	0.00230		0.000380	0.00200	1	05/02/2017 04:13	WG975077
Selenium,Dissolved	0.00205		0.000380	0.00200	1	05/05/2017 19:03	WG975068
Sodium	229		0.110	1.00	1	05/02/2017 04:13	WG975077
Uranium	U		0.000330	0.0100	1	05/02/2017 04:13	WG975077
Uranium,Dissolved	U		0.000330	0.0100	1	05/03/2017 23:46	WG975068
Vanadium	0.00124	B J	0.000180	0.00500	1	05/02/2017 04:13	WG975077
Vanadium,Dissolved	0.000929	B J	0.000180	0.00500	1	05/05/2017 19:03	WG975068

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	1.77		0.0314	0.100	1	05/09/2017 07:15	WG975304
(S) a,a,a-Trifluorotoluene(FID)	*97.1*			*77.0-122*		*05/09/2017 07:15*	WG975304

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

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0500	0.250	5	05/03/2017 19:04	WG975625
Benzene	0.191		0.00166	0.00500	5	05/03/2017 19:04	WG975625
Bromodichloromethane	U		0.00190	0.00500	5	05/03/2017 19:04	WG975625
Bromoform	U		0.00234	0.00500	5	05/03/2017 19:04	WG975625
Bromomethane	U		0.00433	0.0250	5	05/03/2017 19:04	WG975625
n-Butylbenzene	0.00516		0.00180	0.00500	5	05/03/2017 19:04	WG975625
sec-Butylbenzene	0.00859		0.00182	0.00500	5	05/03/2017 19:04	WG975625
Carbon disulfide	0.00144	J	0.00138	0.00500	5	05/03/2017 19:04	WG975625
Carbon tetrachloride	U		0.00190	0.00500	5	05/03/2017 19:04	WG975625
Chlorobenzene	U		0.00174	0.00500	5	05/03/2017 19:04	WG975625
Chlorodibromomethane	U		0.00164	0.00500	5	05/03/2017 19:04	WG975625
Chloroethane	U		0.00226	0.0250	5	05/03/2017 19:04	WG975625
Chloroform	U		0.00162	0.0250	5	05/03/2017 19:04	WG975625
Chloromethane	U		0.00138	0.0125	5	05/03/2017 19:04	WG975625
1,2-Dibromoethane	U		0.00190	0.00500	5	05/03/2017 19:04	WG975625
1,1-Dichloroethane	U		0.00130	0.00500	5	05/03/2017 19:04	WG975625
1,2-Dichloroethane	U		0.00180	0.00500	5	05/03/2017 19:04	WG975625
1,1-Dichloroethene	U		0.00199	0.00500	5	05/03/2017 19:04	WG975625
cis-1,2-Dichloroethene	0.00265	J	0.00130	0.00500	5	05/03/2017 19:04	WG975625
trans-1,2-Dichloroethene	U		0.00198	0.00500	5	05/03/2017 19:04	WG975625
1,2-Dichloropropane	U		0.00153	0.00500	5	05/03/2017 19:04	WG975625
cis-1,3-Dichloropropene	U		0.00209	0.00500	5	05/03/2017 19:04	WG975625
trans-1,3-Dichloropropene	U		0.00210	0.00500	5	05/03/2017 19:04	WG975625
Ethylbenzene	0.0128		0.00192	0.00500	5	05/03/2017 19:04	WG975625
Isopropylbenzene	0.0361		0.00163	0.00500	5	05/03/2017 19:04	WG975625
p-Isopropyltoluene	0.00186	J	0.00175	0.00500	5	05/03/2017 19:04	WG975625
2-Butanone (MEK)	U		0.0196	0.0500	5	05/03/2017 19:04	WG975625
2-Hexanone	U		0.0191	0.0500	5	05/03/2017 19:04	WG975625
Methylene Chloride	U		0.00500	0.0250	5	05/03/2017 19:04	WG975625
4-Methyl-2-pentanone (MIBK)	U		0.0107	0.0500	5	05/03/2017 19:04	WG975625
Methyl tert-butyl ether	0.195		0.00184	0.00500	5	05/03/2017 19:04	WG975625
Naphthalene	0.00571	J	0.00500	0.0250	5	05/03/2017 19:04	WG975625
n-Propylbenzene	0.0225		0.00174	0.00500	5	05/03/2017 19:04	WG975625
Styrene	U		0.00154	0.00500	5	05/03/2017 19:04	WG975625
1,1,1,2-Tetrachloroethane	U		0.00192	0.00500	5	05/03/2017 19:04	WG975625
1,1,2,2-Tetrachloroethane	U		0.000650	0.00500	5	05/03/2017 19:04	WG975625
Tetrachloroethene	U		0.00186	0.00500	5	05/03/2017 19:04	WG975625
Toluene	0.00361	J	0.00206	0.00500	5	05/03/2017 19:04	WG975625

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-Trichloroethane	U		0.00160	0.00500	5	05/03/2017 19:04	WG975625
1,1,2-Trichloroethane	U		0.00192	0.00500	5	05/03/2017 19:04	WG975625
Trichloroethene	U		0.00199	0.00500	5	05/03/2017 19:04	WG975625
1,2,4-Trimethylbenzene	0.00498	J	0.00186	0.00500	5	05/03/2017 19:04	WG975625
1,3,5-Trimethylbenzene	U		0.00194	0.00500	5	05/03/2017 19:04	WG975625
Vinyl chloride	U		0.00130	0.00500	5	05/03/2017 19:04	WG975625
o-Xylene	U		0.00170	0.00500	5	05/03/2017 19:04	WG975625
m&p-Xylene	0.0121		0.00360	0.0100	5	05/03/2017 19:04	WG975625
Xylenes, Total	0.0121	J	0.00530	0.0150	5	05/03/2017 19:04	WG975625
(S) Toluene-d8	*104*			*80.0-120*		*05/03/2017 19:04*	WG975625
(S) Dibromofluoromethane	*100*			*76.0-123*		*05/03/2017 19:04*	WG975625
(S) 4-Bromofluorobenzene	*98.8*			*80.0-120*		*05/03/2017 19:04*	WG975625

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	9.40		0.124	0.500	5	05/04/2017 16:03	WG975551
(S) o-Terphenyl	*71.0*			*31.0-160*		*05/04/2017 16:03*	WG975551

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	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Dissolved Solids	1710		2.82	10.0	1	05/02/2017 16:52	WG975508

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	U		0.197	1.00	10	05/04/2017 14:14	WG975897

Sample Narrative:

353.2 L905668-42 WG975897: 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	349		2.60	50.0	50	05/03/2017 22:58	WG975912
Fluoride	0.868		0.00990	0.100	1	05/03/2017 22:42	WG975912
Sulfate	420		3.87	250	50	05/03/2017 22:58	WG975912

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.00173	J	0.000250	0.00200	1	05/04/2017 10:54	WG975078
Arsenic,Dissolved	0.00162	J	0.000250	0.00200	1	05/05/2017 19:07	WG975068
Barium	0.0612		0.000360	0.00500	1	05/04/2017 10:54	WG975078
Barium,Dissolved	0.0592		0.000360	0.00500	1	05/05/2017 19:07	WG975068
Calcium	203	V	0.0460	1.00	1	05/04/2017 10:54	WG975078
Chromium	U		0.000540	0.00200	1	05/04/2017 10:54	WG975078
Chromium,Dissolved	U		0.000540	0.00200	1	05/05/2017 19:07	WG975068
Iron	U		0.0150	0.100	1	05/04/2017 10:54	WG975078
Iron,Dissolved	U		0.0150	0.100	1	05/05/2017 19:07	WG975068
Lead	U		0.000240	0.00200	1	05/04/2017 10:54	WG975078
Lead,Dissolved	0.000323	J	0.000240	0.00200	1	05/04/2017 11:28	WG975068
Manganese	0.0330		0.000250	0.00500	1	05/04/2017 10:54	WG975078
Manganese,Dissolved	0.0285		0.000250	0.00500	1	05/05/2017 19:07	WG975068
Potassium	0.730	J	0.0370	1.00	1	05/04/2017 10:54	WG975078
Selenium	0.000407	J	0.000380	0.00200	1	05/04/2017 10:54	WG975078
Selenium,Dissolved	0.00164	J	0.000380	0.00200	1	05/05/2017 19:07	WG975068
Sodium	194	V	0.110	1.00	1	05/04/2017 10:54	WG975078

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	0.0826	J	0.0314	0.100	1	04/30/2017 22:13	WG975304
(S) a,a,a-Trifluorotoluene(FID)	*97.6*			*77.0-122*		*04/30/2017 22:13*	WG975304

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		0.0100	0.0500	1	05/02/2017 04:49	WG975625
Benzene	U		0.000331	0.00100	1	05/02/2017 04:49	WG975625
Bromodichloromethane	U		0.000380	0.00100	1	05/02/2017 04:49	WG975625
Bromoform	U		0.000469	0.00100	1	05/02/2017 04:49	WG975625
Bromomethane	U		0.000866	0.00500	1	05/02/2017 04:49	WG975625
n-Butylbenzene	U		0.000361	0.00100	1	05/02/2017 04:49	WG975625

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	0.00240		0.000365	0.00100	1	05/02/2017 04:49	WG975625
Carbon disulfide	U		0.000275	0.00100	1	05/02/2017 04:49	WG975625
Carbon tetrachloride	U		0.000379	0.00100	1	05/02/2017 04:49	WG975625
Chlorobenzene	U		0.000348	0.00100	1	05/02/2017 04:49	WG975625
Chlorodibromomethane	U		0.000327	0.00100	1	05/02/2017 04:49	WG975625
Chloroethane	U		0.000453	0.00500	1	05/02/2017 04:49	WG975625
Chloroform	U		0.000324	0.00500	1	05/02/2017 04:49	WG975625
Chloromethane	U		0.000276	0.00250	1	05/02/2017 04:49	WG975625
1,2-Dibromoethane	U		0.000381	0.00100	1	05/02/2017 04:49	WG975625
1,1-Dichloroethane	U		0.000259	0.00100	1	05/02/2017 04:49	WG975625
1,2-Dichloroethane	U		0.000361	0.00100	1	05/02/2017 04:49	WG975625
1,1-Dichloroethene	U		0.000398	0.00100	1	05/02/2017 04:49	WG975625
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	05/02/2017 04:49	WG975625
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	05/02/2017 04:49	WG975625
1,2-Dichloropropane	U		0.000306	0.00100	1	05/02/2017 04:49	WG975625
cis-1,3-Dichloropropene	U		0.000418	0.00100	1	05/02/2017 04:49	WG975625
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	05/02/2017 04:49	WG975625
Ethylbenzene	U		0.000384	0.00100	1	05/02/2017 04:49	WG975625
Isopropylbenzene	0.0114		0.000326	0.00100	1	05/02/2017 04:49	WG975625
p-Isopropyltoluene	U		0.000350	0.00100	1	05/02/2017 04:49	WG975625
2-Butanone (MEK)	U		0.00393	0.0100	1	05/02/2017 04:49	WG975625
2-Hexanone	U		0.00382	0.0100	1	05/02/2017 04:49	WG975625
Methylene Chloride	U		0.00100	0.00500	1	05/02/2017 04:49	WG975625
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	05/02/2017 04:49	WG975625
Methyl tert-butyl ether	U		0.000367	0.00100	1	05/02/2017 04:49	WG975625
Naphthalene	U		0.00100	0.00500	1	05/02/2017 04:49	WG975625
n-Propylbenzene	U		0.000349	0.00100	1	05/02/2017 04:49	WG975625
Styrene	U		0.000307	0.00100	1	05/02/2017 04:49	WG975625
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	05/02/2017 04:49	WG975625
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	05/02/2017 04:49	WG975625
Tetrachloroethene	U		0.000372	0.00100	1	05/02/2017 04:49	WG975625
Toluene	U		0.000412	0.00100	1	05/02/2017 04:49	WG975625
1,1,1-Trichloroethane	U		0.000319	0.00100	1	05/02/2017 04:49	WG975625
1,1,2-Trichloroethane	U		0.000383	0.00100	1	05/02/2017 04:49	WG975625
Trichloroethene	U		0.000398	0.00100	1	05/02/2017 04:49	WG975625
1,2,4-Trimethylbenzene	U		0.000373	0.00100	1	05/02/2017 04:49	WG975625
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	05/02/2017 04:49	WG975625
Vinyl chloride	U		0.000259	0.00100	1	05/02/2017 04:49	WG975625
o-Xylene	U		0.000341	0.00100	1	05/02/2017 04:49	WG975625
m&p-Xylene	U		0.000719	0.00200	1	05/02/2017 04:49	WG975625
Xylenes, Total	U		0.00106	0.00300	1	05/02/2017 04:49	WG975625
(S) Toluene-d8	*104*			*80.0-120*		*05/02/2017 04:49*	WG975625
(S) Dibromofluoromethane	*108*			*76.0-123*		*05/02/2017 04:49*	WG975625
(S) 4-Bromofluorobenzene	*95.4*			*80.0-120*		*05/02/2017 04:49*	WG975625

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	6.96		0.124	0.500	5	05/06/2017 02:24	WG975551
(S) o-Terphenyl	*79.0*			*31.0-160*		*05/06/2017 02:24*	WG975551

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Dissolved Solids	1740		2.82	10.0	1	05/02/2017 17:49	WG975509

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	U		0.197	1.00	10	05/04/2017 14:15	WG975897

Sample Narrative:

353.2 L905668-43 WG975897: 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		2.60	50.0	50	05/03/2017 23:44	WG975912
Fluoride	0.513		0.00990	0.100	1	05/03/2017 23:29	WG975912
Sulfate	693		3.87	250	50	05/03/2017 23:44	WG975912

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.00332		0.000250	0.00200	1	05/04/2017 11:08	WG975078
Arsenic,Dissolved	0.00273		0.000250	0.00200	1	05/05/2017 19:10	WG975068
Barium	0.0198		0.000360	0.00500	1	05/04/2017 11:08	WG975078
Barium,Dissolved	0.0191		0.000360	0.00500	1	05/05/2017 19:10	WG975068
Calcium	266		0.0460	1.00	1	05/04/2017 11:08	WG975078
Chromium	U		0.000540	0.00200	1	05/04/2017 11:08	WG975078
Chromium,Dissolved	U		0.000540	0.00200	1	05/05/2017 19:10	WG975068
Iron	0.183		0.0150	0.100	1	05/04/2017 11:08	WG975078
Iron,Dissolved	0.0228	J	0.0150	0.100	1	05/05/2017 19:10	WG975068
Lead	U		0.000240	0.00200	1	05/04/2017 11:08	WG975078
Lead,Dissolved	U		0.000240	0.00200	1	05/04/2017 01:28	WG975068
Manganese	1.13		0.000250	0.00500	1	05/04/2017 11:08	WG975078
Manganese,Dissolved	1.12		0.000250	0.00500	1	05/05/2017 19:10	WG975068
Potassium	0.922	J	0.0370	1.00	1	05/04/2017 11:08	WG975078
Selenium	U		0.000380	0.00200	1	05/04/2017 11:08	WG975078
Selenium,Dissolved	0.00142	J	0.000380	0.00200	1	05/05/2017 19:10	WG975068
Sodium	105		0.110	1.00	1	05/04/2017 11:08	WG975078

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
TPH (GC/FID) Low Fraction	U		0.0314	0.100	1	04/30/2017 22:35	WG975304
(S) a,a,a-Trifluorotoluene(FID)	*97.6*			*77.0-122*		*04/30/2017 22:35*	WG975304

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	0.0100	J	0.0100	0.0500	1	05/02/2017 05:11	WG975625
Benzene	U		0.000331	0.00100	1	05/02/2017 05:11	WG975625
Bromodichloromethane	U		0.000380	0.00100	1	05/02/2017 05:11	WG975625
Bromoform	U		0.000469	0.00100	1	05/02/2017 05:11	WG975625
Bromomethane	U		0.000866	0.00500	1	05/02/2017 05:11	WG975625
n-Butylbenzene	U		0.000361	0.00100	1	05/02/2017 05:11	WG975625

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		0.000365	0.00100	1	05/02/2017 05:11	WG975625
Carbon disulfide	U		0.000275	0.00100	1	05/02/2017 05:11	WG975625
Carbon tetrachloride	U		0.000379	0.00100	1	05/02/2017 05:11	WG975625
Chlorobenzene	U		0.000348	0.00100	1	05/02/2017 05:11	WG975625
Chlorodibromomethane	U		0.000327	0.00100	1	05/02/2017 05:11	WG975625
Chloroethane	U		0.000453	0.00500	1	05/02/2017 05:11	WG975625
Chloroform	U		0.000324	0.00500	1	05/02/2017 05:11	WG975625
Chloromethane	U		0.000276	0.00250	1	05/02/2017 05:11	WG975625
1,2-Dibromoethane	U		0.000381	0.00100	1	05/02/2017 05:11	WG975625
1,1-Dichloroethane	U		0.000259	0.00100	1	05/02/2017 05:11	WG975625
1,2-Dichloroethane	U		0.000361	0.00100	1	05/02/2017 05:11	WG975625
1,1-Dichloroethene	U		0.000398	0.00100	1	05/02/2017 05:11	WG975625
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	05/02/2017 05:11	WG975625
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	05/02/2017 05:11	WG975625
1,2-Dichloropropane	U		0.000306	0.00100	1	05/02/2017 05:11	WG975625
cis-1,3-Dichloropropene	U		0.000418	0.00100	1	05/02/2017 05:11	WG975625
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	05/02/2017 05:11	WG975625
Ethylbenzene	U		0.000384	0.00100	1	05/02/2017 05:11	WG975625
Isopropylbenzene	U		0.000326	0.00100	1	05/02/2017 05:11	WG975625
p-Isopropyltoluene	U		0.000350	0.00100	1	05/02/2017 05:11	WG975625
2-Butanone (MEK)	U		0.00393	0.0100	1	05/02/2017 05:11	WG975625
2-Hexanone	U		0.00382	0.0100	1	05/02/2017 05:11	WG975625
Methylene Chloride	U		0.00100	0.00500	1	05/02/2017 05:11	WG975625
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	05/02/2017 05:11	WG975625
Methyl tert-butyl ether	0.0325		0.000367	0.00100	1	05/02/2017 05:11	WG975625
Naphthalene	U		0.00100	0.00500	1	05/02/2017 05:11	WG975625
n-Propylbenzene	U		0.000349	0.00100	1	05/02/2017 05:11	WG975625
Styrene	U		0.000307	0.00100	1	05/02/2017 05:11	WG975625
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	05/02/2017 05:11	WG975625
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	05/02/2017 05:11	WG975625
Tetrachloroethene	U		0.000372	0.00100	1	05/02/2017 05:11	WG975625
Toluene	U		0.000412	0.00100	1	05/02/2017 05:11	WG975625
1,1,1-Trichloroethane	U		0.000319	0.00100	1	05/02/2017 05:11	WG975625
1,1,2-Trichloroethane	U		0.000383	0.00100	1	05/02/2017 05:11	WG975625
Trichloroethene	U		0.000398	0.00100	1	05/02/2017 05:11	WG975625
1,2,4-Trimethylbenzene	U		0.000373	0.00100	1	05/02/2017 05:11	WG975625
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	05/02/2017 05:11	WG975625
Vinyl chloride	U		0.000259	0.00100	1	05/02/2017 05:11	WG975625
o-Xylene	U		0.000341	0.00100	1	05/02/2017 05:11	WG975625
m&p-Xylene	U		0.000719	0.00200	1	05/02/2017 05:11	WG975625
Xylenes, Total	U		0.00106	0.00300	1	05/02/2017 05:11	WG975625
(S) Toluene-d8	*104*			*80.0-120*		*05/02/2017 05:11*	WG975625
(S) Dibromofluoromethane	*108*			*76.0-123*		*05/02/2017 05:11*	WG975625
(S) 4-Bromofluorobenzene	*94.3*			*80.0-120*		*05/02/2017 05:11*	WG975625

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	1.15		0.0247	0.100	1	05/03/2017 02:01	WG975551
(S) o-Terphenyl	*76.7*			*31.0-160*		*05/03/2017 02:01*	WG975551

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Dissolved Solids	4820		2.82	10.0	1	05/02/2017 17:49	WG975509

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	3.33		0.197	1.00	10	05/04/2017 14:17	WG975897

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	398		2.60	50.0	50	05/04/2017 00:46	WG975912
Fluoride	2.61		0.00990	0.100	1	05/04/2017 00:30	WG975912
Sulfate	2950		3.87	250	50	05/04/2017 00:46	WG975912

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.0113		0.000250	0.00200	1	05/04/2017 11:12	WG975078
Arsenic,Dissolved	0.0109		0.000250	0.00200	1	05/05/2017 19:13	WG975068
Barium	0.0223		0.000360	0.00500	1	05/04/2017 11:12	WG975078
Barium,Dissolved	0.0213		0.000360	0.00500	1	05/05/2017 19:13	WG975068
Calcium	568		0.0460	1.00	1	05/04/2017 11:12	WG975078
Chromium	0.000584	J	0.000540	0.00200	1	05/04/2017 11:12	WG975078
Chromium,Dissolved	U		0.000540	0.00200	1	05/05/2017 19:13	WG975068
Iron	0.0569	J	0.0150	0.100	1	05/04/2017 11:12	WG975078
Iron,Dissolved	U		0.0150	0.100	1	05/05/2017 19:13	WG975068
Lead	0.0106		0.000240	0.00200	1	05/04/2017 11:12	WG975078
Lead,Dissolved	0.00763		0.000240	0.00200	1	05/04/2017 01:31	WG975068
Manganese	0.719		0.000250	0.00500	1	05/04/2017 11:12	WG975078
Manganese,Dissolved	0.711		0.000250	0.00500	1	05/05/2017 19:13	WG975068
Potassium	4.02		0.0370	1.00	1	05/04/2017 11:12	WG975078
Selenium	0.0106		0.000380	0.00200	1	05/04/2017 11:12	WG975078
Selenium,Dissolved	0.00945		0.000380	0.00200	1	05/05/2017 19:13	WG975068
Sodium	306		0.110	1.00	1	05/04/2017 11:12	WG975078

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	0.0622	J	0.0314	0.100	1	04/30/2017 22:57	WG975304
(S) a,a,a-Trifluorotoluene(FID)	*96.9*			*77.0-122*		*04/30/2017 22:57*	WG975304

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		0.0100	0.0500	1	05/02/2017 05:33	WG975625
Benzene	U		0.000331	0.00100	1	05/02/2017 05:33	WG975625
Bromodichloromethane	U		0.000380	0.00100	1	05/02/2017 05:33	WG975625
Bromoform	U		0.000469	0.00100	1	05/02/2017 05:33	WG975625
Bromomethane	U		0.000866	0.00500	1	05/02/2017 05:33	WG975625
n-Butylbenzene	U		0.000361	0.00100	1	05/02/2017 05:33	WG975625
sec-Butylbenzene	U		0.000365	0.00100	1	05/02/2017 05:33	WG975625
Carbon disulfide	U		0.000275	0.00100	1	05/02/2017 05:33	WG975625
Carbon tetrachloride	U		0.000379	0.00100	1	05/02/2017 05:33	WG975625

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chlorobenzene	U		0.000348	0.00100	1	05/02/2017 05:33	WG975625
Chlorodibromomethane	U		0.000327	0.00100	1	05/02/2017 05:33	WG975625
Chloroethane	U		0.000453	0.00500	1	05/02/2017 05:33	WG975625
Chloroform	U		0.000324	0.00500	1	05/02/2017 05:33	WG975625
Chloromethane	U		0.000276	0.00250	1	05/02/2017 05:33	WG975625
1,2-Dibromoethane	U		0.000381	0.00100	1	05/02/2017 05:33	WG975625
1,1-Dichloroethane	U		0.000259	0.00100	1	05/02/2017 05:33	WG975625
1,2-Dichloroethane	U		0.000361	0.00100	1	05/02/2017 05:33	WG975625
1,1-Dichloroethene	U		0.000398	0.00100	1	05/02/2017 05:33	WG975625
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	05/02/2017 05:33	WG975625
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	05/02/2017 05:33	WG975625
1,2-Dichloropropane	U		0.000306	0.00100	1	05/02/2017 05:33	WG975625
cis-1,3-Dichloropropene	U		0.000418	0.00100	1	05/02/2017 05:33	WG975625
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	05/02/2017 05:33	WG975625
Ethylbenzene	U		0.000384	0.00100	1	05/02/2017 05:33	WG975625
Isopropylbenzene	U		0.000326	0.00100	1	05/02/2017 05:33	WG975625
p-Isopropyltoluene	U		0.000350	0.00100	1	05/02/2017 05:33	WG975625
2-Butanone (MEK)	U		0.00393	0.0100	1	05/02/2017 05:33	WG975625
2-Hexanone	U		0.00382	0.0100	1	05/02/2017 05:33	WG975625
Methylene Chloride	U		0.00100	0.00500	1	05/02/2017 05:33	WG975625
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	05/02/2017 05:33	WG975625
Methyl tert-butyl ether	0.189		0.000367	0.00100	1	05/02/2017 05:33	WG975625
Naphthalene	U		0.00100	0.00500	1	05/02/2017 05:33	WG975625
n-Propylbenzene	U		0.000349	0.00100	1	05/02/2017 05:33	WG975625
Styrene	U		0.000307	0.00100	1	05/02/2017 05:33	WG975625
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	05/02/2017 05:33	WG975625
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	05/02/2017 05:33	WG975625
Tetrachloroethene	U		0.000372	0.00100	1	05/02/2017 05:33	WG975625
Toluene	U		0.000412	0.00100	1	05/02/2017 05:33	WG975625
1,1,1-Trichloroethane	U		0.000319	0.00100	1	05/02/2017 05:33	WG975625
1,1,2-Trichloroethane	U		0.000383	0.00100	1	05/02/2017 05:33	WG975625
Trichloroethene	U		0.000398	0.00100	1	05/02/2017 05:33	WG975625
1,2,4-Trimethylbenzene	U		0.000373	0.00100	1	05/02/2017 05:33	WG975625
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	05/02/2017 05:33	WG975625
Vinyl chloride	U		0.000259	0.00100	1	05/02/2017 05:33	WG975625
o-Xylene	U		0.000341	0.00100	1	05/02/2017 05:33	WG975625
m&p-Xylene	U		0.000719	0.00200	1	05/02/2017 05:33	WG975625
Xylenes, Total	U		0.00106	0.00300	1	05/02/2017 05:33	WG975625
(S) Toluene-d8	*105*			*80.0-120*		*05/02/2017 05:33*	WG975625
(S) Dibromofluoromethane	*107*			*76.0-123*		*05/02/2017 05:33*	WG975625
(S) 4-Bromofluorobenzene	*93.6*			*80.0-120*		*05/02/2017 05:33*	WG975625

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	2.57		0.0247	0.100	1	05/02/2017 12:39	WG975552
(S) o-Terphenyl	*66.9*			*31.0-160*		*05/02/2017 12:39*	WG975552

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Dissolved Solids	4120		2.82	10.0	1	05/02/2017 17:49	WG975509

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	4.03		0.197	1.00	10	05/04/2017 14:18	WG975897

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	470		2.60	50.0	50	05/03/2017 13:40	WG975914
Fluoride	0.902		0.00990	0.100	1	05/03/2017 13:17	WG975914
Sulfate	3170		3.87	250	50	05/03/2017 13:40	WG975914

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.00464		0.000250	0.00200	1	05/04/2017 11:30	WG975078
Arsenic,Dissolved	0.00466		0.000250	0.00200	1	05/02/2017 21:09	WG975069
Barium	0.00877		0.000360	0.00500	1	05/04/2017 11:30	WG975078
Barium,Dissolved	0.00895		0.000360	0.00500	1	05/02/2017 21:09	WG975069
Calcium	527		0.0460	1.00	1	05/04/2017 11:30	WG975078
Chromium	0.000611	J	0.000540	0.00200	1	05/04/2017 11:30	WG975078
Chromium,Dissolved	U		0.000540	0.00200	1	05/02/2017 21:09	WG975069
Iron	U		0.0150	0.100	1	05/04/2017 11:30	WG975078
Iron,Dissolved	U		0.0150	0.100	1	05/02/2017 21:09	WG975069
Lead	U		0.000240	0.00200	1	05/04/2017 11:30	WG975078
Lead,Dissolved	U		0.000240	0.00200	1	05/02/2017 21:09	WG975069
Manganese	0.00808		0.000250	0.00500	1	05/04/2017 11:30	WG975078
Manganese,Dissolved	0.00835		0.000250	0.00500	1	05/02/2017 21:09	WG975069
Potassium	1.61		0.0370	1.00	1	05/04/2017 11:30	WG975078
Selenium	0.00572		0.000380	0.00200	1	05/04/2017 11:30	WG975078
Selenium,Dissolved	0.00588	B	0.000380	0.00200	1	05/02/2017 21:09	WG975069
Sodium	269		0.110	1.00	1	05/04/2017 11:30	WG975078

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
TPH (GC/FID) Low Fraction	U		0.0314	0.100	1	04/30/2017 23:20	WG975304
(S) a,a,a-Trifluorotoluene(FID)	*95.0*			*77.0-122*		*04/30/2017 23:20*	WG975304

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		0.0100	0.0500	1	05/02/2017 05:56	WG975625
Benzene	U		0.000331	0.00100	1	05/02/2017 05:56	WG975625
Bromodichloromethane	U		0.000380	0.00100	1	05/02/2017 05:56	WG975625
Bromoform	U		0.000469	0.00100	1	05/02/2017 05:56	WG975625
Bromomethane	U		0.000866	0.00500	1	05/02/2017 05:56	WG975625
n-Butylbenzene	U		0.000361	0.00100	1	05/02/2017 05:56	WG975625
sec-Butylbenzene	U		0.000365	0.00100	1	05/02/2017 05:56	WG975625
Carbon disulfide	U		0.000275	0.00100	1	05/02/2017 05:56	WG975625
Carbon tetrachloride	U		0.000379	0.00100	1	05/02/2017 05:56	WG975625

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chlorobenzene	U		0.000348	0.00100	1	05/02/2017 05:56	WG975625
Chlorodibromomethane	U		0.000327	0.00100	1	05/02/2017 05:56	WG975625
Chloroethane	U		0.000453	0.00500	1	05/02/2017 05:56	WG975625
Chloroform	U		0.000324	0.00500	1	05/02/2017 05:56	WG975625
Chloromethane	U		0.000276	0.00250	1	05/02/2017 05:56	WG975625
1,2-Dibromoethane	U		0.000381	0.00100	1	05/02/2017 05:56	WG975625
1,1-Dichloroethane	U		0.000259	0.00100	1	05/02/2017 05:56	WG975625
1,2-Dichloroethane	U		0.000361	0.00100	1	05/02/2017 05:56	WG975625
1,1-Dichloroethene	U		0.000398	0.00100	1	05/02/2017 05:56	WG975625
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	05/02/2017 05:56	WG975625
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	05/02/2017 05:56	WG975625
1,2-Dichloropropane	U		0.000306	0.00100	1	05/02/2017 05:56	WG975625
cis-1,3-Dichloropropene	U		0.000418	0.00100	1	05/02/2017 05:56	WG975625
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	05/02/2017 05:56	WG975625
Ethylbenzene	U		0.000384	0.00100	1	05/02/2017 05:56	WG975625
Isopropylbenzene	U		0.000326	0.00100	1	05/02/2017 05:56	WG975625
p-Isopropyltoluene	U		0.000350	0.00100	1	05/02/2017 05:56	WG975625
2-Butanone (MEK)	U		0.00393	0.0100	1	05/02/2017 05:56	WG975625
2-Hexanone	U		0.00382	0.0100	1	05/02/2017 05:56	WG975625
Methylene Chloride	U		0.00100	0.00500	1	05/02/2017 05:56	WG975625
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	05/02/2017 05:56	WG975625
Methyl tert-butyl ether	U		0.000367	0.00100	1	05/02/2017 05:56	WG975625
Naphthalene	U		0.00100	0.00500	1	05/02/2017 05:56	WG975625
n-Propylbenzene	U		0.000349	0.00100	1	05/02/2017 05:56	WG975625
Styrene	U		0.000307	0.00100	1	05/02/2017 05:56	WG975625
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	05/02/2017 05:56	WG975625
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	05/02/2017 05:56	WG975625
Tetrachloroethene	U		0.000372	0.00100	1	05/02/2017 05:56	WG975625
Toluene	U		0.000412	0.00100	1	05/02/2017 05:56	WG975625
1,1,1-Trichloroethane	U		0.000319	0.00100	1	05/02/2017 05:56	WG975625
1,1,2-Trichloroethane	U		0.000383	0.00100	1	05/02/2017 05:56	WG975625
Trichloroethene	U		0.000398	0.00100	1	05/02/2017 05:56	WG975625
1,2,4-Trimethylbenzene	U		0.000373	0.00100	1	05/02/2017 05:56	WG975625
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	05/02/2017 05:56	WG975625
Vinyl chloride	U		0.000259	0.00100	1	05/02/2017 05:56	WG975625
o-Xylene	U		0.000341	0.00100	1	05/02/2017 05:56	WG975625
m&p-Xylene	U		0.000719	0.00200	1	05/02/2017 05:56	WG975625
Xylenes, Total	U		0.00106	0.00300	1	05/02/2017 05:56	WG975625
(S) Toluene-d8	*105*			*80.0-120*		*05/02/2017 05:56*	WG975625
(S) Dibromofluoromethane	*107*			*76.0-123*		*05/02/2017 05:56*	WG975625
(S) 4-Bromofluorobenzene	*92.9*			*80.0-120*		*05/02/2017 05:56*	WG975625

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	0.0738	J	0.0247	0.100	1	05/02/2017 16:16	WG975552
(S) o-Terphenyl	*57.6*			*31.0-160*		*05/02/2017 16:16*	WG975552

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Dissolved Solids	3520		2.82	10.0	1	05/02/2017 17:49	WG975509

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	7.57		0.197	1.00	10	05/04/2017 14:19	WG975897

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	05/02/2017 11:07	WG975005

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	146		2.60	50.0	50	05/03/2017 13:51	WG975914
Fluoride	0.310		0.00990	0.100	1	05/03/2017 13:28	WG975914
Sulfate	2980		3.87	250	50	05/03/2017 13:51	WG975914

Mercury by Method 7470A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Mercury	U		0.0000490	0.000200	1	05/02/2017 17:00	WG974957
Mercury,Dissolved	U		0.0000490	0.000200	1	05/02/2017 14:55	WG974958

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.00167	J	0.000250	0.00200	1	05/04/2017 11:34	WG975078
Arsenic,Dissolved	0.00152	J	0.000250	0.00200	1	05/02/2017 22:04	WG975069
Barium	0.00968		0.000360	0.00500	1	05/04/2017 11:34	WG975078
Barium,Dissolved	0.00889		0.000360	0.00500	1	05/02/2017 22:04	WG975069
Boron	0.558		0.00150	0.0200	1	05/04/2017 11:34	WG975078
Boron,Dissolved	0.507		0.00150	0.0200	1	05/02/2017 22:04	WG975069
Cadmium	U		0.000160	0.00100	1	05/04/2017 11:34	WG975078
Cadmium,Dissolved	U		0.000160	0.00100	1	05/02/2017 22:04	WG975069
Calcium	556		0.0460	1.00	1	05/04/2017 11:34	WG975078
Chromium	U		0.000540	0.00200	1	05/04/2017 11:34	WG975078
Chromium,Dissolved	U		0.000540	0.00200	1	05/02/2017 22:04	WG975069
Cobalt	U		0.000260	0.00200	1	05/04/2017 11:34	WG975078
Cobalt,Dissolved	U		0.000260	0.00200	1	05/02/2017 22:04	WG975069
Iron	0.0486	J	0.0150	0.100	1	05/04/2017 11:34	WG975078
Iron,Dissolved	U		0.0150	0.100	1	05/02/2017 22:04	WG975069
Lead	U		0.000240	0.00200	1	05/04/2017 11:34	WG975078
Lead,Dissolved	U		0.000240	0.00200	1	05/02/2017 22:04	WG975069
Manganese	0.00129	J	0.000250	0.00500	1	05/04/2017 11:34	WG975078
Manganese,Dissolved	0.00235	J	0.000250	0.00500	1	05/02/2017 22:04	WG975069
Nickel	0.000513	B J	0.000350	0.00200	1	05/04/2017 11:34	WG975078
Nickel,Dissolved	U		0.000350	0.00200	1	05/02/2017 22:04	WG975069
Potassium	0.720	J	0.0370	1.00	1	05/04/2017 11:34	WG975078
Selenium	0.00356		0.000380	0.00200	1	05/04/2017 11:34	WG975078
Selenium,Dissolved	0.00405	B	0.000380	0.00200	1	05/02/2017 22:04	WG975069
Sodium	149		0.110	1.00	1	05/04/2017 11:34	WG975078

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Uranium	0.0307		0.000330	0.0100	1	05/04/2017 11:34	WG975078
Uranium,Dissolved	0.0290		0.000330	0.0100	1	05/02/2017 22:04	WG975069
Vanadium	0.0127		0.000180	0.00500	1	05/04/2017 11:34	WG975078
Vanadium,Dissolved	0.0124		0.000180	0.00500	1	05/02/2017 22:04	WG975069

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
TPH (GC/FID) Low Fraction	U		0.0314	0.100	1	04/30/2017 23:42	WG975304
(S) a,a,a-Trifluorotoluene(FID)	*95.5*			*77.0-122*		*04/30/2017 23:42*	WG975304

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		0.0100	0.0500	1	05/02/2017 06:18	WG975625
Benzene	U		0.000331	0.00100	1	05/02/2017 06:18	WG975625
Bromodichloromethane	U		0.000380	0.00100	1	05/02/2017 06:18	WG975625
Bromoform	U		0.000469	0.00100	1	05/02/2017 06:18	WG975625
Bromomethane	U		0.000866	0.00500	1	05/02/2017 06:18	WG975625
n-Butylbenzene	U		0.000361	0.00100	1	05/02/2017 06:18	WG975625
sec-Butylbenzene	U		0.000365	0.00100	1	05/02/2017 06:18	WG975625
Carbon disulfide	U		0.000275	0.00100	1	05/02/2017 06:18	WG975625
Carbon tetrachloride	U		0.000379	0.00100	1	05/02/2017 06:18	WG975625
Chlorobenzene	U		0.000348	0.00100	1	05/02/2017 06:18	WG975625
Chlorodibromomethane	U		0.000327	0.00100	1	05/02/2017 06:18	WG975625
Chloroethane	U		0.000453	0.00500	1	05/02/2017 06:18	WG975625
Chloroform	U		0.000324	0.00500	1	05/02/2017 06:18	WG975625
Chloromethane	U		0.000276	0.00250	1	05/02/2017 06:18	WG975625
1,2-Dibromoethane	U		0.000381	0.00100	1	05/02/2017 06:18	WG975625
1,1-Dichloroethane	U		0.000259	0.00100	1	05/02/2017 06:18	WG975625
1,2-Dichloroethane	U		0.000361	0.00100	1	05/02/2017 06:18	WG975625
1,1-Dichloroethene	U		0.000398	0.00100	1	05/02/2017 06:18	WG975625
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	05/02/2017 06:18	WG975625
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	05/02/2017 06:18	WG975625
1,2-Dichloropropane	U		0.000306	0.00100	1	05/02/2017 06:18	WG975625
cis-1,3-Dichloropropene	U		0.000418	0.00100	1	05/02/2017 06:18	WG975625
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	05/02/2017 06:18	WG975625
Ethylbenzene	U		0.000384	0.00100	1	05/02/2017 06:18	WG975625
Isopropylbenzene	U		0.000326	0.00100	1	05/02/2017 06:18	WG975625
p-Isopropyltoluene	U		0.000350	0.00100	1	05/02/2017 06:18	WG975625
2-Butanone (MEK)	U		0.00393	0.0100	1	05/02/2017 06:18	WG975625
2-Hexanone	U		0.00382	0.0100	1	05/02/2017 06:18	WG975625
Methylene Chloride	U		0.00100	0.00500	1	05/02/2017 06:18	WG975625
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	05/02/2017 06:18	WG975625
Methyl tert-butyl ether	U		0.000367	0.00100	1	05/02/2017 06:18	WG975625
Naphthalene	U		0.00100	0.00500	1	05/02/2017 06:18	WG975625
n-Propylbenzene	U		0.000349	0.00100	1	05/02/2017 06:18	WG975625
Styrene	U		0.000307	0.00100	1	05/02/2017 06:18	WG975625
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	05/02/2017 06:18	WG975625
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	05/02/2017 06:18	WG975625
Tetrachloroethene	U		0.000372	0.00100	1	05/02/2017 06:18	WG975625
Toluene	U		0.000412	0.00100	1	05/02/2017 06:18	WG975625
1,1,1-Trichloroethane	U		0.000319	0.00100	1	05/02/2017 06:18	WG975625
1,1,2-Trichloroethane	U		0.000383	0.00100	1	05/02/2017 06:18	WG975625
Trichloroethene	U		0.000398	0.00100	1	05/02/2017 06:18	WG975625

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

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
1,2,4-Trimethylbenzene	U		0.000373	0.00100	1	05/02/2017 06:18	WG975625
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	05/02/2017 06:18	WG975625
Vinyl chloride	U		0.000259	0.00100	1	05/02/2017 06:18	WG975625
o-Xylene	U		0.000341	0.00100	1	05/02/2017 06:18	WG975625
m&p-Xylene	U		0.000719	0.00200	1	05/02/2017 06:18	WG975625
Xylenes, Total	U		0.00106	0.00300	1	05/02/2017 06:18	WG975625
(S) Toluene-d8	*104*			*80.0-120*		*05/02/2017 06:18*	WG975625
(S) Dibromofluoromethane	*108*			*76.0-123*		*05/02/2017 06:18*	WG975625
(S) 4-Bromofluorobenzene	*93.1*			*80.0-120*		*05/02/2017 06:18*	WG975625

Semi-Volatile Organic Compounds (GC) by 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	05/02/2017 13:13	WG975552
(S) o-Terphenyl	*53.5*			*31.0-160*		*05/02/2017 13:13*	WG975552

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Dissolved Solids	9.00	J	2.82	10.0	1	05/02/2017 17:49	WG975509

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	U		0.197	1.00	10	05/04/2017 14:20	WG975897

Sample Narrative:

353.2 L905668-47 WG975897: 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	0.365	J P1	0.0519	1.00	1	05/03/2017 14:03	WG975914
Fluoride	U		0.00990	0.100	1	05/03/2017 14:03	WG975914
Sulfate	U		0.0774	5.00	1	05/03/2017 14:03	WG975914

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	U		0.000250	0.00200	1	05/04/2017 11:37	WG975078
Arsenic,Dissolved	U		0.000250	0.00200	1	05/02/2017 22:38	WG975069
Barium	U		0.000360	0.00500	1	05/04/2017 11:37	WG975078
Barium,Dissolved	U		0.000360	0.00500	1	05/02/2017 22:38	WG975069
Calcium	U		0.0460	1.00	1	05/04/2017 11:37	WG975078
Chromium	U		0.000540	0.00200	1	05/04/2017 11:37	WG975078
Chromium,Dissolved	U		0.000540	0.00200	1	05/02/2017 22:38	WG975069
Iron	U		0.0150	0.100	1	05/04/2017 11:37	WG975078
Iron,Dissolved	U		0.0150	0.100	1	05/02/2017 22:38	WG975069
Lead	U		0.000240	0.00200	1	05/04/2017 11:37	WG975078
Lead,Dissolved	U		0.000240	0.00200	1	05/02/2017 22:38	WG975069
Manganese	0.000775	J	0.000250	0.00500	1	05/04/2017 11:37	WG975078
Manganese,Dissolved	U		0.000250	0.00500	1	05/02/2017 22:38	WG975069
Potassium	U		0.0370	1.00	1	05/04/2017 11:37	WG975078
Selenium	U		0.000380	0.00200	1	05/04/2017 11:37	WG975078
Selenium,Dissolved	U		0.000380	0.00200	1	05/02/2017 22:38	WG975069
Sodium	0.260	J	0.110	1.00	1	05/04/2017 11:37	WG975078

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	05/01/2017 00:04	WG975304
(S) a,a,a-Trifluorotoluene(FID)	*95.8*			*77.0-122*		*05/01/2017 00:04*	WG975304

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		0.0100	0.0500	1	05/02/2017 06:39	WG975625
Benzene	U		0.000331	0.00100	1	05/02/2017 06:39	WG975625
Bromodichloromethane	U		0.000380	0.00100	1	05/02/2017 06:39	WG975625
Bromoform	U		0.000469	0.00100	1	05/02/2017 06:39	WG975625
Bromomethane	U		0.000866	0.00500	1	05/02/2017 06:39	WG975625
n-Butylbenzene	U		0.000361	0.00100	1	05/02/2017 06:39	WG975625

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		0.000365	0.00100	1	05/02/2017 06:39	WG975625
Carbon disulfide	U		0.000275	0.00100	1	05/02/2017 06:39	WG975625
Carbon tetrachloride	U		0.000379	0.00100	1	05/02/2017 06:39	WG975625
Chlorobenzene	U		0.000348	0.00100	1	05/02/2017 06:39	WG975625
Chlorodibromomethane	U		0.000327	0.00100	1	05/02/2017 06:39	WG975625
Chloroethane	U		0.000453	0.00500	1	05/02/2017 06:39	WG975625
Chloroform	U		0.000324	0.00500	1	05/02/2017 06:39	WG975625
Chloromethane	U		0.000276	0.00250	1	05/02/2017 06:39	WG975625
1,2-Dibromoethane	U		0.000381	0.00100	1	05/02/2017 06:39	WG975625
1,1-Dichloroethane	U		0.000259	0.00100	1	05/02/2017 06:39	WG975625
1,2-Dichloroethane	U		0.000361	0.00100	1	05/02/2017 06:39	WG975625
1,1-Dichloroethene	U		0.000398	0.00100	1	05/02/2017 06:39	WG975625
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	05/02/2017 06:39	WG975625
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	05/02/2017 06:39	WG975625
1,2-Dichloropropane	U		0.000306	0.00100	1	05/02/2017 06:39	WG975625
cis-1,3-Dichloropropene	U		0.000418	0.00100	1	05/02/2017 06:39	WG975625
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	05/02/2017 06:39	WG975625
Ethylbenzene	U		0.000384	0.00100	1	05/02/2017 06:39	WG975625
Isopropylbenzene	U		0.000326	0.00100	1	05/02/2017 06:39	WG975625
p-Isopropyltoluene	U		0.000350	0.00100	1	05/02/2017 06:39	WG975625
2-Butanone (MEK)	U		0.00393	0.0100	1	05/02/2017 06:39	WG975625
2-Hexanone	U		0.00382	0.0100	1	05/02/2017 06:39	WG975625
Methylene Chloride	U		0.00100	0.00500	1	05/02/2017 06:39	WG975625
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	05/02/2017 06:39	WG975625
Methyl tert-butyl ether	U		0.000367	0.00100	1	05/02/2017 06:39	WG975625
Naphthalene	U		0.00100	0.00500	1	05/02/2017 06:39	WG975625
n-Propylbenzene	U		0.000349	0.00100	1	05/02/2017 06:39	WG975625
Styrene	U		0.000307	0.00100	1	05/02/2017 06:39	WG975625
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	05/02/2017 06:39	WG975625
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	05/02/2017 06:39	WG975625
Tetrachloroethene	U		0.000372	0.00100	1	05/02/2017 06:39	WG975625
Toluene	0.000639	J	0.000412	0.00100	1	05/02/2017 06:39	WG975625
1,1,1-Trichloroethane	U		0.000319	0.00100	1	05/02/2017 06:39	WG975625
1,1,2-Trichloroethane	U		0.000383	0.00100	1	05/02/2017 06:39	WG975625
Trichloroethene	U		0.000398	0.00100	1	05/02/2017 06:39	WG975625
1,2,4-Trimethylbenzene	U		0.000373	0.00100	1	05/02/2017 06:39	WG975625
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	05/02/2017 06:39	WG975625
Vinyl chloride	U		0.000259	0.00100	1	05/02/2017 06:39	WG975625
o-Xylene	U		0.000341	0.00100	1	05/02/2017 06:39	WG975625
m&p-Xylene	U		0.000719	0.00200	1	05/02/2017 06:39	WG975625
Xylenes, Total	U		0.00106	0.00300	1	05/02/2017 06:39	WG975625
(S) Toluene-d8	*104*			*80.0-120*		*05/02/2017 06:39*	WG975625
(S) Dibromofluoromethane	*108*			*76.0-123*		*05/02/2017 06:39*	WG975625
(S) 4-Bromofluorobenzene	*93.0*			*80.0-120*		*05/02/2017 06:39*	WG975625

Semi-Volatile Organic Compounds (GC) by 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	05/02/2017 13:29	WG975552
(S) o-Terphenyl	*62.4*			*31.0-160*		*05/02/2017 13:29*	WG975552

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Dissolved Solids	9.00	J	2.82	10.0	1	05/02/2017 17:49	WG975509

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	U		0.197	1.00	10	05/04/2017 14:27	WG975897

Sample Narrative:

353.2 L905668-48 WG975897: Dilution due to matrix

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	05/02/2017 11:08	WG975005

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	0.326	J	0.0519	1.00	1	05/03/2017 14:50	WG975914
Fluoride	U		0.00990	0.100	1	05/03/2017 14:50	WG975914
Sulfate	U		0.0774	5.00	1	05/03/2017 14:50	WG975914

Mercury by Method 7470A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Mercury	U		0.0000490	0.000200	1	05/02/2017 17:03	WG974957
Mercury,Dissolved	U		0.0000490	0.000200	1	05/02/2017 14:57	WG974958

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	U		0.000250	0.00200	1	05/04/2017 11:41	WG975078
Arsenic,Dissolved	U		0.000250	0.00200	1	05/02/2017 22:07	WG975069
Barium	U		0.000360	0.00500	1	05/04/2017 11:41	WG975078
Barium,Dissolved	U		0.000360	0.00500	1	05/02/2017 22:07	WG975069
Boron	0.0331		0.00150	0.0200	1	05/04/2017 11:41	WG975078
Boron,Dissolved	0.00688	J	0.00150	0.0200	1	05/02/2017 22:07	WG975069
Cadmium	U		0.000160	0.00100	1	05/04/2017 11:41	WG975078
Cadmium,Dissolved	U		0.000160	0.00100	1	05/02/2017 22:07	WG975069
Calcium	U		0.0460	1.00	1	05/04/2017 11:41	WG975078
Chromium	U		0.000540	0.00200	1	05/04/2017 11:41	WG975078
Chromium,Dissolved	U		0.000540	0.00200	1	05/02/2017 22:07	WG975069
Cobalt	U		0.000260	0.00200	1	05/04/2017 11:41	WG975078
Cobalt,Dissolved	U		0.000260	0.00200	1	05/02/2017 22:07	WG975069
Iron	U		0.0150	0.100	1	05/04/2017 11:41	WG975078
Iron,Dissolved	U		0.0150	0.100	1	05/02/2017 22:07	WG975069
Lead	U		0.000240	0.00200	1	05/04/2017 11:41	WG975078
Lead,Dissolved	U		0.000240	0.00200	1	05/02/2017 22:07	WG975069
Manganese	U		0.000250	0.00500	1	05/04/2017 11:41	WG975078
Manganese,Dissolved	0.00103	J	0.000250	0.00500	1	05/02/2017 22:07	WG975069
Nickel	U		0.000350	0.00200	1	05/04/2017 11:41	WG975078
Nickel,Dissolved	U		0.000350	0.00200	1	05/02/2017 22:07	WG975069
Potassium	U		0.0370	1.00	1	05/04/2017 11:41	WG975078

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Selenium	U		0.000380	0.00200	1	05/04/2017 11:41	WG975078
Selenium,Dissolved	0.000473	B J	0.000380	0.00200	1	05/02/2017 22:07	WG975069
Sodium	0.123	J	0.110	1.00	1	05/04/2017 11:41	WG975078
Uranium	U		0.000330	0.0100	1	05/04/2017 11:41	WG975078
Uranium,Dissolved	U		0.000330	0.0100	1	05/02/2017 22:07	WG975069
Vanadium	0.000575	J	0.000180	0.00500	1	05/04/2017 11:41	WG975078
Vanadium,Dissolved	0.000229	B J	0.000180	0.00500	1	05/02/2017 22:07	WG975069

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	05/01/2017 00:26	WG975304
(S) a,a,a-Trifluorotoluene(FID)	*95.6*			*77.0-122*		*05/01/2017 00:26*	WG975304

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		0.0100	0.0500	1	05/02/2017 07:02	WG975625
Benzene	U		0.000331	0.00100	1	05/02/2017 07:02	WG975625
Bromodichloromethane	U		0.000380	0.00100	1	05/02/2017 07:02	WG975625
Bromoform	U		0.000469	0.00100	1	05/02/2017 07:02	WG975625
Bromomethane	U		0.000866	0.00500	1	05/02/2017 07:02	WG975625
n-Butylbenzene	U		0.000361	0.00100	1	05/02/2017 07:02	WG975625
sec-Butylbenzene	U		0.000365	0.00100	1	05/02/2017 07:02	WG975625
Carbon disulfide	U		0.000275	0.00100	1	05/02/2017 07:02	WG975625
Carbon tetrachloride	U		0.000379	0.00100	1	05/02/2017 07:02	WG975625
Chlorobenzene	U		0.000348	0.00100	1	05/02/2017 07:02	WG975625
Chlorodibromomethane	U		0.000327	0.00100	1	05/02/2017 07:02	WG975625
Chloroethane	U		0.000453	0.00500	1	05/02/2017 07:02	WG975625
Chloroform	U		0.000324	0.00500	1	05/02/2017 07:02	WG975625
Chloromethane	U		0.000276	0.00250	1	05/02/2017 07:02	WG975625
1,2-Dibromoethane	U		0.000381	0.00100	1	05/02/2017 07:02	WG975625
1,1-Dichloroethane	U		0.000259	0.00100	1	05/02/2017 07:02	WG975625
1,2-Dichloroethane	U		0.000361	0.00100	1	05/02/2017 07:02	WG975625
1,1-Dichloroethene	U		0.000398	0.00100	1	05/02/2017 07:02	WG975625
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	05/02/2017 07:02	WG975625
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	05/02/2017 07:02	WG975625
1,2-Dichloropropane	U		0.000306	0.00100	1	05/02/2017 07:02	WG975625
cis-1,3-Dichloropropene	U		0.000418	0.00100	1	05/02/2017 07:02	WG975625
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	05/02/2017 07:02	WG975625
Ethylbenzene	U		0.000384	0.00100	1	05/02/2017 07:02	WG975625
Isopropylbenzene	U		0.000326	0.00100	1	05/02/2017 07:02	WG975625
p-Isopropyltoluene	U		0.000350	0.00100	1	05/02/2017 07:02	WG975625
2-Butanone (MEK)	U		0.00393	0.0100	1	05/02/2017 07:02	WG975625
2-Hexanone	U		0.00382	0.0100	1	05/02/2017 07:02	WG975625
Methylene Chloride	U		0.00100	0.00500	1	05/02/2017 07:02	WG975625
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	05/02/2017 07:02	WG975625
Methyl tert-butyl ether	U		0.000367	0.00100	1	05/02/2017 07:02	WG975625
Naphthalene	U		0.00100	0.00500	1	05/02/2017 07:02	WG975625
n-Propylbenzene	U		0.000349	0.00100	1	05/02/2017 07:02	WG975625
Styrene	U		0.000307	0.00100	1	05/02/2017 07:02	WG975625
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	05/02/2017 07:02	WG975625
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	05/02/2017 07:02	WG975625
Tetrachloroethene	U		0.000372	0.00100	1	05/02/2017 07:02	WG975625
Toluene	0.000723	J	0.000412	0.00100	1	05/02/2017 07:02	WG975625

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
1,1,1-Trichloroethane	U		0.000319	0.00100	1	05/02/2017 07:02	WG975625
1,1,2-Trichloroethane	U		0.000383	0.00100	1	05/02/2017 07:02	WG975625
Trichloroethene	U		0.000398	0.00100	1	05/02/2017 07:02	WG975625
1,2,4-Trimethylbenzene	U		0.000373	0.00100	1	05/02/2017 07:02	WG975625
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	05/02/2017 07:02	WG975625
Vinyl chloride	U		0.000259	0.00100	1	05/02/2017 07:02	WG975625
o-Xylene	U		0.000341	0.00100	1	05/02/2017 07:02	WG975625
m&p-Xylene	U		0.000719	0.00200	1	05/02/2017 07:02	WG975625
Xylenes, Total	U		0.00106	0.00300	1	05/02/2017 07:02	WG975625
(S) Toluene-d8	*106*			*80.0-120*		*05/02/2017 07:02*	WG975625
(S) Dibromofluoromethane	*109*			*76.0-123*		*05/02/2017 07:02*	WG975625
(S) 4-Bromofluorobenzene	*94.8*			*80.0-120*		*05/02/2017 07:02*	WG975625

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	05/02/2017 13:46	WG975552
(S) o-Terphenyl	*59.2*			*31.0-160*		*05/02/2017 13:46*	WG975552

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	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Acetone	U		0.0100	0.0500	1	05/02/2017 04:05	WG975625
Benzene	U		0.000331	0.00100	1	05/02/2017 04:05	WG975625
Bromodichloromethane	U		0.000380	0.00100	1	05/02/2017 04:05	WG975625
Bromoform	U		0.000469	0.00100	1	05/02/2017 04:05	WG975625
Bromomethane	U		0.000866	0.00500	1	05/02/2017 04:05	WG975625
n-Butylbenzene	U		0.000361	0.00100	1	05/02/2017 04:05	WG975625
sec-Butylbenzene	U		0.000365	0.00100	1	05/02/2017 04:05	WG975625
Carbon disulfide	U		0.000275	0.00100	1	05/02/2017 04:05	WG975625
Carbon tetrachloride	U		0.000379	0.00100	1	05/02/2017 04:05	WG975625
Chlorobenzene	U		0.000348	0.00100	1	05/02/2017 04:05	WG975625
Chlorodibromomethane	U		0.000327	0.00100	1	05/02/2017 04:05	WG975625
Chloroethane	U		0.000453	0.00500	1	05/02/2017 04:05	WG975625
Chloroform	U		0.000324	0.00500	1	05/02/2017 04:05	WG975625
Chloromethane	U		0.000276	0.00250	1	05/02/2017 04:05	WG975625
1,2-Dibromoethane	U		0.000381	0.00100	1	05/02/2017 04:05	WG975625
1,1-Dichloroethane	U		0.000259	0.00100	1	05/02/2017 04:05	WG975625
1,2-Dichloroethane	U		0.000361	0.00100	1	05/02/2017 04:05	WG975625
1,1-Dichloroethene	U		0.000398	0.00100	1	05/02/2017 04:05	WG975625
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	05/02/2017 04:05	WG975625
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	05/02/2017 04:05	WG975625
1,2-Dichloropropane	U		0.000306	0.00100	1	05/02/2017 04:05	WG975625
cis-1,3-Dichloropropene	U		0.000418	0.00100	1	05/02/2017 04:05	WG975625
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	05/02/2017 04:05	WG975625
Ethylbenzene	U		0.000384	0.00100	1	05/02/2017 04:05	WG975625
Isopropylbenzene	U		0.000326	0.00100	1	05/02/2017 04:05	WG975625
p-Isopropyltoluene	U		0.000350	0.00100	1	05/02/2017 04:05	WG975625
2-Butanone (MEK)	U		0.00393	0.0100	1	05/02/2017 04:05	WG975625
2-Hexanone	U		0.00382	0.0100	1	05/02/2017 04:05	WG975625
Methylene Chloride	U		0.00100	0.00500	1	05/02/2017 04:05	WG975625
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	05/02/2017 04:05	WG975625
Methyl tert-butyl ether	U		0.000367	0.00100	1	05/02/2017 04:05	WG975625
Naphthalene	U		0.00100	0.00500	1	05/02/2017 04:05	WG975625
n-Propylbenzene	U		0.000349	0.00100	1	05/02/2017 04:05	WG975625
Styrene	U		0.000307	0.00100	1	05/02/2017 04:05	WG975625
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	05/02/2017 04:05	WG975625
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	05/02/2017 04:05	WG975625
Tetrachloroethene	U		0.000372	0.00100	1	05/02/2017 04:05	WG975625
Toluene	U		0.000412	0.00100	1	05/02/2017 04:05	WG975625
1,1,1-Trichloroethane	U		0.000319	0.00100	1	05/02/2017 04:05	WG975625
1,1,2-Trichloroethane	U		0.000383	0.00100	1	05/02/2017 04:05	WG975625
Trichloroethene	U		0.000398	0.00100	1	05/02/2017 04:05	WG975625
1,2,4-Trimethylbenzene	U		0.000373	0.00100	1	05/02/2017 04:05	WG975625
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	05/02/2017 04:05	WG975625
Vinyl chloride	U		0.000259	0.00100	1	05/02/2017 04:05	WG975625
o-Xylene	U		0.000341	0.00100	1	05/02/2017 04:05	WG975625
m&p-Xylene	U		0.000719	0.00200	1	05/02/2017 04:05	WG975625
Xylenes, Total	U		0.00106	0.00300	1	05/02/2017 04:05	WG975625
(S) Toluene-d8	*104*			*80.0-120*		*05/02/2017 04:05*	WG975625
(S) Dibromofluoromethane	*109*			*76.0-123*		*05/02/2017 04:05*	WG975625
(S) 4-Bromofluorobenzene	*93.2*			*80.0-120*		*05/02/2017 04:05*	WG975625

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Dissolved Solids	2260		2.82	10.0	1	05/03/2017 14:04	WG975909

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	3.27		0.197	1.00	10	05/04/2017 14:28	WG975897

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	05/02/2017 11:09	WG975005

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	154		0.519	10.0	10	05/05/2017 13:36	WG976618
Fluoride	1.65		0.00990	0.100	1	05/03/2017 15:13	WG975914
Sulfate	1060		1.55	100	20	05/03/2017 16:00	WG975914

Mercury by Method 7470A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Mercury	U		0.0000490	0.000200	1	05/02/2017 17:05	WG974957
Mercury,Dissolved	U		0.0000490	0.000200	1	05/02/2017 14:59	WG974958

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.00368		0.000250	0.00200	1	05/04/2017 11:45	WG975078
Arsenic,Dissolved	0.00361		0.000250	0.00200	1	05/02/2017 22:11	WG975069
Barium	0.0101		0.000360	0.00500	1	05/04/2017 11:45	WG975078
Barium,Dissolved	0.0106		0.000360	0.00500	1	05/02/2017 22:11	WG975069
Boron	0.702		0.00150	0.0200	1	05/04/2017 11:45	WG975078
Boron,Dissolved	0.639		0.00150	0.0200	1	05/02/2017 22:11	WG975069
Cadmium	U		0.000160	0.00100	1	05/04/2017 11:45	WG975078
Cadmium,Dissolved	U		0.000160	0.00100	1	05/02/2017 22:11	WG975069
Calcium	181		0.0460	1.00	1	05/04/2017 11:45	WG975078
Chromium	U		0.000540	0.00200	1	05/04/2017 11:45	WG975078
Chromium,Dissolved	U		0.000540	0.00200	1	05/02/2017 22:11	WG975069
Cobalt	0.000503	J	0.000260	0.00200	1	05/04/2017 11:45	WG975078
Cobalt,Dissolved	0.000377	J	0.000260	0.00200	1	05/02/2017 22:11	WG975069
Iron	0.0447	J	0.0150	0.100	1	05/04/2017 11:45	WG975078
Iron,Dissolved	U		0.0150	0.100	1	05/02/2017 22:11	WG975069
Lead	U		0.000240	0.00200	1	05/04/2017 11:45	WG975078
Lead,Dissolved	U		0.000240	0.00200	1	05/02/2017 22:11	WG975069
Manganese	0.0659		0.000250	0.00500	1	05/04/2017 11:45	WG975078
Manganese,Dissolved	0.0420		0.000250	0.00500	1	05/02/2017 22:11	WG975069
Nickel	0.00798		0.000350	0.00200	1	05/04/2017 11:45	WG975078
Nickel,Dissolved	0.00519		0.000350	0.00200	1	05/02/2017 22:11	WG975069
Potassium	0.283	J	0.0370	1.00	1	05/04/2017 11:45	WG975078
Selenium	0.00178	J	0.000380	0.00200	1	05/04/2017 11:45	WG975078
Selenium,Dissolved	0.00222	B	0.000380	0.00200	1	05/02/2017 22:11	WG975069
Sodium	297		0.110	1.00	1	05/04/2017 11:45	WG975078

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Uranium	0.00976	J	0.000330	0.0100	1	05/04/2017 11:45	WG975078
Uranium,Dissolved	0.00963	J	0.000330	0.0100	1	05/02/2017 22:11	WG975069
Vanadium	0.0269		0.000180	0.00500	1	05/04/2017 11:45	WG975078
Vanadium,Dissolved	0.0269		0.000180	0.00500	1	05/02/2017 22:11	WG975069

Volatile Organic Compounds (GC) by 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	05/01/2017 00:49	WG975304
(S) α,α,α-Trifluorotoluene(FID)	*95.1*			*77.0-122*		*05/01/2017 00:49*	WG975304

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

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0100	0.0500	1	05/02/2017 07:24	WG975625
Benzene	U		0.000331	0.00100	1	05/02/2017 07:24	WG975625
Bromodichloromethane	U		0.000380	0.00100	1	05/02/2017 07:24	WG975625
Bromoform	U		0.000469	0.00100	1	05/02/2017 07:24	WG975625
Bromomethane	U		0.000866	0.00500	1	05/02/2017 07:24	WG975625
n-Butylbenzene	U		0.000361	0.00100	1	05/02/2017 07:24	WG975625
sec-Butylbenzene	U		0.000365	0.00100	1	05/02/2017 07:24	WG975625
Carbon disulfide	U		0.000275	0.00100	1	05/02/2017 07:24	WG975625
Carbon tetrachloride	U		0.000379	0.00100	1	05/02/2017 07:24	WG975625
Chlorobenzene	U		0.000348	0.00100	1	05/02/2017 07:24	WG975625
Chlorodibromomethane	U		0.000327	0.00100	1	05/02/2017 07:24	WG975625
Chloroethane	U		0.000453	0.00500	1	05/02/2017 07:24	WG975625
Chloroform	U		0.000324	0.00500	1	05/02/2017 07:24	WG975625
Chloromethane	U		0.000276	0.00250	1	05/02/2017 07:24	WG975625
1,2-Dibromoethane	U		0.000381	0.00100	1	05/02/2017 07:24	WG975625
1,1-Dichloroethane	U		0.000259	0.00100	1	05/02/2017 07:24	WG975625
1,2-Dichloroethane	U		0.000361	0.00100	1	05/02/2017 07:24	WG975625
1,1-Dichloroethene	U		0.000398	0.00100	1	05/02/2017 07:24	WG975625
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	05/02/2017 07:24	WG975625
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	05/02/2017 07:24	WG975625
1,2-Dichloropropane	U		0.000306	0.00100	1	05/02/2017 07:24	WG975625
cis-1,3-Dichloropropene	U		0.000418	0.00100	1	05/02/2017 07:24	WG975625
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	05/02/2017 07:24	WG975625
Ethylbenzene	U		0.000384	0.00100	1	05/02/2017 07:24	WG975625
Isopropylbenzene	U		0.000326	0.00100	1	05/02/2017 07:24	WG975625
p-Isopropyltoluene	U		0.000350	0.00100	1	05/02/2017 07:24	WG975625
2-Butanone (MEK)	U		0.00393	0.0100	1	05/02/2017 07:24	WG975625
2-Hexanone	U		0.00382	0.0100	1	05/02/2017 07:24	WG975625
Methylene Chloride	U		0.00100	0.00500	1	05/02/2017 07:24	WG975625
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	05/02/2017 07:24	WG975625
Methyl tert-butyl ether	U		0.000367	0.00100	1	05/02/2017 07:24	WG975625
Naphthalene	U		0.00100	0.00500	1	05/02/2017 07:24	WG975625
n-Propylbenzene	U		0.000349	0.00100	1	05/02/2017 07:24	WG975625
Styrene	U		0.000307	0.00100	1	05/02/2017 07:24	WG975625
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	05/02/2017 07:24	WG975625
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	05/02/2017 07:24	WG975625
Tetrachloroethene	U		0.000372	0.00100	1	05/02/2017 07:24	WG975625
Toluene	U		0.000412	0.00100	1	05/02/2017 07:24	WG975625
1,1,1-Trichloroethane	U		0.000319	0.00100	1	05/02/2017 07:24	WG975625
1,1,2-Trichloroethane	U		0.000383	0.00100	1	05/02/2017 07:24	WG975625
Trichloroethene	U		0.000398	0.00100	1	05/02/2017 07:24	WG975625

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

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
1,2,4-Trimethylbenzene	U		0.000373	0.00100	1	05/02/2017 07:24	WG975625
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	05/02/2017 07:24	WG975625
Vinyl chloride	U		0.000259	0.00100	1	05/02/2017 07:24	WG975625
o-Xylene	U		0.000341	0.00100	1	05/02/2017 07:24	WG975625
m&p-Xylene	U		0.000719	0.00200	1	05/02/2017 07:24	WG975625
Xylenes, Total	U		0.00106	0.00300	1	05/02/2017 07:24	WG975625
(S) Toluene-d8	*106*			*80.0-120*		*05/02/2017 07:24*	WG975625
(S) Dibromofluoromethane	*108*			*76.0-123*		*05/02/2017 07:24*	WG975625
(S) 4-Bromofluorobenzene	*96.0*			*80.0-120*		*05/02/2017 07:24*	WG975625

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	0.271		0.0247	0.100	1	05/02/2017 14:03	WG975552
(S) o-Terphenyl	*65.0*			*31.0-160*		*05/02/2017 14:03*	WG975552

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Dissolved Solids	2700		2.82	10.0	1	05/03/2017 14:04	WG975909

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	U		0.197	1.00	10	05/04/2017 14:29	WG975897

Sample Narrative:

353.2 L905668-51 WG975897: 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	195		2.60	50.0	50	05/03/2017 16:11	WG975914
Fluoride	1.99		0.00990	0.100	1	05/03/2017 15:25	WG975914
Sulfate	1040		3.87	250	50	05/03/2017 16:11	WG975914

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.00176	J	0.000250	0.00200	1	05/04/2017 11:48	WG975078
Arsenic,Dissolved	0.00306		0.000250	0.00200	1	05/02/2017 22:41	WG975069
Barium	0.0479		0.000360	0.00500	1	05/04/2017 11:48	WG975078
Barium,Dissolved	0.0336		0.000360	0.00500	1	05/02/2017 22:41	WG975069
Calcium	200		0.0460	1.00	1	05/04/2017 11:48	WG975078
Chromium	U		0.000540	0.00200	1	05/04/2017 11:48	WG975078
Chromium,Dissolved	U		0.000540	0.00200	1	05/02/2017 22:41	WG975069
Iron	0.0422	J	0.0150	0.100	1	05/04/2017 11:48	WG975078
Iron,Dissolved	U		0.0150	0.100	1	05/02/2017 22:41	WG975069
Lead	U		0.000240	0.00200	1	05/04/2017 11:48	WG975078
Lead,Dissolved	U		0.000240	0.00200	1	05/02/2017 22:41	WG975069
Manganese	0.0425		0.000250	0.00500	1	05/04/2017 11:48	WG975078
Manganese,Dissolved	0.0728		0.000250	0.00500	1	05/02/2017 22:41	WG975069
Potassium	1.03		0.0370	1.00	1	05/04/2017 11:48	WG975078
Selenium	U		0.000380	0.00200	1	05/04/2017 11:48	WG975078
Selenium,Dissolved	0.000878	B J	0.000380	0.00200	1	05/02/2017 22:41	WG975069
Sodium	394		0.110	1.00	1	05/04/2017 11:48	WG975078

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	5.26		0.0314	0.100	1	05/09/2017 07:37	WG975304
(S) a,a,a-Trifluorotoluene(FID)	*91.8*			*77.0-122*		*05/09/2017 07:37*	WG975304

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		0.100	0.500	10	05/02/2017 07:47	WG975625
Benzene	1.25		0.00331	0.0100	10	05/02/2017 07:47	WG975625
Bromodichloromethane	U		0.00380	0.0100	10	05/02/2017 07:47	WG975625
Bromoform	U		0.00469	0.0100	10	05/02/2017 07:47	WG975625
Bromomethane	U		0.00866	0.0500	10	05/02/2017 07:47	WG975625
n-Butylbenzene	0.00378	J	0.00361	0.0100	10	05/02/2017 07:47	WG975625

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	0.00698	J	0.00365	0.0100	10	05/02/2017 07:47	WG975625
Carbon disulfide	U		0.00275	0.0100	10	05/02/2017 07:47	WG975625
Carbon tetrachloride	U		0.00379	0.0100	10	05/02/2017 07:47	WG975625
Chlorobenzene	U		0.00348	0.0100	10	05/02/2017 07:47	WG975625
Chlorodibromomethane	U		0.00327	0.0100	10	05/02/2017 07:47	WG975625
Chloroethane	U		0.00453	0.0500	10	05/02/2017 07:47	WG975625
Chloroform	U		0.00324	0.0500	10	05/02/2017 07:47	WG975625
Chloromethane	U		0.00276	0.0250	10	05/02/2017 07:47	WG975625
1,2-Dibromoethane	U		0.00381	0.0100	10	05/02/2017 07:47	WG975625
1,1-Dichloroethane	U		0.00259	0.0100	10	05/02/2017 07:47	WG975625
1,2-Dichloroethane	U		0.00361	0.0100	10	05/02/2017 07:47	WG975625
1,1-Dichloroethene	U		0.00398	0.0100	10	05/02/2017 07:47	WG975625
cis-1,2-Dichloroethene	U		0.00260	0.0100	10	05/02/2017 07:47	WG975625
trans-1,2-Dichloroethene	U		0.00396	0.0100	10	05/02/2017 07:47	WG975625
1,2-Dichloropropane	U		0.00306	0.0100	10	05/02/2017 07:47	WG975625
cis-1,3-Dichloropropene	U		0.00418	0.0100	10	05/02/2017 07:47	WG975625
trans-1,3-Dichloropropene	U		0.00419	0.0100	10	05/02/2017 07:47	WG975625
Ethylbenzene	0.00980	J	0.00384	0.0100	10	05/02/2017 07:47	WG975625
Isopropylbenzene	0.0536		0.00326	0.0100	10	05/02/2017 07:47	WG975625
p-Isopropyltoluene	U		0.00350	0.0100	10	05/02/2017 07:47	WG975625
2-Butanone (MEK)	U		0.0393	0.100	10	05/02/2017 07:47	WG975625
2-Hexanone	U		0.0382	0.100	10	05/02/2017 07:47	WG975625
Methylene Chloride	U		0.0100	0.0500	10	05/02/2017 07:47	WG975625
4-Methyl-2-pentanone (MIBK)	U		0.0214	0.100	10	05/02/2017 07:47	WG975625
Methyl tert-butyl ether	U		0.00367	0.0100	10	05/02/2017 07:47	WG975625
Naphthalene	U		0.0100	0.0500	10	05/02/2017 07:47	WG975625
n-Propylbenzene	0.0569		0.00349	0.0100	10	05/02/2017 07:47	WG975625
Styrene	U		0.00307	0.0100	10	05/02/2017 07:47	WG975625
1,1,1,2-Tetrachloroethane	U		0.00385	0.0100	10	05/02/2017 07:47	WG975625
1,1,2,2-Tetrachloroethane	U		0.00130	0.0100	10	05/02/2017 07:47	WG975625
Tetrachloroethene	U		0.00372	0.0100	10	05/02/2017 07:47	WG975625
Toluene	0.0172		0.00412	0.0100	10	05/02/2017 07:47	WG975625
1,1,1-Trichloroethane	U		0.00319	0.0100	10	05/02/2017 07:47	WG975625
1,1,2-Trichloroethane	U		0.00383	0.0100	10	05/02/2017 07:47	WG975625
Trichloroethene	U		0.00398	0.0100	10	05/02/2017 07:47	WG975625
1,2,4-Trimethylbenzene	0.00751	J	0.00373	0.0100	10	05/02/2017 07:47	WG975625
1,3,5-Trimethylbenzene	U		0.00387	0.0100	10	05/02/2017 07:47	WG975625
Vinyl chloride	U		0.00259	0.0100	10	05/02/2017 07:47	WG975625
o-Xylene	U		0.00341	0.0100	10	05/02/2017 07:47	WG975625
m&p-Xylene	0.0272		0.00719	0.0200	10	05/02/2017 07:47	WG975625
Xylenes, Total	0.0272	J	0.0106	0.0300	10	05/02/2017 07:47	WG975625
(S) Toluene-d8	*105*			*80.0-120*		*05/02/2017 07:47*	WG975625
(S) Dibromofluoromethane	*100*			*76.0-123*		*05/02/2017 07:47*	WG975625
(S) 4-Bromofluorobenzene	*93.4*			*80.0-120*		*05/02/2017 07:47*	WG975625

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	5.78		0.0247	0.100	1	05/02/2017 14:19	WG975552
(S) o-Terphenyl	*85.1*			*31.0-160*		*05/02/2017 14:19*	WG975552

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Dissolved Solids	1330		2.82	10.0	1	05/03/2017 14:04	WG975909

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	U		0.197	1.00	10	05/04/2017 14:30	WG975897

Sample Narrative:

353.2 L905668-52 WG975897: 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	135		1.04	20.0	20	05/03/2017 16:24	WG975914
Fluoride	1.45		0.00990	0.100	1	05/03/2017 15:36	WG975914
Sulfate	387		1.55	100	20	05/03/2017 16:24	WG975914

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.00529		0.000250	0.00200	1	05/04/2017 11:52	WG975078
Arsenic,Dissolved	0.00401		0.000250	0.00200	1	05/02/2017 22:45	WG975069
Barium	0.0571		0.000360	0.00500	1	05/04/2017 11:52	WG975078
Barium,Dissolved	0.0567		0.000360	0.00500	1	05/02/2017 22:45	WG975069
Calcium	120		0.0460	1.00	1	05/04/2017 11:52	WG975078
Chromium	U		0.000540	0.00200	1	05/04/2017 11:52	WG975078
Chromium,Dissolved	U		0.000540	0.00200	1	05/02/2017 22:45	WG975069
Iron	0.229		0.0150	0.100	1	05/04/2017 11:52	WG975078
Iron,Dissolved	0.0716	J	0.0150	0.100	1	05/02/2017 22:45	WG975069
Lead	U		0.000240	0.00200	1	05/04/2017 11:52	WG975078
Lead,Dissolved	U		0.000240	0.00200	1	05/02/2017 22:45	WG975069
Manganese	0.510		0.000250	0.00500	1	05/04/2017 11:52	WG975078
Manganese,Dissolved	0.545		0.000250	0.00500	1	05/02/2017 22:45	WG975069
Potassium	0.207	J	0.0370	1.00	1	05/04/2017 11:52	WG975078
Selenium	U		0.000380	0.00200	1	05/04/2017 11:52	WG975078
Selenium,Dissolved	0.000559	B J	0.000380	0.00200	1	05/02/2017 22:45	WG975069
Sodium	265		0.110	1.00	1	05/04/2017 11:52	WG975078

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	2.69		0.0314	0.100	1	05/09/2017 08:00	WG975304
(S) a,a,a-Trifluorotoluene(FID)	*93.1*			*77.0-122*		*05/09/2017 08:00*	WG975304

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		0.0500	0.250	5	05/02/2017 08:09	WG975625
Benzene	0.299		0.00166	0.00500	5	05/02/2017 08:09	WG975625
Bromodichloromethane	U		0.00190	0.00500	5	05/02/2017 08:09	WG975625
Bromoform	U		0.00234	0.00500	5	05/02/2017 08:09	WG975625
Bromomethane	U		0.00433	0.0250	5	05/02/2017 08:09	WG975625
n-Butylbenzene	0.00474	J	0.00180	0.00500	5	05/02/2017 08:09	WG975625

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	0.00963		0.00182	0.00500	5	05/02/2017 08:09	WG975625
Carbon disulfide	U		0.00138	0.00500	5	05/02/2017 08:09	WG975625
Carbon tetrachloride	U		0.00190	0.00500	5	05/02/2017 08:09	WG975625
Chlorobenzene	U		0.00174	0.00500	5	05/02/2017 08:09	WG975625
Chlorodibromomethane	U		0.00164	0.00500	5	05/02/2017 08:09	WG975625
Chloroethane	U		0.00226	0.0250	5	05/02/2017 08:09	WG975625
Chloroform	0.00406	J	0.00162	0.0250	5	05/02/2017 08:09	WG975625
Chloromethane	U		0.00138	0.0125	5	05/02/2017 08:09	WG975625
1,2-Dibromoethane	U		0.00190	0.00500	5	05/02/2017 08:09	WG975625
1,1-Dichloroethane	U		0.00130	0.00500	5	05/02/2017 08:09	WG975625
1,2-Dichloroethane	U		0.00180	0.00500	5	05/02/2017 08:09	WG975625
1,1-Dichloroethene	U		0.00199	0.00500	5	05/02/2017 08:09	WG975625
cis-1,2-Dichloroethene	U		0.00130	0.00500	5	05/02/2017 08:09	WG975625
trans-1,2-Dichloroethene	U		0.00198	0.00500	5	05/02/2017 08:09	WG975625
1,2-Dichloropropane	U		0.00153	0.00500	5	05/02/2017 08:09	WG975625
cis-1,3-Dichloropropene	U		0.00209	0.00500	5	05/02/2017 08:09	WG975625
trans-1,3-Dichloropropene	U		0.00210	0.00500	5	05/02/2017 08:09	WG975625
Ethylbenzene	0.0262		0.00192	0.00500	5	05/02/2017 08:09	WG975625
Isopropylbenzene	0.0536		0.00163	0.00500	5	05/02/2017 08:09	WG975625
p-Isopropyltoluene	0.00412	J	0.00175	0.00500	5	05/02/2017 08:09	WG975625
2-Butanone (MEK)	U		0.0196	0.0500	5	05/02/2017 08:09	WG975625
2-Hexanone	U		0.0191	0.0500	5	05/02/2017 08:09	WG975625
Methylene Chloride	U		0.00500	0.0250	5	05/02/2017 08:09	WG975625
4-Methyl-2-pentanone (MIBK)	U		0.0107	0.0500	5	05/02/2017 08:09	WG975625
Methyl tert-butyl ether	U		0.00184	0.00500	5	05/02/2017 08:09	WG975625
Naphthalene	U		0.00500	0.0250	5	05/02/2017 08:09	WG975625
n-Propylbenzene	0.0589		0.00174	0.00500	5	05/02/2017 08:09	WG975625
Styrene	U		0.00154	0.00500	5	05/02/2017 08:09	WG975625
1,1,1,2-Tetrachloroethane	U		0.00192	0.00500	5	05/02/2017 08:09	WG975625
1,1,2,2-Tetrachloroethane	U		0.000650	0.00500	5	05/02/2017 08:09	WG975625
Tetrachloroethene	U		0.00186	0.00500	5	05/02/2017 08:09	WG975625
Toluene	0.00378	J	0.00206	0.00500	5	05/02/2017 08:09	WG975625
1,1,1-Trichloroethane	U		0.00160	0.00500	5	05/02/2017 08:09	WG975625
1,1,2-Trichloroethane	U		0.00192	0.00500	5	05/02/2017 08:09	WG975625
Trichloroethene	U		0.00199	0.00500	5	05/02/2017 08:09	WG975625
1,2,4-Trimethylbenzene	0.0193		0.00186	0.00500	5	05/02/2017 08:09	WG975625
1,3,5-Trimethylbenzene	U		0.00194	0.00500	5	05/02/2017 08:09	WG975625
Vinyl chloride	U		0.00130	0.00500	5	05/02/2017 08:09	WG975625
o-Xylene	U		0.00170	0.00500	5	05/02/2017 08:09	WG975625
m&p-Xylene	0.0161		0.00360	0.0100	5	05/02/2017 08:09	WG975625
Xylenes, Total	0.0161		0.00530	0.0150	5	05/02/2017 08:09	WG975625
(S) Toluene-d8	*104*			*80.0-120*		*05/02/2017 08:09*	WG975625
(S) Dibromofluoromethane	*103*			*76.0-123*		*05/02/2017 08:09*	WG975625
(S) 4-Bromofluorobenzene	*93.0*			*80.0-120*		*05/02/2017 08:09*	WG975625

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	2.53		0.0247	0.100	1	05/02/2017 14:36	WG975552
(S) o-Terphenyl	*106*			*31.0-160*		*05/02/2017 14:36*	WG975552

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Dissolved Solids	2420	J3	2.82	10.0	1	05/03/2017 14:39	WG975911

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	U		0.197	1.00	10	05/04/2017 14:31	WG975897

Sample Narrative:

353.2 L905668-53 WG975897: 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	189		2.60	50.0	50	05/03/2017 16:35	WG975914
Fluoride	0.623		0.00990	0.100	1	05/03/2017 15:48	WG975914
Sulfate	1740		3.87	250	50	05/03/2017 16:35	WG975914

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.000503	J	0.000250	0.00200	1	05/04/2017 11:55	WG975078
Arsenic,Dissolved	0.000617	J	0.000250	0.00200	1	05/02/2017 22:48	WG975069
Barium	0.0409		0.000360	0.00500	1	05/04/2017 11:55	WG975078
Barium,Dissolved	0.0410		0.000360	0.00500	1	05/02/2017 22:48	WG975069
Calcium	392		0.0460	1.00	1	05/04/2017 11:55	WG975078
Chromium	0.0359		0.000540	0.00200	1	05/04/2017 11:55	WG975078
Chromium,Dissolved	0.0230		0.000540	0.00200	1	05/02/2017 22:48	WG975069
Iron	0.241		0.0150	0.100	1	05/04/2017 11:55	WG975078
Iron,Dissolved	U		0.0150	0.100	1	05/02/2017 22:48	WG975069
Lead	0.00193	J	0.000240	0.00200	1	05/04/2017 11:55	WG975078
Lead,Dissolved	0.000776	J	0.000240	0.00200	1	05/02/2017 22:48	WG975069
Manganese	0.398		0.000250	0.00500	1	05/04/2017 11:55	WG975078
Manganese,Dissolved	0.425		0.000250	0.00500	1	05/02/2017 22:48	WG975069
Potassium	0.293	J	0.0370	1.00	1	05/04/2017 11:55	WG975078
Selenium	U		0.000380	0.00200	1	05/04/2017 11:55	WG975078
Selenium,Dissolved	0.000720	B J	0.000380	0.00200	1	05/02/2017 22:48	WG975069
Sodium	152		0.110	1.00	1	05/04/2017 11:55	WG975078

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		0.0500	0.250	5	05/03/2017 19:17	WG975625
Benzene	0.335		0.00166	0.00500	5	05/03/2017 19:17	WG975625
Bromodichloromethane	U		0.00190	0.00500	5	05/03/2017 19:17	WG975625
Bromoform	U		0.00234	0.00500	5	05/03/2017 19:17	WG975625
Bromomethane	U		0.00433	0.0250	5	05/03/2017 19:17	WG975625
n-Butylbenzene	U		0.00180	0.00500	5	05/03/2017 19:17	WG975625
sec-Butylbenzene	0.0104		0.00182	0.00500	5	05/03/2017 19:17	WG975625
Carbon disulfide	0.00142	J	0.00138	0.00500	5	05/03/2017 19:17	WG975625
Carbon tetrachloride	U		0.00190	0.00500	5	05/03/2017 19:17	WG975625
Chlorobenzene	U		0.00174	0.00500	5	05/03/2017 19:17	WG975625
Chlorodibromomethane	U		0.00164	0.00500	5	05/03/2017 19:17	WG975625
Chloroethane	U		0.00226	0.0250	5	05/03/2017 19:17	WG975625
Chloroform	U		0.00162	0.0250	5	05/03/2017 19:17	WG975625

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

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloromethane	U		0.00138	0.0125	5	05/03/2017 19:17	WG975625
1,2-Dibromoethane	U		0.00190	0.00500	5	05/03/2017 19:17	WG975625
1,1-Dichloroethane	U		0.00130	0.00500	5	05/03/2017 19:17	WG975625
1,2-Dichloroethane	U		0.00180	0.00500	5	05/03/2017 19:17	WG975625
1,1-Dichloroethene	U		0.00199	0.00500	5	05/03/2017 19:17	WG975625
cis-1,2-Dichloroethene	U		0.00130	0.00500	5	05/03/2017 19:17	WG975625
trans-1,2-Dichloroethene	U		0.00198	0.00500	5	05/03/2017 19:17	WG975625
1,2-Dichloropropane	U		0.00153	0.00500	5	05/03/2017 19:17	WG975625
cis-1,3-Dichloropropene	U		0.00209	0.00500	5	05/03/2017 19:17	WG975625
trans-1,3-Dichloropropene	U		0.00210	0.00500	5	05/03/2017 19:17	WG975625
Ethylbenzene	0.00823		0.00192	0.00500	5	05/03/2017 19:17	WG975625
Isopropylbenzene	0.0591		0.00163	0.00500	5	05/03/2017 19:17	WG975625
p-Isopropyltoluene	0.00214	J	0.00175	0.00500	5	05/03/2017 19:17	WG975625
2-Butanone (MEK)	U		0.0196	0.0500	5	05/03/2017 19:17	WG975625
2-Hexanone	U		0.0191	0.0500	5	05/03/2017 19:17	WG975625
Methylene Chloride	U		0.00500	0.0250	5	05/03/2017 19:17	WG975625
4-Methyl-2-pentanone (MIBK)	U		0.0107	0.0500	5	05/03/2017 19:17	WG975625
Methyl tert-butyl ether	0.00210	J	0.00184	0.00500	5	05/03/2017 19:17	WG975625
Naphthalene	0.00877	J	0.00500	0.0250	5	05/03/2017 19:17	WG975625
n-Propylbenzene	0.0809		0.00174	0.00500	5	05/03/2017 19:17	WG975625
Styrene	U		0.00154	0.00500	5	05/03/2017 19:17	WG975625
1,1,1,2-Tetrachloroethane	U		0.00192	0.00500	5	05/03/2017 19:17	WG975625
1,1,2,2-Tetrachloroethane	U		0.000650	0.00500	5	05/03/2017 19:17	WG975625
Tetrachloroethene	U		0.00186	0.00500	5	05/03/2017 19:17	WG975625
Toluene	0.00354	J	0.00206	0.00500	5	05/03/2017 19:17	WG975625
1,1,1-Trichloroethane	U		0.00160	0.00500	5	05/03/2017 19:17	WG975625
1,1,2-Trichloroethane	U		0.00192	0.00500	5	05/03/2017 19:17	WG975625
Trichloroethene	U		0.00199	0.00500	5	05/03/2017 19:17	WG975625
1,2,4-Trimethylbenzene	0.0338		0.00186	0.00500	5	05/03/2017 19:17	WG975625
1,3,5-Trimethylbenzene	U		0.00194	0.00500	5	05/03/2017 19:17	WG975625
Vinyl chloride	U		0.00130	0.00500	5	05/03/2017 19:17	WG975625
o-Xylene	0.00177	J	0.00170	0.00500	5	05/03/2017 19:17	WG975625
m&p-Xylene	0.0239		0.00360	0.0100	5	05/03/2017 19:17	WG975625
Xylenes, Total	0.0257		0.00530	0.0150	5	05/03/2017 19:17	WG975625
(S) Toluene-d8	*103*			*80.0-120*		*05/03/2017 19:17*	WG975625
(S) Dibromofluoromethane	*99.0*			*76.0-123*		*05/03/2017 19:17*	WG975625
(S) 4-Bromofluorobenzene	*100*			*80.0-120*		*05/03/2017 19:17*	WG975625

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	1.61		0.0247	0.100	1	05/02/2017 14:53	WG975552
(S) o-Terphenyl	*78.2*			*31.0-160*		*05/02/2017 14:53*	WG975552

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Dissolved Solids	2140		2.82	10.0	1	05/03/2017 14:39	WG975911

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	U		0.197	1.00	10	05/04/2017 14:32	WG975897

Sample Narrative:

353.2 L905668-54 WG975897: 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	193		2.60	50.0	50	05/03/2017 18:08	WG975914
Fluoride	0.459		0.00990	0.100	1	05/03/2017 17:10	WG975914
Sulfate	1070		3.87	250	50	05/03/2017 18:08	WG975914

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.00284		0.000250	0.00200	1	05/04/2017 11:58	WG975078
Arsenic,Dissolved	0.00264		0.000250	0.00200	1	05/02/2017 22:52	WG975069
Barium	0.0257		0.000360	0.00500	1	05/04/2017 11:58	WG975078
Barium,Dissolved	0.0251		0.000360	0.00500	1	05/02/2017 22:52	WG975069
Calcium	304		0.0460	1.00	1	05/04/2017 11:58	WG975078
Chromium	U		0.000540	0.00200	1	05/04/2017 11:58	WG975078
Chromium,Dissolved	U		0.000540	0.00200	1	05/02/2017 22:52	WG975069
Iron	0.512		0.0150	0.100	1	05/04/2017 11:58	WG975078
Iron,Dissolved	U		0.0150	0.100	1	05/02/2017 22:52	WG975069
Lead	U		0.000240	0.00200	1	05/04/2017 11:58	WG975078
Lead,Dissolved	U		0.000240	0.00200	1	05/02/2017 22:52	WG975069
Manganese	1.08		0.000250	0.00500	1	05/04/2017 11:58	WG975078
Manganese,Dissolved	1.14		0.000250	0.00500	1	05/02/2017 22:52	WG975069
Potassium	0.525	J	0.0370	1.00	1	05/04/2017 11:58	WG975078
Selenium	U		0.000380	0.00200	1	05/04/2017 11:58	WG975078
Selenium,Dissolved	0.000664	B J	0.000380	0.00200	1	05/02/2017 22:52	WG975069
Sodium	158		0.110	1.00	1	05/04/2017 11:58	WG975078

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	0.984		0.0314	0.100	1	05/01/2017 01:56	WG975304
(S) a,a,a-Trifluorotoluene(FID)	*96.5*			*77.0-122*		*05/01/2017 01:56*	WG975304

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	0.0424	J	0.0100	0.0500	1	05/02/2017 08:53	WG975625
Benzene	0.0136		0.000331	0.00100	1	05/02/2017 08:53	WG975625
Bromodichloromethane	U		0.000380	0.00100	1	05/02/2017 08:53	WG975625
Bromoform	U		0.000469	0.00100	1	05/02/2017 08:53	WG975625
Bromomethane	U		0.000866	0.00500	1	05/02/2017 08:53	WG975625
n-Butylbenzene	U		0.000361	0.00100	1	05/02/2017 08:53	WG975625

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	0.000379	J	0.000365	0.00100	1	05/02/2017 08:53	WG975625
Carbon disulfide	U		0.000275	0.00100	1	05/02/2017 08:53	WG975625
Carbon tetrachloride	U		0.000379	0.00100	1	05/02/2017 08:53	WG975625
Chlorobenzene	U		0.000348	0.00100	1	05/02/2017 08:53	WG975625
Chlorodibromomethane	U		0.000327	0.00100	1	05/02/2017 08:53	WG975625
Chloroethane	U		0.000453	0.00500	1	05/02/2017 08:53	WG975625
Chloroform	U		0.000324	0.00500	1	05/02/2017 08:53	WG975625
Chloromethane	U		0.000276	0.00250	1	05/02/2017 08:53	WG975625
1,2-Dibromoethane	U		0.000381	0.00100	1	05/02/2017 08:53	WG975625
1,1-Dichloroethane	U		0.000259	0.00100	1	05/02/2017 08:53	WG975625
1,2-Dichloroethane	U		0.000361	0.00100	1	05/02/2017 08:53	WG975625
1,1-Dichloroethene	U		0.000398	0.00100	1	05/02/2017 08:53	WG975625
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	05/02/2017 08:53	WG975625
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	05/02/2017 08:53	WG975625
1,2-Dichloropropane	U		0.000306	0.00100	1	05/02/2017 08:53	WG975625
cis-1,3-Dichloropropene	U		0.000418	0.00100	1	05/02/2017 08:53	WG975625
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	05/02/2017 08:53	WG975625
Ethylbenzene	0.00840		0.000384	0.00100	1	05/02/2017 08:53	WG975625
Isopropylbenzene	0.000441	J	0.000326	0.00100	1	05/02/2017 08:53	WG975625
p-Isopropyltoluene	U		0.000350	0.00100	1	05/02/2017 08:53	WG975625
2-Butanone (MEK)	U		0.00393	0.0100	1	05/02/2017 08:53	WG975625
2-Hexanone	U		0.00382	0.0100	1	05/02/2017 08:53	WG975625
Methylene Chloride	U		0.00100	0.00500	1	05/02/2017 08:53	WG975625
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	05/02/2017 08:53	WG975625
Methyl tert-butyl ether	0.0147		0.000367	0.00100	1	05/02/2017 08:53	WG975625
Naphthalene	0.00157	J	0.00100	0.00500	1	05/02/2017 08:53	WG975625
n-Propylbenzene	0.000359	J	0.000349	0.00100	1	05/02/2017 08:53	WG975625
Styrene	U		0.000307	0.00100	1	05/02/2017 08:53	WG975625
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	05/02/2017 08:53	WG975625
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	05/02/2017 08:53	WG975625
Tetrachloroethene	U		0.000372	0.00100	1	05/02/2017 08:53	WG975625
Toluene	U		0.000412	0.00100	1	05/02/2017 08:53	WG975625
1,1,1-Trichloroethane	U		0.000319	0.00100	1	05/02/2017 08:53	WG975625
1,1,2-Trichloroethane	U		0.000383	0.00100	1	05/02/2017 08:53	WG975625
Trichloroethene	U		0.000398	0.00100	1	05/02/2017 08:53	WG975625
1,2,4-Trimethylbenzene	0.00389		0.000373	0.00100	1	05/02/2017 08:53	WG975625
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	05/02/2017 08:53	WG975625
Vinyl chloride	U		0.000259	0.00100	1	05/02/2017 08:53	WG975625
o-Xylene	U		0.000341	0.00100	1	05/02/2017 08:53	WG975625
m&p-Xylene	0.0133		0.000719	0.00200	1	05/02/2017 08:53	WG975625
Xylenes, Total	0.0133		0.00106	0.00300	1	05/02/2017 08:53	WG975625
(S) Toluene-d8	*102*			*80.0-120*		*05/02/2017 08:53*	WG975625
(S) Dibromofluoromethane	*105*			*76.0-123*		*05/02/2017 08:53*	WG975625
(S) 4-Bromofluorobenzene	*91.7*			*80.0-120*		*05/02/2017 08:53*	WG975625

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	0.169		0.0247	0.100	1	05/02/2017 15:09	WG975552
(S) o-Terphenyl	*66.0*			*31.0-160*		*05/02/2017 15:09*	WG975552

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Dissolved Solids	937		2.82	10.0	1	05/03/2017 14:39	WG975911

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	0.447	J	0.197	1.00	10	05/04/2017 14:33	WG975897

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	15.0		0.0519	1.00	1	05/03/2017 17:22	WG975914
Fluoride	0.893		0.00990	0.100	1	05/03/2017 17:22	WG975914
Sulfate	455		3.87	250	50	05/03/2017 18:20	WG975914

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Calcium	167		0.0460	1.00	1	05/04/2017 12:17	WG975078
Potassium	1.26		0.0370	1.00	1	05/04/2017 12:17	WG975078
Sodium	16.4		0.110	1.00	1	05/04/2017 12:17	WG975078

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		0.0100	0.0500	1	05/02/2017 09:15	WG975625
Benzene	U		0.000331	0.00100	1	05/02/2017 09:15	WG975625
Bromodichloromethane	U		0.000380	0.00100	1	05/02/2017 09:15	WG975625
Bromoform	U		0.000469	0.00100	1	05/02/2017 09:15	WG975625
Bromomethane	U		0.000866	0.00500	1	05/02/2017 09:15	WG975625
n-Butylbenzene	U		0.000361	0.00100	1	05/02/2017 09:15	WG975625
sec-Butylbenzene	U		0.000365	0.00100	1	05/02/2017 09:15	WG975625
Carbon disulfide	U		0.000275	0.00100	1	05/02/2017 09:15	WG975625
Carbon tetrachloride	U		0.000379	0.00100	1	05/02/2017 09:15	WG975625
Chlorobenzene	U		0.000348	0.00100	1	05/02/2017 09:15	WG975625
Chlorodibromomethane	U		0.000327	0.00100	1	05/02/2017 09:15	WG975625
Chloroethane	U		0.000453	0.00500	1	05/02/2017 09:15	WG975625
Chloroform	U		0.000324	0.00500	1	05/02/2017 09:15	WG975625
Chloromethane	U		0.000276	0.00250	1	05/02/2017 09:15	WG975625
1,2-Dibromoethane	U		0.000381	0.00100	1	05/02/2017 09:15	WG975625
1,1-Dichloroethane	U		0.000259	0.00100	1	05/02/2017 09:15	WG975625
1,2-Dichloroethane	U		0.000361	0.00100	1	05/02/2017 09:15	WG975625
1,1-Dichloroethene	U		0.000398	0.00100	1	05/02/2017 09:15	WG975625
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	05/02/2017 09:15	WG975625
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	05/02/2017 09:15	WG975625
1,2-Dichloropropane	U		0.000306	0.00100	1	05/02/2017 09:15	WG975625
cis-1,3-Dichloropropene	U		0.000418	0.00100	1	05/02/2017 09:15	WG975625
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	05/02/2017 09:15	WG975625
Ethylbenzene	U		0.000384	0.00100	1	05/02/2017 09:15	WG975625
Isopropylbenzene	U		0.000326	0.00100	1	05/02/2017 09:15	WG975625
p-Isopropyltoluene	U		0.000350	0.00100	1	05/02/2017 09:15	WG975625
2-Butanone (MEK)	U		0.00393	0.0100	1	05/02/2017 09:15	WG975625
2-Hexanone	U		0.00382	0.0100	1	05/02/2017 09:15	WG975625
Methylene Chloride	U		0.00100	0.00500	1	05/02/2017 09:15	WG975625
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	05/02/2017 09:15	WG975625

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		0.000367	0.00100	1	05/02/2017 09:15	WG975625
Naphthalene	U		0.00100	0.00500	1	05/02/2017 09:15	WG975625
n-Propylbenzene	U		0.000349	0.00100	1	05/02/2017 09:15	WG975625
Styrene	U		0.000307	0.00100	1	05/02/2017 09:15	WG975625
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	05/02/2017 09:15	WG975625
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	05/02/2017 09:15	WG975625
Tetrachloroethene	U		0.000372	0.00100	1	05/02/2017 09:15	WG975625
Toluene	U		0.000412	0.00100	1	05/02/2017 09:15	WG975625
1,1,1-Trichloroethane	U		0.000319	0.00100	1	05/02/2017 09:15	WG975625
1,1,2-Trichloroethane	U		0.000383	0.00100	1	05/02/2017 09:15	WG975625
Trichloroethene	U		0.000398	0.00100	1	05/02/2017 09:15	WG975625
1,2,4-Trimethylbenzene	U		0.000373	0.00100	1	05/02/2017 09:15	WG975625
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	05/02/2017 09:15	WG975625
Vinyl chloride	U		0.000259	0.00100	1	05/02/2017 09:15	WG975625
o-Xylene	U		0.000341	0.00100	1	05/02/2017 09:15	WG975625
m&p-Xylene	U		0.000719	0.00200	1	05/02/2017 09:15	WG975625
Xylenes, Total	U		0.00106	0.00300	1	05/02/2017 09:15	WG975625
(S) Toluene-d8	*105*			*80.0-120*		*05/02/2017 09:15*	WG975625
(S) Dibromofluoromethane	*107*			*76.0-123*		*05/02/2017 09:15*	WG975625
(S) 4-Bromofluorobenzene	*94.4*			*80.0-120*		*05/02/2017 09:15*	WG975625

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Dissolved Solids	4190		2.82	10.0	1	05/03/2017 14:39	WG975911

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	U		0.197	1.00	10	05/04/2017 14:34	WG975897

Sample Narrative:

353.2 L905668-56 WG975897: 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	304		2.60	50.0	50	05/03/2017 18:32	WG975914
Fluoride	1.51		0.00990	0.100	1	05/03/2017 17:33	WG975914
Sulfate	2770		3.87	250	50	05/03/2017 18:32	WG975914

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.00336		0.000250	0.00200	1	05/04/2017 12:21	WG975078
Arsenic,Dissolved	0.00303		0.000250	0.00200	1	05/02/2017 22:56	WG975069
Barium	0.00809		0.000360	0.00500	1	05/04/2017 12:21	WG975078
Barium,Dissolved	0.00816		0.000360	0.00500	1	05/02/2017 22:56	WG975069
Calcium	394		0.0460	1.00	1	05/04/2017 12:21	WG975078
Chromium	U		0.000540	0.00200	1	05/04/2017 12:21	WG975078
Chromium,Dissolved	U		0.000540	0.00200	1	05/02/2017 22:56	WG975069
Iron	0.0381	J	0.0150	0.100	1	05/04/2017 12:21	WG975078
Iron,Dissolved	U		0.0150	0.100	1	05/02/2017 22:56	WG975069
Lead	U		0.000240	0.00200	1	05/04/2017 12:21	WG975078
Lead,Dissolved	U		0.000240	0.00200	1	05/02/2017 22:56	WG975069
Manganese	0.0455		0.000250	0.00500	1	05/04/2017 12:21	WG975078
Manganese,Dissolved	0.0436		0.000250	0.00500	1	05/02/2017 22:56	WG975069
Potassium	0.514	J	0.0370	1.00	1	05/04/2017 12:21	WG975078
Selenium	U		0.000380	0.00200	1	05/04/2017 12:21	WG975078
Selenium,Dissolved	0.00108	B J	0.000380	0.00200	1	05/02/2017 22:56	WG975069
Sodium	183		0.110	1.00	1	05/04/2017 12:21	WG975078

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	05/01/2017 02:18	WG975304
(S) a,a,a-Trifluorotoluene(FID)	*95.1*			*77.0-122*		*05/01/2017 02:18*	WG975304

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		0.0100	0.0500	1	05/02/2017 09:37	WG975625
Benzene	U		0.000331	0.00100	1	05/02/2017 09:37	WG975625
Bromodichloromethane	U		0.000380	0.00100	1	05/02/2017 09:37	WG975625
Bromoform	U		0.000469	0.00100	1	05/02/2017 09:37	WG975625
Bromomethane	U		0.000866	0.00500	1	05/02/2017 09:37	WG975625
n-Butylbenzene	U		0.000361	0.00100	1	05/02/2017 09:37	WG975625

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		0.000365	0.00100	1	05/02/2017 09:37	WG975625
Carbon disulfide	U		0.000275	0.00100	1	05/02/2017 09:37	WG975625
Carbon tetrachloride	U		0.000379	0.00100	1	05/02/2017 09:37	WG975625
Chlorobenzene	U		0.000348	0.00100	1	05/02/2017 09:37	WG975625
Chlorodibromomethane	U		0.000327	0.00100	1	05/02/2017 09:37	WG975625
Chloroethane	U		0.000453	0.00500	1	05/02/2017 09:37	WG975625
Chloroform	U		0.000324	0.00500	1	05/02/2017 09:37	WG975625
Chloromethane	U		0.000276	0.00250	1	05/02/2017 09:37	WG975625
1,2-Dibromoethane	U		0.000381	0.00100	1	05/02/2017 09:37	WG975625
1,1-Dichloroethane	U		0.000259	0.00100	1	05/02/2017 09:37	WG975625
1,2-Dichloroethane	U		0.000361	0.00100	1	05/02/2017 09:37	WG975625
1,1-Dichloroethene	U		0.000398	0.00100	1	05/02/2017 09:37	WG975625
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	05/02/2017 09:37	WG975625
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	05/02/2017 09:37	WG975625
1,2-Dichloropropane	U		0.000306	0.00100	1	05/02/2017 09:37	WG975625
cis-1,3-Dichloropropene	U		0.000418	0.00100	1	05/02/2017 09:37	WG975625
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	05/02/2017 09:37	WG975625
Ethylbenzene	U		0.000384	0.00100	1	05/02/2017 09:37	WG975625
Isopropylbenzene	U		0.000326	0.00100	1	05/02/2017 09:37	WG975625
p-Isopropyltoluene	U		0.000350	0.00100	1	05/02/2017 09:37	WG975625
2-Butanone (MEK)	U		0.00393	0.0100	1	05/02/2017 09:37	WG975625
2-Hexanone	U		0.00382	0.0100	1	05/02/2017 09:37	WG975625
Methylene Chloride	U		0.00100	0.00500	1	05/02/2017 09:37	WG975625
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	05/02/2017 09:37	WG975625
Methyl tert-butyl ether	U		0.000367	0.00100	1	05/02/2017 09:37	WG975625
Naphthalene	U		0.00100	0.00500	1	05/02/2017 09:37	WG975625
n-Propylbenzene	U		0.000349	0.00100	1	05/02/2017 09:37	WG975625
Styrene	U		0.000307	0.00100	1	05/02/2017 09:37	WG975625
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	05/02/2017 09:37	WG975625
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	05/02/2017 09:37	WG975625
Tetrachloroethene	U		0.000372	0.00100	1	05/02/2017 09:37	WG975625
Toluene	U		0.000412	0.00100	1	05/02/2017 09:37	WG975625
1,1,1-Trichloroethane	U		0.000319	0.00100	1	05/02/2017 09:37	WG975625
1,1,2-Trichloroethane	U		0.000383	0.00100	1	05/02/2017 09:37	WG975625
Trichloroethene	U		0.000398	0.00100	1	05/02/2017 09:37	WG975625
1,2,4-Trimethylbenzene	U		0.000373	0.00100	1	05/02/2017 09:37	WG975625
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	05/02/2017 09:37	WG975625
Vinyl chloride	U		0.000259	0.00100	1	05/02/2017 09:37	WG975625
o-Xylene	U		0.000341	0.00100	1	05/02/2017 09:37	WG975625
m&p-Xylene	U		0.000719	0.00200	1	05/02/2017 09:37	WG975625
Xylenes, Total	U		0.00106	0.00300	1	05/02/2017 09:37	WG975625
(S) Toluene-d8	*106*			*80.0-120*		*05/02/2017 09:37*	WG975625
(S) Dibromofluoromethane	*109*			*76.0-123*		*05/02/2017 09:37*	WG975625
(S) 4-Bromofluorobenzene	*93.7*			*80.0-120*		*05/02/2017 09:37*	WG975625

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	0.0657	J	0.0247	0.100	1	05/02/2017 15:26	WG975552
(S) o-Terphenyl	*63.1*			*31.0-160*		*05/02/2017 15:26*	WG975552

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Dissolved Solids	3480		2.82	10.0	1	05/03/2017 14:39	WG975911

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	0.260	J J5	0.197	1.00	10	05/04/2017 14:39	WG975897

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	266		2.60	50.0	50	05/03/2017 18:43	WG975914
Fluoride	1.78		0.00990	0.100	1	05/03/2017 17:45	WG975914
Sulfate	2350		3.87	250	50	05/03/2017 18:43	WG975914

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.00262		0.000250	0.00200	1	05/04/2017 12:24	WG975078
Arsenic,Dissolved	0.00252		0.000250	0.00200	1	05/02/2017 22:59	WG975069
Barium	0.0138		0.000360	0.00500	1	05/04/2017 12:24	WG975078
Barium,Dissolved	0.0147		0.000360	0.00500	1	05/02/2017 22:59	WG975069
Calcium	599		0.0460	1.00	1	05/04/2017 12:24	WG975078
Chromium	U		0.000540	0.00200	1	05/04/2017 12:24	WG975078
Chromium,Dissolved	U		0.000540	0.00200	1	05/02/2017 22:59	WG975069
Iron	U		0.0150	0.100	1	05/04/2017 12:24	WG975078
Iron,Dissolved	U		0.0150	0.100	1	05/02/2017 22:59	WG975069
Lead	U		0.000240	0.00200	1	05/04/2017 12:24	WG975078
Lead,Dissolved	U		0.000240	0.00200	1	05/02/2017 22:59	WG975069
Manganese	0.944		0.000250	0.00500	1	05/04/2017 12:24	WG975078
Manganese,Dissolved	1.01		0.000250	0.00500	1	05/02/2017 22:59	WG975069
Potassium	2.83		0.0370	1.00	1	05/04/2017 12:24	WG975078
Selenium	0.00129	J	0.000380	0.00200	1	05/04/2017 12:24	WG975078
Selenium,Dissolved	0.00152	B J	0.000380	0.00200	1	05/02/2017 22:59	WG975069
Sodium	131		0.110	1.00	1	05/04/2017 12:24	WG975078

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	05/01/2017 02:40	WG975304
(S) a,a,a-Trifluorotoluene(FID)	*95.9*			*77.0-122*		*05/01/2017 02:40*	WG975304

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		0.0100	0.0500	1	05/02/2017 09:59	WG975625
Benzene	U		0.000331	0.00100	1	05/02/2017 09:59	WG975625
Bromodichloromethane	U		0.000380	0.00100	1	05/02/2017 09:59	WG975625
Bromoform	U		0.000469	0.00100	1	05/02/2017 09:59	WG975625
Bromomethane	U		0.000866	0.00500	1	05/02/2017 09:59	WG975625
n-Butylbenzene	U		0.000361	0.00100	1	05/02/2017 09:59	WG975625
sec-Butylbenzene	U		0.000365	0.00100	1	05/02/2017 09:59	WG975625
Carbon disulfide	U		0.000275	0.00100	1	05/02/2017 09:59	WG975625
Carbon tetrachloride	U		0.000379	0.00100	1	05/02/2017 09:59	WG975625

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chlorobenzene	U		0.000348	0.00100	1	05/02/2017 09:59	WG975625
Chlorodibromomethane	U		0.000327	0.00100	1	05/02/2017 09:59	WG975625
Chloroethane	U		0.000453	0.00500	1	05/02/2017 09:59	WG975625
Chloroform	U		0.000324	0.00500	1	05/02/2017 09:59	WG975625
Chloromethane	U		0.000276	0.00250	1	05/02/2017 09:59	WG975625
1,2-Dibromoethane	U		0.000381	0.00100	1	05/02/2017 09:59	WG975625
1,1-Dichloroethane	U		0.000259	0.00100	1	05/02/2017 09:59	WG975625
1,2-Dichloroethane	U		0.000361	0.00100	1	05/02/2017 09:59	WG975625
1,1-Dichloroethene	U		0.000398	0.00100	1	05/02/2017 09:59	WG975625
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	05/02/2017 09:59	WG975625
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	05/02/2017 09:59	WG975625
1,2-Dichloropropane	U		0.000306	0.00100	1	05/02/2017 09:59	WG975625
cis-1,3-Dichloropropene	U		0.000418	0.00100	1	05/02/2017 09:59	WG975625
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	05/02/2017 09:59	WG975625
Ethylbenzene	U		0.000384	0.00100	1	05/02/2017 09:59	WG975625
Isopropylbenzene	U		0.000326	0.00100	1	05/02/2017 09:59	WG975625
p-Isopropyltoluene	U		0.000350	0.00100	1	05/02/2017 09:59	WG975625
2-Butanone (MEK)	U		0.00393	0.0100	1	05/02/2017 09:59	WG975625
2-Hexanone	U		0.00382	0.0100	1	05/02/2017 09:59	WG975625
Methylene Chloride	U		0.00100	0.00500	1	05/02/2017 09:59	WG975625
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	05/02/2017 09:59	WG975625
Methyl tert-butyl ether	U		0.000367	0.00100	1	05/02/2017 09:59	WG975625
Naphthalene	U		0.00100	0.00500	1	05/02/2017 09:59	WG975625
n-Propylbenzene	U		0.000349	0.00100	1	05/02/2017 09:59	WG975625
Styrene	U		0.000307	0.00100	1	05/02/2017 09:59	WG975625
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	05/02/2017 09:59	WG975625
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	05/02/2017 09:59	WG975625
Tetrachloroethene	U		0.000372	0.00100	1	05/02/2017 09:59	WG975625
Toluene	U		0.000412	0.00100	1	05/02/2017 09:59	WG975625
1,1,1-Trichloroethane	U		0.000319	0.00100	1	05/02/2017 09:59	WG975625
1,1,2-Trichloroethane	U		0.000383	0.00100	1	05/02/2017 09:59	WG975625
Trichloroethene	U		0.000398	0.00100	1	05/02/2017 09:59	WG975625
1,2,4-Trimethylbenzene	U		0.000373	0.00100	1	05/02/2017 09:59	WG975625
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	05/02/2017 09:59	WG975625
Vinyl chloride	U		0.000259	0.00100	1	05/02/2017 09:59	WG975625
o-Xylene	U		0.000341	0.00100	1	05/02/2017 09:59	WG975625
m&p-Xylene	U		0.000719	0.00200	1	05/02/2017 09:59	WG975625
Xylenes, Total	U		0.00106	0.00300	1	05/02/2017 09:59	WG975625
(S) Toluene-d8	*106*			*80.0-120*		*05/02/2017 09:59*	WG975625
(S) Dibromofluoromethane	*109*			*76.0-123*		*05/02/2017 09:59*	WG975625
(S) 4-Bromofluorobenzene	*91.9*			*80.0-120*		*05/02/2017 09:59*	WG975625

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	05/02/2017 15:42	WG975552
(S) o-Terphenyl	*60.8*			*31.0-160*		*05/02/2017 15:42*	WG975552

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Dissolved Solids	2850		2.82	10.0	1	05/03/2017 14:39	WG975911

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	0.509	J	0.197	1.00	10	05/04/2017 14:43	WG975897

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	271		2.60	50.0	50	05/03/2017 18:55	WG975914
Fluoride	0.804		0.00990	0.100	1	05/03/2017 17:57	WG975914
Sulfate	1780		3.87	250	50	05/03/2017 18:55	WG975914

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.00171	J	0.000250	0.00200	1	05/04/2017 12:28	WG975078
Arsenic,Dissolved	0.00160	J	0.000250	0.00200	1	05/02/2017 23:03	WG975069
Barium	0.0157		0.000360	0.00500	1	05/04/2017 12:28	WG975078
Barium,Dissolved	0.0171		0.000360	0.00500	1	05/02/2017 23:03	WG975069
Calcium	369		0.0460	1.00	1	05/04/2017 12:28	WG975078
Chromium	U		0.000540	0.00200	1	05/04/2017 12:28	WG975078
Chromium,Dissolved	U		0.000540	0.00200	1	05/02/2017 23:03	WG975069
Iron	0.602		0.0150	0.100	1	05/04/2017 12:28	WG975078
Iron,Dissolved	U		0.0150	0.100	1	05/02/2017 23:03	WG975069
Lead	U		0.000240	0.00200	1	05/04/2017 12:28	WG975078
Lead,Dissolved	U		0.000240	0.00200	1	05/02/2017 23:03	WG975069
Manganese	0.821		0.000250	0.00500	1	05/04/2017 12:28	WG975078
Manganese,Dissolved	0.880		0.000250	0.00500	1	05/02/2017 23:03	WG975069
Potassium	0.584	J	0.0370	1.00	1	05/04/2017 12:28	WG975078
Selenium	U		0.000380	0.00200	1	05/04/2017 12:28	WG975078
Selenium,Dissolved	0.000761	B J	0.000380	0.00200	1	05/02/2017 23:03	WG975069
Sodium	193		0.110	1.00	1	05/04/2017 12:28	WG975078

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	0.209		0.0314	0.100	1	05/01/2017 03:02	WG975304
(S) a,a,a-Trifluorotoluene(FID)	*95.8*			*77.0-122*		*05/01/2017 03:02*	WG975304

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		0.0100	0.0500	1	05/02/2017 10:20	WG975625
Benzene	0.000354	J	0.000331	0.00100	1	05/02/2017 10:20	WG975625
Bromodichloromethane	U		0.000380	0.00100	1	05/02/2017 10:20	WG975625
Bromoform	U		0.000469	0.00100	1	05/02/2017 10:20	WG975625
Bromomethane	U		0.000866	0.00500	1	05/02/2017 10:20	WG975625
n-Butylbenzene	U		0.000361	0.00100	1	05/02/2017 10:20	WG975625
sec-Butylbenzene	0.000715	J	0.000365	0.00100	1	05/02/2017 10:20	WG975625
Carbon disulfide	U		0.000275	0.00100	1	05/02/2017 10:20	WG975625
Carbon tetrachloride	U		0.000379	0.00100	1	05/02/2017 10:20	WG975625

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		0.000348	0.00100	1	05/02/2017 10:20	WG975625
Chlorodibromomethane	U		0.000327	0.00100	1	05/02/2017 10:20	WG975625
Chloroethane	U		0.000453	0.00500	1	05/02/2017 10:20	WG975625
Chloroform	U		0.000324	0.00500	1	05/02/2017 10:20	WG975625
Chloromethane	U		0.000276	0.00250	1	05/02/2017 10:20	WG975625
1,2-Dibromoethane	U		0.000381	0.00100	1	05/02/2017 10:20	WG975625
1,1-Dichloroethane	U		0.000259	0.00100	1	05/02/2017 10:20	WG975625
1,2-Dichloroethane	U		0.000361	0.00100	1	05/02/2017 10:20	WG975625
1,1-Dichloroethene	U		0.000398	0.00100	1	05/02/2017 10:20	WG975625
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	05/02/2017 10:20	WG975625
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	05/02/2017 10:20	WG975625
1,2-Dichloropropane	U		0.000306	0.00100	1	05/02/2017 10:20	WG975625
cis-1,3-Dichloropropene	U		0.000418	0.00100	1	05/02/2017 10:20	WG975625
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	05/02/2017 10:20	WG975625
Ethylbenzene	U		0.000384	0.00100	1	05/02/2017 10:20	WG975625
Isopropylbenzene	0.00333		0.000326	0.00100	1	05/02/2017 10:20	WG975625
p-Isopropyltoluene	U		0.000350	0.00100	1	05/02/2017 10:20	WG975625
2-Butanone (MEK)	U		0.00393	0.0100	1	05/02/2017 10:20	WG975625
2-Hexanone	U		0.00382	0.0100	1	05/02/2017 10:20	WG975625
Methylene Chloride	U		0.00100	0.00500	1	05/02/2017 10:20	WG975625
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	05/02/2017 10:20	WG975625
Methyl tert-butyl ether	U		0.000367	0.00100	1	05/02/2017 10:20	WG975625
Naphthalene	U		0.00100	0.00500	1	05/02/2017 10:20	WG975625
n-Propylbenzene	0.00226		0.000349	0.00100	1	05/02/2017 10:20	WG975625
Styrene	U		0.000307	0.00100	1	05/02/2017 10:20	WG975625
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	05/02/2017 10:20	WG975625
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	05/02/2017 10:20	WG975625
Tetrachloroethene	U		0.000372	0.00100	1	05/02/2017 10:20	WG975625
Toluene	U		0.000412	0.00100	1	05/02/2017 10:20	WG975625
1,1,1-Trichloroethane	U		0.000319	0.00100	1	05/02/2017 10:20	WG975625
1,1,2-Trichloroethane	U		0.000383	0.00100	1	05/02/2017 10:20	WG975625
Trichloroethene	U		0.000398	0.00100	1	05/02/2017 10:20	WG975625
1,2,4-Trimethylbenzene	U		0.000373	0.00100	1	05/02/2017 10:20	WG975625
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	05/02/2017 10:20	WG975625
Vinyl chloride	U		0.000259	0.00100	1	05/02/2017 10:20	WG975625
o-Xylene	U		0.000341	0.00100	1	05/02/2017 10:20	WG975625
m&p-Xylene	0.00141	J	0.000719	0.00200	1	05/02/2017 10:20	WG975625
Xylenes, Total	0.00141	J	0.00106	0.00300	1	05/02/2017 10:20	WG975625
(S) Toluene-d8	*104*			*80.0-120*		*05/02/2017 10:20*	WG975625
(S) Dibromofluoromethane	*108*			*76.0-123*		*05/02/2017 10:20*	WG975625
(S) 4-Bromofluorobenzene	*93.8*			*80.0-120*		*05/02/2017 10:20*	WG975625

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	0.665		0.0247	0.100	1	05/02/2017 20:24	WG975552
(S) o-Terphenyl	*80.0*			*31.0-160*		*05/02/2017 20:24*	WG975552

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Dissolved Solids	3890		2.82	10.0	1	05/03/2017 14:39	WG975911

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	0.342	J	0.197	1.00	10	05/04/2017 11:26	WG976256

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	308		2.60	50.0	50	05/03/2017 20:52	WG975914
Fluoride	0.649		0.00990	0.100	1	05/03/2017 19:30	WG975914
Sulfate	2550		3.87	250	50	05/03/2017 20:52	WG975914

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.00367		0.000250	0.00200	1	05/04/2017 12:31	WG975078
Arsenic,Dissolved	0.00361		0.000250	0.00200	1	05/02/2017 23:07	WG975069
Barium	0.0101		0.000360	0.00500	1	05/04/2017 12:31	WG975078
Barium,Dissolved	0.0101		0.000360	0.00500	1	05/02/2017 23:07	WG975069
Calcium	524		0.0460	1.00	1	05/04/2017 12:31	WG975078
Chromium	U		0.000540	0.00200	1	05/04/2017 12:31	WG975078
Chromium,Dissolved	U		0.000540	0.00200	1	05/02/2017 23:07	WG975069
Iron	0.0356	J	0.0150	0.100	1	05/04/2017 12:31	WG975078
Iron,Dissolved	U		0.0150	0.100	1	05/02/2017 23:07	WG975069
Lead	U		0.000240	0.00200	1	05/04/2017 12:31	WG975078
Lead,Dissolved	0.000513	J	0.000240	0.00200	1	05/02/2017 23:07	WG975069
Manganese	0.0612		0.000250	0.00500	1	05/04/2017 12:31	WG975078
Manganese,Dissolved	0.0652		0.000250	0.00500	1	05/02/2017 23:07	WG975069
Potassium	2.27		0.0370	1.00	1	05/04/2017 12:31	WG975078
Selenium	0.00207		0.000380	0.00200	1	05/04/2017 12:31	WG975078
Selenium,Dissolved	0.00284	B	0.000380	0.00200	1	05/02/2017 23:07	WG975069
Sodium	206		0.110	1.00	1	05/04/2017 12:31	WG975078

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	05/01/2017 03:24	WG975304
(S) a,a,a-Trifluorotoluene(FID)	*96.0*			*77.0-122*		*05/01/2017 03:24*	WG975304

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		0.0100	0.0500	1	05/02/2017 10:42	WG975625
Benzene	U		0.000331	0.00100	1	05/02/2017 10:42	WG975625
Bromodichloromethane	U		0.000380	0.00100	1	05/02/2017 10:42	WG975625
Bromoform	U		0.000469	0.00100	1	05/02/2017 10:42	WG975625
Bromomethane	U		0.000866	0.00500	1	05/02/2017 10:42	WG975625
n-Butylbenzene	U		0.000361	0.00100	1	05/02/2017 10:42	WG975625
sec-Butylbenzene	U		0.000365	0.00100	1	05/02/2017 10:42	WG975625
Carbon disulfide	U		0.000275	0.00100	1	05/02/2017 10:42	WG975625
Carbon tetrachloride	U		0.000379	0.00100	1	05/02/2017 10:42	WG975625

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chlorobenzene	U		0.000348	0.00100	1	05/02/2017 10:42	WG975625
Chlorodibromomethane	U		0.000327	0.00100	1	05/02/2017 10:42	WG975625
Chloroethane	U		0.000453	0.00500	1	05/02/2017 10:42	WG975625
Chloroform	U		0.000324	0.00500	1	05/02/2017 10:42	WG975625
Chloromethane	U		0.000276	0.00250	1	05/02/2017 10:42	WG975625
1,2-Dibromoethane	U		0.000381	0.00100	1	05/02/2017 10:42	WG975625
1,1-Dichloroethane	U		0.000259	0.00100	1	05/02/2017 10:42	WG975625
1,2-Dichloroethane	U		0.000361	0.00100	1	05/02/2017 10:42	WG975625
1,1-Dichloroethene	U		0.000398	0.00100	1	05/02/2017 10:42	WG975625
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	05/02/2017 10:42	WG975625
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	05/02/2017 10:42	WG975625
1,2-Dichloropropane	U		0.000306	0.00100	1	05/02/2017 10:42	WG975625
cis-1,3-Dichloropropene	U		0.000418	0.00100	1	05/02/2017 10:42	WG975625
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	05/02/2017 10:42	WG975625
Ethylbenzene	U		0.000384	0.00100	1	05/02/2017 10:42	WG975625
Isopropylbenzene	U		0.000326	0.00100	1	05/02/2017 10:42	WG975625
p-Isopropyltoluene	U		0.000350	0.00100	1	05/02/2017 10:42	WG975625
2-Butanone (MEK)	U		0.00393	0.0100	1	05/02/2017 10:42	WG975625
2-Hexanone	U		0.00382	0.0100	1	05/02/2017 10:42	WG975625
Methylene Chloride	U		0.00100	0.00500	1	05/02/2017 10:42	WG975625
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	05/02/2017 10:42	WG975625
Methyl tert-butyl ether	U		0.000367	0.00100	1	05/02/2017 10:42	WG975625
Naphthalene	U		0.00100	0.00500	1	05/02/2017 10:42	WG975625
n-Propylbenzene	U		0.000349	0.00100	1	05/02/2017 10:42	WG975625
Styrene	U		0.000307	0.00100	1	05/02/2017 10:42	WG975625
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	05/02/2017 10:42	WG975625
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	05/02/2017 10:42	WG975625
Tetrachloroethene	U		0.000372	0.00100	1	05/02/2017 10:42	WG975625
Toluene	U		0.000412	0.00100	1	05/02/2017 10:42	WG975625
1,1,1-Trichloroethane	U		0.000319	0.00100	1	05/02/2017 10:42	WG975625
1,1,2-Trichloroethane	U		0.000383	0.00100	1	05/02/2017 10:42	WG975625
Trichloroethene	U		0.000398	0.00100	1	05/02/2017 10:42	WG975625
1,2,4-Trimethylbenzene	U		0.000373	0.00100	1	05/02/2017 10:42	WG975625
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	05/02/2017 10:42	WG975625
Vinyl chloride	U		0.000259	0.00100	1	05/02/2017 10:42	WG975625
o-Xylene	U		0.000341	0.00100	1	05/02/2017 10:42	WG975625
m&p-Xylene	U		0.000719	0.00200	1	05/02/2017 10:42	WG975625
Xylenes, Total	U		0.00106	0.00300	1	05/02/2017 10:42	WG975625
(S) Toluene-d8	*106*			*80.0-120*		*05/02/2017 10:42*	WG975625
(S) Dibromofluoromethane	*108*			*76.0-123*		*05/02/2017 10:42*	WG975625
(S) 4-Bromofluorobenzene	*92.3*			*80.0-120*		*05/02/2017 10:42*	WG975625

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	0.245		0.0247	0.100	1	05/02/2017 20:41	WG975552
(S) o-Terphenyl	*70.7*			*31.0-160*		*05/02/2017 20:41*	WG975552

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Dissolved Solids	2140		2.82	10.0	1	05/03/2017 14:39	WG975911

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	U		0.197	1.00	10	05/04/2017 11:28	WG976256

Sample Narrative:

353.2 L905668-60 WG976256: 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	251		1.04	20.0	20	05/03/2017 21:03	WG975914
Fluoride	0.949		0.00990	0.100	1	05/03/2017 19:42	WG975914
Sulfate	799		1.55	100	20	05/03/2017 21:03	WG975914

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.00383		0.000250	0.00200	1	05/04/2017 12:35	WG975078
Arsenic,Dissolved	0.00321		0.000250	0.00200	1	05/02/2017 23:10	WG975069
Barium	0.0718		0.000360	0.00500	1	05/04/2017 12:35	WG975078
Barium,Dissolved	0.0692		0.000360	0.00500	1	05/02/2017 23:10	WG975069
Calcium	242		0.0460	1.00	1	05/04/2017 12:35	WG975078
Chromium	U		0.000540	0.00200	1	05/04/2017 12:35	WG975078
Chromium,Dissolved	U		0.000540	0.00200	1	05/02/2017 23:10	WG975069
Iron	0.187		0.0150	0.100	1	05/04/2017 12:35	WG975078
Iron,Dissolved	0.0152	J	0.0150	0.100	1	05/02/2017 23:10	WG975069
Lead	U		0.000240	0.00200	1	05/04/2017 12:35	WG975078
Lead,Dissolved	U		0.000240	0.00200	1	05/02/2017 23:10	WG975069
Manganese	0.0940		0.000250	0.00500	1	05/04/2017 12:35	WG975078
Manganese,Dissolved	0.103		0.000250	0.00500	1	05/02/2017 23:10	WG975069
Potassium	0.264	J	0.0370	1.00	1	05/04/2017 12:35	WG975078
Selenium	U		0.000380	0.00200	1	05/04/2017 12:35	WG975078
Selenium,Dissolved	0.000512	B J	0.000380	0.00200	1	05/02/2017 23:10	WG975069
Sodium	146		0.110	1.00	1	05/04/2017 12:35	WG975078

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	4.45		0.0314	0.100	1	05/01/2017 03:47	WG975304
(S) a,a,a-Trifluorotoluene(FID)	*93.2*			*77.0-122*		*05/01/2017 03:47*	WG975304

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		0.0100	0.0500	1	05/02/2017 11:04	WG975625
Benzene	1.04		0.00828	0.0250	25	05/03/2017 19:30	WG975625
Bromodichloromethane	U		0.000380	0.00100	1	05/02/2017 11:04	WG975625
Bromoform	U		0.000469	0.00100	1	05/02/2017 11:04	WG975625
Bromomethane	U		0.000866	0.00500	1	05/02/2017 11:04	WG975625
n-Butylbenzene	0.00216		0.000361	0.00100	1	05/02/2017 11:04	WG975625

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	0.00427		0.000365	0.00100	1	05/02/2017 11:04	WG975625
Carbon disulfide	U		0.000275	0.00100	1	05/02/2017 11:04	WG975625
Carbon tetrachloride	U		0.000379	0.00100	1	05/02/2017 11:04	WG975625
Chlorobenzene	U		0.000348	0.00100	1	05/02/2017 11:04	WG975625
Chlorodibromomethane	U		0.000327	0.00100	1	05/02/2017 11:04	WG975625
Chloroethane	U		0.000453	0.00500	1	05/02/2017 11:04	WG975625
Chloroform	U		0.000324	0.00500	1	05/02/2017 11:04	WG975625
Chloromethane	U		0.000276	0.00250	1	05/02/2017 11:04	WG975625
1,2-Dibromoethane	U		0.000381	0.00100	1	05/02/2017 11:04	WG975625
1,1-Dichloroethane	U		0.000259	0.00100	1	05/02/2017 11:04	WG975625
1,2-Dichloroethane	U		0.000361	0.00100	1	05/02/2017 11:04	WG975625
1,1-Dichloroethene	U		0.000398	0.00100	1	05/02/2017 11:04	WG975625
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	05/02/2017 11:04	WG975625
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	05/02/2017 11:04	WG975625
1,2-Dichloropropane	U		0.000306	0.00100	1	05/02/2017 11:04	WG975625
cis-1,3-Dichloropropene	U		0.000418	0.00100	1	05/02/2017 11:04	WG975625
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	05/02/2017 11:04	WG975625
Ethylbenzene	0.186		0.000384	0.00100	1	05/02/2017 11:04	WG975625
Isopropylbenzene	0.0193		0.000326	0.00100	1	05/02/2017 11:04	WG975625
p-Isopropyltoluene	0.00108		0.000350	0.00100	1	05/02/2017 11:04	WG975625
2-Butanone (MEK)	U		0.00393	0.0100	1	05/02/2017 11:04	WG975625
2-Hexanone	U		0.00382	0.0100	1	05/02/2017 11:04	WG975625
Methylene Chloride	U		0.00100	0.00500	1	05/02/2017 11:04	WG975625
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	05/02/2017 11:04	WG975625
Methyl tert-butyl ether	0.525		0.00918	0.0250	25	05/03/2017 19:30	WG975625
Naphthalene	0.0175		0.00100	0.00500	1	05/02/2017 11:04	WG975625
n-Propylbenzene	0.0337		0.000349	0.00100	1	05/02/2017 11:04	WG975625
Styrene	U		0.000307	0.00100	1	05/02/2017 11:04	WG975625
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	05/02/2017 11:04	WG975625
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	05/02/2017 11:04	WG975625
Tetrachloroethene	U		0.000372	0.00100	1	05/02/2017 11:04	WG975625
Toluene	0.0958		0.000412	0.00100	1	05/02/2017 11:04	WG975625
1,1,1-Trichloroethane	U		0.000319	0.00100	1	05/02/2017 11:04	WG975625
1,1,2-Trichloroethane	U		0.000383	0.00100	1	05/02/2017 11:04	WG975625
Trichloroethene	U		0.000398	0.00100	1	05/02/2017 11:04	WG975625
1,2,4-Trimethylbenzene	0.0562		0.000373	0.00100	1	05/02/2017 11:04	WG975625
1,3,5-Trimethylbenzene	0.00490		0.000387	0.00100	1	05/02/2017 11:04	WG975625
Vinyl chloride	U		0.000259	0.00100	1	05/02/2017 11:04	WG975625
o-Xylene	0.00990		0.000341	0.00100	1	05/02/2017 11:04	WG975625
m&p-Xylene	0.0711		0.000719	0.00200	1	05/02/2017 11:04	WG975625
Xylenes, Total	0.0810		0.00106	0.00300	1	05/02/2017 11:04	WG975625
(S) Toluene-d8	*103*			*80.0-120*		*05/03/2017 19:30*	WG975625
(S) Toluene-d8	*104*			*80.0-120*		*05/02/2017 11:04*	WG975625
(S) Dibromofluoromethane	*65.5*	J2		*76.0-123*		*05/02/2017 11:04*	WG975625
(S) Dibromofluoromethane	*99.7*			*76.0-123*		*05/03/2017 19:30*	WG975625
(S) 4-Bromofluorobenzene	*97.3*			*80.0-120*		*05/02/2017 11:04*	WG975625
(S) 4-Bromofluorobenzene	*101*			*80.0-120*		*05/03/2017 19:30*	WG975625

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	1.38		0.0247	0.100	1	05/02/2017 20:57	WG975552
(S) o-Terphenyl	*81.7*			*31.0-160*		*05/02/2017 20:57*	WG975552

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Dissolved Solids	1250		2.82	10.0	1	05/03/2017 14:39	WG975911

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	U	J5	0.197	1.00	10	05/04/2017 11:30	WG976256

Sample Narrative:

353.2 L905668-61 WG976256: 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	300		1.04	20.0	20	05/03/2017 21:15	WG975914
Fluoride	1.02		0.00990	0.100	1	05/03/2017 19:53	WG975914
Sulfate	44.1		0.0774	5.00	1	05/03/2017 19:53	WG975914

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.0226		0.000250	0.00200	1	05/04/2017 12:38	WG975078
Arsenic,Dissolved	0.0152		0.000250	0.00200	1	05/02/2017 23:25	WG975069
Barium	0.627		0.000360	0.00500	1	05/04/2017 12:38	WG975078
Barium,Dissolved	0.585		0.000360	0.00500	1	05/02/2017 23:25	WG975069
Calcium	163		0.0460	1.00	1	05/04/2017 12:38	WG975078
Chromium	U		0.000540	0.00200	1	05/04/2017 12:38	WG975078
Chromium,Dissolved	U		0.000540	0.00200	1	05/02/2017 23:25	WG975069
Iron	5.10		0.0150	0.100	1	05/04/2017 12:38	WG975078
Iron,Dissolved	U		0.0150	0.100	1	05/02/2017 23:25	WG975069
Lead	U		0.000240	0.00200	1	05/04/2017 12:38	WG975078
Lead,Dissolved	U		0.000240	0.00200	1	05/02/2017 23:25	WG975069
Manganese	0.987		0.000250	0.00500	1	05/04/2017 12:38	WG975078
Manganese,Dissolved	1.03		0.000250	0.00500	1	05/02/2017 23:25	WG975069
Potassium	0.334	J	0.0370	1.00	1	05/04/2017 12:38	WG975078
Selenium	U		0.000380	0.00200	1	05/04/2017 12:38	WG975078
Selenium,Dissolved	0.000611	B J	0.000380	0.00200	1	05/02/2017 23:25	WG975069
Sodium	199		0.110	1.00	1	05/04/2017 12:38	WG975078

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	1.79		0.0314	0.100	1	05/01/2017 04:09	WG975304
(S) a,a,a-Trifluorotoluene(FID)	*95.6*			*77.0-122*		*05/01/2017 04:09*	WG975304

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		0.0100	0.0500	1	05/02/2017 17:38	WG975483
Benzene	0.00299		0.000331	0.00100	1	05/02/2017 17:38	WG975483
Bromodichloromethane	U		0.000380	0.00100	1	05/02/2017 17:38	WG975483
Bromoform	U		0.000469	0.00100	1	05/02/2017 17:38	WG975483
Bromomethane	U		0.000866	0.00500	1	05/02/2017 17:38	WG975483
n-Butylbenzene	U		0.000361	0.00100	1	05/02/2017 17:38	WG975483

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	0.000928	J	0.000365	0.00100	1	05/02/2017 17:38	WG975483
Carbon disulfide	U		0.000275	0.00100	1	05/02/2017 17:38	WG975483
Carbon tetrachloride	U		0.000379	0.00100	1	05/02/2017 17:38	WG975483
Chlorobenzene	U		0.000348	0.00100	1	05/02/2017 17:38	WG975483
Chlorodibromomethane	U		0.000327	0.00100	1	05/02/2017 17:38	WG975483
Chloroethane	U		0.000453	0.00500	1	05/02/2017 17:38	WG975483
Chloroform	U		0.000324	0.00500	1	05/02/2017 17:38	WG975483
Chloromethane	U		0.000276	0.00250	1	05/02/2017 17:38	WG975483
1,2-Dibromoethane	U		0.000381	0.00100	1	05/02/2017 17:38	WG975483
1,1-Dichloroethane	U		0.000259	0.00100	1	05/02/2017 17:38	WG975483
1,2-Dichloroethane	U		0.000361	0.00100	1	05/02/2017 17:38	WG975483
1,1-Dichloroethene	U		0.000398	0.00100	1	05/02/2017 17:38	WG975483
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	05/02/2017 17:38	WG975483
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	05/02/2017 17:38	WG975483
1,2-Dichloropropane	U		0.000306	0.00100	1	05/02/2017 17:38	WG975483
cis-1,3-Dichloropropene	U		0.000418	0.00100	1	05/02/2017 17:38	WG975483
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	05/02/2017 17:38	WG975483
Ethylbenzene	U		0.000384	0.00100	1	05/02/2017 17:38	WG975483
Isopropylbenzene	0.000976	J	0.000326	0.00100	1	05/02/2017 17:38	WG975483
p-Isopropyltoluene	U		0.000350	0.00100	1	05/02/2017 17:38	WG975483
2-Butanone (MEK)	U		0.00393	0.0100	1	05/02/2017 17:38	WG975483
2-Hexanone	U		0.00382	0.0100	1	05/02/2017 17:38	WG975483
Methylene Chloride	U		0.00100	0.00500	1	05/02/2017 17:38	WG975483
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	05/02/2017 17:38	WG975483
Methyl tert-butyl ether	4.34		0.0367	0.100	100	05/08/2017 00:43	WG975483
Naphthalene	0.00247	J	0.00100	0.00500	1	05/02/2017 17:38	WG975483
n-Propylbenzene	U		0.000349	0.00100	1	05/02/2017 17:38	WG975483
Styrene	U		0.000307	0.00100	1	05/02/2017 17:38	WG975483
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	05/02/2017 17:38	WG975483
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	05/02/2017 17:38	WG975483
Tetrachloroethene	U		0.000372	0.00100	1	05/02/2017 17:38	WG975483
Toluene	0.000543	J	0.000412	0.00100	1	05/02/2017 17:38	WG975483
1,1,1-Trichloroethane	U		0.000319	0.00100	1	05/02/2017 17:38	WG975483
1,1,2-Trichloroethane	U		0.000383	0.00100	1	05/02/2017 17:38	WG975483
Trichloroethene	U		0.000398	0.00100	1	05/02/2017 17:38	WG975483
1,2,4-Trimethylbenzene	0.00101		0.000373	0.00100	1	05/02/2017 17:38	WG975483
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	05/02/2017 17:38	WG975483
Vinyl chloride	U		0.000259	0.00100	1	05/02/2017 17:38	WG975483
o-Xylene	U		0.000341	0.00100	1	05/02/2017 17:38	WG975483
m&p-Xylene	0.000737	J	0.000719	0.00200	1	05/02/2017 17:38	WG975483
Xylenes, Total	U		0.00106	0.00300	1	05/02/2017 17:38	WG975483
(S) Toluene-d8	*105*			*80.0-120*		*05/08/2017 00:43*	WG975483
(S) Toluene-d8	*106*			*80.0-120*		*05/02/2017 17:38*	WG975483
(S) Dibromofluoromethane	*98.2*			*76.0-123*		*05/02/2017 17:38*	WG975483
(S) Dibromofluoromethane	*104*			*76.0-123*		*05/08/2017 00:43*	WG975483
(S) 4-Bromofluorobenzene	*101*			*80.0-120*		*05/08/2017 00:43*	WG975483
(S) 4-Bromofluorobenzene	*103*			*80.0-120*		*05/02/2017 17:38*	WG975483

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	2.13		0.0247	0.100	1	05/02/2017 21:14	WG975552
(S) o-Terphenyl	*77.5*			*31.0-160*		*05/02/2017 21:14*	WG975552

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Dissolved Solids	1230		2.82	10.0	1	05/03/2017 14:39	WG975911

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	U		0.197	1.00	10	05/04/2017 11:36	WG976256

Sample Narrative:

353.2 L905668-62 WG976256: 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	285		1.04	20.0	20	05/03/2017 20:28	WG975914
Fluoride	0.773		0.00990	0.100	1	05/03/2017 21:50	WG975914
Sulfate	10.3		0.0774	5.00	1	05/03/2017 21:50	WG975914

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.0214		0.000250	0.00200	1	05/04/2017 12:42	WG975078
Arsenic,Dissolved	0.0183		0.000250	0.00200	1	05/02/2017 23:29	WG975069
Barium	2.75		0.000360	0.00500	1	05/04/2017 12:42	WG975078
Barium,Dissolved	2.48		0.000360	0.00500	1	05/02/2017 23:29	WG975069
Calcium	151		0.0460	1.00	1	05/04/2017 12:42	WG975078
Chromium	U		0.000540	0.00200	1	05/04/2017 12:42	WG975078
Chromium,Dissolved	U		0.000540	0.00200	1	05/02/2017 23:29	WG975069
Iron	1.29		0.0150	0.100	1	05/04/2017 12:42	WG975078
Iron,Dissolved	U		0.0150	0.100	1	05/02/2017 23:29	WG975069
Lead	U		0.000240	0.00200	1	05/04/2017 12:42	WG975078
Lead,Dissolved	U		0.000240	0.00200	1	05/02/2017 23:29	WG975069
Manganese	0.294		0.000250	0.00500	1	05/04/2017 12:42	WG975078
Manganese,Dissolved	0.309		0.000250	0.00500	1	05/02/2017 23:29	WG975069
Potassium	0.275	J	0.0370	1.00	1	05/04/2017 12:42	WG975078
Selenium	U		0.000380	0.00200	1	05/04/2017 12:42	WG975078
Selenium,Dissolved	0.000632	B J	0.000380	0.00200	1	05/02/2017 23:29	WG975069
Sodium	153		0.110	1.00	1	05/04/2017 12:42	WG975078

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	6.81		0.0314	0.100	1	05/01/2017 04:31	WG975304
(S) a,a,a-Trifluorotoluene(FID)	*82.6*			*77.0-122*		*05/01/2017 04:31*	WG975304

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		0.0100	0.0500	1	05/02/2017 17:59	WG975483
Benzene	3.09		0.00662	0.0200	20	05/03/2017 23:07	WG975483
Bromodichloromethane	U		0.000380	0.00100	1	05/02/2017 17:59	WG975483
Bromoform	U		0.000469	0.00100	1	05/02/2017 17:59	WG975483
Bromomethane	U		0.000866	0.00500	1	05/02/2017 17:59	WG975483
n-Butylbenzene	0.00255		0.000361	0.00100	1	05/02/2017 17:59	WG975483

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	0.00331		0.000365	0.00100	1	05/02/2017 17:59	WG975483
Carbon disulfide	U		0.000275	0.00100	1	05/02/2017 17:59	WG975483
Carbon tetrachloride	U		0.000379	0.00100	1	05/02/2017 17:59	WG975483
Chlorobenzene	U		0.000348	0.00100	1	05/02/2017 17:59	WG975483
Chlorodibromomethane	U		0.000327	0.00100	1	05/02/2017 17:59	WG975483
Chloroethane	U		0.000453	0.00500	1	05/02/2017 17:59	WG975483
Chloroform	U		0.000324	0.00500	1	05/02/2017 17:59	WG975483
Chloromethane	U		0.000276	0.00250	1	05/02/2017 17:59	WG975483
1,2-Dibromoethane	U		0.000381	0.00100	1	05/02/2017 17:59	WG975483
1,1-Dichloroethane	U		0.000259	0.00100	1	05/02/2017 17:59	WG975483
1,2-Dichloroethane	U		0.000361	0.00100	1	05/02/2017 17:59	WG975483
1,1-Dichloroethene	U		0.000398	0.00100	1	05/02/2017 17:59	WG975483
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	05/02/2017 17:59	WG975483
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	05/02/2017 17:59	WG975483
1,2-Dichloropropane	U		0.000306	0.00100	1	05/02/2017 17:59	WG975483
cis-1,3-Dichloropropene	U		0.000418	0.00100	1	05/02/2017 17:59	WG975483
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	05/02/2017 17:59	WG975483
Ethylbenzene	0.0532		0.000384	0.00100	1	05/02/2017 17:59	WG975483
Isopropylbenzene	0.0206		0.000326	0.00100	1	05/02/2017 17:59	WG975483
p-Isopropyltoluene	0.000554	J	0.000350	0.00100	1	05/02/2017 17:59	WG975483
2-Butanone (MEK)	U		0.00393	0.0100	1	05/02/2017 17:59	WG975483
2-Hexanone	U		0.00382	0.0100	1	05/02/2017 17:59	WG975483
Methylene Chloride	U		0.00100	0.00500	1	05/02/2017 17:59	WG975483
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	05/02/2017 17:59	WG975483
Methyl tert-butyl ether	3.99		0.0367	0.100	100	05/08/2017 01:06	WG975483
Naphthalene	0.0295		0.00100	0.00500	1	05/02/2017 17:59	WG975483
n-Propylbenzene	0.0338		0.000349	0.00100	1	05/02/2017 17:59	WG975483
Styrene	U		0.000307	0.00100	1	05/02/2017 17:59	WG975483
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	05/02/2017 17:59	WG975483
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	05/02/2017 17:59	WG975483
Tetrachloroethene	U		0.000372	0.00100	1	05/02/2017 17:59	WG975483
Toluene	0.153		0.000412	0.00100	1	05/02/2017 17:59	WG975483
1,1,1-Trichloroethane	U		0.000319	0.00100	1	05/02/2017 17:59	WG975483
1,1,2-Trichloroethane	U		0.000383	0.00100	1	05/02/2017 17:59	WG975483
Trichloroethene	U		0.000398	0.00100	1	05/02/2017 17:59	WG975483
1,2,4-Trimethylbenzene	0.0137		0.000373	0.00100	1	05/02/2017 17:59	WG975483
1,3,5-Trimethylbenzene	0.00348		0.000387	0.00100	1	05/02/2017 17:59	WG975483
Vinyl chloride	U		0.000259	0.00100	1	05/02/2017 17:59	WG975483
o-Xylene	0.0406		0.000341	0.00100	1	05/02/2017 17:59	WG975483
m&p-Xylene	0.0735		0.000719	0.00200	1	05/02/2017 17:59	WG975483
Xylenes, Total	0.114		0.00106	0.00300	1	05/02/2017 17:59	WG975483
(S) Toluene-d8	*101*			*80.0-120*		*05/03/2017 23:07*	WG975483
(S) Toluene-d8	*103*			*80.0-120*		*05/02/2017 17:59*	WG975483
(S) Toluene-d8	*106*			*80.0-120*		*05/08/2017 01:06*	WG975483
(S) Dibromofluoromethane	*75.6*	J2		*76.0-123*		*05/02/2017 17:59*	WG975483
(S) Dibromofluoromethane	*104*			*76.0-123*		*05/08/2017 01:06*	WG975483
(S) Dibromofluoromethane	*113*			*76.0-123*		*05/03/2017 23:07*	WG975483
(S) 4-Bromofluorobenzene	*92.7*			*80.0-120*		*05/03/2017 23:07*	WG975483
(S) 4-Bromofluorobenzene	*102*			*80.0-120*		*05/08/2017 01:06*	WG975483
(S) 4-Bromofluorobenzene	*102*			*80.0-120*		*05/02/2017 17:59*	WG975483

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	1.77		0.0247	0.100	1	05/02/2017 21:30	WG975552
(S) o-Terphenyl	*78.5*			*31.0-160*		*05/02/2017 21:30*	WG975552

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Dissolved Solids	3160		2.82	10.0	1	05/03/2017 15:37	WG975913

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	U		0.197	1.00	10	05/04/2017 11:37	WG976256

Sample Narrative:

353.2 L905668-63 WG976256: 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	184		0.519	10.0	10	05/05/2017 13:46	WG976618
Fluoride	1.13		0.00990	0.100	1	05/03/2017 22:13	WG975914
Sulfate	1870		3.87	250	50	05/03/2017 22:48	WG975914

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.0234		0.000250	0.00200	1	05/05/2017 04:27	WG975082
Arsenic,Dissolved	0.0260		0.000250	0.00200	1	05/02/2017 23:32	WG975069
Barium	0.0202		0.000360	0.00500	1	05/05/2017 04:27	WG975082
Barium,Dissolved	0.0210		0.000360	0.00500	1	05/02/2017 23:32	WG975069
Calcium	467		0.0460	1.00	1	05/05/2017 04:27	WG975082
Chromium	U		0.000540	0.00200	1	05/05/2017 04:27	WG975082
Chromium,Dissolved	U		0.000540	0.00200	1	05/02/2017 23:32	WG975069
Iron	0.123		0.0150	0.100	1	05/05/2017 04:27	WG975082
Iron,Dissolved	0.0343	J	0.0150	0.100	1	05/02/2017 23:32	WG975069
Lead	U		0.000240	0.00200	1	05/05/2017 21:52	WG975082
Lead,Dissolved	U		0.000240	0.00200	1	05/02/2017 23:32	WG975069
Manganese	0.440		0.000250	0.00500	1	05/05/2017 04:27	WG975082
Manganese,Dissolved	0.468		0.000250	0.00500	1	05/02/2017 23:32	WG975069
Potassium	0.519	J	0.0370	1.00	1	05/05/2017 04:27	WG975082
Selenium	U		0.000380	0.00200	1	05/05/2017 04:27	WG975082
Selenium,Dissolved	0.000557	B J	0.000380	0.00200	1	05/02/2017 23:32	WG975069
Sodium	134		0.110	1.00	1	05/05/2017 04:27	WG975082

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	0.163		0.0314	0.100	1	05/01/2017 04:53	WG975304
(S) a,a,a-Trifluorotoluene(FID)	*93.8*			*77.0-122*		*05/01/2017 04:53*	WG975304

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		0.0100	0.0500	1	05/02/2017 18:20	WG975483
Benzene	0.00218		0.000331	0.00100	1	05/03/2017 23:24	WG975483
Bromodichloromethane	U		0.000380	0.00100	1	05/02/2017 18:20	WG975483
Bromoform	U		0.000469	0.00100	1	05/02/2017 18:20	WG975483
Bromomethane	U		0.000866	0.00500	1	05/02/2017 18:20	WG975483
n-Butylbenzene	U		0.000361	0.00100	1	05/02/2017 18:20	WG975483

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	0.00297		0.000365	0.00100	1	05/02/2017 18:20	WG975483
Carbon disulfide	U		0.000275	0.00100	1	05/02/2017 18:20	WG975483
Carbon tetrachloride	U		0.000379	0.00100	1	05/02/2017 18:20	WG975483
Chlorobenzene	U		0.000348	0.00100	1	05/02/2017 18:20	WG975483
Chlorodibromomethane	U		0.000327	0.00100	1	05/02/2017 18:20	WG975483
Chloroethane	U		0.000453	0.00500	1	05/02/2017 18:20	WG975483
Chloroform	U		0.000324	0.00500	1	05/02/2017 18:20	WG975483
Chloromethane	U		0.000276	0.00250	1	05/02/2017 18:20	WG975483
1,2-Dibromoethane	U		0.000381	0.00100	1	05/02/2017 18:20	WG975483
1,1-Dichloroethane	U		0.000259	0.00100	1	05/02/2017 18:20	WG975483
1,2-Dichloroethane	U		0.000361	0.00100	1	05/02/2017 18:20	WG975483
1,1-Dichloroethene	U		0.000398	0.00100	1	05/02/2017 18:20	WG975483
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	05/02/2017 18:20	WG975483
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	05/02/2017 18:20	WG975483
1,2-Dichloropropane	U		0.000306	0.00100	1	05/02/2017 18:20	WG975483
cis-1,3-Dichloropropene	U		0.000418	0.00100	1	05/02/2017 18:20	WG975483
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	05/02/2017 18:20	WG975483
Ethylbenzene	U		0.000384	0.00100	1	05/02/2017 18:20	WG975483
Isopropylbenzene	0.0175		0.000326	0.00100	1	05/02/2017 18:20	WG975483
p-Isopropyltoluene	U		0.000350	0.00100	1	05/02/2017 18:20	WG975483
2-Butanone (MEK)	U		0.00393	0.0100	1	05/02/2017 18:20	WG975483
2-Hexanone	U		0.00382	0.0100	1	05/02/2017 18:20	WG975483
Methylene Chloride	U		0.00100	0.00500	1	05/02/2017 18:20	WG975483
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	05/02/2017 18:20	WG975483
Methyl tert-butyl ether	U		0.000367	0.00100	1	05/03/2017 23:24	WG975483
Naphthalene	U		0.00100	0.00500	1	05/02/2017 18:20	WG975483
n-Propylbenzene	0.000538	J	0.000349	0.00100	1	05/02/2017 18:20	WG975483
Styrene	U		0.000307	0.00100	1	05/02/2017 18:20	WG975483
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	05/02/2017 18:20	WG975483
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	05/02/2017 18:20	WG975483
Tetrachloroethene	U		0.000372	0.00100	1	05/02/2017 18:20	WG975483
Toluene	U		0.000412	0.00100	1	05/02/2017 18:20	WG975483
1,1,1-Trichloroethane	U		0.000319	0.00100	1	05/02/2017 18:20	WG975483
1,1,2-Trichloroethane	U		0.000383	0.00100	1	05/02/2017 18:20	WG975483
Trichloroethene	U		0.000398	0.00100	1	05/02/2017 18:20	WG975483
1,2,4-Trimethylbenzene	U		0.000373	0.00100	1	05/02/2017 18:20	WG975483
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	05/02/2017 18:20	WG975483
Vinyl chloride	U		0.000259	0.00100	1	05/02/2017 18:20	WG975483
o-Xylene	U		0.000341	0.00100	1	05/02/2017 18:20	WG975483
m&p-Xylene	U		0.000719	0.00200	1	05/02/2017 18:20	WG975483
Xylenes, Total	U		0.00106	0.00300	1	05/02/2017 18:20	WG975483
(S) Toluene-d8	*101*			*80.0-120*		*05/03/2017 23:24*	WG975483
(S) Toluene-d8	*105*			*80.0-120*		*05/02/2017 18:20*	WG975483
(S) Dibromofluoromethane	*98.1*			*76.0-123*		*05/02/2017 18:20*	WG975483
(S) Dibromofluoromethane	*110*			*76.0-123*		*05/03/2017 23:24*	WG975483
(S) 4-Bromofluorobenzene	*90.9*			*80.0-120*		*05/03/2017 23:24*	WG975483
(S) 4-Bromofluorobenzene	*98.6*			*80.0-120*		*05/02/2017 18:20*	WG975483

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	0.835		0.0247	0.100	1	05/02/2017 21:47	WG975552
(S) o-Terphenyl	*87.9*			*31.0-160*		*05/02/2017 21:47*	WG975552

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Dissolved Solids	3470		2.82	10.0	1	05/03/2017 15:37	WG975913

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	U		0.197	1.00	10	05/04/2017 11:38	WG976256

Sample Narrative:

353.2 L905668-64 WG976256: Dilution due to matrix

Wet Chemistry by Method 4500CN E-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Cyanide	U		0.0900	0.250	50	05/02/2017 11:10	WG975005

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	201		2.60	50.0	50	05/03/2017 23:00	WG975914
Fluoride	0.835		0.00990	0.100	1	05/03/2017 22:25	WG975914
Sulfate	2060		3.87	250	50	05/03/2017 23:00	WG975914

Mercury by Method 7470A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Mercury	U		0.0000490	0.000200	1	05/02/2017 17:07	WG974957
Mercury,Dissolved	U		0.0000490	0.000200	1	05/02/2017 15:02	WG974958

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.00595		0.000250	0.00200	1	05/05/2017 04:38	WG975082
Arsenic,Dissolved	0.00888		0.000250	0.00200	1	05/02/2017 22:14	WG975069
Barium	0.0167		0.000360	0.00500	1	05/05/2017 04:38	WG975082
Barium,Dissolved	0.0171		0.000360	0.00500	1	05/02/2017 22:14	WG975069
Boron	0.376		0.00150	0.0200	1	05/05/2017 04:38	WG975082
Boron,Dissolved	0.378		0.00150	0.0200	1	05/02/2017 22:14	WG975069
Cadmium	U		0.000160	0.00100	1	05/05/2017 04:38	WG975082
Cadmium,Dissolved	U		0.000160	0.00100	1	05/02/2017 22:14	WG975069
Calcium	410		0.0460	1.00	1	05/05/2017 04:38	WG975082
Chromium	U		0.000540	0.00200	1	05/05/2017 04:38	WG975082
Chromium,Dissolved	U		0.000540	0.00200	1	05/02/2017 22:14	WG975069
Cobalt	U		0.000260	0.00200	1	05/05/2017 04:38	WG975082
Cobalt,Dissolved	U		0.000260	0.00200	1	05/02/2017 22:14	WG975069
Iron	0.0568	J	0.0150	0.100	1	05/05/2017 04:38	WG975082
Iron,Dissolved	0.0207	J	0.0150	0.100	1	05/02/2017 22:14	WG975069
Lead	U		0.000240	0.00200	1	05/05/2017 21:55	WG975082
Lead,Dissolved	U		0.000240	0.00200	1	05/02/2017 22:14	WG975069
Manganese	0.294		0.000250	0.00500	1	05/05/2017 04:38	WG975082
Manganese,Dissolved	0.310		0.000250	0.00500	1	05/02/2017 22:14	WG975069
Nickel	0.000791	J	0.000350	0.00200	1	05/05/2017 04:38	WG975082
Nickel,Dissolved	U		0.000350	0.00200	1	05/02/2017 22:14	WG975069
Potassium	0.606	J	0.0370	1.00	1	05/05/2017 04:38	WG975082

Metals (ICPMS) by Method 6020

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Selenium	U		0.000380	0.00200	1	05/05/2017 04:38	WG975082
Selenium,Dissolved	0.000813	B J	0.000380	0.00200	1	05/02/2017 22:14	WG975069
Sodium	196		0.110	1.00	1	05/05/2017 04:38	WG975082
Uranium	0.00223	J	0.000330	0.0100	1	05/05/2017 21:55	WG975082
Uranium,Dissolved	0.00218	J	0.000330	0.0100	1	05/02/2017 22:14	WG975069
Vanadium	0.000578	B J	0.000180	0.00500	1	05/05/2017 21:55	WG975082
Vanadium,Dissolved	0.000538	B J	0.000180	0.00500	1	05/02/2017 22:14	WG975069

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	0.309		0.0314	0.100	1	05/01/2017 16:48	WG975386
(S) a,a,a-Trifluorotoluene(FID)	*99.1*			*77.0-122*		*05/01/2017 16:48*	WG975386

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

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	U		0.0100	0.0500	1	05/02/2017 18:40	WG975483
Benzene	0.00262		0.000331	0.00100	1	05/02/2017 18:40	WG975483
Bromodichloromethane	U		0.000380	0.00100	1	05/02/2017 18:40	WG975483
Bromoform	U		0.000469	0.00100	1	05/02/2017 18:40	WG975483
Bromomethane	U		0.000866	0.00500	1	05/02/2017 18:40	WG975483
n-Butylbenzene	U		0.000361	0.00100	1	05/02/2017 18:40	WG975483
sec-Butylbenzene	0.00293		0.000365	0.00100	1	05/02/2017 18:40	WG975483
Carbon disulfide	0.000535	J	0.000275	0.00100	1	05/02/2017 18:40	WG975483
Carbon tetrachloride	U		0.000379	0.00100	1	05/02/2017 18:40	WG975483
Chlorobenzene	U		0.000348	0.00100	1	05/02/2017 18:40	WG975483
Chlorodibromomethane	U		0.000327	0.00100	1	05/02/2017 18:40	WG975483
Chloroethane	U		0.000453	0.00500	1	05/02/2017 18:40	WG975483
Chloroform	U		0.000324	0.00500	1	05/02/2017 18:40	WG975483
Chloromethane	U		0.000276	0.00250	1	05/02/2017 18:40	WG975483
1,2-Dibromoethane	U		0.000381	0.00100	1	05/02/2017 18:40	WG975483
1,1-Dichloroethane	U		0.000259	0.00100	1	05/02/2017 18:40	WG975483
1,2-Dichloroethane	U		0.000361	0.00100	1	05/02/2017 18:40	WG975483
1,1-Dichloroethene	U		0.000398	0.00100	1	05/02/2017 18:40	WG975483
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	05/02/2017 18:40	WG975483
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	05/02/2017 18:40	WG975483
1,2-Dichloropropane	U		0.000306	0.00100	1	05/02/2017 18:40	WG975483
cis-1,3-Dichloropropene	U		0.000418	0.00100	1	05/02/2017 18:40	WG975483
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	05/02/2017 18:40	WG975483
Ethylbenzene	0.000481	J	0.000384	0.00100	1	05/02/2017 18:40	WG975483
Isopropylbenzene	0.0178		0.000326	0.00100	1	05/02/2017 18:40	WG975483
p-Isopropyltoluene	U		0.000350	0.00100	1	05/02/2017 18:40	WG975483
2-Butanone (MEK)	U		0.00393	0.0100	1	05/02/2017 18:40	WG975483
2-Hexanone	U		0.00382	0.0100	1	05/02/2017 18:40	WG975483
Methylene Chloride	U		0.00100	0.00500	1	05/02/2017 18:40	WG975483
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	05/02/2017 18:40	WG975483
Methyl tert-butyl ether	U		0.000367	0.00100	1	05/02/2017 18:40	WG975483
Naphthalene	U		0.00100	0.00500	1	05/02/2017 18:40	WG975483
n-Propylbenzene	0.00101		0.000349	0.00100	1	05/02/2017 18:40	WG975483
Styrene	U		0.000307	0.00100	1	05/02/2017 18:40	WG975483
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	05/02/2017 18:40	WG975483
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	05/02/2017 18:40	WG975483
Tetrachloroethene	U		0.000372	0.00100	1	05/02/2017 18:40	WG975483
Toluene	U		0.000412	0.00100	1	05/02/2017 18:40	WG975483

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-Trichloroethane	U		0.000319	0.00100	1	05/02/2017 18:40	WG975483
1,1,2-Trichloroethane	U		0.000383	0.00100	1	05/02/2017 18:40	WG975483
Trichloroethene	U		0.000398	0.00100	1	05/02/2017 18:40	WG975483
1,2,4-Trimethylbenzene	U		0.000373	0.00100	1	05/02/2017 18:40	WG975483
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	05/02/2017 18:40	WG975483
Vinyl chloride	U		0.000259	0.00100	1	05/02/2017 18:40	WG975483
o-Xylene	U		0.000341	0.00100	1	05/02/2017 18:40	WG975483
m&p-Xylene	0.00195	J	0.000719	0.00200	1	05/02/2017 18:40	WG975483
Xylenes, Total	0.00195	J	0.00106	0.00300	1	05/02/2017 18:40	WG975483
(S) Toluene-d8	*106*			*80.0-120*		*05/02/2017 18:40*	WG975483
(S) Dibromofluoromethane	*102*			*76.0-123*		*05/02/2017 18:40*	WG975483
(S) 4-Bromofluorobenzene	*102*			*80.0-120*		*05/02/2017 18:40*	WG975483

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	0.923		0.0247	0.100	1	05/02/2017 23:29	WG975552
(S) o-Terphenyl	*79.6*			*31.0-160*		*05/02/2017 23:29*	WG975552

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	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Dissolved Solids	2660		2.82	10.0	1	05/03/2017 15:37	WG975913

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	U		0.197	1.00	10	05/04/2017 11:39	WG976256

Sample Narrative:

353.2 L905668-65 WG976256: 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	88.0		0.0519	1.00	1	05/03/2017 22:37	WG975914
Fluoride	3.53		0.00990	0.100	1	05/03/2017 22:37	WG975914
Sulfate	1500		3.87	250	50	05/03/2017 23:12	WG975914

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.00167	J	0.000250	0.00200	1	05/05/2017 04:41	WG975082
Arsenic,Dissolved	0.00180	J	0.000250	0.00200	1	05/02/2017 23:36	WG975069
Barium	0.0184		0.000360	0.00500	1	05/05/2017 04:41	WG975082
Barium,Dissolved	0.0184		0.000360	0.00500	1	05/02/2017 23:36	WG975069
Calcium	457		0.0460	1.00	1	05/05/2017 04:41	WG975082
Chromium	U		0.000540	0.00200	1	05/05/2017 04:41	WG975082
Chromium,Dissolved	U		0.000540	0.00200	1	05/02/2017 23:36	WG975069
Iron	0.0250	J	0.0150	0.100	1	05/05/2017 04:41	WG975082
Iron,Dissolved	U		0.0150	0.100	1	05/02/2017 23:36	WG975069
Lead	0.000433	J	0.000240	0.00200	1	05/05/2017 21:59	WG975082
Lead,Dissolved	U		0.000240	0.00200	1	05/02/2017 23:36	WG975069
Manganese	0.173		0.000250	0.00500	1	05/05/2017 04:41	WG975082
Manganese,Dissolved	0.180		0.000250	0.00500	1	05/02/2017 23:36	WG975069
Potassium	3.24		0.0370	1.00	1	05/05/2017 04:41	WG975082
Selenium	U		0.000380	0.00200	1	05/05/2017 04:41	WG975082
Selenium,Dissolved	0.000631	B J	0.000380	0.00200	1	05/02/2017 23:36	WG975069
Sodium	110		0.110	1.00	1	05/05/2017 04:41	WG975082

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	0.207		0.0314	0.100	1	05/09/2017 08:22	WG975386
(S) a,a,a-Trifluorotoluene(FID)	*95.6*			*77.0-122*		*05/09/2017 08:22*	WG975386

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		0.0100	0.0500	1	05/03/2017 22:04	WG975945
Benzene	U		0.000331	0.00100	1	05/03/2017 22:04	WG975945
Bromodichloromethane	U		0.000380	0.00100	1	05/03/2017 22:04	WG975945
Bromoform	U		0.000469	0.00100	1	05/03/2017 22:04	WG975945
Bromomethane	U		0.000866	0.00500	1	05/03/2017 22:04	WG975945
n-Butylbenzene	U		0.000361	0.00100	1	05/03/2017 22:04	WG975945

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	0.000569	J	0.000365	0.00100	1	05/03/2017 22:04	WG975945
Carbon disulfide	0.000571	J	0.000275	0.00100	1	05/03/2017 22:04	WG975945
Carbon tetrachloride	U		0.000379	0.00100	1	05/03/2017 22:04	WG975945
Chlorobenzene	U		0.000348	0.00100	1	05/03/2017 22:04	WG975945
Chlorodibromomethane	U		0.000327	0.00100	1	05/03/2017 22:04	WG975945
Chloroethane	U		0.000453	0.00500	1	05/03/2017 22:04	WG975945
Chloroform	U		0.000324	0.00500	1	05/03/2017 22:04	WG975945
Chloromethane	U		0.000276	0.00250	1	05/03/2017 22:04	WG975945
1,2-Dibromoethane	U		0.000381	0.00100	1	05/03/2017 22:04	WG975945
1,1-Dichloroethane	U		0.000259	0.00100	1	05/03/2017 22:04	WG975945
1,2-Dichloroethane	U		0.000361	0.00100	1	05/03/2017 22:04	WG975945
1,1-Dichloroethene	U		0.000398	0.00100	1	05/03/2017 22:04	WG975945
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	05/03/2017 22:04	WG975945
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	05/03/2017 22:04	WG975945
1,2-Dichloropropane	U		0.000306	0.00100	1	05/03/2017 22:04	WG975945
cis-1,3-Dichloropropene	U		0.000418	0.00100	1	05/03/2017 22:04	WG975945
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	05/03/2017 22:04	WG975945
Ethylbenzene	0.000403	J	0.000384	0.00100	1	05/03/2017 22:04	WG975945
Isopropylbenzene	0.00399		0.000326	0.00100	1	05/03/2017 22:04	WG975945
p-Isopropyltoluene	U		0.000350	0.00100	1	05/03/2017 22:04	WG975945
2-Butanone (MEK)	U		0.00393	0.0100	1	05/03/2017 22:04	WG975945
2-Hexanone	U		0.00382	0.0100	1	05/03/2017 22:04	WG975945
Methylene Chloride	U		0.00100	0.00500	1	05/03/2017 22:04	WG975945
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	05/03/2017 22:04	WG975945
Methyl tert-butyl ether	U		0.000367	0.00100	1	05/03/2017 22:04	WG975945
Naphthalene	U		0.00100	0.00500	1	05/03/2017 22:04	WG975945
n-Propylbenzene	U		0.000349	0.00100	1	05/03/2017 22:04	WG975945
Styrene	U		0.000307	0.00100	1	05/03/2017 22:04	WG975945
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	05/03/2017 22:04	WG975945
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	05/03/2017 22:04	WG975945
Tetrachloroethene	U		0.000372	0.00100	1	05/03/2017 22:04	WG975945
Toluene	0.00119		0.000412	0.00100	1	05/03/2017 22:04	WG975945
1,1,1-Trichloroethane	U		0.000319	0.00100	1	05/03/2017 22:04	WG975945
1,1,2-Trichloroethane	U		0.000383	0.00100	1	05/03/2017 22:04	WG975945
Trichloroethene	U		0.000398	0.00100	1	05/03/2017 22:04	WG975945
1,2,4-Trimethylbenzene	U		0.000373	0.00100	1	05/03/2017 22:04	WG975945
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	05/03/2017 22:04	WG975945
Vinyl chloride	U		0.000259	0.00100	1	05/03/2017 22:04	WG975945
o-Xylene	0.00299		0.000341	0.00100	1	05/03/2017 22:04	WG975945
m&p-Xylene	0.000792	J	0.000719	0.00200	1	05/03/2017 22:04	WG975945
Xylenes, Total	0.00378		0.00106	0.00300	1	05/03/2017 22:04	WG975945
(S) Toluene-d8	*104*			*80.0-120*		*05/03/2017 22:04*	WG975945
(S) Dibromofluoromethane	*101*			*76.0-123*		*05/03/2017 22:04*	WG975945
(S) 4-Bromofluorobenzene	*98.0*			*80.0-120*		*05/03/2017 22:04*	WG975945

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	2.90		0.0247	0.100	1	05/02/2017 23:46	WG975552
(S) o-Terphenyl	*94.2*			*31.0-160*		*05/02/2017 23:46*	WG975552

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Dissolved Solids	2420		2.82	10.0	1	05/03/2017 15:37	WG975913

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	U		0.197	1.00	10	05/04/2017 11:40	WG976256

Sample Narrative:

353.2 L905668-66 WG976256: 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	208		2.60	50.0	50	05/03/2017 18:35	WG975915
Fluoride	0.525		0.00990	0.100	1	05/03/2017 16:51	WG975915
Sulfate	940		3.87	250	50	05/03/2017 18:35	WG975915

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.00285		0.000250	0.00200	1	05/05/2017 04:45	WG975082
Arsenic,Dissolved	0.00271		0.000250	0.00200	1	05/02/2017 23:39	WG975069
Barium	0.0244		0.000360	0.00500	1	05/05/2017 04:45	WG975082
Barium,Dissolved	0.0262		0.000360	0.00500	1	05/02/2017 23:39	WG975069
Calcium	296		0.0460	1.00	1	05/05/2017 04:45	WG975082
Chromium	U		0.000540	0.00200	1	05/05/2017 04:45	WG975082
Chromium,Dissolved	U		0.000540	0.00200	1	05/02/2017 23:39	WG975069
Iron	0.480		0.0150	0.100	1	05/05/2017 04:45	WG975082
Iron,Dissolved	U		0.0150	0.100	1	05/02/2017 23:39	WG975069
Lead	U		0.000240	0.00200	1	05/05/2017 22:13	WG975082
Lead,Dissolved	U		0.000240	0.00200	1	05/02/2017 23:39	WG975069
Manganese	1.05		0.000250	0.00500	1	05/05/2017 04:45	WG975082
Manganese,Dissolved	1.12		0.000250	0.00500	1	05/02/2017 23:39	WG975069
Potassium	0.514	J	0.0370	1.00	1	05/05/2017 04:45	WG975082
Selenium	U		0.000380	0.00200	1	05/05/2017 04:45	WG975082
Selenium,Dissolved	0.000537	B J	0.000380	0.00200	1	05/02/2017 23:39	WG975069
Sodium	151		0.110	1.00	1	05/05/2017 04:45	WG975082

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	1.03		0.0314	0.100	1	05/01/2017 17:36	WG975386
(S) a,a,a-Trifluorotoluene(FID)	*95.2*			*77.0-122*		*05/01/2017 17:36*	WG975386

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		0.0100	0.0500	1	05/03/2017 03:11	WG975808
Benzene	0.0145		0.000331	0.00100	1	05/03/2017 03:11	WG975808
Bromodichloromethane	U		0.000380	0.00100	1	05/03/2017 03:11	WG975808
Bromoform	U		0.000469	0.00100	1	05/03/2017 03:11	WG975808
Bromomethane	U		0.000866	0.00500	1	05/03/2017 03:11	WG975808
n-Butylbenzene	U		0.000361	0.00100	1	05/03/2017 03:11	WG975808

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	0.000417	J	0.000365	0.00100	1	05/03/2017 03:11	WG975808
Carbon disulfide	U		0.000275	0.00100	1	05/03/2017 03:11	WG975808
Carbon tetrachloride	U		0.000379	0.00100	1	05/03/2017 03:11	WG975808
Chlorobenzene	U		0.000348	0.00100	1	05/03/2017 03:11	WG975808
Chlorodibromomethane	U		0.000327	0.00100	1	05/03/2017 03:11	WG975808
Chloroethane	U		0.000453	0.00500	1	05/03/2017 03:11	WG975808
Chloroform	U		0.000324	0.00500	1	05/03/2017 03:11	WG975808
Chloromethane	U		0.000276	0.00250	1	05/03/2017 03:11	WG975808
1,2-Dibromoethane	U		0.000381	0.00100	1	05/03/2017 03:11	WG975808
1,1-Dichloroethane	U		0.000259	0.00100	1	05/03/2017 03:11	WG975808
1,2-Dichloroethane	U		0.000361	0.00100	1	05/03/2017 03:11	WG975808
1,1-Dichloroethene	U		0.000398	0.00100	1	05/03/2017 03:11	WG975808
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	05/03/2017 03:11	WG975808
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	05/03/2017 03:11	WG975808
1,2-Dichloropropane	U		0.000306	0.00100	1	05/03/2017 03:11	WG975808
cis-1,3-Dichloropropene	U		0.000418	0.00100	1	05/03/2017 03:11	WG975808
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	05/03/2017 03:11	WG975808
Ethylbenzene	0.00937		0.000384	0.00100	1	05/03/2017 03:11	WG975808
Isopropylbenzene	0.000513	J	0.000326	0.00100	1	05/03/2017 03:11	WG975808
p-Isopropyltoluene	U		0.000350	0.00100	1	05/03/2017 03:11	WG975808
2-Butanone (MEK)	U		0.00393	0.0100	1	05/03/2017 03:11	WG975808
2-Hexanone	U		0.00382	0.0100	1	05/03/2017 03:11	WG975808
Methylene Chloride	U		0.00100	0.00500	1	05/03/2017 03:11	WG975808
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	05/03/2017 03:11	WG975808
Methyl tert-butyl ether	0.0140		0.000367	0.00100	1	05/03/2017 03:11	WG975808
Naphthalene	0.00176	J	0.00100	0.00500	1	05/03/2017 03:11	WG975808
n-Propylbenzene	0.000359	J	0.000349	0.00100	1	05/03/2017 03:11	WG975808
Styrene	U		0.000307	0.00100	1	05/03/2017 03:11	WG975808
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	05/03/2017 03:11	WG975808
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	05/03/2017 03:11	WG975808
Tetrachloroethene	U		0.000372	0.00100	1	05/03/2017 03:11	WG975808
Toluene	U		0.000412	0.00100	1	05/03/2017 03:11	WG975808
1,1,1-Trichloroethane	U		0.000319	0.00100	1	05/03/2017 03:11	WG975808
1,1,2-Trichloroethane	U		0.000383	0.00100	1	05/03/2017 03:11	WG975808
Trichloroethene	U		0.000398	0.00100	1	05/03/2017 03:11	WG975808
1,2,4-Trimethylbenzene	0.00448		0.000373	0.00100	1	05/03/2017 03:11	WG975808
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	05/03/2017 03:11	WG975808
Vinyl chloride	U		0.000259	0.00100	1	05/03/2017 03:11	WG975808
o-Xylene	U		0.000341	0.00100	1	05/03/2017 03:11	WG975808
m&p-Xylene	0.0148		0.000719	0.00200	1	05/03/2017 03:11	WG975808
Xylenes, Total	0.0148		0.00106	0.00300	1	05/03/2017 03:11	WG975808
(S) Toluene-d8	*105*			*80.0-120*		*05/03/2017 03:11*	WG975808
(S) Dibromofluoromethane	*101*			*76.0-123*		*05/03/2017 03:11*	WG975808
(S) 4-Bromofluorobenzene	*98.3*			*80.0-120*		*05/03/2017 03:11*	WG975808

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	0.214		0.0247	0.100	1	05/03/2017 05:24	WG975555
(S) o-Terphenyl	*67.0*			*31.0-160*		*05/03/2017 05:24*	WG975555

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Dissolved Solids	3650		2.82	10.0	1	05/03/2017 15:37	WG975913

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	U		0.197	1.00	10	05/04/2017 11:41	WG976256

Sample Narrative:

353.2 L905668-67 WG976256: Dilution due to matrix

Wet Chemistry by Method 4500CN E-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Cyanide	U		0.0900	0.250	50	05/02/2017 11:13	WG975005

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	206		2.60	50.0	50	05/03/2017 18:52	WG975915
Fluoride	0.960		0.00990	0.100	1	05/03/2017 17:08	WG975915
Sulfate	1850		3.87	250	50	05/03/2017 18:52	WG975915

Mercury by Method 7470A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Mercury	U		0.0000490	0.000200	1	05/02/2017 17:09	WG974957
Mercury,Dissolved	U		0.0000490	0.000200	1	05/02/2017 15:04	WG974958

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.00605		0.000250	0.00200	1	05/05/2017 04:48	WG975082
Arsenic,Dissolved	0.00763		0.000250	0.00200	1	05/05/2017 03:21	WG975071
Barium	0.0167		0.000360	0.00500	1	05/05/2017 04:48	WG975082
Barium,Dissolved	0.0183		0.000360	0.00500	1	05/05/2017 03:21	WG975071
Boron	0.376		0.00150	0.0200	1	05/05/2017 04:48	WG975082
Boron,Dissolved	0.352		0.00150	0.0200	1	05/10/2017 11:53	WG976972
Cadmium	U		0.000160	0.00100	1	05/05/2017 04:48	WG975082
Cadmium,Dissolved	U		0.000160	0.00100	1	05/05/2017 03:21	WG975071
Calcium	409		0.0460	1.00	1	05/05/2017 04:48	WG975082
Chromium	U		0.000540	0.00200	1	05/05/2017 04:48	WG975082
Chromium,Dissolved	U		0.000540	0.00200	1	05/05/2017 03:21	WG975071
Cobalt	U		0.000260	0.00200	1	05/05/2017 04:48	WG975082
Cobalt,Dissolved	U		0.000260	0.00200	1	05/05/2017 03:21	WG975071
Iron	0.0692	J	0.0150	0.100	1	05/05/2017 04:48	WG975082
Iron,Dissolved	0.0270	J	0.0150	0.100	1	05/05/2017 03:21	WG975071
Lead	U		0.000240	0.00200	1	05/05/2017 22:17	WG975082
Lead,Dissolved	U		0.000240	0.00200	1	05/05/2017 03:21	WG975071
Manganese	0.290		0.000250	0.00500	1	05/05/2017 04:48	WG975082
Manganese,Dissolved	0.308		0.000250	0.00500	1	05/05/2017 03:21	WG975071
Nickel	0.000704	J	0.000350	0.00200	1	05/05/2017 04:48	WG975082
Nickel,Dissolved	U		0.000350	0.00200	1	05/05/2017 03:21	WG975071
Potassium	0.597	J	0.0370	1.00	1	05/05/2017 04:48	WG975082

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Selenium	U		0.000380	0.00200	1	05/05/2017 04:48	WG975082
Selenium,Dissolved	U		0.000380	0.00200	1	05/05/2017 03:21	WG975071
Sodium	198		0.110	1.00	1	05/05/2017 04:48	WG975082
Uranium	0.00222	J	0.000330	0.0100	1	05/05/2017 22:17	WG975082
Uranium,Dissolved	0.00218	J	0.000330	0.0100	1	05/05/2017 03:21	WG975071
Vanadium	0.000605	B J	0.000180	0.00500	1	05/05/2017 22:17	WG975082
Vanadium,Dissolved	0.000755	B J	0.000180	0.00500	1	05/05/2017 03:21	WG975071

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	0.343		0.0314	0.100	1	05/01/2017 18:00	WG975386
(S) a,a,a-Trifluorotoluene(FID)	*98.7*			*77.0-122*		*05/01/2017 18:00*	WG975386

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		0.0100	0.0500	1	05/03/2017 03:32	WG975808
Benzene	0.00526		0.000331	0.00100	1	05/03/2017 03:32	WG975808
Bromodichloromethane	U		0.000380	0.00100	1	05/03/2017 03:32	WG975808
Bromoform	U		0.000469	0.00100	1	05/03/2017 03:32	WG975808
Bromomethane	U		0.000866	0.00500	1	05/03/2017 03:32	WG975808
n-Butylbenzene	U		0.000361	0.00100	1	05/03/2017 03:32	WG975808
sec-Butylbenzene	0.00274		0.000365	0.00100	1	05/03/2017 03:32	WG975808
Carbon disulfide	0.000502	J	0.000275	0.00100	1	05/03/2017 03:32	WG975808
Carbon tetrachloride	U		0.000379	0.00100	1	05/03/2017 03:32	WG975808
Chlorobenzene	U		0.000348	0.00100	1	05/03/2017 03:32	WG975808
Chlorodibromomethane	U		0.000327	0.00100	1	05/03/2017 03:32	WG975808
Chloroethane	U		0.000453	0.00500	1	05/03/2017 03:32	WG975808
Chloroform	U		0.000324	0.00500	1	05/03/2017 03:32	WG975808
Chloromethane	U		0.000276	0.00250	1	05/03/2017 03:32	WG975808
1,2-Dibromoethane	U		0.000381	0.00100	1	05/03/2017 03:32	WG975808
1,1-Dichloroethane	U		0.000259	0.00100	1	05/03/2017 03:32	WG975808
1,2-Dichloroethane	U		0.000361	0.00100	1	05/03/2017 03:32	WG975808
1,1-Dichloroethene	U		0.000398	0.00100	1	05/03/2017 03:32	WG975808
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	05/03/2017 03:32	WG975808
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	05/03/2017 03:32	WG975808
1,2-Dichloropropane	U		0.000306	0.00100	1	05/03/2017 03:32	WG975808
cis-1,3-Dichloropropene	U		0.000418	0.00100	1	05/03/2017 03:32	WG975808
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	05/03/2017 03:32	WG975808
Ethylbenzene	0.000556	J	0.000384	0.00100	1	05/03/2017 03:32	WG975808
Isopropylbenzene	0.0174		0.000326	0.00100	1	05/03/2017 03:32	WG975808
p-Isopropyltoluene	U		0.000350	0.00100	1	05/03/2017 03:32	WG975808
2-Butanone (MEK)	U		0.00393	0.0100	1	05/03/2017 03:32	WG975808
2-Hexanone	U		0.00382	0.0100	1	05/03/2017 03:32	WG975808
Methylene Chloride	U		0.00100	0.00500	1	05/03/2017 03:32	WG975808
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	05/03/2017 03:32	WG975808
Methyl tert-butyl ether	U		0.000367	0.00100	1	05/03/2017 03:32	WG975808
Naphthalene	U		0.00100	0.00500	1	05/03/2017 03:32	WG975808
n-Propylbenzene	0.00135		0.000349	0.00100	1	05/03/2017 03:32	WG975808
Styrene	U		0.000307	0.00100	1	05/03/2017 03:32	WG975808
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	05/03/2017 03:32	WG975808
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	05/03/2017 03:32	WG975808
Tetrachloroethene	U		0.000372	0.00100	1	05/03/2017 03:32	WG975808
Toluene	U		0.000412	0.00100	1	05/03/2017 03:32	WG975808

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-Trichloroethane	U		0.000319	0.00100	1	05/03/2017 03:32	WG975808
1,1,2-Trichloroethane	U		0.000383	0.00100	1	05/03/2017 03:32	WG975808
Trichloroethene	U		0.000398	0.00100	1	05/03/2017 03:32	WG975808
1,2,4-Trimethylbenzene	U		0.000373	0.00100	1	05/03/2017 03:32	WG975808
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	05/03/2017 03:32	WG975808
Vinyl chloride	U		0.000259	0.00100	1	05/03/2017 03:32	WG975808
o-Xylene	U		0.000341	0.00100	1	05/03/2017 03:32	WG975808
m&p-Xylene	0.00240		0.000719	0.00200	1	05/03/2017 03:32	WG975808
Xylenes, Total	0.00240	J	0.00106	0.00300	1	05/03/2017 03:32	WG975808
(S) Toluene-d8	*107*			*80.0-120*		*05/03/2017 03:32*	WG975808
(S) Dibromofluoromethane	*105*			*76.0-123*		*05/03/2017 03:32*	WG975808
(S) 4-Bromofluorobenzene	*98.1*			*80.0-120*		*05/03/2017 03:32*	WG975808

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	0.947		0.0247	0.100	1	05/03/2017 05:40	WG975555
(S) o-Terphenyl	*78.4*			*31.0-160*		*05/03/2017 05:40*	WG975555

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	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Dissolved Solids	U		2.82	10.0	1	05/03/2017 15:37	WG975913

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	U		0.0197	0.100	1	05/11/2017 23:07	WG978963

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	0.357	J	0.0519	1.00	1	05/05/2017 13:56	WG976618
Fluoride	U		0.00990	0.100	1	05/05/2017 13:56	WG976618
Sulfate	0.189	J P1	0.0774	5.00	1	05/05/2017 13:56	WG976618

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	U		0.000250	0.00200	1	05/05/2017 04:52	WG975082
Arsenic,Dissolved	U		0.000250	0.00200	1	05/05/2017 03:25	WG975071
Barium	U		0.000360	0.00500	1	05/05/2017 04:52	WG975082
Barium,Dissolved	0.000513	J	0.000360	0.00500	1	05/05/2017 03:25	WG975071
Calcium	U		0.0460	1.00	1	05/05/2017 04:52	WG975082
Chromium	U		0.000540	0.00200	1	05/05/2017 04:52	WG975082
Chromium,Dissolved	0.000593	B J	0.000540	0.00200	1	05/05/2017 03:25	WG975071
Iron	U		0.0150	0.100	1	05/05/2017 04:52	WG975082
Iron,Dissolved	U		0.0150	0.100	1	05/05/2017 03:25	WG975071
Lead	U		0.000240	0.00200	1	05/05/2017 22:20	WG975082
Lead,Dissolved	U		0.000240	0.00200	1	05/05/2017 03:25	WG975071
Manganese	0.000363	B J	0.000250	0.00500	1	05/05/2017 04:52	WG975082
Manganese,Dissolved	U		0.000250	0.00500	1	05/05/2017 03:25	WG975071
Potassium	U		0.0370	1.00	1	05/05/2017 04:52	WG975082
Selenium	U		0.000380	0.00200	1	05/05/2017 04:52	WG975082
Selenium,Dissolved	U		0.000380	0.00200	1	05/05/2017 03:25	WG975071
Sodium	0.133	J	0.110	1.00	1	05/05/2017 04:52	WG975082

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	05/01/2017 18:24	WG975386
(S) a,a,a-Trifluorotoluene(FID)	*101*			*77.0-122*		*05/01/2017 18:24*	WG975386

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		0.0100	0.0500	1	05/03/2017 03:53	WG975808
Benzene	U		0.000331	0.00100	1	05/03/2017 03:53	WG975808
Bromodichloromethane	U		0.000380	0.00100	1	05/03/2017 03:53	WG975808
Bromoform	U		0.000469	0.00100	1	05/03/2017 03:53	WG975808
Bromomethane	U		0.000866	0.00500	1	05/03/2017 03:53	WG975808
n-Butylbenzene	U		0.000361	0.00100	1	05/03/2017 03:53	WG975808
sec-Butylbenzene	U		0.000365	0.00100	1	05/03/2017 03:53	WG975808
Carbon disulfide	U		0.000275	0.00100	1	05/03/2017 03:53	WG975808
Carbon tetrachloride	U		0.000379	0.00100	1	05/03/2017 03:53	WG975808

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chlorobenzene	U		0.000348	0.00100	1	05/03/2017 03:53	WG975808
Chlorodibromomethane	U		0.000327	0.00100	1	05/03/2017 03:53	WG975808
Chloroethane	U		0.000453	0.00500	1	05/03/2017 03:53	WG975808
Chloroform	U		0.000324	0.00500	1	05/03/2017 03:53	WG975808
Chloromethane	U		0.000276	0.00250	1	05/03/2017 03:53	WG975808
1,2-Dibromoethane	U		0.000381	0.00100	1	05/03/2017 03:53	WG975808
1,1-Dichloroethane	U		0.000259	0.00100	1	05/03/2017 03:53	WG975808
1,2-Dichloroethane	U		0.000361	0.00100	1	05/03/2017 03:53	WG975808
1,1-Dichloroethene	U		0.000398	0.00100	1	05/03/2017 03:53	WG975808
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	05/03/2017 03:53	WG975808
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	05/03/2017 03:53	WG975808
1,2-Dichloropropane	U		0.000306	0.00100	1	05/03/2017 03:53	WG975808
cis-1,3-Dichloropropene	U		0.000418	0.00100	1	05/03/2017 03:53	WG975808
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	05/03/2017 03:53	WG975808
Ethylbenzene	U		0.000384	0.00100	1	05/03/2017 03:53	WG975808
Isopropylbenzene	U		0.000326	0.00100	1	05/03/2017 03:53	WG975808
p-Isopropyltoluene	U		0.000350	0.00100	1	05/03/2017 03:53	WG975808
2-Butanone (MEK)	U		0.00393	0.0100	1	05/03/2017 03:53	WG975808
2-Hexanone	U		0.00382	0.0100	1	05/03/2017 03:53	WG975808
Methylene Chloride	U		0.00100	0.00500	1	05/03/2017 03:53	WG975808
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	05/03/2017 03:53	WG975808
Methyl tert-butyl ether	U		0.000367	0.00100	1	05/03/2017 03:53	WG975808
Naphthalene	U		0.00100	0.00500	1	05/03/2017 03:53	WG975808
n-Propylbenzene	U		0.000349	0.00100	1	05/03/2017 03:53	WG975808
Styrene	U		0.000307	0.00100	1	05/03/2017 03:53	WG975808
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	05/03/2017 03:53	WG975808
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	05/03/2017 03:53	WG975808
Tetrachloroethene	U		0.000372	0.00100	1	05/03/2017 03:53	WG975808
Toluene	0.000610	J	0.000412	0.00100	1	05/03/2017 03:53	WG975808
1,1,1-Trichloroethane	U		0.000319	0.00100	1	05/03/2017 03:53	WG975808
1,1,2-Trichloroethane	U		0.000383	0.00100	1	05/03/2017 03:53	WG975808
Trichloroethene	U		0.000398	0.00100	1	05/03/2017 03:53	WG975808
1,2,4-Trimethylbenzene	U		0.000373	0.00100	1	05/03/2017 03:53	WG975808
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	05/03/2017 03:53	WG975808
Vinyl chloride	U		0.000259	0.00100	1	05/03/2017 03:53	WG975808
o-Xylene	U		0.000341	0.00100	1	05/03/2017 03:53	WG975808
m&p-Xylene	U		0.000719	0.00200	1	05/03/2017 03:53	WG975808
Xylenes, Total	U		0.00106	0.00300	1	05/03/2017 03:53	WG975808
(S) Toluene-d8	*106*			*80.0-120*		*05/03/2017 03:53*	WG975808
(S) Dibromofluoromethane	*105*			*76.0-123*		*05/03/2017 03:53*	WG975808
(S) 4-Bromofluorobenzene	*102*			*80.0-120*		*05/03/2017 03:53*	WG975808

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	0.0276	J	0.0247	0.100	1	05/04/2017 22:52	WG975555
(S) o-Terphenyl	*62.8*			*31.0-160*		*05/04/2017 22:52*	WG975555

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Dissolved Solids	U		2.82	10.0	1	05/03/2017 15:37	WG975913

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	U		0.0197	0.100	1	05/11/2017 22:30	WG978963

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	05/02/2017 15:06	WG975491

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	0.375	J	0.0519	1.00	1	05/03/2017 17:43	WG975915
Fluoride	U		0.00990	0.100	1	05/03/2017 17:43	WG975915
Sulfate	U		0.0774	5.00	1	05/03/2017 17:43	WG975915

Mercury by Method 7470A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Mercury	U		0.0000490	0.000200	1	05/02/2017 17:16	WG974957
Mercury,Dissolved	U		0.0000490	0.000200	1	05/02/2017 15:06	WG974958

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	U		0.000250	0.00200	1	05/05/2017 04:56	WG975082
Arsenic,Dissolved	U		0.000250	0.00200	1	05/05/2017 03:29	WG975071
Barium	U		0.000360	0.00500	1	05/05/2017 04:56	WG975082
Barium,Dissolved	U		0.000360	0.00500	1	05/05/2017 03:29	WG975071
Boron	0.0307	B	0.00150	0.0200	1	05/05/2017 04:56	WG975082
Boron,Dissolved	0.0189	J	0.00150	0.0200	1	05/10/2017 11:56	WG976972
Cadmium	U		0.000160	0.00100	1	05/05/2017 04:56	WG975082
Cadmium,Dissolved	U		0.000160	0.00100	1	05/05/2017 03:29	WG975071
Calcium	U		0.0460	1.00	1	05/05/2017 04:56	WG975082
Chromium	U		0.000540	0.00200	1	05/05/2017 04:56	WG975082
Chromium,Dissolved	0.00115	B J	0.000540	0.00200	1	05/05/2017 03:29	WG975071
Cobalt	U		0.000260	0.00200	1	05/05/2017 04:56	WG975082
Cobalt,Dissolved	U		0.000260	0.00200	1	05/05/2017 03:29	WG975071
Iron	U		0.0150	0.100	1	05/05/2017 04:56	WG975082
Iron,Dissolved	U		0.0150	0.100	1	05/05/2017 03:29	WG975071
Lead	U		0.000240	0.00200	1	05/05/2017 22:24	WG975082
Lead,Dissolved	U		0.000240	0.00200	1	05/05/2017 03:29	WG975071
Manganese	0.000537	B J	0.000250	0.00500	1	05/05/2017 04:56	WG975082
Manganese,Dissolved	0.00181	J	0.000250	0.00500	1	05/05/2017 03:29	WG975071
Nickel	0.00305		0.000350	0.00200	1	05/05/2017 04:56	WG975082
Nickel,Dissolved	0.000526	B J	0.000350	0.00200	1	05/05/2017 03:29	WG975071
Potassium	U		0.0370	1.00	1	05/05/2017 04:56	WG975082
Selenium	U		0.000380	0.00200	1	05/05/2017 04:56	WG975082
Selenium,Dissolved	U		0.000380	0.00200	1	05/05/2017 03:29	WG975071
Sodium	U		0.110	1.00	1	05/05/2017 04:56	WG975082

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Uranium	U		0.000330	0.0100	1	05/05/2017 22:24	WG975082
Uranium,Dissolved	U		0.000330	0.0100	1	05/05/2017 03:29	WG975071
Vanadium	0.000556	B J	0.000180	0.00500	1	05/05/2017 04:56	WG975082
Vanadium,Dissolved	0.000540	B J	0.000180	0.00500	1	05/05/2017 03:29	WG975071

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	05/01/2017 18:48	WG975386
(S) a,a,a-Trifluorotoluene(FID)	*101*			*77.0-122*		*05/01/2017 18:48*	WG975386

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		0.0100	0.0500	1	05/03/2017 04:13	WG975808
Benzene	U		0.000331	0.00100	1	05/03/2017 04:13	WG975808
Bromodichloromethane	U		0.000380	0.00100	1	05/03/2017 04:13	WG975808
Bromoform	U		0.000469	0.00100	1	05/03/2017 04:13	WG975808
Bromomethane	U		0.000866	0.00500	1	05/03/2017 04:13	WG975808
n-Butylbenzene	U		0.000361	0.00100	1	05/03/2017 04:13	WG975808
sec-Butylbenzene	U		0.000365	0.00100	1	05/03/2017 04:13	WG975808
Carbon disulfide	U		0.000275	0.00100	1	05/03/2017 04:13	WG975808
Carbon tetrachloride	U		0.000379	0.00100	1	05/03/2017 04:13	WG975808
Chlorobenzene	U		0.000348	0.00100	1	05/03/2017 04:13	WG975808
Chlorodibromomethane	U		0.000327	0.00100	1	05/03/2017 04:13	WG975808
Chloroethane	U		0.000453	0.00500	1	05/03/2017 04:13	WG975808
Chloroform	U		0.000324	0.00500	1	05/03/2017 04:13	WG975808
Chloromethane	U		0.000276	0.00250	1	05/03/2017 04:13	WG975808
1,2-Dibromoethane	U		0.000381	0.00100	1	05/03/2017 04:13	WG975808
1,1-Dichloroethane	U		0.000259	0.00100	1	05/03/2017 04:13	WG975808
1,2-Dichloroethane	U		0.000361	0.00100	1	05/03/2017 04:13	WG975808
1,1-Dichloroethene	U		0.000398	0.00100	1	05/03/2017 04:13	WG975808
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	05/03/2017 04:13	WG975808
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	05/03/2017 04:13	WG975808
1,2-Dichloropropane	U		0.000306	0.00100	1	05/03/2017 04:13	WG975808
cis-1,3-Dichloropropene	U		0.000418	0.00100	1	05/03/2017 04:13	WG975808
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	05/03/2017 04:13	WG975808
Ethylbenzene	U		0.000384	0.00100	1	05/03/2017 04:13	WG975808
Isopropylbenzene	U		0.000326	0.00100	1	05/03/2017 04:13	WG975808
p-Isopropyltoluene	U		0.000350	0.00100	1	05/03/2017 04:13	WG975808
2-Butanone (MEK)	U		0.00393	0.0100	1	05/03/2017 04:13	WG975808
2-Hexanone	U		0.00382	0.0100	1	05/03/2017 04:13	WG975808
Methylene Chloride	U		0.00100	0.00500	1	05/03/2017 04:13	WG975808
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	05/03/2017 04:13	WG975808
Methyl tert-butyl ether	U		0.000367	0.00100	1	05/03/2017 04:13	WG975808
Naphthalene	U		0.00100	0.00500	1	05/03/2017 04:13	WG975808
n-Propylbenzene	U		0.000349	0.00100	1	05/03/2017 04:13	WG975808
Styrene	U		0.000307	0.00100	1	05/03/2017 04:13	WG975808
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	05/03/2017 04:13	WG975808
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	05/03/2017 04:13	WG975808
Tetrachloroethene	U		0.000372	0.00100	1	05/03/2017 04:13	WG975808
Toluene	U		0.000412	0.00100	1	05/03/2017 04:13	WG975808
1,1,1-Trichloroethane	U		0.000319	0.00100	1	05/03/2017 04:13	WG975808
1,1,2-Trichloroethane	U		0.000383	0.00100	1	05/03/2017 04:13	WG975808
Trichloroethene	U		0.000398	0.00100	1	05/03/2017 04:13	WG975808

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
1,2,4-Trimethylbenzene	U		0.000373	0.00100	1	05/03/2017 04:13	WG975808
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	05/03/2017 04:13	WG975808
Vinyl chloride	U		0.000259	0.00100	1	05/03/2017 04:13	WG975808
o-Xylene	U		0.000341	0.00100	1	05/03/2017 04:13	WG975808
m&p-Xylene	U		0.000719	0.00200	1	05/03/2017 04:13	WG975808
Xylenes, Total	U		0.00106	0.00300	1	05/03/2017 04:13	WG975808
(S) Toluene-d8	*107*			*80.0-120*		*05/03/2017 04:13*	WG975808
(S) Dibromofluoromethane	*103*			*76.0-123*		*05/03/2017 04:13*	WG975808
(S) 4-Bromofluorobenzene	*99.4*			*80.0-120*		*05/03/2017 04:13*	WG975808

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	05/03/2017 06:14	WG975555
(S) o-Terphenyl	*53.7*			*31.0-160*		*05/03/2017 06:14*	WG975555

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		0.0100	0.0500	1	05/02/2017 18:13	WG975945
Benzene	U		0.000331	0.00100	1	05/02/2017 18:13	WG975945
Bromodichloromethane	U		0.000380	0.00100	1	05/02/2017 18:13	WG975945
Bromoform	U		0.000469	0.00100	1	05/02/2017 18:13	WG975945
Bromomethane	U		0.000866	0.00500	1	05/02/2017 18:13	WG975945
n-Butylbenzene	U		0.000361	0.00100	1	05/02/2017 18:13	WG975945
sec-Butylbenzene	U		0.000365	0.00100	1	05/02/2017 18:13	WG975945
Carbon disulfide	U		0.000275	0.00100	1	05/02/2017 18:13	WG975945
Carbon tetrachloride	U		0.000379	0.00100	1	05/02/2017 18:13	WG975945
Chlorobenzene	U		0.000348	0.00100	1	05/02/2017 18:13	WG975945
Chlorodibromomethane	U		0.000327	0.00100	1	05/02/2017 18:13	WG975945
Chloroethane	U		0.000453	0.00500	1	05/02/2017 18:13	WG975945
Chloroform	U		0.000324	0.00500	1	05/02/2017 18:13	WG975945
Chloromethane	U		0.000276	0.00250	1	05/02/2017 18:13	WG975945
1,2-Dibromoethane	U		0.000381	0.00100	1	05/02/2017 18:13	WG975945
1,1-Dichloroethane	U		0.000259	0.00100	1	05/02/2017 18:13	WG975945
1,2-Dichloroethane	U		0.000361	0.00100	1	05/02/2017 18:13	WG975945
1,1-Dichloroethene	U		0.000398	0.00100	1	05/02/2017 18:13	WG975945
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	05/02/2017 18:13	WG975945
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	05/02/2017 18:13	WG975945
1,2-Dichloropropane	U		0.000306	0.00100	1	05/02/2017 18:13	WG975945
cis-1,3-Dichloropropene	U		0.000418	0.00100	1	05/02/2017 18:13	WG975945
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	05/02/2017 18:13	WG975945
Ethylbenzene	U		0.000384	0.00100	1	05/02/2017 18:13	WG975945
Isopropylbenzene	U		0.000326	0.00100	1	05/02/2017 18:13	WG975945
p-Isopropyltoluene	U		0.000350	0.00100	1	05/02/2017 18:13	WG975945
2-Butanone (MEK)	U		0.00393	0.0100	1	05/02/2017 18:13	WG975945
2-Hexanone	U		0.00382	0.0100	1	05/02/2017 18:13	WG975945
Methylene Chloride	U		0.00100	0.00500	1	05/02/2017 18:13	WG975945
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	05/02/2017 18:13	WG975945
Methyl tert-butyl ether	U		0.000367	0.00100	1	05/02/2017 18:13	WG975945
Naphthalene	U		0.00100	0.00500	1	05/02/2017 18:13	WG975945
n-Propylbenzene	U		0.000349	0.00100	1	05/02/2017 18:13	WG975945
Styrene	U		0.000307	0.00100	1	05/02/2017 18:13	WG975945
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	05/02/2017 18:13	WG975945
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	05/02/2017 18:13	WG975945
Tetrachloroethene	U		0.000372	0.00100	1	05/02/2017 18:13	WG975945
Toluene	U		0.000412	0.00100	1	05/02/2017 18:13	WG975945
1,1,1-Trichloroethane	U		0.000319	0.00100	1	05/02/2017 18:13	WG975945
1,1,2-Trichloroethane	U		0.000383	0.00100	1	05/02/2017 18:13	WG975945
Trichloroethene	U		0.000398	0.00100	1	05/02/2017 18:13	WG975945
1,2,4-Trimethylbenzene	U		0.000373	0.00100	1	05/02/2017 18:13	WG975945
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	05/02/2017 18:13	WG975945
Vinyl chloride	U		0.000259	0.00100	1	05/02/2017 18:13	WG975945
o-Xylene	U		0.000341	0.00100	1	05/02/2017 18:13	WG975945
m&p-Xylene	U		0.000719	0.00200	1	05/02/2017 18:13	WG975945
Xylenes, Total	U		0.00106	0.00300	1	05/02/2017 18:13	WG975945
(S) Toluene-d8	*107*			*80.0-120*		*05/02/2017 18:13*	WG975945
(S) Dibromofluoromethane	*109*			*76.0-123*		*05/02/2017 18:13*	WG975945
(S) 4-Bromofluorobenzene	*92.4*			*80.0-120*		*05/02/2017 18:13*	WG975945

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	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Acetone	U		0.0100	0.0500	1	05/02/2017 18:36	WG975945
Benzene	U		0.000331	0.00100	1	05/02/2017 18:36	WG975945
Bromodichloromethane	U		0.000380	0.00100	1	05/02/2017 18:36	WG975945
Bromoform	U		0.000469	0.00100	1	05/02/2017 18:36	WG975945
Bromomethane	U		0.000866	0.00500	1	05/02/2017 18:36	WG975945
n-Butylbenzene	U		0.000361	0.00100	1	05/02/2017 18:36	WG975945
sec-Butylbenzene	U		0.000365	0.00100	1	05/02/2017 18:36	WG975945
Carbon disulfide	U		0.000275	0.00100	1	05/02/2017 18:36	WG975945
Carbon tetrachloride	U		0.000379	0.00100	1	05/02/2017 18:36	WG975945
Chlorobenzene	U		0.000348	0.00100	1	05/02/2017 18:36	WG975945
Chlorodibromomethane	U		0.000327	0.00100	1	05/02/2017 18:36	WG975945
Chloroethane	U		0.000453	0.00500	1	05/02/2017 18:36	WG975945
Chloroform	U		0.000324	0.00500	1	05/02/2017 18:36	WG975945
Chloromethane	U		0.000276	0.00250	1	05/02/2017 18:36	WG975945
1,2-Dibromoethane	U		0.000381	0.00100	1	05/02/2017 18:36	WG975945
1,1-Dichloroethane	U		0.000259	0.00100	1	05/02/2017 18:36	WG975945
1,2-Dichloroethane	U		0.000361	0.00100	1	05/02/2017 18:36	WG975945
1,1-Dichloroethene	U		0.000398	0.00100	1	05/02/2017 18:36	WG975945
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	05/02/2017 18:36	WG975945
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	05/02/2017 18:36	WG975945
1,2-Dichloropropane	U		0.000306	0.00100	1	05/02/2017 18:36	WG975945
cis-1,3-Dichloropropene	U		0.000418	0.00100	1	05/02/2017 18:36	WG975945
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	05/02/2017 18:36	WG975945
Ethylbenzene	U		0.000384	0.00100	1	05/02/2017 18:36	WG975945
Isopropylbenzene	U		0.000326	0.00100	1	05/02/2017 18:36	WG975945
p-Isopropyltoluene	U		0.000350	0.00100	1	05/02/2017 18:36	WG975945
2-Butanone (MEK)	U		0.00393	0.0100	1	05/02/2017 18:36	WG975945
2-Hexanone	U		0.00382	0.0100	1	05/02/2017 18:36	WG975945
Methylene Chloride	U		0.00100	0.00500	1	05/02/2017 18:36	WG975945
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	05/02/2017 18:36	WG975945
Methyl tert-butyl ether	U		0.000367	0.00100	1	05/02/2017 18:36	WG975945
Naphthalene	U		0.00100	0.00500	1	05/02/2017 18:36	WG975945
n-Propylbenzene	U		0.000349	0.00100	1	05/02/2017 18:36	WG975945
Styrene	U		0.000307	0.00100	1	05/02/2017 18:36	WG975945
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	05/02/2017 18:36	WG975945
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	05/02/2017 18:36	WG975945
Tetrachloroethene	U		0.000372	0.00100	1	05/02/2017 18:36	WG975945
Toluene	U		0.000412	0.00100	1	05/02/2017 18:36	WG975945
1,1,1-Trichloroethane	U		0.000319	0.00100	1	05/02/2017 18:36	WG975945
1,1,2-Trichloroethane	U		0.000383	0.00100	1	05/02/2017 18:36	WG975945
Trichloroethene	U		0.000398	0.00100	1	05/02/2017 18:36	WG975945
1,2,4-Trimethylbenzene	U		0.000373	0.00100	1	05/02/2017 18:36	WG975945
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	05/02/2017 18:36	WG975945
Vinyl chloride	U		0.000259	0.00100	1	05/02/2017 18:36	WG975945
o-Xylene	U		0.000341	0.00100	1	05/02/2017 18:36	WG975945
m&p-Xylene	U		0.000719	0.00200	1	05/02/2017 18:36	WG975945
Xylenes, Total	U		0.00106	0.00300	1	05/02/2017 18:36	WG975945
(S) Toluene-d8	*107*			*80.0-120*		*05/02/2017 18:36*	WG975945
(S) Dibromofluoromethane	*111*			*76.0-123*		*05/02/2017 18:36*	WG975945
(S) 4-Bromofluorobenzene	*90.5*			*80.0-120*		*05/02/2017 18:36*	WG975945

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	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Dissolved Solids	1820		2.82	10.0	1	05/02/2017 17:49	WG975509

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	U		0.197	1.00	10	05/04/2017 11:50	WG976256

Sample Narrative:

353.2 L905668-73 WG976256: 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	163		1.04	20.0	20	05/03/2017 19:10	WG975915
Fluoride	0.731		0.00990	0.100	1	05/03/2017 18:00	WG975915
Sulfate	665		1.55	100	20	05/03/2017 19:10	WG975915

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.0343		0.000250	0.00200	1	05/05/2017 04:59	WG975082
Arsenic,Dissolved	0.0346		0.000250	0.00200	1	05/05/2017 03:32	WG975071
Barium	0.0593		0.000360	0.00500	1	05/05/2017 04:59	WG975082
Barium,Dissolved	0.0661		0.000360	0.00500	1	05/05/2017 03:32	WG975071
Calcium	218		0.0460	1.00	1	05/05/2017 04:59	WG975082
Chromium	0.00135	J	0.000540	0.00200	1	05/05/2017 04:59	WG975082
Chromium,Dissolved	U		0.000540	0.00200	1	05/05/2017 03:32	WG975071
Iron	9.50		0.0150	0.100	1	05/05/2017 04:59	WG975082
Iron,Dissolved	2.13		0.0150	0.100	1	05/05/2017 03:32	WG975071
Lead	0.00169	J	0.000240	0.00200	1	05/05/2017 22:28	WG975082
Lead,Dissolved	U		0.000240	0.00200	1	05/05/2017 03:32	WG975071
Manganese	1.12		0.000250	0.00500	1	05/05/2017 04:59	WG975082
Manganese,Dissolved	1.14		0.000250	0.00500	1	05/05/2017 03:32	WG975071
Potassium	0.360	J	0.0370	1.00	1	05/05/2017 04:59	WG975082
Selenium	U		0.000380	0.00200	1	05/05/2017 04:59	WG975082
Selenium,Dissolved	U		0.000380	0.00200	1	05/05/2017 03:32	WG975071
Sodium	161		0.110	1.00	1	05/05/2017 04:59	WG975082

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		0.0100	0.0500	1	05/03/2017 04:34	WG975808
Benzene	0.0718		0.000331	0.00100	1	05/03/2017 04:34	WG975808
Bromodichloromethane	U		0.000380	0.00100	1	05/03/2017 04:34	WG975808
Bromoform	U		0.000469	0.00100	1	05/03/2017 04:34	WG975808
Bromomethane	U		0.000866	0.00500	1	05/03/2017 04:34	WG975808
n-Butylbenzene	0.00837		0.000361	0.00100	1	05/03/2017 04:34	WG975808
sec-Butylbenzene	0.0117		0.000365	0.00100	1	05/03/2017 04:34	WG975808
Carbon disulfide	0.00138		0.000275	0.00100	1	05/03/2017 04:34	WG975808
Carbon tetrachloride	U		0.000379	0.00100	1	05/03/2017 04:34	WG975808
Chlorobenzene	U		0.000348	0.00100	1	05/03/2017 04:34	WG975808
Chlorodibromomethane	U		0.000327	0.00100	1	05/03/2017 04:34	WG975808
Chloroethane	U		0.000453	0.00500	1	05/03/2017 04:34	WG975808
Chloroform	U		0.000324	0.00500	1	05/03/2017 04:34	WG975808

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

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloromethane	U		0.000276	0.00250	1	05/03/2017 04:34	WG975808
1,2-Dibromoethane	U		0.000381	0.00100	1	05/03/2017 04:34	WG975808
1,1-Dichloroethane	U		0.000259	0.00100	1	05/03/2017 04:34	WG975808
1,2-Dichloroethane	0.00343		0.000361	0.00100	1	05/03/2017 04:34	WG975808
1,1-Dichloroethene	U		0.000398	0.00100	1	05/03/2017 04:34	WG975808
cis-1,2-Dichloroethene	0.000478	J	0.000260	0.00100	1	05/03/2017 04:34	WG975808
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	05/03/2017 04:34	WG975808
1,2-Dichloropropane	U		0.000306	0.00100	1	05/03/2017 04:34	WG975808
cis-1,3-Dichloropropene	U		0.000418	0.00100	1	05/03/2017 04:34	WG975808
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	05/03/2017 04:34	WG975808
Ethylbenzene	0.0198		0.000384	0.00100	1	05/03/2017 04:34	WG975808
Isopropylbenzene	0.0193		0.000326	0.00100	1	05/03/2017 04:34	WG975808
p-Isopropyltoluene	0.00735		0.000350	0.00100	1	05/03/2017 04:34	WG975808
2-Butanone (MEK)	U		0.00393	0.0100	1	05/03/2017 04:34	WG975808
2-Hexanone	U		0.00382	0.0100	1	05/03/2017 04:34	WG975808
Methylene Chloride	U		0.00100	0.00500	1	05/03/2017 04:34	WG975808
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	05/03/2017 04:34	WG975808
Methyl tert-butyl ether	1.94		0.00734	0.0200	20	05/03/2017 21:25	WG975808
Naphthalene	0.0320		0.00100	0.00500	1	05/03/2017 04:34	WG975808
n-Propylbenzene	0.0191		0.000349	0.00100	1	05/03/2017 04:34	WG975808
Styrene	U		0.000307	0.00100	1	05/03/2017 04:34	WG975808
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	05/03/2017 04:34	WG975808
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	05/03/2017 04:34	WG975808
Tetrachloroethene	U		0.000372	0.00100	1	05/03/2017 04:34	WG975808
Toluene	0.00213		0.000412	0.00100	1	05/03/2017 04:34	WG975808
1,1,1-Trichloroethane	U		0.000319	0.00100	1	05/03/2017 04:34	WG975808
1,1,2-Trichloroethane	U		0.000383	0.00100	1	05/03/2017 04:34	WG975808
Trichloroethene	0.00110		0.000398	0.00100	1	05/03/2017 04:34	WG975808
1,2,4-Trimethylbenzene	0.0928		0.000373	0.00100	1	05/03/2017 04:34	WG975808
1,3,5-Trimethylbenzene	0.0249		0.000387	0.00100	1	05/03/2017 04:34	WG975808
Vinyl chloride	U		0.000259	0.00100	1	05/03/2017 04:34	WG975808
o-Xylene	0.0112		0.000341	0.00100	1	05/03/2017 04:34	WG975808
m&p-Xylene	0.0386		0.000719	0.00200	1	05/03/2017 04:34	WG975808
Xylenes, Total	0.0498		0.00106	0.00300	1	05/03/2017 04:34	WG975808
(S) Toluene-d8	*102*			*80.0-120*		*05/03/2017 21:25*	WG975808
(S) Toluene-d8	*108*			*80.0-120*		*05/03/2017 04:34*	WG975808
(S) Dibromofluoromethane	*101*			*76.0-123*		*05/03/2017 04:34*	WG975808
(S) Dibromofluoromethane	*101*			*76.0-123*		*05/03/2017 21:25*	WG975808
(S) 4-Bromofluorobenzene	*98.8*			*80.0-120*		*05/03/2017 04:34*	WG975808
(S) 4-Bromofluorobenzene	*99.0*			*80.0-120*		*05/03/2017 21:25*	WG975808

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	11.6		0.124	0.500	5	05/06/2017 01:34	WG975555
(S) o-Terphenyl	*66.5*			*31.0-160*		*05/06/2017 01:34*	WG975555

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Dissolved Solids	1390		2.82	10.0	1	05/03/2017 15:37	WG975913

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	U		0.197	1.00	10	05/04/2017 11:51	WG976256

Sample Narrative:

353.2 L905668-74 WG976256: 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	234		1.04	20.0	20	05/03/2017 19:27	WG975915
Fluoride	0.926		0.00990	0.100	1	05/03/2017 18:18	WG975915
Sulfate	160		1.55	100	20	05/03/2017 19:27	WG975915

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.0659		0.000250	0.00200	1	05/02/2017 19:20	WG975340
Arsenic,Dissolved	0.0509		0.000250	0.00200	1	05/10/2017 17:12	WG978287
Barium	0.0732		0.000360	0.00500	1	05/02/2017 19:20	WG975340
Barium,Dissolved	0.0725		0.000360	0.00500	1	05/10/2017 17:12	WG978287
Calcium	197		0.0460	1.00	1	05/02/2017 19:20	WG975340
Chromium	U		0.000540	0.00200	1	05/02/2017 19:20	WG975340
Chromium,Dissolved	U		0.000540	0.00200	1	05/10/2017 17:12	WG978287
Iron	1.18		0.0150	0.100	1	05/02/2017 19:20	WG975340
Iron,Dissolved	0.0151	J	0.0150	0.100	1	05/10/2017 17:12	WG978287
Lead	U		0.000240	0.00200	1	05/02/2017 19:20	WG975340
Lead,Dissolved	U		0.000240	0.00200	1	05/10/2017 17:12	WG978287
Manganese	1.18		0.000250	0.00500	1	05/02/2017 19:20	WG975340
Manganese,Dissolved	1.14		0.000250	0.00500	1	05/10/2017 17:12	WG978287
Potassium	0.587	J	0.0370	1.00	1	05/02/2017 19:20	WG975340
Selenium	U		0.000380	0.00200	1	05/02/2017 19:20	WG975340
Selenium,Dissolved	U		0.000380	0.00200	1	05/10/2017 17:12	WG978287
Sodium	139		0.110	1.00	1	05/02/2017 19:20	WG975340

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	0.311		0.0314	0.100	1	05/01/2017 14:19	WG975393
(S) a,a,a-Trifluorotoluene(FID)	*99.5*			*77.0-122*		*05/01/2017 14:19*	WG975393

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		0.0100	0.0500	1	05/02/2017 22:58	WG975945
Benzene	0.00650		0.000331	0.00100	1	05/02/2017 22:58	WG975945
Bromodichloromethane	U		0.000380	0.00100	1	05/02/2017 22:58	WG975945
Bromoform	U		0.000469	0.00100	1	05/02/2017 22:58	WG975945
Bromomethane	U		0.000866	0.00500	1	05/02/2017 22:58	WG975945
n-Butylbenzene	U		0.000361	0.00100	1	05/02/2017 22:58	WG975945

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	0.00132		0.000365	0.00100	1	05/02/2017 22:58	WG975945
Carbon disulfide	U		0.000275	0.00100	1	05/02/2017 22:58	WG975945
Carbon tetrachloride	U		0.000379	0.00100	1	05/02/2017 22:58	WG975945
Chlorobenzene	U		0.000348	0.00100	1	05/02/2017 22:58	WG975945
Chlorodibromomethane	U		0.000327	0.00100	1	05/02/2017 22:58	WG975945
Chloroethane	U		0.000453	0.00500	1	05/02/2017 22:58	WG975945
Chloroform	U		0.000324	0.00500	1	05/02/2017 22:58	WG975945
Chloromethane	U		0.000276	0.00250	1	05/02/2017 22:58	WG975945
1,2-Dibromoethane	U		0.000381	0.00100	1	05/02/2017 22:58	WG975945
1,1-Dichloroethane	U		0.000259	0.00100	1	05/02/2017 22:58	WG975945
1,2-Dichloroethane	U		0.000361	0.00100	1	05/02/2017 22:58	WG975945
1,1-Dichloroethene	U		0.000398	0.00100	1	05/02/2017 22:58	WG975945
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	05/02/2017 22:58	WG975945
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	05/02/2017 22:58	WG975945
1,2-Dichloropropane	U		0.000306	0.00100	1	05/02/2017 22:58	WG975945
cis-1,3-Dichloropropene	U		0.000418	0.00100	1	05/02/2017 22:58	WG975945
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	05/02/2017 22:58	WG975945
Ethylbenzene	0.000830	J	0.000384	0.00100	1	05/02/2017 22:58	WG975945
Isopropylbenzene	0.00413		0.000326	0.00100	1	05/02/2017 22:58	WG975945
p-Isopropyltoluene	U		0.000350	0.00100	1	05/02/2017 22:58	WG975945
2-Butanone (MEK)	U		0.00393	0.0100	1	05/02/2017 22:58	WG975945
2-Hexanone	U		0.00382	0.0100	1	05/02/2017 22:58	WG975945
Methylene Chloride	U		0.00100	0.00500	1	05/02/2017 22:58	WG975945
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	05/02/2017 22:58	WG975945
Methyl tert-butyl ether	0.107		0.000367	0.00100	1	05/02/2017 22:58	WG975945
Naphthalene	U		0.00100	0.00500	1	05/02/2017 22:58	WG975945
n-Propylbenzene	0.000928	J	0.000349	0.00100	1	05/02/2017 22:58	WG975945
Styrene	U		0.000307	0.00100	1	05/02/2017 22:58	WG975945
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	05/02/2017 22:58	WG975945
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	05/02/2017 22:58	WG975945
Tetrachloroethene	U		0.000372	0.00100	1	05/02/2017 22:58	WG975945
Toluene	U		0.000412	0.00100	1	05/02/2017 22:58	WG975945
1,1,1-Trichloroethane	U		0.000319	0.00100	1	05/02/2017 22:58	WG975945
1,1,2-Trichloroethane	U		0.000383	0.00100	1	05/02/2017 22:58	WG975945
Trichloroethene	U		0.000398	0.00100	1	05/02/2017 22:58	WG975945
1,2,4-Trimethylbenzene	U		0.000373	0.00100	1	05/02/2017 22:58	WG975945
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	05/02/2017 22:58	WG975945
Vinyl chloride	U		0.000259	0.00100	1	05/02/2017 22:58	WG975945
o-Xylene	U		0.000341	0.00100	1	05/02/2017 22:58	WG975945
m&p-Xylene	U		0.000719	0.00200	1	05/02/2017 22:58	WG975945
Xylenes, Total	U		0.00106	0.00300	1	05/02/2017 22:58	WG975945
(S) Toluene-d8	*107*			*80.0-120*		*05/02/2017 22:58*	WG975945
(S) Dibromofluoromethane	*107*			*76.0-123*		*05/02/2017 22:58*	WG975945
(S) 4-Bromofluorobenzene	*93.8*			*80.0-120*		*05/02/2017 22:58*	WG975945

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	3.72		0.0247	0.100	1	05/03/2017 08:13	WG975555
(S) o-Terphenyl	*73.9*			*31.0-160*		*05/03/2017 08:13*	WG975555

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Dissolved Solids	3190		2.82	10.0	1	05/03/2017 15:37	WG975913

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	U		0.197	1.00	10	05/04/2017 11:52	WG976256

Sample Narrative:

353.2 L905668-75 WG976256: 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	156		2.60	50.0	50	05/03/2017 22:22	WG975915
Fluoride	1.76		0.00990	0.100	1	05/03/2017 21:47	WG975915
Sulfate	1550		3.87	250	50	05/03/2017 22:22	WG975915

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.000786	J	0.000250	0.00200	1	05/02/2017 19:23	WG975340
Arsenic,Dissolved	0.00103	J	0.000250	0.00200	1	05/10/2017 17:16	WG978287
Barium	0.0249		0.000360	0.00500	1	05/02/2017 19:23	WG975340
Barium,Dissolved	0.0255		0.000360	0.00500	1	05/10/2017 17:16	WG978287
Calcium	474		0.0460	1.00	1	05/02/2017 19:23	WG975340
Chromium	U		0.000540	0.00200	1	05/02/2017 19:23	WG975340
Chromium,Dissolved	U		0.000540	0.00200	1	05/10/2017 17:16	WG978287
Iron	0.0151	J	0.0150	0.100	1	05/02/2017 19:23	WG975340
Iron,Dissolved	U		0.0150	0.100	1	05/10/2017 17:16	WG978287
Lead	0.000660	J	0.000240	0.00200	1	05/02/2017 19:23	WG975340
Lead,Dissolved	U		0.000240	0.00200	1	05/10/2017 17:16	WG978287
Manganese	0.0241		0.000250	0.00500	1	05/02/2017 19:23	WG975340
Manganese,Dissolved	0.0249		0.000250	0.00500	1	05/10/2017 17:16	WG978287
Potassium	1.62		0.0370	1.00	1	05/02/2017 19:23	WG975340
Selenium	0.0704		0.000380	0.00200	1	05/02/2017 19:23	WG975340
Selenium,Dissolved	U		0.000380	0.00200	1	05/10/2017 17:16	WG978287
Sodium	110		0.110	1.00	1	05/02/2017 19:23	WG975340

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	1.29		0.0314	0.100	1	05/01/2017 14:40	WG975393
(S) a,a,a-Trifluorotoluene(FID)	*93.4*			*77.0-122*		*05/01/2017 14:40*	WG975393

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		0.0100	0.0500	1	05/03/2017 22:17	WG975945
Benzene	0.00857		0.000331	0.00100	1	05/03/2017 22:17	WG975945
Bromodichloromethane	U		0.000380	0.00100	1	05/03/2017 22:17	WG975945
Bromoform	U		0.000469	0.00100	1	05/03/2017 22:17	WG975945
Bromomethane	U		0.000866	0.00500	1	05/03/2017 22:17	WG975945
n-Butylbenzene	U		0.000361	0.00100	1	05/03/2017 22:17	WG975945

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	0.0167		0.000365	0.00100	1	05/03/2017 22:17	WG975945
Carbon disulfide	0.00128		0.000275	0.00100	1	05/03/2017 22:17	WG975945
Carbon tetrachloride	U		0.000379	0.00100	1	05/03/2017 22:17	WG975945
Chlorobenzene	U		0.000348	0.00100	1	05/03/2017 22:17	WG975945
Chlorodibromomethane	U		0.000327	0.00100	1	05/03/2017 22:17	WG975945
Chloroethane	U		0.000453	0.00500	1	05/03/2017 22:17	WG975945
Chloroform	U		0.000324	0.00500	1	05/03/2017 22:17	WG975945
Chloromethane	U		0.000276	0.00250	1	05/03/2017 22:17	WG975945
1,2-Dibromoethane	U		0.000381	0.00100	1	05/03/2017 22:17	WG975945
1,1-Dichloroethane	U		0.000259	0.00100	1	05/03/2017 22:17	WG975945
1,2-Dichloroethane	U		0.000361	0.00100	1	05/03/2017 22:17	WG975945
1,1-Dichloroethene	U		0.000398	0.00100	1	05/03/2017 22:17	WG975945
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	05/03/2017 22:17	WG975945
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	05/03/2017 22:17	WG975945
1,2-Dichloropropane	0.000706	J	0.000306	0.00100	1	05/03/2017 22:17	WG975945
cis-1,3-Dichloropropene	U		0.000418	0.00100	1	05/03/2017 22:17	WG975945
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	05/03/2017 22:17	WG975945
Ethylbenzene	0.000721	J	0.000384	0.00100	1	05/03/2017 22:17	WG975945
Isopropylbenzene	0.0804		0.000326	0.00100	1	05/03/2017 22:17	WG975945
p-Isopropyltoluene	0.000356	J	0.000350	0.00100	1	05/03/2017 22:17	WG975945
2-Butanone (MEK)	U		0.00393	0.0100	1	05/03/2017 22:17	WG975945
2-Hexanone	U		0.00382	0.0100	1	05/03/2017 22:17	WG975945
Methylene Chloride	U		0.00100	0.00500	1	05/03/2017 22:17	WG975945
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	05/03/2017 22:17	WG975945
Methyl tert-butyl ether	U		0.000367	0.00100	1	05/03/2017 22:17	WG975945
Naphthalene	U		0.00100	0.00500	1	05/03/2017 22:17	WG975945
n-Propylbenzene	0.00806		0.000349	0.00100	1	05/03/2017 22:17	WG975945
Styrene	U		0.000307	0.00100	1	05/03/2017 22:17	WG975945
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	05/03/2017 22:17	WG975945
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	05/03/2017 22:17	WG975945
Tetrachloroethene	U		0.000372	0.00100	1	05/03/2017 22:17	WG975945
Toluene	0.000732	J	0.000412	0.00100	1	05/03/2017 22:17	WG975945
1,1,1-Trichloroethane	U		0.000319	0.00100	1	05/03/2017 22:17	WG975945
1,1,2-Trichloroethane	U		0.000383	0.00100	1	05/03/2017 22:17	WG975945
Trichloroethene	U		0.000398	0.00100	1	05/03/2017 22:17	WG975945
1,2,4-Trimethylbenzene	0.000538	J	0.000373	0.00100	1	05/03/2017 22:17	WG975945
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	05/03/2017 22:17	WG975945
Vinyl chloride	U		0.000259	0.00100	1	05/03/2017 22:17	WG975945
o-Xylene	U		0.000341	0.00100	1	05/03/2017 22:17	WG975945
m&p-Xylene	0.0117		0.000719	0.00200	1	05/03/2017 22:17	WG975945
Xylenes, Total	0.0117		0.00106	0.00300	1	05/03/2017 22:17	WG975945
(S) Toluene-d8	*103*			*80.0-120*		*05/03/2017 22:17*	WG975945
(S) Dibromofluoromethane	*101*			*76.0-123*		*05/03/2017 22:17*	WG975945
(S) 4-Bromofluorobenzene	*97.9*			*80.0-120*		*05/03/2017 22:17*	WG975945

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	4.15		0.0247	0.100	1	05/03/2017 08:30	WG975555
(S) o-Terphenyl	*113*			*31.0-160*		*05/03/2017 08:30*	WG975555

Gravimetric Analysis by Method 2540 C-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Dissolved Solids	3370		2.82	10.0	1	05/03/2017 15:37	WG975913

Wet Chemistry by Method 353.2

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Nitrate-Nitrite	U		0.197	1.00	10	05/04/2017 11:53	WG976256

Sample Narrative:

353.2 L905668-76 WG976256: 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	369		5.19	100	100	05/03/2017 22:39	WG975915
Fluoride	1.90		0.00990	0.100	1	05/03/2017 22:04	WG975915
Sulfate	1370		7.74	500	100	05/03/2017 22:39	WG975915

Metals (ICPMS) by Method 6020

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Arsenic	0.00338		0.000250	0.00200	1	05/02/2017 19:27	WG975340
Arsenic,Dissolved	0.00324		0.000250	0.00200	1	05/10/2017 17:19	WG978287
Barium	0.0378		0.000360	0.00500	1	05/02/2017 19:27	WG975340
Barium,Dissolved	0.0415		0.000360	0.00500	1	05/10/2017 17:19	WG978287
Calcium	355		0.0460	1.00	1	05/02/2017 19:27	WG975340
Chromium	U		0.000540	0.00200	1	05/02/2017 19:27	WG975340
Chromium,Dissolved	U		0.000540	0.00200	1	05/10/2017 17:19	WG978287
Iron	U		0.0150	0.100	1	05/02/2017 19:27	WG975340
Iron,Dissolved	U		0.0150	0.100	1	05/10/2017 17:19	WG978287
Lead	U		0.00120	0.0100	5	05/02/2017 20:37	WG975340
Lead,Dissolved	0.000371	J	0.000240	0.00200	1	05/10/2017 17:19	WG978287
Manganese	0.784		0.000250	0.00500	1	05/02/2017 19:27	WG975340
Manganese,Dissolved	0.745		0.000250	0.00500	1	05/10/2017 17:19	WG978287
Potassium	2.26		0.0370	1.00	1	05/02/2017 19:27	WG975340
Selenium	0.0217		0.000380	0.00200	1	05/02/2017 19:27	WG975340
Selenium,Dissolved	U		0.000380	0.00200	1	05/10/2017 17:19	WG978287
Sodium	326		0.110	1.00	1	05/02/2017 19:27	WG975340

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	2.36		0.0314	0.100	1	05/01/2017 15:01	WG975393
(S) a,a,a-Trifluorotoluene(FID)	*90.6*			*77.0-122*		*05/01/2017 15:01*	WG975393

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		0.0100	0.0500	1	05/03/2017 22:30	WG975945
Benzene	0.290		0.00166	0.00500	5	05/04/2017 13:54	WG975945
Bromodichloromethane	U		0.000380	0.00100	1	05/03/2017 22:30	WG975945
Bromoform	U		0.000469	0.00100	1	05/03/2017 22:30	WG975945
Bromomethane	U		0.000866	0.00500	1	05/03/2017 22:30	WG975945
n-Butylbenzene	U		0.000361	0.00100	1	05/03/2017 22:30	WG975945

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	0.0175		0.000365	0.00100	1	05/03/2017 22:30	WG975945
Carbon disulfide	0.00177		0.000275	0.00100	1	05/03/2017 22:30	WG975945
Carbon tetrachloride	U		0.000379	0.00100	1	05/03/2017 22:30	WG975945
Chlorobenzene	U		0.000348	0.00100	1	05/03/2017 22:30	WG975945
Chlorodibromomethane	U		0.000327	0.00100	1	05/03/2017 22:30	WG975945
Chloroethane	U		0.000453	0.00500	1	05/03/2017 22:30	WG975945
Chloroform	U		0.000324	0.00500	1	05/03/2017 22:30	WG975945
Chloromethane	U		0.000276	0.00250	1	05/03/2017 22:30	WG975945
1,2-Dibromoethane	U		0.000381	0.00100	1	05/03/2017 22:30	WG975945
1,1-Dichloroethane	U		0.000259	0.00100	1	05/03/2017 22:30	WG975945
1,2-Dichloroethane	U		0.000361	0.00100	1	05/03/2017 22:30	WG975945
1,1-Dichloroethene	U		0.000398	0.00100	1	05/03/2017 22:30	WG975945
cis-1,2-Dichloroethene	U		0.000260	0.00100	1	05/03/2017 22:30	WG975945
trans-1,2-Dichloroethene	U		0.000396	0.00100	1	05/03/2017 22:30	WG975945
1,2-Dichloropropane	0.00182		0.000306	0.00100	1	05/03/2017 22:30	WG975945
cis-1,3-Dichloropropene	U		0.000418	0.00100	1	05/03/2017 22:30	WG975945
trans-1,3-Dichloropropene	U		0.000419	0.00100	1	05/03/2017 22:30	WG975945
Ethylbenzene	0.00105		0.000384	0.00100	1	05/03/2017 22:30	WG975945
Isopropylbenzene	0.0868		0.000326	0.00100	1	05/03/2017 22:30	WG975945
p-Isopropyltoluene	0.000668	J	0.000350	0.00100	1	05/03/2017 22:30	WG975945
2-Butanone (MEK)	U		0.00393	0.0100	1	05/03/2017 22:30	WG975945
2-Hexanone	U		0.00382	0.0100	1	05/03/2017 22:30	WG975945
Methylene Chloride	U		0.00100	0.00500	1	05/03/2017 22:30	WG975945
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100	1	05/03/2017 22:30	WG975945
Methyl tert-butyl ether	0.00435		0.000367	0.00100	1	05/03/2017 22:30	WG975945
Naphthalene	U		0.00100	0.00500	1	05/03/2017 22:30	WG975945
n-Propylbenzene	0.00499		0.000349	0.00100	1	05/03/2017 22:30	WG975945
Styrene	U		0.000307	0.00100	1	05/03/2017 22:30	WG975945
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100	1	05/03/2017 22:30	WG975945
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100	1	05/03/2017 22:30	WG975945
Tetrachloroethene	U		0.000372	0.00100	1	05/03/2017 22:30	WG975945
Toluene	0.00184		0.000412	0.00100	1	05/03/2017 22:30	WG975945
1,1,1-Trichloroethane	U		0.000319	0.00100	1	05/03/2017 22:30	WG975945
1,1,2-Trichloroethane	U		0.000383	0.00100	1	05/03/2017 22:30	WG975945
Trichloroethene	U		0.000398	0.00100	1	05/03/2017 22:30	WG975945
1,2,4-Trimethylbenzene	0.000991	J	0.000373	0.00100	1	05/03/2017 22:30	WG975945
1,3,5-Trimethylbenzene	U		0.000387	0.00100	1	05/03/2017 22:30	WG975945
Vinyl chloride	U		0.000259	0.00100	1	05/03/2017 22:30	WG975945
o-Xylene	U		0.000341	0.00100	1	05/03/2017 22:30	WG975945
m&p-Xylene	0.0193		0.000719	0.00200	1	05/03/2017 22:30	WG975945
Xylenes, Total	0.0193		0.00106	0.00300	1	05/03/2017 22:30	WG975945
(S) Toluene-d8	*103*			*80.0-120*		*05/03/2017 22:30*	WG975945
(S) Toluene-d8	*103*			*80.0-120*		*05/04/2017 13:54*	WG975945
(S) Dibromofluoromethane	*95.9*			*76.0-123*		*05/03/2017 22:30*	WG975945
(S) Dibromofluoromethane	*103*			*76.0-123*		*05/04/2017 13:54*	WG975945
(S) 4-Bromofluorobenzene	*91.3*			*80.0-120*		*05/04/2017 13:54*	WG975945
(S) 4-Bromofluorobenzene	*97.1*			*80.0-120*		*05/03/2017 22:30*	WG975945

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	3.21		0.0247	0.100	1	05/03/2017 09:04	WG975555
(S) o-Terphenyl	*85.3*			*31.0-160*		*05/03/2017 09:04*	WG975555

Method Blank (MB)

(MB) R3215908-1 05/03/17 12:09

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Dissolved Solids	U		2.82	10.0

L905602-12 Original Sample (OS) • Duplicate (DUP)

(OS) L905602-12 05/03/17 12:09 • (DUP) R3215908-4 05/03/17 12:09

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Dissolved Solids	8730	8810	1	0.912		5

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

(LCS) R3215908-2 05/03/17 12:09 • (LCSD) R3215908-3 05/03/17 12:09

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Dissolved Solids	8800	8670	8590	98.5	97.6	85.0-115			0.927	5

Method Blank (MB)

(MB) R3215796-1 05/02/17 14:23

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	mg/l		mg/l	mg/l
Dissolved Solids	U		2.82	10.0

L905668-02 Original Sample (OS) • Duplicate (DUP)

(OS) L905668-02 05/02/17 14:23 • (DUP) R3215796-4 05/02/17 14:23

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	mg/l	mg/l		%		%
Dissolved Solids	2210	2160	1	2.29		5

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

(LCS) R3215796-2 05/02/17 14:23 • (LCSD) R3215796-3 05/02/17 14:23

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	mg/l	mg/l	mg/l	%	%	%			%	%
Dissolved Solids	8800	8590	8570	97.6	97.4	85.0-115			0.233	5

Method Blank (MB)

(MB) R3215603-1 05/02/17 15:55

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	mg/l		mg/l	mg/l
Dissolved Solids	U		2.82	10.0

L905668-13 Original Sample (OS) • Duplicate (DUP)

(OS) L905668-13 05/02/17 15:55 • (DUP) R3215603-4 05/02/17 15:55

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	mg/l	mg/l		%		%
Dissolved Solids	1580	1580	1	0.317		5

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

(LCS) R3215603-2 05/02/17 15:55 • (LCSD) R3215603-3 05/02/17 15:55

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	mg/l	mg/l	mg/l	%	%	%			%	%
Dissolved Solids	8800	8670	8650	98.5	98.3	85.0-115			0.231	5

Method Blank (MB)

(MB) R3215811-1 05/02/17 16:19

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	mg/l		mg/l	mg/l
Dissolved Solids	U		2.82	10.0

L905668-24 Original Sample (OS) • Duplicate (DUP)

(OS) L905668-24 05/02/17 16:19 • (DUP) R3215811-4 05/02/17 16:19

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	mg/l	mg/l		%		%
Dissolved Solids	2420	2360	1	2.72		5

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

(LCS) R3215811-2 05/02/17 16:19 • (LCSD) R3215811-3 05/02/17 16:19

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	mg/l	mg/l	mg/l	%	%	%			%	%
Dissolved Solids	8800	8440	8650	95.9	98.3	85.0-115			2.46	5

Method Blank (MB)

(MB) R3215612-1 05/02/17 16:52

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	mg/l		mg/l	mg/l
Dissolved Solids	U		2.82	10.0

L905668-33 Original Sample (OS) • Duplicate (DUP)

(OS) L905668-33 05/02/17 16:52 • (DUP) R3215612-4 05/02/17 16:52

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	mg/l	mg/l		%		%
Dissolved Solids	2930	2920	1	0.513		5

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

(LCS) R3215612-2 05/02/17 16:52 • (LCSD) R3215612-3 05/02/17 16:52

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	mg/l	mg/l	mg/l	%	%	%			%	%
Dissolved Solids	8800	8690	8700	98.8	98.9	85.0-115			0.115	5

Method Blank (MB)

(MB) R3215597-1 05/02/17 17:49

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	mg/l		mg/l	mg/l
Dissolved Solids	U		2.82	10.0

L905668-43 Original Sample (OS) • Duplicate (DUP)

(OS) L905668-43 05/02/17 17:49 • (DUP) R3215597-4 05/02/17 17:49

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	mg/l	mg/l		%		%
Dissolved Solids	1740	1770	1	1.99		5

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

(LCS) R3215597-2 05/02/17 17:49 • (LCSD) R3215597-3 05/02/17 17:49

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	mg/l	mg/l	mg/l	%	%	%			%	%
Dissolved Solids	8800	8700	8720	98.9	99.1	85.0-115			0.230	5

Method Blank (MB)

(MB) R3215924-1 05/03/17 14:04

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Dissolved Solids	U		2.82	10.0

L905645-03 Original Sample (OS) • Duplicate (DUP)

(OS) L905645-03 05/03/17 14:04 • (DUP) R3215924-4 05/03/17 14:04

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Dissolved Solids	2730	2730	1	0.000		5

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

(LCS) R3215924-2 05/03/17 14:04 • (LCSD) R3215924-3 05/03/17 14:04

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Dissolved Solids	8800	8670	8700	98.5	98.9	85.0-115			0.345	5

Method Blank (MB)

(MB) R3215930-1 05/03/17 14:39

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	mg/l		mg/l	mg/l
Dissolved Solids	U		2.82	10.0

L905668-53 Original Sample (OS) • Duplicate (DUP)

(OS) L905668-53 05/03/17 14:39 • (DUP) R3215930-4 05/03/17 14:39

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	mg/l	mg/l		%		%
Dissolved Solids	2420	2540	1	5.05	J3	5

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

(LCS) R3215930-2 05/03/17 14:39 • (LCSD) R3215930-3 05/03/17 14:39

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	mg/l	mg/l	mg/l	%	%	%			%	%
Dissolved Solids	8800	8400	8450	95.5	96.0	85.0-115			0.593	5

Method Blank (MB)

(MB) R3215922-1 05/03/17 15:37

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	mg/l		mg/l	mg/l
Dissolved Solids	U		2.82	10.0

L905668-63 Original Sample (OS) • Duplicate (DUP)

(OS) L905668-63 05/03/17 15:37 • (DUP) R3215922-4 05/03/17 15:37

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	mg/l	mg/l		%		%
Dissolved Solids	3160	3150	1	0.476		5

Laboratory Control Sample (LCS)

(LCS) R3215922-2 05/03/17 15:37

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	mg/l	mg/l	%	%	
Dissolved Solids	8800	8720	99.1	85.0-115	

Method Blank (MB)

(MB) R3215842-1 05/05/17 10:01

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	mg/l		mg/l	mg/l
Nitrate-Nitrite	U		0.0197	0.100

L905651-07 Original Sample (OS) • Duplicate (DUP)

(OS) L905651-07 05/05/17 10:04 • (DUP) R3215842-4 05/05/17 10:05

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	mg/l	mg/l		%		%
Nitrate-Nitrite	4.90	4.86	1	1		20

L905651-09 Original Sample (OS) • Duplicate (DUP)

(OS) L905651-09 05/05/17 10:13 • (DUP) R3215842-7 05/05/17 10:14

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	mg/l	mg/l		%		%
Nitrate-Nitrite	0.127	0.0950	1	29	J P1	20

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

(LCS) R3215842-2 05/05/17 10:02 • (LCSD) R3215842-3 05/05/17 10:03

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	mg/l	mg/l	mg/l	%	%	%			%	%
Nitrate-Nitrite	5.00	5.16	4.96	103	99	90-110			4	20

L905651-08 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L905651-08 05/05/17 10:06 • (MS) R3215842-5 05/05/17 10:07 • (MSD) R3215842-6 05/05/17 10:08

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
	mg/l	mg/l	mg/l	mg/l	%	%		%			%	%
Nitrate-Nitrite	5.00	0.0310	0.239	0.220	4	4	1	90-110	J6	J6	8	20

L905651-10 Original Sample (OS) • Matrix Spike (MS)

(OS) L905651-10 05/05/17 10:15 • (MS) R3215842-8 05/05/17 10:16

Analyte	Spike Amount	Original Result	MS Result	MS Rec.	Dilution	Rec. Limits	MS Qualifier
	mg/l	mg/l	mg/l	%		%	
Nitrate-Nitrite	5.00	0.0220	4.69	93	1	90-110	

Method Blank (MB)

(MB) R3215383-4 05/03/17 15:26

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	mg/l		mg/l	mg/l
Nitrate-Nitrite	U		0.0197	0.100

L905668-23 Original Sample (OS) • Duplicate (DUP)

(OS) L905668-23 05/03/17 15:39 • (DUP) R3215383-7 05/03/17 15:40

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	mg/l	mg/l		%		%
Nitrate-Nitrite	0.0370	0.000	1	200	P1	20

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

(LCS) R3215383-5 05/03/17 15:27 • (LCSD) R3215383-6 05/03/17 15:28

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	mg/l	mg/l	mg/l	%	%	%			%	%
Nitrate-Nitrite	5.00	4.77	5.10	95	102	90-110			7	20

L905668-26 Original Sample (OS) • Matrix Spike (MS)

(OS) L905668-26 05/03/17 15:43 • (MS) R3215383-8 05/03/17 15:44

Analyte	Spike Amount	Original Result	MS Result	MS Rec.	Dilution	Rec. Limits	MS Qualifier
	mg/l	mg/l	mg/l	%		%	
Nitrate-Nitrite	5.00	0.0340	4.87	97	1	90-110	

Method Blank (MB)

(MB) R3215604-1 05/04/17 14:01

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	mg/l		mg/l	mg/l
Nitrate-Nitrite	U		0.0197	0.100

L905668-38 Original Sample (OS) • Duplicate (DUP)

(OS) L905668-38 05/04/17 14:05 • (DUP) R3215604-4 05/04/17 14:06

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	mg/l	mg/l		%		%
Nitrate-Nitrite	U	0.000	10	0		20

L905668-47 Original Sample (OS) • Duplicate (DUP)

(OS) L905668-47 05/04/17 14:20 • (DUP) R3215604-6 05/04/17 14:21

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	mg/l	mg/l		%		%
Nitrate-Nitrite	U	0.000	10	0		20

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

(LCS) R3215604-2 05/04/17 14:03 • (LCSD) R3215604-3 05/04/17 14:04

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	mg/l	mg/l	mg/l	%	%	%			%	%
Nitrate-Nitrite	5.00	5.12	5.02	102	100	90-110			2	20

L905668-43 Original Sample (OS) • Matrix Spike (MS)

(OS) L905668-43 05/04/17 14:15 • (MS) R3215604-5 05/04/17 14:16

Analyte	Spike Amount	Original Result	MS Result	MS Rec.	Dilution	Rec. Limits	MS Qualifier
	mg/l	mg/l	mg/l	%		%	
Nitrate-Nitrite	5.00	U	47.2	94	10	90-110	

L905668-57 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L905668-57 05/04/17 14:39 • (MS) R3215604-7 05/04/17 14:40 • (MSD) R3215604-8 05/04/17 14:42

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
	mg/l	mg/l	mg/l	mg/l	%	%		%			%	%
Nitrate-Nitrite	5.00	0.260	48.3	48.6	96	97	10	90-110			1	20

Method Blank (MB)

(MB) R3215560-1 05/04/17 11:23

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	mg/l		mg/l	mg/l
Nitrate-Nitrite	U		0.0197	0.100

L905668-59 Original Sample (OS) • Duplicate (DUP)

(OS) L905668-59 05/04/17 11:26 • (DUP) R3215560-4 05/04/17 11:27

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	mg/l	mg/l		%		%
Nitrate-Nitrite	0.342	0.375	10	9	J	20

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

(LCS) R3215560-2 05/04/17 11:24 • (LCSD) R3215560-3 05/04/17 11:25

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	mg/l	mg/l	mg/l	%	%	%			%	%
Nitrate-Nitrite	5.00	4.84	4.68	97	94	90-110			3	20

L905668-61 Original Sample (OS) • Matrix Spike (MS)

(OS) L905668-61 05/04/17 11:30 • (MS) R3215560-5 05/04/17 11:31

Analyte	Spike Amount	Original Result	MS Result	MS Rec.	Dilution	Rec. Limits	MS Qualifier
	mg/l	mg/l	mg/l	%		%	
Nitrate-Nitrite	5.00	U	46.5	931	10	90-110	J5

L905720-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L905720-01 05/04/17 11:56 • (MS) R3215560-7 05/04/17 12:01 • (MSD) R3215560-8 05/04/17 12:02

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
	mg/l	mg/l	mg/l	mg/l	%	%		%			%	%
Nitrate-Nitrite	5.00	0.156	4.90	4.99	95	97	1	90-110			2	20

Method Blank (MB)

(MB) R3215689-1 05/04/17 15:48

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	mg/l		mg/l	mg/l
Nitrate-Nitrite	U		0.0197	0.100

L905668-31 Original Sample (OS) • Duplicate (DUP)

(OS) L905668-31 05/04/17 15:56 • (DUP) R3215689-4 05/04/17 15:57

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	mg/l	mg/l		%		%
Nitrate-Nitrite	U	0.000	10	0		20

L905668-37 Original Sample (OS) • Duplicate (DUP)

(OS) L905668-37 05/04/17 16:08 • (DUP) R3215689-6 05/04/17 16:09

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	mg/l	mg/l		%		%
Nitrate-Nitrite	0.416	0.263	10	45	J P1	20

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

(LCS) R3215689-2 05/04/17 15:49 • (LCSD) R3215689-3 05/04/17 15:50

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	mg/l	mg/l	mg/l	%	%	%			%	%
Nitrate-Nitrite	5.00	5.07	4.96	101	99	90-110			2	20

L905668-36 Original Sample (OS) • Matrix Spike (MS)

(OS) L905668-36 05/04/17 16:06 • (MS) R3215689-5 05/04/17 16:07

Analyte	Spike Amount	Original Result	MS Result	MS Rec.	Dilution	Rec. Limits	MS Qualifier
	mg/l	mg/l	mg/l	%		%	
Nitrate-Nitrite	5.00	U	45.1	90	10	90-110	

L905809-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L905809-01 05/04/17 16:18 • (MS) R3215689-7 05/04/17 16:19 • (MSD) R3215689-8 05/04/17 16:20

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
	mg/l	mg/l	mg/l	mg/l	%	%		%			%	%
Nitrate-Nitrite	5.00	U	4.97	5.01	99	100	1	90-110			1	20

Method Blank (MB)

(MB) R3217483-1 05/11/17 22:27

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	mg/l		mg/l	mg/l
Nitrate-Nitrite	U		0.0197	0.100

L905668-69 Original Sample (OS) • Duplicate (DUP)

(OS) L905668-69 05/11/17 22:30 • (DUP) R3217483-4 05/11/17 22:31

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	mg/l	mg/l		%		%
Nitrate-Nitrite	U	0.000	1	0		20

L905668-68 Original Sample (OS) • Duplicate (DUP)

(OS) L905668-68 05/11/17 23:07 • (DUP) R3217483-8 05/11/17 23:08

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	mg/l	mg/l		%		%
Nitrate-Nitrite	U	0.000	1	0		20

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

(LCS) R3217483-2 05/11/17 22:28 • (LCSD) R3217483-3 05/11/17 22:29

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	mg/l	mg/l	mg/l	%	%	%			%	%
Nitrate-Nitrite	5.00	4.82	4.75	96	95	90-110			2	20

L906934-01 Original Sample (OS) • Matrix Spike (MS)

(OS) L906934-01 05/11/17 22:32 • (MS) R3217483-5 05/11/17 22:33

Analyte	Spike Amount	Original Result	MS Result	MS Rec.	Dilution	Rec. Limits	MS Qualifier
	mg/l	mg/l	mg/l	%		%	
Nitrate-Nitrite	5.00	0.564	5.04	89	1	90-110	J6

L907485-12 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L907485-12 05/11/17 22:54 • (MS) R3217483-6 05/11/17 22:55 • (MSD) R3217483-7 05/11/17 22:56

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
	mg/l	mg/l	mg/l	mg/l	%	%		%			%	%
Nitrate-Nitrite	5.00	ND	4.52	4.59	90	92	1	90-110			2	20



Method Blank (MB)

(MB) R3214912-1 05/02/17 10:38

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	mg/l		mg/l	mg/l
Cyanide	U		0.0018	0.00500

L905561-02 Original Sample (OS) • Duplicate (DUP)

(OS) L905561-02 05/02/17 10:51 • (DUP) R3214912-6 05/02/17 10:52

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	mg/l	mg/l		%		%
Cyanide	ND	0.000	1	0		20

L905668-23 Original Sample (OS) • Duplicate (DUP)

(OS) L905668-23 05/02/17 11:03 • (DUP) R3214912-7 05/02/17 11:04

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	mg/l	mg/l		%		%
Cyanide	U	0.000	1	0		20

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

(LCS) R3214912-2 05/02/17 10:39 • (LCSD) R3214912-3 05/02/17 10:40

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	mg/l	mg/l	mg/l	%	%	%			%	%
Cyanide	0.100	0.105	0.0907	105	91	85-115			15	20

L905437-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L905437-02 05/02/17 10:44 • (MS) R3214912-4 05/02/17 10:45 • (MSD) R3214912-5 05/02/17 10:46

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
	mg/l	mg/l	mg/l	mg/l	%	%		%			%	%
Cyanide	0.100	ND	0.101	0.0997	101	100	1	75-125			1	20

Method Blank (MB)

(MB) R3215026-1 05/02/17 15:00

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	mg/l		mg/l	mg/l
Cyanide	U		0.0018	0.00500

L905722-02 Original Sample (OS) • Duplicate (DUP)

(OS) L905722-02 05/02/17 15:08 • (DUP) R3215026-4 05/02/17 15:09

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	mg/l	mg/l		%		%
Cyanide	ND	0.00184	1	0		20

L905971-02 Original Sample (OS) • Duplicate (DUP)

(OS) L905971-02 05/02/17 15:35 • (DUP) R3215026-9 05/02/17 15:36

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	mg/l	mg/l		%		%
Cyanide	U	0.000	1	0		20

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

(LCS) R3215026-2 05/02/17 15:01 • (LCSD) R3215026-3 05/02/17 15:02

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	mg/l	mg/l	mg/l	%	%	%			%	%
Cyanide	0.100	0.105	0.107	105	107	85-115			2	20

L905345-06 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L905345-06 05/02/17 15:18 • (MS) R3215026-5 05/02/17 15:19 • (MSD) R3215026-6 05/02/17 15:20

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
	mg/l	mg/l	mg/l	mg/l	%	%		%			%	%
Cyanide	0.100	U	0.105	0.0997	105	100	1	75-125			5	20

L905855-04 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L905855-04 05/02/17 15:29 • (MS) R3215026-7 05/02/17 15:30 • (MSD) R3215026-8 05/02/17 15:31

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
	mg/l	mg/l	mg/l	mg/l	%	%		%			%	%
Cyanide	0.100	U	0.0733	0.104	73	104	1	75-125	J6	J3	35	20

Method Blank (MB)

(MB) R3215193-1 05/02/17 11:02

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	mg/l		mg/l	mg/l
Chloride	U		0.0519	1.00
Fluoride	U		0.0099	0.100
Sulfate	U		0.0774	5.00

L905668-14 Original Sample (OS) • Duplicate (DUP)

(OS) L905668-14 05/02/17 16:00 • (DUP) R3215193-4 05/02/17 16:31

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	mg/l	mg/l		%		%
Fluoride	1.28	1.26	1	1		15

L905668-14 Original Sample (OS) • Duplicate (DUP)

(OS) L905668-14 05/02/17 16:15 • (DUP) R3215193-5 05/02/17 16:46

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	mg/l	mg/l		%		%
Chloride	456	346	20	27	J3	15
Sulfate	366	274	20	29	P1	15

L905668-15 Original Sample (OS) • Duplicate (DUP)

(OS) L905668-15 05/02/17 17:02 • (DUP) R3215193-6 05/02/17 18:05

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	mg/l	mg/l		%		%
Fluoride	0.965	0.976	1	1		15

L905668-15 Original Sample (OS) • Duplicate (DUP)

(OS) L905668-15 05/02/17 17:50 • (DUP) R3215193-7 05/02/17 18:21

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	mg/l	mg/l		%		%
Chloride	260	252	20	3		15
Sulfate	211	202	20	5		15

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

(LCS) R3215193-2 05/02/17 11:17 • (LCSD) R3215193-3 05/02/17 11:33

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 %
Chloride	40.0	40.6	40.5	101	101	80-120			0	15
Fluoride	8.00	8.16	8.13	102	102	80-120			0	15
Sulfate	40.0	41.0	40.9	103	102	80-120			0	15

L905668-18 Original Sample (OS) • Matrix Spike (MS)

(OS) L905668-18 05/02/17 19:38 • (MS) R3215193-8 05/02/17 20:09

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Fluoride	5.00	0.419	4.84	88	1	80-120	

L905668-28 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L905668-28 05/03/17 02:34 • (MS) R3215193-9 05/03/17 03:05 • (MSD) R3215193-10 05/03/17 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 %
Fluoride	5.00	2.00	6.36	6.34	87	87	1	80-120			0	15

Method Blank (MB)

(MB) R3215504-1 05/03/17 12:01

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	mg/l		mg/l	mg/l
Chloride	U		0.0519	1.00
Fluoride	U		0.0099	0.100
Sulfate	U		0.0774	5.00

L905668-36 Original Sample (OS) • Duplicate (DUP)

(OS) L905668-36 05/03/17 16:54 • (DUP) R3215504-6 05/03/17 17:34

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	mg/l	mg/l		%		%
Fluoride	0.936	0.931	1	1		15

L905668-36 Original Sample (OS) • Duplicate (DUP)

(OS) L905668-36 05/03/17 17:10 • (DUP) R3215504-7 05/03/17 17:49

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	mg/l	mg/l		%		%
Chloride	328	323	50	2		15
Sulfate	1200	1180	50	2		15

L905668-44 Original Sample (OS) • Duplicate (DUP)

(OS) L905668-44 05/04/17 00:30 • (DUP) R3215504-9 05/04/17 01:01

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	mg/l	mg/l		%		%
Fluoride	2.61	2.61	1	0		15

L905668-44 Original Sample (OS) • Duplicate (DUP)

(OS) L905668-44 05/04/17 00:46 • (DUP) R3215504-10 05/04/17 01:16

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	mg/l	mg/l		%		%
Chloride	398	387	50	3		15
Sulfate	2950	2880	50	3		15

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

(LCS) R3215504-2 05/03/17 12:17 • (LCSD) R3215504-3 05/03/17 12:32

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 %
Chloride	40.0	38.8	40.3	97	101	80-120			4	15
Fluoride	8.00	7.74	8.04	97	100	80-120			4	15
Sulfate	40.0	38.8	40.3	97	101	80-120			4	15

L905345-06 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L905345-06 05/03/17 13:49 • (MS) R3215504-4 05/03/17 14:05 • (MSD) R3215504-5 05/03/17 14:20

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	50.0	56.4	106	106	99	99	1	80-120	E	E	0	15
Fluoride	5.00	0.225	5.42	5.44	104	104	1	80-120			0	15
Sulfate	50.0	12.3	64.5	64.7	104	105	1	80-120			0	15

L905668-42 Original Sample (OS) • Matrix Spike (MS)

(OS) L905668-42 05/03/17 22:42 • (MS) R3215504-8 05/03/17 23:13

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Fluoride	5.00	0.868	5.36	90	1	80-120	

Method Blank (MB)

(MB) R3215484-1 05/03/17 05:23

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	mg/l		mg/l	mg/l
Chloride	U		0.0519	1.00
Fluoride	U		0.0099	0.100
Sulfate	U		0.0774	5.00

L905668-47 Original Sample (OS) • Duplicate (DUP)

(OS) L905668-47 05/03/17 14:03 • (DUP) R3215484-4 05/03/17 14:15

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	mg/l	mg/l		%		%
Chloride	0.365	0.208	1	55	J P1	15
Fluoride	U	0.000	1	0		15
Sulfate	U	0.000	1	0		15

L905668-62 Original Sample (OS) • Duplicate (DUP)

(OS) L905668-62 05/03/17 20:28 • (DUP) R3215484-8 05/03/17 20:40

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	mg/l	mg/l		%		%
Chloride	285	289	20	1		15

L905668-62 Original Sample (OS) • Duplicate (DUP)

(OS) L905668-62 05/03/17 21:50 • (DUP) R3215484-9 05/03/17 22:02

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	mg/l	mg/l		%		%
Fluoride	0.773	0.762	1	1		15
Sulfate	10.3	10.3	1	0		15

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

(LCS) R3215484-2 05/03/17 05:35 • (LCSD) R3215484-3 05/03/17 05:47

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	mg/l	mg/l	mg/l	%	%	%			%	%
Chloride	40.0	40.1	40.0	100	100	80-120			0	15
Fluoride	8.00	8.10	8.04	101	100	80-120			1	15
Sulfate	40.0	39.0	38.5	98	96	80-120			1	15

L905668-48 Original Sample (OS) • Matrix Spike (MS)

(OS) L905668-48 05/03/17 14:50 • (MS) R3215484-5 05/03/17 15:01

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Chloride	50.0	0.326	51.0	101	1	80-120	
Fluoride	5.00	U	5.02	100	1	80-120	
Sulfate	50.0	U	51.3	103	1	80-120	

L905668-61 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L905668-61 05/03/17 19:53 • (MS) R3215484-6 05/03/17 20:05 • (MSD) R3215484-7 05/03/17 20:17

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 %
Fluoride	5.00	1.02	6.01	5.58	100	91	1	80-120			7	15
Sulfate	50.0	44.1	89.5	89.8	91	91	1	80-120			0	15

Method Blank (MB)

(MB) R3215492-1 05/03/17 05:35

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Chloride	U		0.0519	1.00
Fluoride	U		0.0099	0.100
Sulfate	0.436	J	0.0774	5.00

L905711-01 Original Sample (OS) • Duplicate (DUP)

(OS) L905711-01 05/03/17 13:39 • (DUP) R3215492-4 05/03/17 13:56

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	5.88	6.47	1	10		15
Fluoride	0.105	0.0864	1	19	P1	15
Sulfate	ND	0.925	1	0		15

L905711-03 Original Sample (OS) • Duplicate (DUP)

(OS) L905711-03 05/03/17 20:20 • (DUP) R3215492-6 05/03/17 20:37

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Fluoride	ND	0.0837	1	0		15
Sulfate	5.59	5.49	1	2		15

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

(LCS) R3215492-2 05/03/17 05:52 • (LCSD) R3215492-3 05/03/17 06:10

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 %
Chloride	40.0	40.5	40.2	101	100	80-120			1	15
Fluoride	8.00	8.16	8.12	102	102	80-120			0	15
Sulfate	40.0	41.3	40.9	103	102	80-120			1	15

L905711-02 Original Sample (OS) • Matrix Spike (MS)

(OS) L905711-02 05/03/17 14:14 • (MS) R3215492-5 05/03/17 14:31

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Chloride	50.0	4.24	54.7	101	1	80-120	
Fluoride	5.00	ND	5.16	103	1	80-120	
Sulfate	50.0	ND	52.2	101	1	80-120	

L905711-04 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L905711-04 05/03/17 20:54 • (MS) R3215492-7 05/03/17 21:12 • (MSD) R3215492-8 05/03/17 21:29

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	5.25	55.2	55.3	100	100	1	80-120			0	15
Fluoride	5.00	ND	5.14	5.10	102	101	1	80-120			1	15
Sulfate	50.0	ND	53.4	53.1	101	100	1	80-120			1	15

Method Blank (MB)

(MB) R3215820-1 05/04/17 06:15

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	mg/l		mg/l	mg/l
Chloride	U		0.0519	1.00
Fluoride	U		0.0099	0.100
Sulfate	U		0.0774	5.00

L905651-08 Original Sample (OS) • Duplicate (DUP)

(OS) L905651-08 05/04/17 12:33 • (DUP) R3215820-4 05/04/17 13:25

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	mg/l	mg/l		%		%
Chloride	74.0	81.0	10	9		15
Fluoride	2.03	1.82	10	11		15
Sulfate	717	730	10	2		15

L905831-01 Original Sample (OS) • Duplicate (DUP)

(OS) L905831-01 05/04/17 21:33 • (DUP) R3215820-8 05/04/17 21:50

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	mg/l	mg/l		%		%
Chloride	3.27	3.13	1	4		15
Fluoride	0.107	0.107	1	0		15
Sulfate	16.4	16.4	1	0		15

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

(LCS) R3215820-2 05/04/17 06:33 • (LCSD) R3215820-3 05/04/17 06:50

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	mg/l	mg/l	mg/l	%	%	%			%	%
Chloride	40.0	40.3	40.1	101	100	80-120			0	15
Fluoride	8.00	8.11	8.08	101	101	80-120			0	15
Sulfate	40.0	40.5	40.3	101	101	80-120			0	15

L905668-20 Original Sample (OS) • Matrix Spike (MS)

(OS) L905668-20 05/04/17 13:42 • (MS) R3215820-5 05/04/17 14:00

Analyte	Spike Amount	Original Result	MS Result	MS Rec.	Dilution	Rec. Limits	MS Qualifier
	mg/l	mg/l	mg/l	%		%	
Fluoride	5.00	1.09	5.87	96	1	80-120	
Sulfate	50.0	11.3	59.9	97	1	80-120	

L905847-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L905847-01 05/04/17 15:44 • (MS) R3215820-6 05/04/17 16:37 • (MSD) R3215820-7 05/04/17 16:54

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 %
Chloride	50.0	1.49	52.4	52.7	102	102	1	80-120			1	15
Fluoride	5.00	U	5.19	5.19	104	104	1	80-120			0	15
Sulfate	50.0	1.18	52.1	52.1	102	102	1	80-120			0	15

Method Blank (MB)

(MB) R3215800-1 05/04/17 06:09

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	mg/l		mg/l	mg/l
Chloride	U		0.0519	1.00
Fluoride	U		0.0099	0.100
Sulfate	U		0.0774	5.00

L905651-08 Original Sample (OS) • Duplicate (DUP)

(OS) L905651-08 05/05/17 00:48 • (DUP) R3215800-10 05/05/17 01:03

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	mg/l	mg/l		%		%
Chloride	80.4	76.9	1	4		15
Fluoride	1.90	2.18	1	14		15

L905651-10 Original Sample (OS) • Duplicate (DUP)

(OS) L905651-10 05/05/17 09:57 • (DUP) R3215800-12 05/05/17 10:11

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	mg/l	mg/l		%		%
Chloride	0.289	0.126	1	79	J P1	15
Fluoride	0.0207	0.000	1	200	P1	15
Sulfate	0.238	0.000	1	200	P1	15

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

(LCS) R3215800-2 05/04/17 06:25 • (LCSD) R3215800-3 05/04/17 06:40

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	mg/l	mg/l	mg/l	%	%	%			%	%
Chloride	40.0	40.2	40.2	100	100	80-120			0	15
Fluoride	8.00	8.07	8.06	101	101	80-120			0	15
Sulfate	40.0	40.4	40.4	101	101	80-120			0	15

L905645-06 Original Sample (OS) • Matrix Spike (MS)

(OS) L905645-06 05/04/17 12:55 • (MS) R3215800-6 05/04/17 13:10

Analyte	Spike Amount	Original Result	MS Result	MS Rec.	Dilution	Rec. Limits	MS Qualifier
	mg/l	mg/l	mg/l	%		%	
Chloride	50.0	0.472	50.9	101	1	80-120	
Fluoride	5.00	U	5.06	101	1	80-120	
Sulfate	50.0	U	51.3	103	1	80-120	

L905668-08 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L905668-08 05/04/17 23:46 • (MS) R3215800-8 05/05/17 00:17 • (MSD) R3215800-9 05/05/17 00:32

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 %
Fluoride	5.00	0.668	5.39	5.41	94	95	1	80-120			0	15

Method Blank (MB)

(MB) R3215959-1 05/05/17 09:42

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Chloride	U		0.0519	1.00
Fluoride	U		0.0099	0.100
Sulfate	U		0.0774	5.00

L905668-68 Original Sample (OS) • Duplicate (DUP)

(OS) L905668-68 05/05/17 13:56 • (DUP) R3215959-5 05/05/17 14:06

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	0.357	0.358	1	0	J	15
Fluoride	U	0.000	1	0		15

L906658-07 Original Sample (OS) • Duplicate (DUP)

(OS) L906658-07 05/05/17 16:25 • (DUP) R3215959-8 05/05/17 16:35

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	3.71	3.77	1	2		15
Fluoride	ND	0.0658	1	0		15
Sulfate	12.5	12.7	1	1		15

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

(LCS) R3215959-2 05/05/17 09:52 • (LCSD) R3215959-3 05/05/17 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 %
Chloride	40.0	39.4	39.4	99	99	80-120			0	15
Fluoride	8.00	7.99	8.01	100	100	80-120			0	15
Sulfate	40.0	40.2	40.3	100	101	80-120			0	15

L905756-03 Original Sample (OS) • Matrix Spike (MS)

(OS) L905756-03 05/05/17 14:35 • (MS) R3215959-6 05/05/17 14:45

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Chloride	50.0	15.8	65.4	99	1	80-120	
Fluoride	5.00	0.111	5.25	103	1	80-120	
Sulfate	50.0	11.7	62.1	101	1	80-120	

L906658-09 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L906658-09 05/05/17 17:14 • (MS) R3215959-9 05/05/17 17:24 • (MSD) R3215959-10 05/05/17 17:34

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 %
Chloride	50.0	ND	50.5	51.5	100	102	1	80-120			2	15
Fluoride	5.00	ND	5.14	5.13	103	103	1	80-120			0	15
Sulfate	50.0	ND	51.2	50.9	102	102	1	80-120			1	15

Method Blank (MB)

(MB) R3215049-1 05/02/17 15:24

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	mg/l		mg/l	mg/l
Mercury	U		0.000049	0.000200

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

(LCS) R3215049-2 05/02/17 15:27 • (LCSD) R3215049-3 05/02/17 15:29

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	mg/l	mg/l	mg/l	%	%	%			%	%
Mercury	0.00300	0.00287	0.00282	96	94	80-120			2	20

L905668-17 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L905668-17 05/02/17 15:31 • (MS) R3215049-4 05/02/17 15:34 • (MSD) R3215049-5 05/02/17 15:36

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
	mg/l	mg/l	mg/l	mg/l	%	%		%			%	%
Mercury	0.00300	U	0.00270	0.00268	90	89	1	75-125			1	20

Method Blank (MB)

(MB) R3215030-1 05/02/17 13:31

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Mercury,Dissolved	U		0.000049	0.000200

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

(LCS) R3215030-2 05/02/17 13:33 • (LCSD) R3215030-3 05/02/17 13:35

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 %
Mercury,Dissolved	0.00300	0.00280	0.00275	93	92	80-120			2	20

L905670-11 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L905670-11 05/02/17 13:37 • (MS) R3215030-4 05/02/17 13:40 • (MSD) R3215030-5 05/02/17 13:42

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 %
Mercury,Dissolved	0.00300	ND	0.00289	0.00276	96	92	1	75-125			4	20

Method Blank (MB)

(MB) R3215164-1 05/03/17 01:02

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Arsenic,Dissolved	U		0.00025	0.00200
Barium,Dissolved	0.000992	J	0.00036	0.00500
Cadmium,Dissolved	U		0.00016	0.00100
Chromium,Dissolved	U		0.00054	0.00200
Cobalt,Dissolved	U		0.00026	0.00200
Iron,Dissolved	U		0.015	0.100
Lead,Dissolved	U		0.00024	0.00200
Manganese,Dissolved	0.00053	J	0.00025	0.00500
Nickel,Dissolved	0.000357	J	0.00035	0.00200
Selenium,Dissolved	U		0.00038	0.00200
Uranium,Dissolved	U		0.00033	0.0100
Vanadium,Dissolved	U		0.00018	0.00500

Method Blank (MB)

(MB) R3215416-1 05/03/17 20:29

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Boron,Dissolved	U		0.0015	0.0200

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

(LCS) R3215164-2 05/03/17 01:06 • (LCSD) R3215164-3 05/03/17 01:09

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Arsenic,Dissolved	0.0500	0.0481	0.0492	96	98	80-120			2	20
Barium,Dissolved	0.0500	0.0491	0.0482	98	96	80-120			2	20
Cadmium,Dissolved	0.0500	0.0487	0.0509	97	102	80-120			4	20
Chromium,Dissolved	0.0500	0.0489	0.0495	98	99	80-120			1	20
Cobalt,Dissolved	0.0500	0.0509	0.0502	102	100	80-120			1	20
Iron,Dissolved	5.00	4.99	4.94	100	99	80-120			1	20
Lead,Dissolved	0.0500	0.0496	0.0492	99	98	80-120			1	20
Manganese,Dissolved	0.0500	0.0490	0.0479	98	96	80-120			2	20
Nickel,Dissolved	0.0500	0.0510	0.0505	102	101	80-120			1	20
Selenium,Dissolved	0.0500	0.0481	0.0482	96	96	80-120			0	20
Uranium,Dissolved	0.0500	0.0482	0.0483	96	97	80-120			0	20
Vanadium,Dissolved	0.0500	0.0486	0.0483	97	97	80-120			1	20

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

(LCS) R3215416-2 05/03/17 20:33 • (LCSD) R3215416-3 05/03/17 20:36

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 %
Boron,Dissolved	0.0500	0.0426	0.0455	85	91	80-120			7	20

L905668-21 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L905668-21 05/03/17 01:13 • (MS) R3215164-5 05/03/17 01:20 • (MSD) R3215164-6 05/03/17 01:24

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,Dissolved	0.0500	0.00381	0.0515	0.0522	95	97	1	75-125			1	20
Barium,Dissolved	0.0500	0.0709	0.121	0.124	101	107	1	75-125			2	20
Cadmium,Dissolved	0.0500	U	0.0507	0.0513	101	103	1	75-125			1	20
Chromium,Dissolved	0.0500	0.000690	0.0490	0.0502	97	99	1	75-125			2	20
Cobalt,Dissolved	0.0500	U	0.0487	0.0489	97	98	1	75-125			1	20
Iron,Dissolved	5.00	U	4.86	4.94	97	99	1	75-125			2	20
Lead,Dissolved	0.0500	U	0.0500	0.0501	100	100	1	75-125			0	20
Manganese,Dissolved	0.0500	0.0245	0.0707	0.0737	92	98	1	75-125			4	20
Nickel,Dissolved	0.0500	0.00118	0.0491	0.0489	96	95	1	75-125			1	20
Selenium,Dissolved	0.0500	U	0.0495	0.0490	99	98	1	75-125			1	20
Uranium,Dissolved	0.0500	U	0.0516	0.0517	103	103	1	75-125			0	20
Vanadium,Dissolved	0.0500	0.000712	0.0499	0.0506	98	100	1	75-125			2	20

Method Blank (MB)

(MB) R3215480-1 05/03/17 23:21

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	mg/l		mg/l	mg/l
Boron,Dissolved	U		0.0015	0.0200

Method Blank (MB)

(MB) R3215996-1 05/05/17 17:18

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	mg/l		mg/l	mg/l
Arsenic,Dissolved	U		0.00025	0.00200
Barium,Dissolved	0.000845	J	0.00036	0.00500
Cadmium,Dissolved	U		0.00016	0.00100
Chromium,Dissolved	U		0.00054	0.00200
Cobalt,Dissolved	U		0.00026	0.00200
Iron,Dissolved	U		0.015	0.100
Lead,Dissolved	U		0.00024	0.00200
Manganese,Dissolved	U		0.00025	0.00500
Nickel,Dissolved	U		0.00035	0.00200
Selenium,Dissolved	U		0.00038	0.00200
Uranium,Dissolved	U		0.00033	0.0100
Vanadium,Dissolved	0.000218	J	0.00018	0.00500

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

(LCS) R3215480-2 05/03/17 23:24 • (LCSD) R3215480-3 05/03/17 23:28

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	mg/l	mg/l	mg/l	%	%	%			%	%
Boron,Dissolved	0.0500	0.0437	0.0441	87	88	80-120			1	20

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

(LCS) R3215996-2 05/05/17 17:22 • (LCSD) R3215996-3 05/05/17 17:25

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	mg/l	mg/l	mg/l	%	%	%			%	%
Arsenic,Dissolved	0.0500	0.0471	0.0471	94	94	80-120			0	20
Barium,Dissolved	0.0500	0.0479	0.0488	96	98	80-120			2	20
Cadmium,Dissolved	0.0500	0.0475	0.0482	95	96	80-120			1	20
Chromium,Dissolved	0.0500	0.0481	0.0486	96	97	80-120			1	20
Cobalt,Dissolved	0.0500	0.0496	0.0501	99	100	80-120			1	20
Iron,Dissolved	5.00	4.82	4.90	96	98	80-120			2	20
Lead,Dissolved	0.0500	0.0476	0.0482	95	96	80-120			1	20

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

(LCS) R3215996-2 05/05/17 17:22 • (LCSD) R3215996-3 05/05/17 17:25

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 %
Manganese,Dissolved	0.0500	0.0476	0.0475	95	95	80-120			0	20
Nickel,Dissolved	0.0500	0.0492	0.0494	98	99	80-120			0	20
Selenium,Dissolved	0.0500	0.0461	0.0460	92	92	80-120			0	20
Uranium,Dissolved	0.0500	0.0489	0.0490	98	98	80-120			0	20
Vanadium,Dissolved	0.0500	0.0476	0.0477	95	95	80-120			0	20

L905668-38 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L905668-38 05/05/17 17:29 • (MS) R3215996-5 05/05/17 17:36 • (MSD) R3215996-6 05/05/17 17:39

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Arsenic,Dissolved	0.0500	0.000531	0.0480	0.0475	95	94	1	75-125			1	20
Barium,Dissolved	0.0500	0.0173	0.0638	0.0650	93	95	1	75-125			2	20
Cadmium,Dissolved	0.0500	U	0.0492	0.0486	98	97	1	75-125			1	20
Chromium,Dissolved	0.0500	U	0.0478	0.0466	96	93	1	75-125			3	20
Cobalt,Dissolved	0.0500	U	0.0478	0.0471	96	94	1	75-125			1	20
Iron,Dissolved	5.00	U	4.75	4.69	95	94	1	75-125			1	20
Lead,Dissolved	0.0500	U	0.0479	0.0479	96	96	1	75-125			0	20
Manganese,Dissolved	0.0500	0.451	0.491	0.486	79	71	1	75-125		V	1	20
Nickel,Dissolved	0.0500	0.000907	0.0479	0.0466	94	91	1	75-125			3	20
Selenium,Dissolved	0.0500	U	0.0483	0.0476	97	95	1	75-125			2	20
Uranium,Dissolved	0.0500	0.000637	0.0511	0.0513	101	101	1	75-125			0	20
Vanadium,Dissolved	0.0500	0.000468	0.0483	0.0475	96	94	1	75-125			2	20

Method Blank (MB)

(MB) R3215104-1 05/02/17 20:58

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Arsenic,Dissolved	U		0.00025	0.00200
Barium,Dissolved	U		0.00036	0.00500
Boron,Dissolved	U		0.0015	0.0200
Cadmium,Dissolved	U		0.00016	0.00100
Chromium,Dissolved	U		0.00054	0.00200
Cobalt,Dissolved	U		0.00026	0.00200
Iron,Dissolved	U		0.015	0.100
Lead,Dissolved	U		0.00024	0.00200
Manganese,Dissolved	U		0.00025	0.00500
Nickel,Dissolved	U		0.00035	0.00200
Selenium,Dissolved	0.000702	J	0.00038	0.00200
Uranium,Dissolved	U		0.00033	0.0100
Vanadium,Dissolved	0.000202	J	0.00018	0.00500

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

(LCS) R3215104-2 05/02/17 21:02 • (LCSD) R3215104-3 05/02/17 21:06

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Arsenic,Dissolved	0.0500	0.0525	0.0498	105	100	80-120			5	20
Barium,Dissolved	0.0500	0.0502	0.0482	100	96	80-120			4	20
Boron,Dissolved	0.0500	0.0447	0.0438	89	88	80-120			2	20
Cadmium,Dissolved	0.0500	0.0519	0.0508	104	102	80-120			2	20
Chromium,Dissolved	0.0500	0.0523	0.0505	105	101	80-120			4	20
Cobalt,Dissolved	0.0500	0.0543	0.0521	109	104	80-120			4	20
Iron,Dissolved	5.00	5.24	5.01	105	100	80-120			5	20
Lead,Dissolved	0.0500	0.0514	0.0502	103	100	80-120			2	20
Manganese,Dissolved	0.0500	0.0500	0.0497	100	99	80-120			1	20
Nickel,Dissolved	0.0500	0.0525	0.0506	105	101	80-120			4	20
Selenium,Dissolved	0.0500	0.0508	0.0500	102	100	80-120			2	20
Uranium,Dissolved	0.0500	0.0486	0.0482	97	96	80-120			1	20
Vanadium,Dissolved	0.0500	0.0510	0.0492	102	98	80-120			4	20

L905668-45 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L905668-45 05/02/17 21:09 • (MS) R3215104-5 05/02/17 21:17 • (MSD) R3215104-6 05/02/17 21:20

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 %
Arsenic,Dissolved	0.0500	0.00466	0.0524	0.0532	95	97	1	75-125			2	20
Barium,Dissolved	0.0500	0.00895	0.0597	0.0582	101	99	1	75-125			2	20
Boron,Dissolved	0.0500	0.704	0.796	0.812	185	216	1	75-125	V	V	2	20
Cadmium,Dissolved	0.0500	U	0.0512	0.0485	102	97	1	75-125			5	20
Chromium,Dissolved	0.0500	U	0.0496	0.0505	99	101	1	75-125			2	20
Cobalt,Dissolved	0.0500	U	0.0491	0.0496	98	99	1	75-125			1	20
Iron,Dissolved	5.00	U	4.89	4.93	98	99	1	75-125			1	20
Lead,Dissolved	0.0500	U	0.0497	0.0488	99	98	1	75-125			2	20
Manganese,Dissolved	0.0500	0.00835	0.0560	0.0578	95	99	1	75-125			3	20
Nickel,Dissolved	0.0500	U	0.0478	0.0486	96	97	1	75-125			2	20
Selenium,Dissolved	0.0500	0.00588	0.0569	0.0580	102	104	1	75-125			2	20
Uranium,Dissolved	0.0500	0.0424	0.0928	0.0914	101	98	1	75-125			1	20
Vanadium,Dissolved	0.0500	0.0205	0.0689	0.0706	97	100	1	75-125			2	20

Method Blank (MB)

(MB) R3215762-1 05/05/17 01:50

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	mg/l		mg/l	mg/l
Arsenic,Dissolved	U		0.00025	0.00200
Barium,Dissolved	U		0.00036	0.00500
Cadmium,Dissolved	U		0.00016	0.00100
Chromium,Dissolved	0.000556	J	0.00054	0.00200
Cobalt,Dissolved	U		0.00026	0.00200
Iron,Dissolved	U		0.015	0.100
Lead,Dissolved	U		0.00024	0.00200
Manganese,Dissolved	U		0.00025	0.00500
Nickel,Dissolved	0.00047	J	0.00035	0.00200
Selenium,Dissolved	U		0.00038	0.00200
Uranium,Dissolved	U		0.00033	0.0100
Vanadium,Dissolved	0.00023	J	0.00018	0.00500

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

(LCS) R3215762-2 05/05/17 01:53 • (LCSD) R3215762-3 05/05/17 01:57

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	mg/l	mg/l	mg/l	%	%	%			%	%
Arsenic,Dissolved	0.0500	0.0489	0.0484	98	97	80-120			1	20
Barium,Dissolved	0.0500	0.0537	0.0541	107	108	80-120			1	20
Cadmium,Dissolved	0.0500	0.0483	0.0488	97	98	80-120			1	20
Chromium,Dissolved	0.0500	0.0514	0.0507	103	101	80-120			1	20
Cobalt,Dissolved	0.0500	0.0507	0.0514	101	103	80-120			1	20
Iron,Dissolved	5.00	5.02	5.02	100	100	80-120			0	20
Lead,Dissolved	0.0500	0.0496	0.0499	99	100	80-120			1	20
Manganese,Dissolved	0.0500	0.0498	0.0500	100	100	80-120			0	20
Nickel,Dissolved	0.0500	0.0515	0.0516	103	103	80-120			0	20
Selenium,Dissolved	0.0500	0.0484		97		80-120				
Uranium,Dissolved	0.0500	0.0481	0.0484	96	97	80-120			0	20
Vanadium,Dissolved	0.0500	0.0499	0.0505	100	101	80-120			1	20

L905645-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L905645-01 05/05/17 02:01 • (MS) R3215762-5 05/05/17 02:08 • (MSD) R3215762-6 05/05/17 02:11

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
	mg/l	mg/l	mg/l	mg/l	%	%		%			%	%
Arsenic,Dissolved	0.0500	0.00660	0.0555	0.0537	98	94	1	75-125			3	20
Barium,Dissolved	0.0500	0.0188	0.0730	0.0739	108	110	1	75-125			1	20
Cadmium,Dissolved	0.0500	U	0.0483	0.0477	97	95	1	75-125			1	20

L905645-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L905645-01 05/05/17 02:01 • (MS) R3215762-5 05/05/17 02:08 • (MSD) R3215762-6 05/05/17 02:11

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 %
Chromium,Dissolved	0.0500	0.0114	0.0618	0.0600	101	97	1	75-125			3	20
Cobalt,Dissolved	0.0500	U	0.0485	0.0474	97	95	1	75-125			2	20
Iron,Dissolved	5.00	U	4.90	4.80	98	96	1	75-125			2	20
Lead,Dissolved	0.0500	0.000416	0.0509	0.0500	101	99	1	75-125			2	20
Manganese,Dissolved	0.0500	1.04	1.10	1.09	120	104	1	75-125			1	20
Nickel,Dissolved	0.0500	0.00727	0.0556	0.0541	97	94	1	75-125			3	20
Selenium,Dissolved	0.0500	0.000623	0.0487	0.0472	96	93	1	75-125			3	20
Uranium,Dissolved	0.0500	0.00128	0.0520	0.0512	101	100	1	75-125			1	20
Vanadium,Dissolved	0.0500	0.000789	0.0510	0.0505	100	99	1	75-125			1	20

Method Blank (MB)

(MB) R3215716-1 05/04/17 19:11

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	mg/l		mg/l	mg/l
Arsenic	U		0.00025	0.00200
Barium	U		0.00036	0.00500
Cadmium	U		0.00016	0.00100
Calcium	U		0.046	1.00
Chromium	U		0.00054	0.00200
Cobalt	U		0.00026	0.00200
Iron	U		0.015	0.100
Manganese	U		0.00025	0.00500
Nickel	U		0.00035	0.00200
Potassium	U		0.037	1.00
Selenium	0.000414	J	0.00038	0.00200
Sodium	U		0.11	1.00
Vanadium	U		0.00018	0.00500

Method Blank (MB)

(MB) R3215716-7 05/04/17 21:57

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	mg/l		mg/l	mg/l
Lead	U		0.00024	0.00200
Uranium	U		0.00033	0.0100

Method Blank (MB)

(MB) R3215787-1 05/05/17 07:15

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	mg/l		mg/l	mg/l
Boron	0.00649	J	0.0015	0.0200

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

(LCS) R3215716-2 05/04/17 19:14 • (LCSD) R3215716-3 05/04/17 19:18

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	mg/l	mg/l	mg/l	%	%	%			%	%
Arsenic	0.0500	0.0498	0.0500	100	100	80-120			0	20
Barium	0.0500	0.0523	0.0504	105	101	80-120			4	20
Cadmium	0.0500	0.0508	0.0504	102	101	80-120			1	20
Calcium	5.00	4.95	5.05	99	101	80-120			2	20
Chromium	0.0500	0.0496	0.0509	99	102	80-120			3	20

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

(LCS) R3215716-2 05/04/17 19:14 • (LCSD) R3215716-3 05/04/17 19:18

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 %
Cobalt	0.0500	0.0515	0.0527	103	105	80-120			2	20
Iron	5.00	5.01	5.14	100	103	80-120			3	20
Manganese	0.0500	0.0489	0.0506	98	101	80-120			3	20
Nickel	0.0500	0.0508	0.0530	102	106	80-120			4	20
Potassium	5.00	4.99	4.89	100	98	80-120			2	20
Selenium	0.0500	0.0476	0.0475	95	95	80-120			0	20
Sodium	5.00	5.00	4.93	100	99	80-120			2	20
Vanadium	0.0500	0.0492	0.0501	98	100	80-120			2	20

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

(LCS) R3215716-8 05/04/17 22:01 • (LCSD) R3215716-9 05/04/17 22:04

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Lead	0.0500	0.0493	0.0486	99	97	80-120			1	20
Uranium	0.0500	0.0448	0.0448	90	90	80-120			0	20

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

(LCS) R3215787-2 05/05/17 07:19 • (LCSD) R3215787-3 05/05/17 08:21

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 %
Boron	0.0500	0.0498	0.0475	100	95	80-120			5	20

L905668-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L905668-03 05/04/17 19:21 • (MS) R3215716-5 05/04/17 19:28 • (MSD) R3215716-6 05/04/17 19:32

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	0.00391	0.0529	0.0528	98	98	1	75-125			0	20
Barium	0.0500	0.0198	0.0709	0.0713	102	103	1	75-125			1	20
Cadmium	0.0500	U	0.0503	0.0500	101	100	1	75-125			1	20
Calcium	5.00	263	263	266	0	58	1	75-125	V	V	1	20
Chromium	0.0500	U	0.0472	0.0461	94	92	1	75-125			3	20
Cobalt	0.0500	0.000928	0.0492	0.0498	96	98	1	75-125			1	20
Potassium	5.00	0.676	5.46	5.50	96	97	1	75-125			1	20
Iron	5.00	0.0756	4.89	4.91	96	97	1	75-125			0	20
Manganese	0.0500	0.0972	0.143	0.142	92	90	1	75-125			1	20
Nickel	0.0500	0.00518	0.0529	0.0521	95	94	1	75-125			1	20

L905668-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L905668-03 05/04/17 19:21 • (MS) R3215716-5 05/04/17 19:28 • (MSD) R3215716-6 05/04/17 19:32

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 %
Selenium	0.0500	0.0101	0.0596	0.0610	99	102	1	75-125			2	20
Sodium	5.00	290	290	294	2	97	1	75-125	V		2	20
Vanadium	0.0500	0.0189	0.0667	0.0678	96	98	1	75-125			2	20

L905668-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L905668-03 05/04/17 22:08 • (MS) R3215716-11 05/04/17 22:15 • (MSD) R3215716-12 05/04/17 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 %
Lead	0.0500	U	0.0495	0.0489	99	98	1	75-125			1	20
Uranium	0.0500	0.0185	0.0667	0.0656	96	94	1	75-125			2	20

Method Blank (MB)

(MB) R3214864-1 05/02/17 02:32

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Arsenic	U		0.00025	0.00200
Barium	U		0.00036	0.00500
Cadmium	U		0.00016	0.00100
Calcium	U		0.046	1.00
Chromium	U		0.00054	0.00200
Cobalt	U		0.00026	0.00200
Iron	U		0.015	0.100
Lead	U		0.00024	0.00200
Manganese	U		0.00025	0.00500
Nickel	U		0.00035	0.00200
Potassium	U		0.037	1.00
Selenium	U		0.00038	0.00200
Sodium	U		0.11	1.00
Uranium	U		0.00033	0.0100
Vanadium	0.000186	J	0.00018	0.00500

Method Blank (MB)

(MB) R3214985-1 05/02/17 12:41

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Boron	U		0.0015	0.0200

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

(LCS) R3214864-2 05/02/17 02:35 • (LCSD) R3214864-3 05/02/17 02:39

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 %
Arsenic	0.0500	0.0466	0.0456	93	91	80-120			2	20
Barium	0.0500	0.0439	0.0434	88	87	80-120			1	20
Cadmium	0.0500	0.0476	0.0482	95	96	80-120			1	20
Calcium	5.00	4.56	4.51	91	90	80-120			1	20
Chromium	0.0500	0.0483	0.0476	97	95	80-120			2	20
Cobalt	0.0500	0.0501	0.0493	100	99	80-120			1	20
Iron	5.00	4.84	4.76	97	95	80-120			2	20
Lead	0.0500	0.0469	0.0470	94	94	80-120			0	20
Manganese	0.0500	0.0467	0.0462	93	92	80-120			1	20
Nickel	0.0500	0.0499	0.0494	100	99	80-120			1	20
Potassium	5.00	4.66	4.57	93	91	80-120			2	20

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

(LCS) R3214864-2 05/02/17 02:35 • (LCSD) R3214864-3 05/02/17 02:39

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 %
Selenium	0.0500	0.0472	0.0456	94	91	80-120			3	20
Sodium	5.00	5.00	4.95	100	99	80-120			1	20
Uranium	0.0500	0.0446	0.0441	89	88	80-120			1	20
Vanadium	0.0500	0.0472	0.0471	94	94	80-120			0	20

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

(LCS) R3214985-2 05/02/17 12:45 • (LCSD) R3214985-3 05/02/17 12:49

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 %
Boron	0.0500	0.0421	0.0417	84	83	80-120			1	20

L905668-38 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L905668-38 05/02/17 02:42 • (MS) R3214864-5 05/02/17 02:49 • (MSD) R3214864-6 05/02/17 02:53

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Arsenic	0.0500	0.000518	0.0462	0.0467	91	92	1	75-125			1	20
Barium	0.0500	0.0156	0.0622	0.0610	93	91	1	75-125			2	20
Cadmium	0.0500	U	0.0477	0.0480	95	96	1	75-125			0	20
Calcium	5.00	412	414	414	40	40	1	75-125	V	V	0	20
Chromium	0.0500	U	0.0464	0.0474	93	95	1	75-125			2	20
Cobalt	0.0500	U	0.0465	0.0470	93	94	1	75-125			1	20
Potassium	5.00	0.745	5.27	5.29	91	91	1	75-125			0	20
Iron	5.00	0.0276	4.60	4.66	91	93	1	75-125			1	20
Lead	0.0500	U	0.0468	0.0470	94	94	1	75-125			0	20
Manganese	0.0500	0.436	0.467	0.473	60	73	1	75-125	V	V	1	20
Nickel	0.0500	0.000546	0.0460	0.0469	91	93	1	75-125			2	20
Selenium	0.0500	U	0.0457	0.0494	91	99	1	75-125			8	20
Sodium	5.00	178	179	180	29	47	1	75-125	V	V	1	20
Uranium	0.0500	0.000563	0.0467	0.0477	92	94	1	75-125			2	20
Vanadium	0.0500	0.000519	0.0475	0.0477	94	94	1	75-125			0	20

Method Blank (MB)

(MB) R3215564-1 05/04/17 10:44

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Arsenic	U		0.00025	0.00200
Barium	U		0.00036	0.00500
Boron	U		0.0015	0.0200
Cadmium	U		0.00016	0.00100
Calcium	U		0.046	1.00
Chromium	U		0.00054	0.00200
Cobalt	U		0.00026	0.00200
Iron	U		0.015	0.100
Lead	U		0.00024	0.00200
Manganese	U		0.00025	0.00500
Nickel	0.0005	J	0.00035	0.00200
Potassium	U		0.037	1.00
Selenium	U		0.00038	0.00200
Sodium	U		0.11	1.00
Uranium	U		0.00033	0.0100
Vanadium	U		0.00018	0.00500

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

(LCS) R3215564-2 05/04/17 10:47 • (LCSD) R3215564-3 05/04/17 10:51

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Arsenic	0.0500	0.0499	0.0492	100	98	80-120			1	20
Barium	0.0500	0.0496	0.0479	99	96	80-120			3	20
Boron	0.0500	0.0496	0.0498	99	100	80-120			0	20
Cadmium	0.0500	0.0507	0.0501	101	100	80-120			1	20
Calcium	5.00	4.99	4.88	100	98	80-120			2	20
Chromium	0.0500	0.0515	0.0509	103	102	80-120			1	20
Cobalt	0.0500	0.0527	0.0519	105	104	80-120			1	20
Iron	5.00	5.16	5.03	103	101	80-120			2	20
Lead	0.0500	0.0500	0.0498	100	100	80-120			0	20
Manganese	0.0500	0.0494	0.0486	99	97	80-120			2	20
Nickel	0.0500	0.0525	0.0516	105	103	80-120			2	20
Potassium	5.00	5.09	5.00	102	100	80-120			2	20
Selenium	0.0500	0.0511	0.0515	102	103	80-120			1	20
Sodium	5.00	5.27	5.17	105	103	80-120			2	20
Uranium	0.0500	0.0509	0.0507	102	101	80-120			0	20
Vanadium	0.0500	0.0505	0.0499	101	100	80-120			1	20

L905668-42 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L905668-42 05/04/17 10:54 • (MS) R3215564-5 05/04/17 11:01 • (MSD) R3215564-6 05/04/17 11:05

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Arsenic	0.0500	0.00173	0.0505	0.0504	98	97	1	75-125			0	20
Barium	0.0500	0.0612	0.111	0.112	100	101	1	75-125			0	20
Boron	0.0500	0.405	0.449	0.446	88	83	1	75-125			1	20
Cadmium	0.0500	U	0.0504	0.0501	101	100	1	75-125			1	20
Calcium	5.00	203	202	203	0	8	1	75-125	V	V	1	20
Chromium	0.0500	U	0.0495	0.0491	99	98	1	75-125			1	20
Cobalt	0.0500	U	0.0489	0.0490	98	98	1	75-125			0	20
Potassium	5.00	0.730	5.56	5.55	97	96	1	75-125			0	20
Iron	5.00	U	4.89	4.82	98	96	1	75-125			1	20
Lead	0.0500	U	0.0502	0.0497	100	99	1	75-125			1	20
Manganese	0.0500	0.0330	0.0781	0.0782	90	90	1	75-125			0	20
Nickel	0.0500	0.00557	0.0534	0.0534	96	96	1	75-125			0	20
Selenium	0.0500	0.000407	0.0515	0.0495	102	98	1	75-125			4	20
Sodium	5.00	194	191	193	0	0	1	75-125	V	V	1	20
Uranium	0.0500	U	0.0547	0.0539	109	108	1	75-125			2	20
Vanadium	0.0500	0.00257	0.0519	0.0513	99	98	1	75-125			1	20

Method Blank (MB)

(MB) R3215772-1 05/05/17 03:23

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Arsenic	U		0.00025	0.00200
Barium	U		0.00036	0.00500
Boron	0.00774	J	0.0015	0.0200
Cadmium	U		0.00016	0.00100
Calcium	U		0.046	1.00
Chromium	U		0.00054	0.00200
Cobalt	U		0.00026	0.00200
Iron	U		0.015	0.100
Manganese	0.000834	J	0.00025	0.00500
Nickel	U		0.00035	0.00200
Potassium	U		0.037	1.00
Selenium	U		0.00038	0.00200
Sodium	U		0.11	1.00
Vanadium	0.000442	J	0.00018	0.00500

Method Blank (MB)

(MB) R3216099-1 05/05/17 20:44

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Lead	U		0.00024	0.00200
Uranium	U		0.00033	0.0100

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

(LCS) R3215772-2 05/05/17 03:27 • (LCSD) R3215772-3 05/05/17 03:30

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 %
Arsenic	0.0500	0.0463	0.0465	93	93	80-120			1	20
Barium	0.0500	0.0472	0.0484	94	97	80-120			2	20
Boron	0.0500	0.0498	0.0501	100	100	80-120			1	20
Cadmium	0.0500	0.0469	0.0484	94	97	80-120			3	20
Calcium	5.00	4.75	4.82	95	96	80-120			1	20
Chromium	0.0500	0.0474	0.0476	95	95	80-120			1	20
Cobalt	0.0500	0.0489	0.0496	98	99	80-120			1	20
Iron	5.00	4.81	4.87	96	97	80-120			1	20
Manganese	0.0500	0.0471	0.0476	94	95	80-120			1	20
Nickel	0.0500	0.0484	0.0489	97	98	80-120			1	20
Potassium	5.00	4.68	4.76	94	95	80-120			2	20

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

(LCS) R3215772-2 05/05/17 03:27 • (LCSD) R3215772-3 05/05/17 03:30

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 %
Selenium	0.0500	0.0457	0.0467	91	93	80-120			2	20
Sodium	5.00	4.84	4.90	97	98	80-120			1	20
Vanadium	0.0500	0.0473	0.0478	95	96	80-120			1	20

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

(LCS) R3216099-2 05/05/17 20:47 • (LCSD) R3216099-3 05/05/17 20:51

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Lead	0.0500	0.0490	0.0491	98	98	80-120			0	20
Uranium	0.0500	0.0484	0.0484	97	97	80-120			0	20

L905651-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L905651-01 05/05/17 03:34 • (MS) R3215772-5 05/05/17 03:41 • (MSD) R3215772-6 05/05/17 03:44

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	0.0500	0.00642	0.0541	0.0539	95	95	1	75-125			0	20
Barium	0.0500	0.0157	0.0654	0.0656	99	100	1	75-125			0	20
Boron	0.0500	0.535	0.583	0.578	94	85	1	75-125			1	20
Cadmium	0.0500	U	0.0491	0.0481	98	96	1	75-125			2	20
Calcium	5.00	501	507	504	118	55	1	75-125		V	1	20
Chromium	0.0500	U	0.0478	0.0479	96	96	1	75-125			0	20
Cobalt	0.0500	0.00617	0.0544	0.0547	96	97	1	75-125			1	20
Potassium	5.00	2.10	6.77	6.72	94	93	1	75-125			1	20
Iron	5.00	U	4.82	4.82	96	96	1	75-125			0	20
Manganese	0.0500	0.320	0.364	0.365	88	91	1	75-125			0	20
Nickel	0.0500	0.00772	0.0550	0.0551	95	95	1	75-125			0	20
Selenium	0.0500	0.00325	0.0527	0.0515	99	97	1	75-125			2	20
Sodium	5.00	338	338	335	13	0	1	75-125	V	V	1	20
Vanadium	0.0500	0.0252	0.0741	0.0741	98	98	1	75-125			0	20

L905651-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L905651-01 05/05/17 20:55 • (MS) R3216099-5 05/05/17 21:02 • (MSD) R3216099-6 05/05/17 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 %
Lead	0.0500	0.000467	0.0508	0.0513	101	102	1	75-125			1	20
Uranium	0.0500	0.0227	0.0743	0.0752	103	105	1	75-125			1	20

Method Blank (MB)

(MB) R3215093-1 05/02/17 18:14

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Arsenic	U		0.00025	0.00200
Barium	U		0.00036	0.00500
Calcium	U		0.046	1.00
Chromium	U		0.00054	0.00200
Iron	U		0.015	0.100
Lead	U		0.00024	0.00200
Manganese	U		0.00025	0.00500
Potassium	0.0382	J	0.037	1.00
Selenium	U		0.00038	0.00200
Sodium	U		0.11	1.00

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

(LCS) R3215093-2 05/02/17 18:18 • (LCSD) R3215093-3 05/02/17 18:21

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 %
Arsenic	0.0500	0.0528	0.0519	106	104	80-120			2	20
Barium	0.0500	0.0521	0.0504	104	101	80-120			3	20
Calcium	5.00	5.26	5.04	105	101	80-120			4	20
Chromium	0.0500	0.0540	0.0532	108	106	80-120			1	20
Iron	5.00	5.44	5.40	109	108	80-120			1	20
Lead	0.0500	0.0515	0.0507	103	101	80-120			2	20
Manganese	0.0500	0.0539	0.0531	108	106	80-120			2	20
Potassium	5.00	5.22	5.06	104	101	80-120			3	20
Selenium	0.0500	0.0511	0.0516	102	103	80-120			1	20
Sodium	5.00	5.19	5.03	104	101	80-120			3	20

L905855-04 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L905855-04 05/02/17 18:25 • (MS) R3215093-5 05/02/17 18:32 • (MSD) R3215093-6 05/02/17 18:36

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	0.000648	0.0507	0.0490	100	97	1	75-125			3	20
Barium	0.0500	0.221	0.271	0.271	99	98	1	75-125			0	20
Calcium	5.00	126	133	133	148	136	1	75-125	V	V	0	20
Chromium	0.0500	U	0.0517	0.0501	103	100	1	75-125			3	20
Potassium	5.00	3.67	8.95	8.81	106	103	1	75-125			2	20
Iron	5.00	U	5.13	4.97	103	99	1	75-125			3	20
Lead	0.0500	0.000538	0.0516	0.0501	102	99	1	75-125			3	20

L905855-04 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L905855-04 05/02/17 18:25 • (MS) R3215093-5 05/02/17 18:32 • (MSD) R3215093-6 05/02/17 18:36

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 %
Manganese	0.0500	0.000568	0.0515	0.0491	102	97	1	75-125			5	20
Selenium	0.0500	0.000675	0.0529	0.0508	104	100	1	75-125			4	20
Sodium	5.00	76.3	83.4	82.5	143	124	1	75-125	V		1	20

Method Blank (MB)

(MB) R3216897-1 05/10/17 11:25

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	mg/l		mg/l	mg/l
Boron,Dissolved	0.00918	J	0.0015	0.0200

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

(LCS) R3216897-2 05/10/17 11:28 • (LCSD) R3216897-3 05/10/17 11:32

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	mg/l	mg/l	mg/l	%	%	%			%	%
Boron,Dissolved	0.0500	0.0548	0.0476	110	95	80-120			14	20

L905651-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L905651-02 05/10/17 11:36 • (MS) R3216897-5 05/10/17 11:43 • (MSD) R3216897-6 05/10/17 11:46

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
	mg/l	mg/l	mg/l	mg/l	%	%		%			%	%
Boron,Dissolved	0.0500	0.756	0.816	0.811	121	111	1	75-125			1	20

Method Blank (MB)

(MB) R3217063-1 05/10/17 15:25

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Arsenic,Dissolved	U		0.00025	0.00200
Barium,Dissolved	U		0.00036	0.00500
Chromium,Dissolved	U		0.00054	0.00200
Iron,Dissolved	U		0.015	0.100
Lead,Dissolved	U		0.00024	0.00200
Manganese,Dissolved	0.000347	J	0.00025	0.00500
Selenium,Dissolved	U		0.00038	0.00200

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

(LCS) R3217063-2 05/10/17 15:29 • (LCSD) R3217063-3 05/10/17 15:33

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 %
Arsenic,Dissolved	0.0500	0.0485	0.0493	97	99	80-120			2	20
Barium,Dissolved	0.0500	0.0505	0.0500	101	100	80-120			1	20
Chromium,Dissolved	0.0500	0.0500	0.0498	100	100	80-120			0	20
Iron,Dissolved	5.00	4.95	4.98	99	100	80-120			1	20
Lead,Dissolved	0.0500	0.0498	0.0497	100	99	80-120			0	20
Manganese,Dissolved	0.0500	0.0502	0.0495	100	99	80-120			1	20
Selenium,Dissolved	0.0500	0.0529	0.0510	106	102	80-120			4	20

L906804-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L906804-01 05/10/17 15:36 • (MS) R3217063-5 05/10/17 15:43 • (MSD) R3217063-6 05/10/17 15:47

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 %
Arsenic,Dissolved	0.0500	U	0.0467	0.0473	93	95	1	75-125			1	20
Barium,Dissolved	0.0500	0.0145	0.0653	0.0650	102	101	1	75-125			1	20
Chromium,Dissolved	0.0500	U	0.0460	0.0463	92	93	1	75-125			1	20
Iron,Dissolved	5.00	U	4.68	4.67	94	93	1	75-125			0	20
Lead,Dissolved	0.0500	U	0.0485	0.0485	97	97	1	75-125			0	20
Manganese,Dissolved	0.0500	0.000320	0.0462	0.0466	92	93	1	75-125			1	20
Selenium,Dissolved	0.0500	0.00113	0.0527	0.0504	103	99	1	75-125			4	20

Method Blank (MB)

(MB) R3215819-3 04/30/17 19:38

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	mg/l		mg/l	mg/l
TPH (GC/FID) Low Fraction	U		0.0314	0.100
(S) a,a,a-Trifluorotoluene(FID)	*99.9*			*77.0-122*

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

(LCS) R3215819-1 04/30/17 18:25 • (LCSD) R3215819-2 04/30/17 18:50

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	mg/l	mg/l	mg/l	%	%	%			%	%
TPH (GC/FID) Low Fraction	5.50	5.42	5.17	98.5	93.9	71.0-136			4.75	20
(S) a,a,a-Trifluorotoluene(FID)				*103*	*103*	*77.0-122*				

L905602-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L905602-03 04/30/17 21:14 • (MS) R3215819-4 04/30/17 20:02 • (MSD) R3215819-5 04/30/17 20:26

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
	mg/l	mg/l	mg/l	mg/l	%	%		%			%	%
TPH (GC/FID) Low Fraction	5.50	0.585	2.84	2.81	41.0	40.4	1	18.0-160			1.24	20
(S) a,a,a-Trifluorotoluene(FID)					*97.3*	*97.9*		*77.0-122*				

Method Blank (MB)

(MB) R3216062-3 04/30/17 18:29

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	mg/l		mg/l	mg/l
TPH (GC/FID) Low Fraction	U		0.0314	0.100
(S) a,a,a-Trifluorotoluene(FID)	*102*			*77.0-122*

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

(LCS) R3216062-1 04/30/17 17:23 • (LCSD) R3216062-2 04/30/17 17:45

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	mg/l	mg/l	mg/l	%	%	%			%	%
TPH (GC/FID) Low Fraction	5.50	4.72	4.46	85.7	81.2	71.0-136			5.50	20
(S) a,a,a-Trifluorotoluene(FID)				*100*	*100*	*77.0-122*				

L905668-18 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L905668-18 04/30/17 19:57 • (MS) R3216062-4 04/30/17 18:51 • (MSD) R3216062-5 04/30/17 19:13

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
	mg/l	mg/l	mg/l	mg/l	%	%		%			%	%
TPH (GC/FID) Low Fraction	5.50	U	2.78	2.68	50.5	48.8	1	18.0-160			3.39	20
(S) a,a,a-Trifluorotoluene(FID)					*101*	*102*		*77.0-122*				

Method Blank (MB)

(MB) R3216151-3 04/30/17 20:21

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	mg/l		mg/l	mg/l
TPH (GC/FID) Low Fraction	U		0.0314	0.100
(S) a,a,a-Trifluorotoluene(FID)	*95.5*			*77.0-122*

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

(LCS) R3216151-1 04/30/17 19:15 • (LCSD) R3216151-2 04/30/17 19:37

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	mg/l	mg/l	mg/l	%	%	%			%	%
TPH (GC/FID) Low Fraction	5.50	4.44	4.87	80.7	88.5	71.0-136			9.24	20
(S) a,a,a-Trifluorotoluene(FID)				*106*	*107*	*77.0-122*				

L905668-42 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L905668-42 04/30/17 22:13 • (MS) R3216151-4 04/30/17 20:43 • (MSD) R3216151-5 04/30/17 21:06

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
	mg/l	mg/l	mg/l	mg/l	%	%		%			%	%
TPH (GC/FID) Low Fraction	5.50	0.0826	2.40	2.67	42.1	47.0	1	18.0-160			10.6	20
(S) a,a,a-Trifluorotoluene(FID)					*97.2*	*97.7*		*77.0-122*				

Method Blank (MB)

(MB) R3215720-3 05/01/17 11:00

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	mg/l		mg/l	mg/l
TPH (GC/FID) Low Fraction	U		0.0314	0.100
(S) a,a,a-Trifluorotoluene(FID)	*101*			*77.0-122*

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

(LCS) R3215720-1 05/01/17 09:48 • (LCSD) R3215720-2 05/01/17 10:12

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	mg/l	mg/l	mg/l	%	%	%			%	%
TPH (GC/FID) Low Fraction	5.50	5.01	5.08	91.2	92.3	71.0-136			1.26	20
(S) a,a,a-Trifluorotoluene(FID)				*102*	*102*	*77.0-122*				

L905796-07 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L905796-07 05/01/17 12:00 • (MS) R3215720-4 05/01/17 12:24 • (MSD) R3215720-5 05/01/17 12:48

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
	mg/l	mg/l	mg/l	mg/l	%	%		%			%	%
TPH (GC/FID) Low Fraction	5.50	0.0358	4.78	4.75	86.2	85.8	1	18.0-160			0.540	20
(S) a,a,a-Trifluorotoluene(FID)					*101*	*101*		*77.0-122*				

Method Blank (MB)

(MB) R3216370-5 05/01/17 11:31

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	mg/l		mg/l	mg/l
TPH (GC/FID) Low Fraction	U		0.0314	0.100
(S) a,a,a-Trifluorotoluene(FID)	*103*			*77.0-122*

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

(LCS) R3216370-3 05/01/17 10:28 • (LCSD) R3216370-4 05/01/17 10:49

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	mg/l	mg/l	mg/l	%	%	%			%	%
TPH (GC/FID) Low Fraction	5.50	5.44	5.67	98.8	103	71.0-136			4.16	20
(S) a,a,a-Trifluorotoluene(FID)				*106*	*107*	*77.0-122*				

L905669-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L905669-02 05/01/17 11:52 • (MS) R3216370-8 05/01/17 12:55 • (MSD) R3216370-9 05/01/17 13:16

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
	mg/l	mg/l	mg/l	mg/l	%	%		%			%	%
TPH (GC/FID) Low Fraction	5.50	U	4.99	5.12	90.8	93.0	1	18.0-160			2.42	20
(S) a,a,a-Trifluorotoluene(FID)					*104*	*104*		*77.0-122*				

Method Blank (MB)

(MB) R3215233-3 05/02/17 11:21

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Acetone	U		0.0100	0.0500
Benzene	U		0.000331	0.00100
Bromodichloromethane	U		0.000380	0.00100
Bromoform	U		0.000469	0.00100
Bromomethane	U		0.000866	0.00500
n-Butylbenzene	U		0.000361	0.00100
sec-Butylbenzene	U		0.000365	0.00100
Carbon disulfide	U		0.000275	0.00100
Carbon tetrachloride	U		0.000379	0.00100
Chlorobenzene	U		0.000348	0.00100
Chlorodibromomethane	U		0.000327	0.00100
Chloroethane	U		0.000453	0.00500
Chloroform	U		0.000324	0.00500
Chloromethane	U		0.000276	0.00250
1,2-Dibromoethane	U		0.000381	0.00100
1,1-Dichloroethane	U		0.000259	0.00100
1,2-Dichloroethane	U		0.000361	0.00100
1,1-Dichloroethene	U		0.000398	0.00100
cis-1,2-Dichloroethene	U		0.000260	0.00100
trans-1,2-Dichloroethene	U		0.000396	0.00100
1,2-Dichloropropane	U		0.000306	0.00100
cis-1,3-Dichloropropene	U		0.000418	0.00100
trans-1,3-Dichloropropene	U		0.000419	0.00100
Ethylbenzene	U		0.000384	0.00100
2-Hexanone	U		0.00382	0.0100
Isopropylbenzene	U		0.000326	0.00100
2-Butanone (MEK)	U		0.00393	0.0100
p-Isopropyltoluene	U		0.000350	0.00100
Methylene Chloride	U		0.00100	0.00500
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100
Methyl tert-butyl ether	U		0.000367	0.00100
Naphthalene	U		0.00100	0.00500
n-Propylbenzene	U		0.000349	0.00100
Styrene	U		0.000307	0.00100
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100
Tetrachloroethene	U		0.000372	0.00100
Toluene	U		0.000412	0.00100
1,1,1-Trichloroethane	U		0.000319	0.00100
1,1,2-Trichloroethane	U		0.000383	0.00100

Method Blank (MB)

(MB) R3215233-3 05/02/17 11:21

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	mg/l		mg/l	mg/l
Trichloroethene	U		0.000398	0.00100
1,2,4-Trimethylbenzene	U		0.000373	0.00100
1,3,5-Trimethylbenzene	U		0.000387	0.00100
Vinyl chloride	U		0.000259	0.00100
Xylenes, Total	U		0.00106	0.00300
o-Xylene	U		0.000341	0.00100
m&p-Xylenes	U		0.000719	0.00200
(S) Toluene-d8	*104*			*80.0-120*
(S) Dibromofluoromethane	*99.8*			*76.0-123*
(S) 4-Bromofluorobenzene	*104*			*80.0-120*

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

(LCS) R3215233-1 05/02/17 10:19 • (LCSD) R3215233-2 05/02/17 10:40

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	mg/l	mg/l	mg/l	%	%	%			%	%
Acetone	0.125	0.114	0.123	91.5	98.1	10.0-160			6.91	23
Benzene	0.0250	0.0235	0.0231	94.1	92.4	69.0-123			1.87	20
Bromodichloromethane	0.0250	0.0241	0.0235	96.6	93.8	76.0-120			2.88	20
Bromoform	0.0250	0.0249	0.0243	99.6	97.3	67.0-132			2.34	20
Bromomethane	0.0250	0.0224	0.0230	89.5	92.1	18.0-160			2.93	20
n-Butylbenzene	0.0250	0.0254	0.0249	101	99.5	72.0-126			1.92	20
Carbon disulfide	0.0250	0.0239	0.0237	95.6	94.6	55.0-127			1.06	20
sec-Butylbenzene	0.0250	0.0258	0.0255	103	102	74.0-121			1.15	20
Carbon tetrachloride	0.0250	0.0241	0.0238	96.2	95.2	63.0-122			1.03	20
Chlorobenzene	0.0250	0.0238	0.0231	95.0	92.6	79.0-121			2.66	20
Chlorodibromomethane	0.0250	0.0240	0.0236	96.1	94.4	75.0-125			1.83	20
Chloroethane	0.0250	0.0226	0.0225	90.3	90.1	47.0-152			0.290	20
Chloroform	0.0250	0.0239	0.0234	95.5	93.6	72.0-121			2.03	20
Chloromethane	0.0250	0.0241	0.0230	96.6	92.0	48.0-139			4.88	20
1,2-Dibromoethane	0.0250	0.0234	0.0227	93.6	90.7	77.0-123			3.11	20
1,1-Dichloroethane	0.0250	0.0239	0.0236	95.5	94.6	70.0-126			1.02	20
1,2-Dichloroethane	0.0250	0.0237	0.0233	94.8	93.1	67.0-126			1.81	20
1,1-Dichloroethene	0.0250	0.0250	0.0246	99.9	98.5	64.0-129			1.37	20
cis-1,2-Dichloroethene	0.0250	0.0235	0.0233	94.1	93.3	73.0-120			0.880	20
trans-1,2-Dichloroethene	0.0250	0.0234	0.0234	93.6	93.5	71.0-121			0.110	20
1,2-Dichloropropane	0.0250	0.0244	0.0238	97.6	95.0	75.0-125			2.70	20
cis-1,3-Dichloropropene	0.0250	0.0242	0.0231	96.7	92.5	79.0-123			4.45	20
trans-1,3-Dichloropropene	0.0250	0.0244	0.0226	97.7	90.5	74.0-127			7.58	20

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

(LCS) R3215233-1 05/02/17 10:19 • (LCSD) R3215233-2 05/02/17 10:40

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Ethylbenzene	0.0250	0.0242	0.0238	96.8	95.2	77.0-120			1.61	20
2-Hexanone	0.125	0.109	0.105	87.2	83.7	58.0-147			4.11	20
2-Butanone (MEK)	0.125	0.0994	0.100	79.5	80.1	37.0-158			0.730	20
Isopropylbenzene	0.0250	0.0252	0.0248	101	99.2	75.0-120			1.76	20
Methylene Chloride	0.0250	0.0229	0.0228	91.4	91.1	66.0-121			0.330	20
p-Isopropyltoluene	0.0250	0.0262	0.0259	105	104	74.0-126			1.02	20
4-Methyl-2-pentanone (MIBK)	0.125	0.120	0.116	96.2	92.7	59.0-143			3.72	20
Methyl tert-butyl ether	0.0250	0.0235	0.0234	94.1	93.4	64.0-123			0.710	20
Naphthalene	0.0250	0.0224	0.0228	89.6	91.3	62.0-128			1.86	20
Styrene	0.0250	0.0253	0.0239	101	95.7	78.0-124			5.77	20
1,1,1,2-Tetrachloroethane	0.0250	0.0244	0.0248	97.8	99.1	75.0-122			1.34	20
n-Propylbenzene	0.0250	0.0248	0.0243	99.4	97.2	79.0-120			2.19	20
1,1,2,2-Tetrachloroethane	0.0250	0.0233	0.0233	93.2	93.3	71.0-122			0.110	20
Tetrachloroethene	0.0250	0.0242	0.0237	96.8	94.9	70.0-127			2.05	20
Toluene	0.0250	0.0239	0.0228	95.5	91.2	77.0-120			4.58	20
1,1,1-Trichloroethane	0.0250	0.0245	0.0242	97.9	96.8	68.0-122			1.11	20
1,1,2-Trichloroethane	0.0250	0.0235	0.0230	94.2	92.0	78.0-120			2.37	20
Trichloroethene	0.0250	0.0239	0.0237	95.5	94.8	78.0-120			0.760	20
1,2,4-Trimethylbenzene	0.0250	0.0253	0.0251	101	100	75.0-120			0.790	20
1,3,5-Trimethylbenzene	0.0250	0.0252	0.0249	101	99.7	75.0-120			0.910	20
Vinyl chloride	0.0250	0.0250	0.0215	100	85.9	64.0-133			15.3	20
Xylenes, Total	0.0750	0.0731	0.0715	97.5	95.3	77.0-120			2.21	20
o-Xylene	0.0250	0.0242	0.0241	96.8	96.3	78.0-120			0.580	20
m&p-Xylenes	0.0500	0.0489	0.0474	97.8	94.7	77.0-120			3.17	20
(S) Toluene-d8				*106*	*104*	*80.0-120*				
(S) Dibromofluoromethane				*100*	*103*	*76.0-123*				
(S) 4-Bromofluorobenzene				*102*	*102*	*80.0-120*				

Method Blank (MB)

(MB) R3215705-3 05/02/17 03:08

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Acetone	U		0.0100	0.0500
Benzene	U		0.000331	0.00100
Bromodichloromethane	U		0.000380	0.00100
Bromoform	U		0.000469	0.00100
Bromomethane	U		0.000866	0.00500
n-Butylbenzene	U		0.000361	0.00100
sec-Butylbenzene	U		0.000365	0.00100
Carbon disulfide	U		0.000275	0.00100
Carbon tetrachloride	U		0.000379	0.00100
Chlorobenzene	U		0.000348	0.00100
Chlorodibromomethane	U		0.000327	0.00100
Chloroethane	U		0.000453	0.00500
Chloroform	U		0.000324	0.00500
Chloromethane	U		0.000276	0.00250
1,2-Dibromoethane	U		0.000381	0.00100
1,1-Dichloroethane	U		0.000259	0.00100
1,2-Dichloroethane	U		0.000361	0.00100
1,1-Dichloroethene	U		0.000398	0.00100
cis-1,2-Dichloroethene	U		0.000260	0.00100
trans-1,2-Dichloroethene	U		0.000396	0.00100
1,2-Dichloropropane	U		0.000306	0.00100
cis-1,3-Dichloropropene	U		0.000418	0.00100
trans-1,3-Dichloropropene	U		0.000419	0.00100
Ethylbenzene	U		0.000384	0.00100
2-Hexanone	U		0.00382	0.0100
Isopropylbenzene	U		0.000326	0.00100
p-Isopropyltoluene	U		0.000350	0.00100
2-Butanone (MEK)	U		0.00393	0.0100
Methylene Chloride	U		0.00100	0.00500
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100
Methyl tert-butyl ether	U		0.000367	0.00100
Naphthalene	U		0.00100	0.00500
n-Propylbenzene	U		0.000349	0.00100
Styrene	U		0.000307	0.00100
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100
Tetrachloroethene	U		0.000372	0.00100
Toluene	U		0.000412	0.00100
1,1,1-Trichloroethane	U		0.000319	0.00100
1,1,2-Trichloroethane	U		0.000383	0.00100

Method Blank (MB)

(MB) R3215705-3 05/02/17 03:08

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Trichloroethene	U		0.000398	0.00100
1,2,4-Trimethylbenzene	U		0.000373	0.00100
1,3,5-Trimethylbenzene	U		0.000387	0.00100
Vinyl chloride	U		0.000259	0.00100
Xylenes, Total	U		0.00106	0.00300
o-Xylene	U		0.000341	0.00100
m&p-Xylenes	U		0.000719	0.00200
(S) Toluene-d8	*102*			*80.0-120*
(S) Dibromofluoromethane	*102*			*76.0-123*
(S) 4-Bromofluorobenzene	*103*			*80.0-120*

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

(LCS) R3215705-1 05/02/17 02:05 • (LCSD) R3215705-2 05/02/17 02:26

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 %
Acetone	0.125	0.150	0.144	120	116	10.0-160			3.77	23
Benzene	0.0250	0.0245	0.0234	97.8	93.5	69.0-123			4.52	20
Bromodichloromethane	0.0250	0.0219	0.0211	87.8	84.4	76.0-120			3.86	20
Bromoform	0.0250	0.0212	0.0212	84.6	84.7	67.0-132			0.100	20
Bromomethane	0.0250	0.0177	0.0196	71.0	78.4	18.0-160			9.98	20
n-Butylbenzene	0.0250	0.0255	0.0248	102	99.1	72.0-126			3.01	20
sec-Butylbenzene	0.0250	0.0254	0.0242	102	96.9	74.0-121			4.91	20
Carbon disulfide	0.0250	0.0202	0.0190	80.7	76.0	55.0-127			5.94	20
Carbon tetrachloride	0.0250	0.0220	0.0207	87.8	82.7	63.0-122			5.94	20
Chlorobenzene	0.0250	0.0239	0.0227	95.7	90.7	79.0-121			5.40	20
Chlorodibromomethane	0.0250	0.0217	0.0215	86.7	86.0	75.0-125			0.730	20
Chloroethane	0.0250	0.0248	0.0223	99.1	89.0	47.0-152			10.7	20
Chloroform	0.0250	0.0241	0.0233	96.6	93.1	72.0-121			3.64	20
Chloromethane	0.0250	0.0251	0.0234	100	93.7	48.0-139			6.96	20
1,2-Dibromoethane	0.0250	0.0218	0.0215	87.1	85.9	77.0-123			1.42	20
1,1-Dichloroethane	0.0250	0.0252	0.0243	101	97.4	70.0-126			3.61	20
1,2-Dichloroethane	0.0250	0.0222	0.0223	88.8	89.3	67.0-126			0.520	20
1,1-Dichloroethene	0.0250	0.0228	0.0208	91.3	83.4	64.0-129			9.12	20
cis-1,2-Dichloroethene	0.0250	0.0240	0.0228	95.9	91.3	73.0-120			4.85	20
trans-1,2-Dichloroethene	0.0250	0.0242	0.0229	96.9	91.4	71.0-121			5.79	20
1,2-Dichloropropane	0.0250	0.0244	0.0240	97.6	96.0	75.0-125			1.71	20
cis-1,3-Dichloropropene	0.0250	0.0229	0.0222	91.6	88.8	79.0-123			3.00	20
trans-1,3-Dichloropropene	0.0250	0.0219	0.0220	87.8	88.0	74.0-127			0.190	20

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

(LCS) R3215705-1 05/02/17 02:05 • (LCSD) R3215705-2 05/02/17 02:26

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 %
Ethylbenzene	0.0250	0.0231	0.0217	92.3	86.8	77.0-120			6.17	20
2-Hexanone	0.125	0.131	0.131	104	105	58.0-147			0.180	20
Isopropylbenzene	0.0250	0.0232	0.0224	92.6	89.7	75.0-120			3.22	20
p-Isopropyltoluene	0.0250	0.0256	0.0246	102	98.5	74.0-126			4.02	20
2-Butanone (MEK)	0.125	0.120	0.119	96.3	95.0	37.0-158			1.39	20
Methylene Chloride	0.0250	0.0262	0.0251	105	101	66.0-121			4.27	20
4-Methyl-2-pentanone (MIBK)	0.125	0.123	0.125	98.4	100	59.0-143			1.57	20
Methyl tert-butyl ether	0.0250	0.0221	0.0228	88.2	91.2	64.0-123			3.36	20
Naphthalene	0.0250	0.0253	0.0264	101	106	62.0-128			4.20	20
n-Propylbenzene	0.0250	0.0251	0.0236	100	94.5	79.0-120			6.05	20
Styrene	0.0250	0.0236	0.0232	94.3	92.9	78.0-124			1.49	20
1,1,1,2-Tetrachloroethane	0.0250	0.0230	0.0218	91.9	87.1	75.0-122			5.28	20
1,1,2,2-Tetrachloroethane	0.0250	0.0224	0.0228	89.6	91.1	71.0-122			1.70	20
Tetrachloroethene	0.0250	0.0220	0.0205	87.9	82.1	70.0-127			6.78	20
Toluene	0.0250	0.0224	0.0217	89.6	86.8	77.0-120			3.12	20
1,1,1-Trichloroethane	0.0250	0.0236	0.0222	94.5	88.9	68.0-122			6.08	20
1,1,2-Trichloroethane	0.0250	0.0230	0.0230	91.9	91.9	78.0-120			0.0400	20
Trichloroethene	0.0250	0.0232	0.0219	92.7	87.6	78.0-120			5.69	20
1,2,4-Trimethylbenzene	0.0250	0.0245	0.0231	98.1	92.3	75.0-120			6.10	20
1,3,5-Trimethylbenzene	0.0250	0.0248	0.0232	99.2	92.8	75.0-120			6.71	20
Vinyl chloride	0.0250	0.0225	0.0207	89.9	82.9	64.0-133			8.06	20
Xylenes, Total	0.0750	0.0700	0.0654	93.3	87.2	77.0-120			6.79	20
o-Xylene	0.0250	0.0227	0.0217	91.0	86.7	78.0-120			4.84	20
m&p-Xylenes	0.0500	0.0473	0.0437	94.6	87.5	77.0-120			7.79	20
(S) Toluene-d8				*103*	*104*	*80.0-120*				
(S) Dibromofluoromethane				*101*	*103*	*76.0-123*				
(S) 4-Bromofluorobenzene				*103*	*104*	*80.0-120*				

Method Blank (MB)

(MB) R3215073-3 05/01/17 18:36

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Acetone	U		0.0100	0.0500
Benzene	U		0.000331	0.00100
Bromodichloromethane	U		0.000380	0.00100
Bromoform	U		0.000469	0.00100
Bromomethane	U		0.000866	0.00500
n-Butylbenzene	U		0.000361	0.00100
sec-Butylbenzene	U		0.000365	0.00100
Carbon disulfide	U		0.000275	0.00100
Carbon tetrachloride	U		0.000379	0.00100
Chlorobenzene	U		0.000348	0.00100
Chlorodibromomethane	U		0.000327	0.00100
Chloroethane	U		0.000453	0.00500
Chloroform	U		0.000324	0.00500
Chloromethane	U		0.000276	0.00250
1,2-Dibromoethane	U		0.000381	0.00100
1,1-Dichloroethane	U		0.000259	0.00100
1,2-Dichloroethane	U		0.000361	0.00100
1,1-Dichloroethene	U		0.000398	0.00100
cis-1,2-Dichloroethene	U		0.000260	0.00100
trans-1,2-Dichloroethene	U		0.000396	0.00100
1,2-Dichloropropane	U		0.000306	0.00100
cis-1,3-Dichloropropene	U		0.000418	0.00100
trans-1,3-Dichloropropene	U		0.000419	0.00100
Ethylbenzene	U		0.000384	0.00100
2-Hexanone	U		0.00382	0.0100
Isopropylbenzene	U		0.000326	0.00100
p-Isopropyltoluene	U		0.000350	0.00100
2-Butanone (MEK)	U		0.00393	0.0100
Methylene Chloride	U		0.00100	0.00500
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100
Methyl tert-butyl ether	U		0.000367	0.00100
Naphthalene	U		0.00100	0.00500
n-Propylbenzene	U		0.000349	0.00100
Styrene	U		0.000307	0.00100
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100
Tetrachloroethene	U		0.000372	0.00100
Toluene	U		0.000412	0.00100
1,1,1-Trichloroethane	U		0.000319	0.00100
1,1,2-Trichloroethane	U		0.000383	0.00100

Method Blank (MB)

(MB) R3215073-3 05/01/17 18:36

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	mg/l		mg/l	mg/l
Trichloroethene	U		0.000398	0.00100
1,2,4-Trimethylbenzene	U		0.000373	0.00100
1,3,5-Trimethylbenzene	U		0.000387	0.00100
Vinyl chloride	U		0.000259	0.00100
Xylenes, Total	U		0.00106	0.00300
o-Xylene	U		0.000341	0.00100
m&p-Xylenes	U		0.000719	0.00200
(S) Toluene-d8	*105*			*80.0-120*
(S) Dibromofluoromethane	*111*			*76.0-123*
(S) 4-Bromofluorobenzene	*92.4*			*80.0-120*

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

(LCS) R3215073-1 05/01/17 17:08 • (LCSD) R3215073-2 05/01/17 17:51

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	mg/l	mg/l	mg/l	%	%	%			%	%
Acetone	0.125	0.166	0.182	133	146	10.0-160			9.46	23
Benzene	0.0250	0.0233	0.0240	93.0	95.8	69.0-123			3.00	20
Bromodichloromethane	0.0250	0.0239	0.0241	95.5	96.5	76.0-120			1.02	20
Bromoform	0.0250	0.0229	0.0236	91.8	94.5	67.0-132			3.00	20
Bromomethane	0.0250	0.0410	0.0442	164	177	18.0-160	J4	J4	7.34	20
n-Butylbenzene	0.0250	0.0215	0.0220	86.1	87.9	72.0-126			2.12	20
sec-Butylbenzene	0.0250	0.0235	0.0239	94.0	95.5	74.0-121			1.58	20
Carbon disulfide	0.0250	0.0212	0.0230	84.9	92.1	55.0-127			8.11	20
Carbon tetrachloride	0.0250	0.0247	0.0255	98.9	102	63.0-122			3.25	20
Chlorobenzene	0.0250	0.0203	0.0213	81.3	85.4	79.0-121			4.86	20
Chlorodibromomethane	0.0250	0.0214	0.0222	85.4	88.9	75.0-125			4.00	20
Chloroethane	0.0250	0.0288	0.0312	115	125	47.0-152			7.95	20
Chloroform	0.0250	0.0233	0.0236	93.2	94.5	72.0-121			1.42	20
Chloromethane	0.0250	0.0214	0.0237	85.6	94.9	48.0-139			10.3	20
1,2-Dibromoethane	0.0250	0.0211	0.0218	84.4	87.4	77.0-123			3.46	20
1,1-Dichloroethane	0.0250	0.0230	0.0237	92.0	94.6	70.0-126			2.85	20
1,2-Dichloroethane	0.0250	0.0225	0.0223	90.1	89.4	67.0-126			0.830	20
1,1-Dichloroethene	0.0250	0.0212	0.0232	84.8	92.7	64.0-129			8.81	20
cis-1,2-Dichloroethene	0.0250	0.0228	0.0236	91.1	94.4	73.0-120			3.61	20
trans-1,2-Dichloroethene	0.0250	0.0262	0.0277	105	111	71.0-121			5.75	20
1,2-Dichloropropane	0.0250	0.0217	0.0222	86.9	88.8	75.0-125			2.20	20
cis-1,3-Dichloropropene	0.0250	0.0220	0.0220	88.0	88.0	79.0-123			0.0500	20
trans-1,3-Dichloropropene	0.0250	0.0210	0.0208	84.2	83.1	74.0-127			1.32	20

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

(LCS) R3215073-1 05/01/17 17:08 • (LCSD) R3215073-2 05/01/17 17:51

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Ethylbenzene	0.0250	0.0204	0.0215	81.4	86.2	77.0-120			5.69	20
2-Hexanone	0.125	0.110	0.115	87.8	91.7	58.0-147			4.33	20
Isopropylbenzene	0.0250	0.0211	0.0227	84.5	90.6	75.0-120			7.06	20
p-Isopropyltoluene	0.0250	0.0234	0.0238	93.8	95.4	74.0-126			1.70	20
2-Butanone (MEK)	0.125	0.124	0.130	98.8	104	37.0-158			5.45	20
Methylene Chloride	0.0250	0.0282	0.0298	113	119	66.0-121			5.24	20
4-Methyl-2-pentanone (MIBK)	0.125	0.115	0.117	92.2	93.4	59.0-143			1.28	20
Methyl tert-butyl ether	0.0250	0.0263	0.0281	105	112	64.0-123			6.46	20
Naphthalene	0.0250	0.0197	0.0201	79.0	80.4	62.0-128			1.84	20
n-Propylbenzene	0.0250	0.0231	0.0227	92.3	90.8	79.0-120			1.72	20
Styrene	0.0250	0.0195	0.0205	78.2	82.1	78.0-124			4.86	20
1,1,1,2-Tetrachloroethane	0.0250	0.0226	0.0236	90.4	94.4	75.0-122			4.24	20
1,1,2,2-Tetrachloroethane	0.0250	0.0235	0.0221	93.9	88.3	71.0-122			6.16	20
Tetrachloroethene	0.0250	0.0205	0.0221	82.0	88.5	70.0-127			7.56	20
Toluene	0.0250	0.0223	0.0219	89.1	87.5	77.0-120			1.81	20
1,1,1-Trichloroethane	0.0250	0.0235	0.0248	94.1	99.2	68.0-122			5.31	20
1,1,2-Trichloroethane	0.0250	0.0206	0.0214	82.3	85.5	78.0-120			3.73	20
Trichloroethene	0.0250	0.0228	0.0245	91.0	97.9	78.0-120			7.26	20
1,2,4-Trimethylbenzene	0.0250	0.0226	0.0221	90.3	88.3	75.0-120			2.26	20
1,3,5-Trimethylbenzene	0.0250	0.0229	0.0227	91.5	90.9	75.0-120			0.670	20
Vinyl chloride	0.0250	0.0241	0.0263	96.6	105	64.0-133			8.56	20
Xylenes, Total	0.0750	0.0620	0.0651	82.7	86.8	77.0-120			4.88	20
o-Xylene	0.0250	0.0206	0.0217	82.5	87.0	78.0-120			5.27	20
m&p-Xylenes	0.0500	0.0414	0.0434	82.8	86.8	77.0-120			4.75	20
(S) Toluene-d8				*104*	*103*	*80.0-120*				
(S) Dibromofluoromethane				*108*	*108*	*76.0-123*				
(S) 4-Bromofluorobenzene				*104*	*99.6*	*80.0-120*				

Method Blank (MB)

(MB) R3215074-3 05/02/17 03:43

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Acetone	U		0.0100	0.0500
Benzene	U		0.000331	0.00100
Bromodichloromethane	U		0.000380	0.00100
Bromoform	U		0.000469	0.00100
Bromomethane	U		0.000866	0.00500
n-Butylbenzene	U		0.000361	0.00100
sec-Butylbenzene	U		0.000365	0.00100
Carbon disulfide	U		0.000275	0.00100
Carbon tetrachloride	U		0.000379	0.00100
Chlorobenzene	U		0.000348	0.00100
Chlorodibromomethane	U		0.000327	0.00100
Chloroethane	U		0.000453	0.00500
Chloroform	U		0.000324	0.00500
Chloromethane	U		0.000276	0.00250
1,2-Dibromoethane	U		0.000381	0.00100
1,1-Dichloroethane	U		0.000259	0.00100
1,2-Dichloroethane	U		0.000361	0.00100
1,1-Dichloroethene	U		0.000398	0.00100
cis-1,2-Dichloroethene	U		0.000260	0.00100
trans-1,2-Dichloroethene	U		0.000396	0.00100
1,2-Dichloropropane	U		0.000306	0.00100
cis-1,3-Dichloropropene	U		0.000418	0.00100
trans-1,3-Dichloropropene	U		0.000419	0.00100
Ethylbenzene	U		0.000384	0.00100
2-Hexanone	U		0.00382	0.0100
Isopropylbenzene	U		0.000326	0.00100
p-Isopropyltoluene	U		0.000350	0.00100
2-Butanone (MEK)	U		0.00393	0.0100
Methylene Chloride	U		0.00100	0.00500
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100
Methyl tert-butyl ether	U		0.000367	0.00100
Naphthalene	U		0.00100	0.00500
n-Propylbenzene	U		0.000349	0.00100
Styrene	U		0.000307	0.00100
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100
Tetrachloroethene	U		0.000372	0.00100
Toluene	U		0.000412	0.00100
1,1,1-Trichloroethane	U		0.000319	0.00100
1,1,2-Trichloroethane	U		0.000383	0.00100

Method Blank (MB)

(MB) R3215074-3 05/02/17 03:43

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Trichloroethene	U		0.000398	0.00100
1,2,4-Trimethylbenzene	U		0.000373	0.00100
1,3,5-Trimethylbenzene	U		0.000387	0.00100
Vinyl chloride	U		0.000259	0.00100
Xylenes, Total	U		0.00106	0.00300
o-Xylene	U		0.000341	0.00100
m&p-Xylenes	U		0.000719	0.00200
(S) Toluene-d8	*104*			*80.0-120*
(S) Dibromofluoromethane	*106*			*76.0-123*
(S) 4-Bromofluorobenzene	*93.9*			*80.0-120*

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

(LCS) R3215074-1 05/02/17 02:38 • (LCSD) R3215074-2 05/02/17 03:00

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Acetone	0.125	0.138	0.136	111	108	10.0-160			2.06	23
Benzene	0.0250	0.0229	0.0228	91.7	91.3	69.0-123			0.460	20
Bromodichloromethane	0.0250	0.0233	0.0236	93.1	94.4	76.0-120			1.41	20
Bromoform	0.0250	0.0234	0.0237	93.5	95.0	67.0-132			1.54	20
Bromomethane	0.0250	0.0335	0.0293	134	117	18.0-160			13.4	20
n-Butylbenzene	0.0250	0.0225	0.0222	90.1	88.9	72.0-126			1.29	20
sec-Butylbenzene	0.0250	0.0239	0.0231	95.4	92.3	74.0-121			3.36	20
Carbon disulfide	0.0250	0.0228	0.0225	91.2	90.0	55.0-127			1.30	20
Carbon tetrachloride	0.0250	0.0247	0.0244	98.7	97.6	63.0-122			1.22	20
Chlorobenzene	0.0250	0.0218	0.0217	87.2	86.9	79.0-121			0.360	20
Chlorodibromomethane	0.0250	0.0220	0.0223	88.1	89.1	75.0-125			1.16	20
Chloroethane	0.0250	0.0307	0.0293	123	117	47.0-152			4.70	20
Chloroform	0.0250	0.0228	0.0226	91.1	90.5	72.0-121			0.700	20
Chloromethane	0.0250	0.0215	0.0213	86.2	85.2	48.0-139			1.09	20
1,2-Dibromoethane	0.0250	0.0221	0.0221	88.5	88.4	77.0-123			0.160	20
1,1-Dichloroethane	0.0250	0.0230	0.0225	92.0	89.9	70.0-126			2.31	20
1,2-Dichloroethane	0.0250	0.0215	0.0214	86.0	85.7	67.0-126			0.310	20
1,1-Dichloroethene	0.0250	0.0231	0.0231	92.6	92.2	64.0-129			0.370	20
cis-1,2-Dichloroethene	0.0250	0.0233	0.0227	93.3	90.6	73.0-120			2.93	20
trans-1,2-Dichloroethene	0.0250	0.0226	0.0224	90.5	89.7	71.0-121			0.940	20
1,2-Dichloropropane	0.0250	0.0215	0.0224	85.9	89.6	75.0-125			4.16	20
cis-1,3-Dichloropropene	0.0250	0.0207	0.0212	82.8	84.9	79.0-123			2.52	20
trans-1,3-Dichloropropene	0.0250	0.0197	0.0201	79.0	80.2	74.0-127			1.53	20

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

(LCS) R3215074-1 05/02/17 02:38 • (LCSD) R3215074-2 05/02/17 03:00

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Ethylbenzene	0.0250	0.0217	0.0218	86.9	87.3	77.0-120			0.460	20
2-Hexanone	0.125	0.115	0.114	91.7	91.3	58.0-147			0.460	20
Isopropylbenzene	0.0250	0.0229	0.0223	91.5	89.2	75.0-120			2.53	20
p-Isopropyltoluene	0.0250	0.0238	0.0233	95.1	93.0	74.0-126			2.19	20
2-Butanone (MEK)	0.125	0.117	0.115	93.6	91.7	37.0-158			1.97	20
Methylene Chloride	0.0250	0.0291	0.0288	116	115	66.0-121			1.17	20
4-Methyl-2-pentanone (MIBK)	0.125	0.113	0.112	90.6	89.7	59.0-143			1.02	20
Methyl tert-butyl ether	0.0250	0.0230	0.0223	92.1	89.0	64.0-123			3.41	20
Naphthalene	0.0250	0.0205	0.0202	81.8	80.7	62.0-128			1.42	20
n-Propylbenzene	0.0250	0.0228	0.0226	91.2	90.3	79.0-120			0.990	20
Styrene	0.0250	0.0208	0.0209	83.3	83.4	78.0-124			0.120	20
1,1,1,2-Tetrachloroethane	0.0250	0.0239	0.0237	95.6	94.9	75.0-122			0.690	20
1,1,2,2-Tetrachloroethane	0.0250	0.0220	0.0213	88.0	85.3	71.0-122			3.16	20
Tetrachloroethene	0.0250	0.0223	0.0225	89.1	89.8	70.0-127			0.800	20
Toluene	0.0250	0.0217	0.0219	86.7	87.4	77.0-120			0.840	20
1,1,1-Trichloroethane	0.0250	0.0239	0.0238	95.4	95.0	68.0-122			0.450	20
1,1,2-Trichloroethane	0.0250	0.0218	0.0219	87.3	87.8	78.0-120			0.560	20
Trichloroethene	0.0250	0.0246	0.0245	98.3	97.8	78.0-120			0.470	20
1,2,4-Trimethylbenzene	0.0250	0.0223	0.0219	89.1	87.4	75.0-120			1.92	20
1,3,5-Trimethylbenzene	0.0250	0.0232	0.0223	92.8	89.3	75.0-120			3.88	20
Vinyl chloride	0.0250	0.0257	0.0249	103	99.4	64.0-133			3.45	20
Xylenes, Total	0.0750	0.0663	0.0657	88.4	87.6	77.0-120			0.910	20
o-Xylene	0.0250	0.0222	0.0219	88.9	87.6	78.0-120			1.54	20
m&p-Xylenes	0.0500	0.0441	0.0438	88.1	87.7	77.0-120			0.520	20
(S) Toluene-d8				*102*	*102*	*80.0-120*				
(S) Dibromofluoromethane				*107*	*105*	*76.0-123*				
(S) 4-Bromofluorobenzene				*96.3*	*95.5*	*80.0-120*				

Method Blank (MB)

(MB) R3215294-3 05/03/17 01:06

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Acetone	U		0.0100	0.0500
Benzene	U		0.000331	0.00100
Bromodichloromethane	U		0.000380	0.00100
Bromoform	U		0.000469	0.00100
Bromomethane	U		0.000866	0.00500
n-Butylbenzene	U		0.000361	0.00100
sec-Butylbenzene	U		0.000365	0.00100
Carbon disulfide	U		0.000275	0.00100
Carbon tetrachloride	U		0.000379	0.00100
Chlorobenzene	U		0.000348	0.00100
Chlorodibromomethane	U		0.000327	0.00100
Chloroethane	U		0.000453	0.00500
Chloroform	U		0.000324	0.00500
Chloromethane	U		0.000276	0.00250
1,2-Dibromoethane	U		0.000381	0.00100
1,1-Dichloroethane	U		0.000259	0.00100
1,2-Dichloroethane	U		0.000361	0.00100
1,1-Dichloroethene	U		0.000398	0.00100
cis-1,2-Dichloroethene	U		0.000260	0.00100
trans-1,2-Dichloroethene	U		0.000396	0.00100
1,2-Dichloropropane	U		0.000306	0.00100
cis-1,3-Dichloropropene	U		0.000418	0.00100
trans-1,3-Dichloropropene	U		0.000419	0.00100
Ethylbenzene	U		0.000384	0.00100
2-Hexanone	U		0.00382	0.0100
Isopropylbenzene	U		0.000326	0.00100
p-Isopropyltoluene	U		0.000350	0.00100
2-Butanone (MEK)	U		0.00393	0.0100
Methylene Chloride	U		0.00100	0.00500
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100
Methyl tert-butyl ether	U		0.000367	0.00100
Naphthalene	U		0.00100	0.00500
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100
n-Propylbenzene	U		0.000349	0.00100
Tetrachloroethene	U		0.000372	0.00100
Styrene	U		0.000307	0.00100
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100
Toluene	U		0.000412	0.00100
1,1,1-Trichloroethane	U		0.000319	0.00100
1,1,2-Trichloroethane	U		0.000383	0.00100

Method Blank (MB)

(MB) R3215294-3 05/03/17 01:06

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	mg/l		mg/l	mg/l
Trichloroethene	U		0.000398	0.00100
1,2,4-Trimethylbenzene	U		0.000373	0.00100
Vinyl chloride	U		0.000259	0.00100
1,3,5-Trimethylbenzene	U		0.000387	0.00100
Xylenes, Total	U		0.00106	0.00300
o-Xylene	U		0.000341	0.00100
m&p-Xylenes	U		0.000719	0.00200
(S) Toluene-d8	*106*			*80.0-120*
(S) Dibromofluoromethane	*105*			*76.0-123*
(S) 4-Bromofluorobenzene	*104*			*80.0-120*

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

(LCS) R3215294-1 05/02/17 23:07 • (LCSD) R3215294-2 05/03/17 00:25

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	mg/l	mg/l	mg/l	%	%	%			%	%
Acetone	0.125	0.109	0.136	87.5	109	10.0-160			21.6	23
Benzene	0.0250	0.0247	0.0245	98.7	98.1	69.0-123			0.680	20
Bromodichloromethane	0.0250	0.0245	0.0243	97.8	97.4	76.0-120			0.480	20
Bromoform	0.0250	0.0230	0.0233	92.0	93.0	67.0-132			1.08	20
Bromomethane	0.0250	0.0240	0.0244	95.9	97.6	18.0-160			1.75	20
n-Butylbenzene	0.0250	0.0271	0.0248	108	99.2	72.0-126			8.98	20
sec-Butylbenzene	0.0250	0.0248	0.0239	99.2	95.8	74.0-121			3.55	20
Carbon disulfide	0.0250	0.0288	0.0263	115	105	55.0-127			9.25	20
Carbon tetrachloride	0.0250	0.0266	0.0253	106	101	63.0-122			4.85	20
Chlorobenzene	0.0250	0.0229	0.0222	91.7	89.0	79.0-121			3.05	20
Chlorodibromomethane	0.0250	0.0232	0.0229	93.0	91.4	75.0-125			1.72	20
Chloroethane	0.0250	0.0244	0.0275	97.7	110	47.0-152			12.0	20
Chloroform	0.0250	0.0248	0.0251	99.2	100	72.0-121			1.14	20
Chloromethane	0.0250	0.0264	0.0238	106	95.1	48.0-139			10.6	20
1,2-Dibromoethane	0.0250	0.0229	0.0223	91.8	89.2	77.0-123			2.90	20
1,1-Dichloroethane	0.0250	0.0256	0.0253	102	101	70.0-126			1.10	20
1,2-Dichloroethane	0.0250	0.0247	0.0250	98.9	100	67.0-126			1.13	20
1,1-Dichloroethene	0.0250	0.0279	0.0267	112	107	64.0-129			4.39	20
cis-1,2-Dichloroethene	0.0250	0.0242	0.0247	96.7	98.8	73.0-120			2.08	20
trans-1,2-Dichloroethene	0.0250	0.0255	0.0250	102	100	71.0-121			1.81	20
1,2-Dichloropropane	0.0250	0.0244	0.0243	97.5	97.1	75.0-125			0.380	20
cis-1,3-Dichloropropene	0.0250	0.0245	0.0232	98.1	92.7	79.0-123			5.66	20
trans-1,3-Dichloropropene	0.0250	0.0243	0.0230	97.1	92.1	74.0-127			5.37	20

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

(LCS) R3215294-1 05/02/17 23:07 • (LCSD) R3215294-2 05/03/17 00:25

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 %
Ethylbenzene	0.0250	0.0237	0.0231	94.8	92.4	77.0-120			2.54	20
2-Hexanone	0.125	0.122	0.112	97.8	89.9	58.0-147			8.42	20
Isopropylbenzene	0.0250	0.0243	0.0238	97.2	95.1	75.0-120			2.22	20
p-Isopropyltoluene	0.0250	0.0244	0.0238	97.8	95.2	74.0-126			2.71	20
2-Butanone (MEK)	0.125	0.120	0.111	96.2	89.0	37.0-158			7.76	20
Methylene Chloride	0.0250	0.0236	0.0238	94.4	95.2	66.0-121			0.770	20
4-Methyl-2-pentanone (MIBK)	0.125	0.122	0.126	97.2	101	59.0-143			3.43	20
Methyl tert-butyl ether	0.0250	0.0237	0.0251	94.6	100	64.0-123			5.79	20
Naphthalene	0.0250	0.0219	0.0223	87.7	89.1	62.0-128			1.62	20
n-Propylbenzene	0.0250	0.0242	0.0233	96.7	93.1	79.0-120			3.76	20
Styrene	0.0250	0.0237	0.0233	94.7	93.2	78.0-124			1.64	20
1,1,1,2-Tetrachloroethane	0.0250	0.0230	0.0235	92.2	94.1	75.0-122			2.06	20
1,1,2,2-Tetrachloroethane	0.0250	0.0221	0.0213	88.4	85.1	71.0-122			3.86	20
Tetrachloroethene	0.0250	0.0244	0.0226	97.5	90.3	70.0-127			7.68	20
Toluene	0.0250	0.0243	0.0236	97.1	94.2	77.0-120			3.04	20
1,1,1-Trichloroethane	0.0250	0.0266	0.0262	106	105	68.0-122			1.60	20
1,1,2-Trichloroethane	0.0250	0.0227	0.0223	90.8	89.3	78.0-120			1.64	20
Trichloroethene	0.0250	0.0244	0.0248	97.7	99.1	78.0-120			1.43	20
1,2,4-Trimethylbenzene	0.0250	0.0231	0.0233	92.4	93.3	75.0-120			1.03	20
1,3,5-Trimethylbenzene	0.0250	0.0235	0.0235	94.1	94.1	75.0-120			0.0100	20
Vinyl chloride	0.0250	0.0249	0.0220	99.7	88.1	64.0-133			12.4	20
Xylenes, Total	0.0750	0.0710	0.0694	94.7	92.5	77.0-120			2.28	20
o-Xylene	0.0250	0.0232	0.0229	92.6	91.4	78.0-120			1.31	20
m&p-Xylenes	0.0500	0.0478	0.0465	95.6	92.9	77.0-120			2.86	20
(S) Toluene-d8				*105*	*105*	*80.0-120*				
(S) Dibromofluoromethane				*104*	*106*	*76.0-123*				
(S) 4-Bromofluorobenzene				*97.9*	*99.8*	*80.0-120*				

Method Blank (MB)

(MB) R3215215-3 05/02/17 16:02

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	mg/l		mg/l	mg/l
Acetone	U		0.0100	0.0500
Benzene	U		0.000331	0.00100
Bromodichloromethane	U		0.000380	0.00100
Bromoform	U		0.000469	0.00100
Bromomethane	U		0.000866	0.00500
n-Butylbenzene	U		0.000361	0.00100
sec-Butylbenzene	U		0.000365	0.00100
Carbon disulfide	U		0.000275	0.00100
Carbon tetrachloride	U		0.000379	0.00100
Chlorobenzene	U		0.000348	0.00100
Chlorodibromomethane	U		0.000327	0.00100
Chloroethane	U		0.000453	0.00500
Chloroform	U		0.000324	0.00500
Chloromethane	U		0.000276	0.00250
1,2-Dibromoethane	U		0.000381	0.00100
1,1-Dichloroethane	U		0.000259	0.00100
1,2-Dichloroethane	U		0.000361	0.00100
1,1-Dichloroethene	U		0.000398	0.00100
cis-1,2-Dichloroethene	U		0.000260	0.00100
trans-1,2-Dichloroethene	U		0.000396	0.00100
1,2-Dichloropropane	U		0.000306	0.00100
cis-1,3-Dichloropropene	U		0.000418	0.00100
trans-1,3-Dichloropropene	U		0.000419	0.00100
Ethylbenzene	U		0.000384	0.00100
2-Hexanone	U		0.00382	0.0100
Isopropylbenzene	U		0.000326	0.00100
p-Isopropyltoluene	U		0.000350	0.00100
2-Butanone (MEK)	U		0.00393	0.0100
Methylene Chloride	U		0.00100	0.00500
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100
Methyl tert-butyl ether	U		0.000367	0.00100
Naphthalene	U		0.00100	0.00500
n-Propylbenzene	U		0.000349	0.00100
Styrene	U		0.000307	0.00100
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100
Tetrachloroethene	U		0.000372	0.00100
Toluene	U		0.000412	0.00100
1,1,1-Trichloroethane	U		0.000319	0.00100
1,1,2-Trichloroethane	U		0.000383	0.00100

Method Blank (MB)

(MB) R3215215-3 05/02/17 16:02

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	mg/l		mg/l	mg/l
Trichloroethene	U		0.000398	0.00100
1,2,4-Trimethylbenzene	U		0.000373	0.00100
1,3,5-Trimethylbenzene	U		0.000387	0.00100
Vinyl chloride	U		0.000259	0.00100
Xylenes, Total	U		0.00106	0.00300
o-Xylene	U		0.000341	0.00100
m&p-Xylenes	U		0.000719	0.00200
(S) Toluene-d8	*105*			*80.0-120*
(S) Dibromofluoromethane	*108*			*76.0-123*
(S) 4-Bromofluorobenzene	*92.1*			*80.0-120*

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

(LCS) R3215215-1 05/02/17 14:56 • (LCSD) R3215215-2 05/02/17 15:18

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	mg/l	mg/l	mg/l	%	%	%			%	%
Acetone	0.125	0.171	0.171	137	137	10.0-160			0.310	23
Benzene	0.0250	0.0236	0.0236	94.6	94.5	69.0-123			0.0300	20
Bromodichloromethane	0.0250	0.0237	0.0239	94.7	95.6	76.0-120			0.930	20
Bromoform	0.0250	0.0228	0.0231	91.3	92.5	67.0-132			1.24	20
Bromomethane	0.0250	0.0366	0.0359	147	144	18.0-160			2.00	20
n-Butylbenzene	0.0250	0.0244	0.0246	97.7	98.5	72.0-126			0.810	20
sec-Butylbenzene	0.0250	0.0248	0.0251	99.2	100	74.0-121			1.07	20
Carbon disulfide	0.0250	0.0215	0.0218	86.0	87.3	55.0-127			1.47	20
Carbon tetrachloride	0.0250	0.0245	0.0250	98.0	99.9	63.0-122			1.89	20
Chlorobenzene	0.0250	0.0221	0.0224	88.3	89.5	79.0-121			1.42	20
Chlorodibromomethane	0.0250	0.0219	0.0222	87.4	88.7	75.0-125			1.47	20
Chloroethane	0.0250	0.0307	0.0323	123	129	47.0-152			5.13	20
Chloroform	0.0250	0.0235	0.0233	93.8	93.3	72.0-121			0.530	20
Chloromethane	0.0250	0.0238	0.0242	95.4	96.9	48.0-139			1.56	20
1,2-Dibromoethane	0.0250	0.0217	0.0221	86.9	88.3	77.0-123			1.53	20
1,1-Dichloroethane	0.0250	0.0235	0.0237	93.9	94.9	70.0-126			1.11	20
1,2-Dichloroethane	0.0250	0.0220	0.0220	88.0	87.9	67.0-126			0.170	20
1,1-Dichloroethene	0.0250	0.0223	0.0228	89.1	91.0	64.0-129			2.17	20
cis-1,2-Dichloroethene	0.0250	0.0229	0.0230	91.6	92.0	73.0-120			0.420	20
trans-1,2-Dichloroethene	0.0250	0.0266	0.0272	106	109	71.0-121			2.38	20
1,2-Dichloropropane	0.0250	0.0224	0.0225	89.4	90.0	75.0-125			0.620	20
cis-1,3-Dichloropropene	0.0250	0.0216	0.0215	86.3	86.0	79.0-123			0.350	20
trans-1,3-Dichloropropene	0.0250	0.0203	0.0203	81.3	81.0	74.0-127			0.350	20

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

(LCS) R3215215-1 05/02/17 14:56 • (LCSD) R3215215-2 05/02/17 15:18

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Ethylbenzene	0.0250	0.0223	0.0225	89.1	90.1	77.0-120			1.18	20
2-Hexanone	0.125	0.121	0.120	97.1	95.7	58.0-147			1.48	20
Isopropylbenzene	0.0250	0.0232	0.0235	92.9	94.2	75.0-120			1.40	20
p-Isopropyltoluene	0.0250	0.0246	0.0251	98.5	100	74.0-126			1.74	20
2-Butanone (MEK)	0.125	0.120	0.120	95.7	96.1	37.0-158			0.360	20
Methylene Chloride	0.0250	0.0290	0.0291	116	116	66.0-121			0.220	20
4-Methyl-2-pentanone (MIBK)	0.125	0.113	0.112	90.2	89.4	59.0-143			0.890	20
Methyl tert-butyl ether	0.0250	0.0258	0.0269	103	107	64.0-123			4.12	20
Naphthalene	0.0250	0.0205	0.0208	81.9	83.2	62.0-128			1.56	20
n-Propylbenzene	0.0250	0.0237	0.0241	94.8	96.2	79.0-120			1.48	20
Styrene	0.0250	0.0213	0.0216	85.2	86.2	78.0-124			1.11	20
1,1,1,2-Tetrachloroethane	0.0250	0.0241	0.0242	96.3	96.7	75.0-122			0.450	20
1,1,2,2-Tetrachloroethane	0.0250	0.0220	0.0227	88.1	90.9	71.0-122			3.06	20
Tetrachloroethene	0.0250	0.0224	0.0228	89.8	91.4	70.0-127			1.77	20
Toluene	0.0250	0.0226	0.0224	90.4	89.7	77.0-120			0.770	20
1,1,1-Trichloroethane	0.0250	0.0244	0.0240	97.4	95.9	68.0-122			1.56	20
1,1,2-Trichloroethane	0.0250	0.0221	0.0218	88.4	87.2	78.0-120			1.35	20
Trichloroethene	0.0250	0.0246	0.0243	98.5	97.2	78.0-120			1.40	20
1,2,4-Trimethylbenzene	0.0250	0.0228	0.0230	91.1	92.1	75.0-120			1.06	20
1,3,5-Trimethylbenzene	0.0250	0.0235	0.0239	94.0	95.7	75.0-120			1.75	20
Vinyl chloride	0.0250	0.0268	0.0278	107	111	64.0-133			3.68	20
Xylenes, Total	0.0750	0.0667	0.0680	88.9	90.7	77.0-120			1.93	20
o-Xylene	0.0250	0.0223	0.0228	89.3	91.1	78.0-120			1.93	20
m&p-Xylenes	0.0500	0.0444	0.0452	88.9	90.5	77.0-120			1.77	20
(S) Toluene-d8				*103*	*102*	*80.0-120*				
(S) Dibromofluoromethane				*105*	*106*	*76.0-123*				
(S) 4-Bromofluorobenzene				*95.8*	*96.7*	*80.0-120*				

Method Blank (MB)

(MB) R3215854-1 05/04/17 13:21

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	mg/l		mg/l	mg/l
TPH (GC/FID) High Fraction	0.154		0.0247	0.100
(S) o-Terphenyl	*66.7*			*31.0-160*

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

(LCS) R3215854-2 05/04/17 13:39 • (LCSD) R3215854-3 05/04/17 13:56

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	mg/l	mg/l	mg/l	%	%	%			%	%
TPH (GC/FID) High Fraction	1.50	1.71	1.65	114	110	50.0-150			3.58	20
(S) o-Terphenyl				*69.6*	*70.1*	*31.0-160*				

Method Blank (MB)

(MB) R3215175-1 05/02/17 10:07

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	*58.5*			*31.0-160*

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

(LCS) R3215175-2 05/02/17 10:24 • (LCSD) R3215175-3 05/02/17 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 %
TPH (GC/FID) High Fraction	1.50	1.73	1.75	115	117	50.0-150			0.990	20
(S) o-Terphenyl				*66.4*	*67.8*	*31.0-160*				

Method Blank (MB)

(MB) R3215176-1 05/02/17 10:58

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
TPH (GC/FID) High Fraction	U		0.0247	0.100
(S) o-Terphenyl	*55.3*			*31.0-160*

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

(LCS) R3215176-2 05/02/17 11:15 • (LCSD) R3215176-3 05/02/17 11:32

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
TPH (GC/FID) High Fraction	1.50	1.66	1.67	111	111	50.0-150			0.530	20
(S) o-Terphenyl				*72.9*	*69.4*	*31.0-160*				

Method Blank (MB)

(MB) R3215177-1 05/02/17 11:49

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	mg/l		mg/l	mg/l
TPH (GC/FID) High Fraction	U		0.0247	0.100
(S) o-Terphenyl	*58.4*			*31.0-160*

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

(LCS) R3215177-2 05/02/17 12:06 • (LCSD) R3215177-3 05/02/17 12:23

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	mg/l	mg/l	mg/l	%	%	%			%	%
TPH (GC/FID) High Fraction	1.50	1.65	1.69	110	112	50.0-150			2.15	20
(S) o-Terphenyl				*69.4*	*70.8*	*31.0-160*				

Method Blank (MB)

(MB) R3216618-1 05/09/17 11:33

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	mg/l		mg/l	mg/l
TPH (GC/FID) High Fraction	U		0.0247	0.100
(S) o-Terphenyl	*62.7*			*31.0-160*

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

(LCS) R3216618-2 05/09/17 11:51 • (LCSD) R3216618-3 05/09/17 12:09

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	mg/l	mg/l	mg/l	%	%	%			%	%
TPH (GC/FID) High Fraction	1.50	1.49	1.53	99.1	102	50.0-150			2.93	20
(S) o-Terphenyl				*62.3*	*64.7*	*31.0-160*				

Abbreviations and Definitions

SDG	Sample Delivery Group.
MDL	Method Detection Limit.
RDL	Reported Detection Limit.
ND	Not detected at the Reporting Limit (or MDL where applicable).
U	Not detected at the Reporting Limit (or MDL where applicable).
RPD	Relative Percent Difference.
(dry)	Results are reported based on the dry weight of the sample. [this will only be present on a dry report basis for soils].
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.
(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.
Rec.	Recovery.

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.
J5	The sample matrix interfered with the ability to make any accurate determination; spike value is high.
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low.
J7	Surrogate recovery cannot be used for control limit evaluation due to dilution.
O1	The analyte failed the method required serial dilution test and/or subsequent post-spike criteria. These failures indicate matrix interference.
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.

ESC Lab Sciences is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our "one location" design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be **YOUR LAB OF CHOICE.**
* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

State Accreditations

Alabama	40660	Nevada	TN-03-2002-34
Alaska	UST-080	New Hampshire	2975
Arizona	AZ0612	New Jersey–NELAP	TN002
Arkansas	88-0469	New Mexico	TN00003
California	01157CA	New York	11742
Colorado	TN00003	North Carolina	Env375
Conneticut	PH-0197	North Carolina [1]	DW21704
Florida	E87487	North Carolina [2]	41
Georgia	NELAP	North Dakota	R-140
Georgia [1]	923	Ohio–VAP	CL0069
Idaho	TN00003	Oklahoma	9915
Illinois	200008	Oregon	TN200002
Indiana	C-TN-01	Pennsylvania	68-02979
Iowa	364	Rhode Island	221
Kansas	E-10277	South Carolina	84004
Kentucky [1]	90010	South Dakota	n/a
Kentucky [2]	16	Tennessee [1 4]	2006
Louisiana	AI30792	Texas	T 104704245-07-TX
Maine	TN0002	Texas [5]	LAB0152
Maryland	324	Utah	6157585858
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	109
Minnesota	047-999-395	Washington	C1915
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	9980939910
Montana	CERT0086	Wyoming	A2LA
Nebraska	NE-OS-15-05		

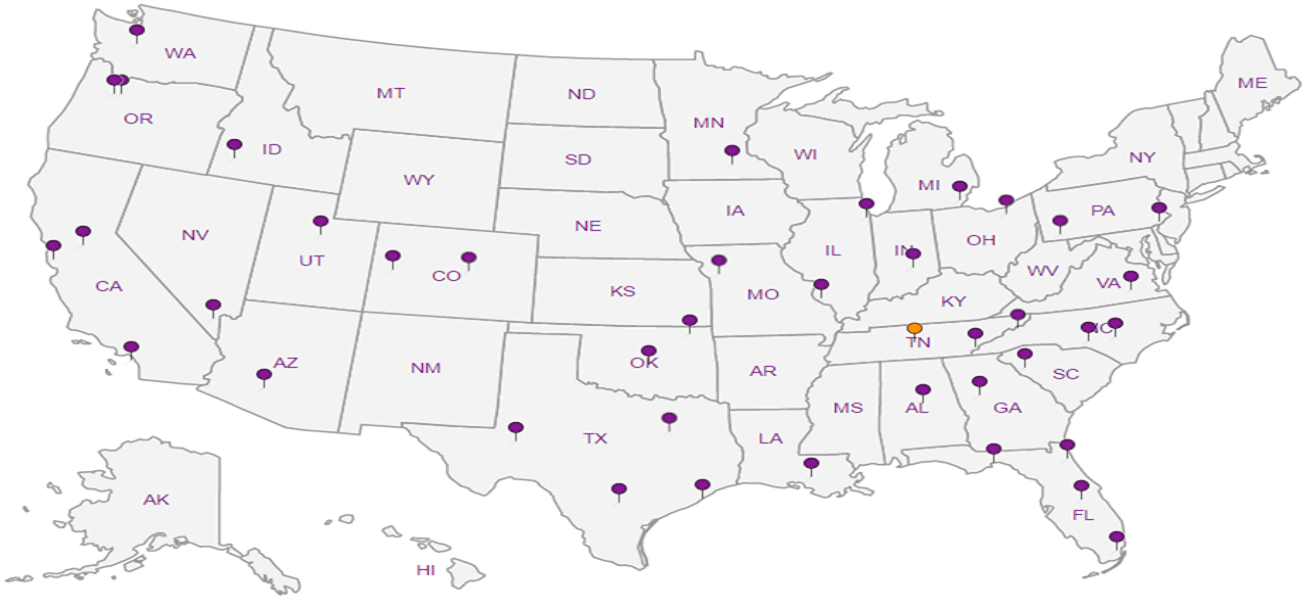
Third Party & Federal Accreditations

A2LA – ISO 17025	1461.01	AIHA-LAP,LLC	100789
A2LA – ISO 17025 [5]	1461.02	DOD	1461.01
Canada	1461.01	USDA	S-67674
EPA–Crypto	TN00003		

[1] Drinking Water [2] Underground Storage Tanks [3] Aquatic Toxicity [4] Chemical/Microbiological [5] Mold [n/a] Accreditation not applicable

Our Locations

ESC Lab Sciences has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. **ESC Lab Sciences performs all testing at our central laboratory.**



Company Name/Address: **TRC Solutions - Austin, TX** 505 E. Huntland Dr, Ste 250 Austin, TX 78752	Billing Information: **Accounts Payable** 21 Griffin Road North Windsor, CT 06095
Report to: Julie Speer	Email To: jspeer@trcwsolutions.com
Project Description: **REST Spring 2017**	City/State Collected: NM
Phone: 512-684-3170 Fax:	Client Project #	Lab Project #
Collected by (print): **Scott Ude/HMI Team**	Site/Facility ID #: REST (Navajo - Artesia)	P.O. #: 107027
Collected by (signature): Scott Ude Immediately Packed on Ice N ___ Y ✓	***Rush?*** (Lab MUST Be Notified) ___ Same Day .....200% ___ Next Day .....100% ___ Two Day .....50% ___ Three Day 25%	Date Results Needed Email? ___No ✓Yes FAX? ___No ___Yes

Analysis / Container / Preservative

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	VOC	DRO	GRO	Short List Metals (Total & Dissolved)	Cations (from "total metals" bottle)	Anions	NO2NO3, TDS	Long List Metals (Total & Dissolved)	Cyanide		Rem./Contaminant	Sample # (lab only)
RW-#15C	Grab	GW		4/26/17	1000	8	X	X		X	X	X	X					-01
MW-48	Grab	GW		4/26/17	915	10	X	X	X	X	X	X	X					02
MW-130	Grab	GW		4/26/17	1050	10	X	X	X	X	X	X	X					03
~~KWB-4~~	Grab	GW					X	X		X	X	X	X					
~~RW-19~~	Grab	GW					X	X		X	X	X	X					
	Grab	GW																
	Grab	GW																
	Grab	GW																
	Grab	GW																
	Grab	GW																

* Matrix: **SS** - Soil **GW** - Groundwater **WW** - WasteWater **DW** - Drinking Water **OT** - Other_____

Remarks: **Dissolved metals field-filtered.**

pH _____ Temp _____

Flow _____ Other _____

Relinquished by : (Signature) Scott Ude	Date: 4/27/17	Time: 0800	Received by: (Signature)
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)

Samples returned via: ☐ UPS ☑ FedEx ☐ Courier ☐ _____

Temp: 3.1 °C Bottles Received: 45

Date: 4.28-17 Time: 0900

Hold #

Condition: (lab use only)

COC Seal Intact: ✓ Y ___N ___NA

pH Checked: <2 NCF:

Chain of Custody

ESC LABORATORY SCIENCES

YOUR LAB OF CHOICE

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

L# ~~LO~~ L905668

Table # N/Soil

Acctnum: TRCATX

Template:

Prelogin:

TSR: **Chris McCord**

Cooler:

Shipped Via:

Company Name/Address:
TRC Solutions - Austin, TX
505 E. Huntland Dr, Ste 250
Austin, TX 78752

Billing Information:
Accounts Payable
21 Griffin Road North
Windsor, CT 06095

Report to: Julie Speer
Email To: jspeer@trcwsolutions.com

Project Description: **REST Spring 2017**
City/State Collected: NM

Phone: 512-684-3170
Fax:
Client Project #
Lab Project #

Collected by (print): **Scott Ude/HMI Team**
Site/Facility ID #: REST (Navajo - Artesia)
P.O. #: 107027

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

Rush? (Lab MUST Be Notified)
___ Same Day 200%
___ Next Day 100%
___ Two Day 50%
___ Three Day 25%

Date Results Needed
Email? ___No ✓Yes
FAX? ___No ___Yes

Analysis / Container / Preservative

Chain of Custody Page 11 of 28

ESC LABORATORY SCIENCES
YOUR LAB OF CHOICE
12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

L# L905668
Table #
Acctnum: TRCATX
Template:
Prelogin:
TSR: **Chris McCord**
Cooler:
Shipped Via:

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	VOC	DRO	GRO	Short List Metals (Total & Dissolved)	Cations (from "total metals" bottle)	Anions	NO2NO3, TDS	Long List Metals (Total & Dissolved)	Cyanide	Rem./Contaminant	Sample # (lab only)
KWB-P4	Grab	GW		4/26/17	855	4	X	X									04
~~MW-52~~	Grab	GW					X	X	X		X	X	X	X	X		
~~MW-109~~	Grab	GW					X	X	X	X	X	X	X				
~~MW-110~~	Grab	GW					X	X	X	X	X	X	X				
	Grab	GW															
	Grab	GW															
	Grab	GW															
	Grab	GW															
	Grab	GW															
	Grab	GW															

* Matrix: **SS** - Soil **GW** - Groundwater **WW** - WasteWater **DW** - Drinking Water **OT** - Other_____

pH _____ Temp _____
Flow _____ Other _____

Remarks: **Dissolved metals field-filtered.**

Hold #

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Scott Ude	4/27/17	0800	
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)

Samples returned via: ☐ UPS ✓ FedEx ☐ Courier ☐ _____
Temp: 3.1 °C Bottles Received: 445
Date: 4-28-17 Time: 0900

Condition: (lab use only)
COC Seal Intact: ✓ Y ___N ___NA
pH Checked: NCF:

Company Name/Address: **TRC Solutions - Austin, TX** 505 E. Huntland Dr, Ste 250 Austin, TX 78752	Billing Information: **Accounts Payable** 21 Griffin Road North Windsor, CT 06095
Report to: Julie Speer	Email To: jspeer@trcwsolutions.com
Project Description: **REST Spring 2017**	City/State Collected: NM
Phone: 512-684-3170 Fax:	Client Project #	Lab Project #
Collected by (print): **Scott Ude/HMI Team**	Site/Facility ID #: REST (Navajo - Artesia)	P.O. #: 107027
Collected by (signature): Scott Ude Immediately Packed on Ice N ___ Y ✓	***Rush?*** (Lab MUST Be Notified) ___ Same Day .....200% ___ Next Day .....100% ___ Two Day .....50% ___ Three Day 25%	Date Results Needed Email? ___No ✓Yes FAX? ___No ___Yes

Chain of Custody — ESC LABORATORY SCIENCES — YOUR LAB OF CHOICE
12065 Lebanon Rd, Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

L# L905668
Table #
Acctnum: TRCATX
Template:
Prelogin:
TSR: **Chris McCord**
Cooler:
Shipped Via:

Analysis / Container / Preservative

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	VOC	DRO	GRO	Short List Metals (Total & Dissolved)	Cations (from "total metals" bottle)	Anions	NO2NO3, TDS	Long List Metals (Total & Dissolved)	Cyanide		Rem /Contaminant	Sample # (lab only)
~~RW-12R~~	Grab	GW					X	X		X	X	X	X					
~~MW-113~~	Grab	GW					X	X	X	X	X	X	X					
~~KWB-8~~	Grab	GW					X	X			X	X	X	X	X			
~~RW-22~~	Grab	GW					X	X		X	X	X	X					
~~RW-20A~~	Grab	GW					X	X		X	X	X	X					
~~RW-20B~~	Grab	GW					X	X		X	X	X	X					
~~RW-13R~~	Grab	GW					X	X		X	X	X	X					
~~RW-14R~~	Grab	GW					X	X		X	X	X	X					
~~MW-133~~	Grab	GW					X	X	X	X	X	X	X					
MW-134	Grab	GW		4/26/17	845	10	X	X	X	X	X	X	X					05

* Matrix: **SS** - Soil **GW** - Groundwater **WW** - WasteWater **DW** - Drinking Water **OT** - Other_____

pH _____ Temp _____
Flow _____ Other _____

Remarks: **Dissolved metals field-filtered.**

Hold #

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Scott Ude	4/27/17	0800	
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)

Samples returned via: ☐ UPS ☑ FedEx ☐ Courier ☐ _____
Temp: 3.1 °C Bottles Received: 445
Date: 4-28-17 Time: 0900

Condition: (lab use only)
COC Seal Intact: ✓ Y ___N ___NA
pH Checked: NCF:

Company Name/Address:	Billing Information:
TRC Solutions - Austin, TX **505 E. Huntland Dr, Ste 250** **Austin, TX 78752**	**Accounts Payable** **21 Griffin Road North** **Windsor, CT 06095**
Report to: Julie Speer	Email To: jspeer@trcwsolutions.com
Project Description: **REST Spring 2017**	City/State Collected: NM
Phone: 512-684-3170 Fax:	Client Project #	Lab Project #
Collected by (print): **Scott Ude/HMI Team**	Site/Facility ID #: REST (Navajo - Artesia)	P.O. #: 107027
Collected by (signature): Scott Ude Immediately Packed on Ice N ___ Y ✓	***Rush?*** (Lab MUST Be Notified) ___ Same Day .....200% ___ Next Day .....100% ___ Two Day .....50% ___ Three Day 25%	Date Results Needed Email? ___No ✓Yes FAX? ___No ___Yes

Chain of Custody — ESC LABS — YOUR LAB OF CHOICE
12065 Lebanon Rd, Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

L# L905668
Table #
Acctnum: TRCATX
Template:
Prelogin:
TSR: **Chris McCord**
Cooler:
Shipped Via:

Analysis / Container / Preservative

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	VOC	DRO	GRO	Short List Metals (Total & Dissolved)	Cations (from "total metals" bottle)	Anions	NO2NO3, TDS	Long List Metals (Total & Dissolved)	Cyanide		Rem./Contaminant	Sample # (lab only)
RA-4798	Grab	GW		4/26/17	925	5	X				X	X	X					06
RA-4196	Grab	GW		4/26/17	945	5	X				X	X	X					07
RA-3156	Grab	GW		4/26/17	1015	5	X				X	X	X					08
~~RA-313~~	Grab	GW					X				X	X	X					
~~KWB-7~~	Grab	GW					X	X			X	X	X	X	X			
MW-135	Grab	GW		4/26/17	1650	10	X	X	X	X	X	X	X					09
~~KWB-11A~~	Grab	GW					X	X	X		X	X	X	X	X			
~~KWB-11B~~	Grab	GW					X	X	X		X	X	X	X	X			
~~MW-115~~	Grab	GW					X	X	X	X	X	X	X					
~~MW-114~~	Grab	GW					X	X	X	X	X	X	X					

* Matrix: **SS** - Soil **GW** - Groundwater **WW** - WasteWater **DW** - Drinking Water **OT** - Other_____

pH _____ Temp _____

Remarks: **Dissolved metals field-filtered.**

Flow _____ Other _____

Hold #

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Scott Ude	4/27/17	0800	
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)

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

Temp: 3.1 °C Bottles Received: 445

Date: Time:

Condition: (lab use only)

COC Seal Intact: ✓ ___Y ___N ___NA

pH Checked: NCF:

Company Name/Address:
TRC Solutions - Austin, TX
505 E. Huntland Dr, Ste 250
Austin, TX 78752

Billing Information:
Accounts Payable
21 Griffin Road North
Windsor, CT 06095

Report to: Julie Speer
Email To: jspeer@trcwsolutions.com

Project Description: **REST Spring 2017**
City/State Collected: NM

Phone: 512-684-3170
Fax:
Client Project #
Lab Project #

Collected by (print): **Scott Ude/HMI Team**
Site/Facility ID #: REST (Navajo - Artesia)
P.O. # 107027

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

Rush? (Lab MUST Be Notified)
___ Same Day 200%
___ Next Day 100%
___ Two Day 50%
___ Three Day 25%

Date Results Needed

Email? ___No ✓Yes
FAX? ___No ___Yes

Chain of Custody

ESC LABS SCIENCES
YOUR LAB OF CHOICE
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Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

L# L905668
Table #
Acctnum: TRCATX
Template:
Prelogin:
TSR: **Chris McCord**
Cooler:
Shipped Via:

Analysis / Container / Preservative

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	VOC	DRO	GRO	Short List Metals (Total & Dissolved)	Cations (from "total metals" bottle)	Anions	NO2NO3, TDS	Long List Metals (Total & Dissolved)	Cyanide		Rem./Contaminant	Sample # (lab only)
MW-117	Grab	GW		4/26/17	855	10	X	X	X	X	X	X	X					10
MW-118	Grab	GW		4/26/17	940	10	X	X	X	X	X	X	X					11
MW-119	Grab	GW		4/26/17	1025	10	X	X	X	X	X	X	X					12
~~NP-5~~	Grab	GW					X	X		X	X	X	X					
~~MW-136~~	Grab	GW					X	X	X		X	X	X	X	X			
~~MW-126A~~	Grab	GW					X	X	X	X	X	X	X					
~~MW-126B~~	Grab	GW					X	X	X	X	X	X	X					
~~MW-127~~	Grab	GW					X	X	X	X	X	X	X					
~~MW-129~~	Grab	GW					X	X	X	X	X	X	X					
~~RW-#18A~~	Grab	GW					X			X	X	X	X					

* Matrix: **SS** - Soil **GW** - Groundwater **WW** - WasteWater **DW** - Drinking Water **OT** - Other_____

Remarks: **Dissolved metals field-filtered.**

pH _____ Temp _____
Flow _____ Other _____

Hold #

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Scott Ude	4/27/17	0800	
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)
			Dave

Samples returned via: ☐ UPS ☑ FedEx ☐ Courier ☐ _____
Temp: 3.1 °C Bottles Received: 445
Date: 4-28-17 Time: 0900

Condition: (lab use only)
COC Seal Intact: ✓ Y ___N ___NA
pH Checked: NCF:

Chain of Custody

ESC LABS — YOUR LAB OF CHOICE
12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

Company Name/Address:
TRC Solutions - Austin, TX
505 E. Huntland Dr, Ste 250
Austin, TX 78752

Billing Information:
Accounts Payable
21 Griffin Road North
Windsor, CT 06095

Report to: Julie Speer
Email To: jspeer@trcwsolutions.com

Project Description: **REST Spring 2017**
City/State Collected: NM

Phone: 512-684-3170
Fax:
Client Project #
Lab Project #

Collected by (print): **Scott Ude/HMI Team**
Site/Facility ID #: REST (Navajo - Artesia)
P.O. #: 107027

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

Rush? (Lab MUST Be Notified)
___ Same Day 200%
___ Next Day 100%
___ Two Day 50%
___ Three Day 25%

Date Results Needed
Email? ___No ✓Yes
FAX? ___No ___Yes

L# L905662
Table #
Acctnum: TRCATX
Template:
Prelogin:
TSR: **Chris McCord**
Cooler:
Shipped Via:

Analysis / Container / Preservative

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	VOC	DRO	GRO	Short List Metals (Total & Dissolved)	Cations (from "total metals" bottle)	Anions	NO2NO3, TDS	Long List Metals (Total & Dissolved)	Cyanide	Rem./Contaminant	Sample # (lab only)
~~KWB-1A~~	Grab	GW					X	X			X	X	X	X	X		
~~KWB-1C~~	Grab	GW					X	X		X	X	X	X				
~~KWB-10R~~	Grab	GW					X	X		X	X	X	X				
~~MW-131~~ ~~MW-131~~	Grab	GW					X	X	X	X	X	X	X				
KWB-5	Grab	GW		4/26/17	1640	8	X	X		X	X	X	X				13
MW-111	Grab	GW		4/26/17	1535	10	X	X	X	X	X	X	X				14
KWB-6	Grab	GW		4/26/17	1435	8	X	X		X	X	X	X				15
~~MW-112~~	Grab	GW					X	X	X	X	X	X	X				
~~MW-132~~	Grab	GW					X	X	X	X	X	X	X				
MW-57	Grab	GW		4/26/17	1345	10	X	X	X	X	X	X	X				16

* Matrix: **SS** - Soil **GW** - Groundwater **WW** - WasteWater **DW** - Drinking Water **OT** - Other ___

Remarks: **Dissolved metals field-filtered.**

pH ___ Temp ___
Flow ___ Other ___

Hold #

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Scott Ude	4/27/17	0800	
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)

Samples returned via: ☐ UPS ☑ FedEx ☐ Courier ☐ ___
Temp: 3.1 °C Bottles Received: 45
Date: 4-28-17 Time: 0900

Condition: (lab use only)
COC Seal Intact: ✓ Y ___N ___NA
pH Checked: NCF:

Chain of Custody

ESC LABS
YOUR LAB OF CHOICE
12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

L# L905668

Table #

Acctnum: TRCATX

Template:

Prelogin:

TSR: Chris McCord

Cooler:

Shipped Via:

Company Name/Address:
TRC Solutions - Austin, TX
505 E. Huntland Dr, Ste 250
Austin, TX 78752

Billing Information:
Accounts Payable
21 Griffin Road North
Windsor, CT 06095

Report to: Julie Speer

Email To: jspeer@trcwsolutions.com

Project Description: **REST Spring 2017**

City/State Collected: NM

Phone: 512-684-3170
Fax:

Client Project #

Lab Project #

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

Site/Facility ID #: REST (Navajo - Artesia)

P.O. #: 107027

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

Rush? (Lab MUST Be Notified)
___ Same Day 200%
___ Next Day 100%
___ Two Day 50%
___ Three Day 25%

Date Results Needed

Email? ___No ✓Yes
FAX? ___No ___Yes

Analysis / Container / Preservative

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	VOC	DRO	GRO	Short List Metals (Total & Dissolved)	Cations (from "total metals" bottle)	Anions	NO2NO3, TDS	Long List Metals (Total & Dissolved)	Cyanide	Rem./Contaminant	Sample # (lab only)
~~RW-#11-0~~	Grab	GW					X	X		X	X	X	X				
KWB-12A	Grab	GW		4/26/17	1210	11	X	X	X		X	X	X	X	X		17
KWB-12B	Grab	GW		4/26/17	1250	11	X	X	X		X	X	X	X	X		18
~~KWB-2R~~	Grab	GW					X	X		X	X	X	X				
~~MW-58~~	Grab	GW					X	X			X	X	X	X	X		
KWB-13	Grab	GW		4/26/17	1120	11	X	X			X	X	X	X	X		19
	Grab	GW															
	Grab	GW															
	Grab	GW															
	Grab	GW															

* Matrix: **SS** - Soil **GW** - Groundwater **WW** - WasteWater **DW** - Drinking Water **OT** - Other_____

pH _____ Temp _____

Flow _____ Other _____

Remarks: **Dissolved metals field-filtered.**

Hold #

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Scott Ude	4/27/17	0800	
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)

Samples returned via: ☐ UPS ☑ FedEx ☐ Courier ☐ _____

Temp: 3.1 °C Bottles Received: 445

Date: 4-28-17 Time: 0900

Condition: (lab use only)

COC Seal Intact: ✓ Y ___N ___NA

pH Checked: NCF:

Company Name/Address:
TRC Solutions - Austin, TX
505 E. Huntland Dr, Ste 250
Austin, TX 78752

Billing Information:
Accounts Payable
21 Griffin Road North
Windsor, CT 06095

Report to: Julie Speer

Email To: jspeer@trcwsolutions.com

Project Description: **REST Spring 2017**

City/State Collected: NM

Phone: 512-684-3170
Fax:

Client Project #

Lab Project #

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

Site/Facility ID #: REST (Navajo - Artesia)

P.O. #: 107027

Collected by (signature): Scott Ude

Immediately Packed on Ice N ___ Y ✓

Rush? (Lab MUST Be Notified)
___ Same Day 200%
___ Next Day 100%
___ Two Day 50%
___ Three Day 25%

Date Results Needed

Email? ___No ✓Yes
FAX? ___No ___Yes

Analysis / Container / Preservative

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	VOC	DRO	GRO	Short List Metals (Total & Dissolved)	Cations (from "total metals" bottle)	Anions	NO2NO3, TDS	Long List Metals (Total & Dissolved)	Cyanide	Rem./Contaminant	Sample # (lab only)
~~MW-103~~	Grab	GW					X	X	X	X	X	X	X				
~~MW-104~~	Grab	GW					X	X	X	X	X	X	X				
~~MW-64~~	Grab	GW					X	X	X	X	X	X	X				
~~MW-65~~	Grab	GW					X	X	X	X	X	X	X				
~~RW-5R~~	Grab	GW					X	X		X	X	X	X				
MW-102	Grab	GW		4/26/17	925	10	X	X	X	X	X	X	X				20
RW-4	Grab	GW		4/26/17	1310	8	X	X		X	X	X	X				21
~~RW-6~~	Grab	GW					X	X		X	X	X	X				
MW-99	Grab	GW		4/26/17	1020	10	X	X	X	X	X	X	X				22
MW-66	Grab	GW		4/26/17	1115	11	X	X	X		X	X	X	X	X		23

* Matrix: **SS** - Soil **GW** - Groundwater **WW** - WasteWater **DW** - Drinking Water **OT** - Other_____

Remarks: **Dissolved metals field-filtered.**

pH _____ Temp _____
Flow _____ Other _____

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Scott Ude	4/27/17	0800	
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)

Samples returned via: ☐ UPS ☑ FedEx ☐ Courier ☐ _____
Temp: 3.1 °C Bottles Received: 445
Date: 4-28-17 Time: 0900

Hold #
Condition: (lab use only)
COC Seal Intact: ___Y ___N ___NA
pH Checked: NCF:

Chain of Custody

ESC LABS
YOUR LAB OF CHOICE
12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

L # 190668
Table #
Acctnum: TRCATX
Template:
Prelogin:
TSR: **Chris McCord**
Cooler:
Shipped Via:

Chain of Custody

ESC LABORATORY SCIENCES
YOUR LAB OF CHOICE
12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

Company Name/Address:	Billing Information:
TRC Solutions - Austin, TX **505 E. Huntland Dr, Ste 250** **Austin, TX 78752**	**Accounts Payable** **21 Griffin Road North** **Windsor, CT 06095**
Report to: Julie Speer	Email To: jspeer@trcwsolutions.com
Project Description: **REST Spring 2017**	City/State Collected: NM
Phone: 512-684-3170 Fax:	Client Project #
Collected by (print): **Scott Ude/HMI Team**	Site/Facility ID #: REST (Navajo - Artesia)
Collected by (signature): Scott Ude Immediately Packed on Ice N ___ Y ✓	***Rush?*** (Lab MUST Be Notified) ___ Same Day .....200% ___ Next Day .....100% ___ Two Day .....50% ___ Three Day 25%

Lab Project #

P.O. #: 107027

Date Results Needed

Email? ___No ✓Yes
FAX? ___No ___Yes

L# L905668

Table #

Acctnum: TRCATX

Template:

Prelogin:

TSR: **Chris McCord**

Cooler:

Shipped Via:

Analysis / Container / Preservative

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	VOC	DRO	GRO	Short List Metals (Total & Dissolved)	Cations (from "total metals" bottle)	Anions	NO2NO3, TDS	Long List Metals (Total & Dissolved)	Cyanide	Rem./Contaminant	Sample # (lab only)
MW-28	Grab	GW		4/26/17	1210	11	X	X	X		X	X	X	X	X		24
~~**MW-59**~~	Grab	GW					X	X	X	X	X	X	X				
~~**MW-60**~~	Grab	GW					X	X	X		X	X	X	X	X		
MW-107	Grab	GW		4/26/17	1510	10	X	X	X	X	X	X	X				25
MW-128	Grab	GW		4/26/17	1410	10	X	X	X	X	X	X	X				26
MW-125	Grab	GW		4/26/17	1600	10	X	X	X	X	X	X	X				27
MW-116	Grab	GW		4/26/17	1655	10	X	X	X	X	X	X	X				28
	Grab	GW															
	Grab	GW															
	Grab	GW															

* Matrix: **SS** - Soil **GW** - Groundwater **WW** - WasteWater **DW** - Drinking Water **OT** - Other_____

Remarks: **Dissolved metals field-filtered.**

pH _____ Temp _____

Flow _____ Other _____

Hold #

Relinquished by : (Signature) Scott Ude	Date: 4/27/17	Time: 0800	Received by: (Signature)	Samples returned via: ☐ UPS ✓ FedEx ☐ Courier ☐ _____
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: 3.1 °C Bottles Received: 445
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 4-28-17 Time: 0900

Condition: (lab use only)

COC Seal Intact: ___Y ___N ___NA

pH Checked: NCF:

Company Name/Address:
TRC Solutions - Austin, TX
505 E. Huntland Dr, Ste 250
Austin, TX 78752

Billing Information:
Accounts Payable
21 Griffin Road North
Windsor, CT 06095

Report to: Julie Speer
Email To: jspeer@trcwsolutions.com

Project Description: **REST Spring 2017**
City/State Collected: NM

Phone: 512-684-3170
Fax:
Client Project #
Lab Project #

Collected by (print): **Scott Ude/HMI Team**
Site/Facility ID #: REST (Navajo - Artesia)
P.O. # 107027

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

Rush? (Lab MUST Be Notified)
___ Same Day 200%
___ Next Day 100%
___ Two Day 50%
___ Three Day 25%

Date Results Needed
Email? ___No ✓Yes
FAX? ___No ___Yes

Analysis / Container / Preservative

Chain of Custody

ESC LABS
YOUR LAB OF CHOICE
12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

L# L905668
Table #
Acctnum: TRCATX
Template:
Prelogin:
TSR: **Chris McCord**
Cooler:
Shipped Via:

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	VOC	DRO	GRO	Short List Metals (Total & Dissolved)	Cations (from "total metals" bottle)	Anions	NO2NO3, TDS	Long List Metals (Total & Dissolved)	Cyanide	Rem./Contaminant	Sample # (lab only)
~~MW-101~~	Grab	GW					X	X	X	X	X	X	X				
MW-105	Grab	GW		4/26/17	825	10	X	X	X	X	X	X	X				29
RW-2	Grab	GW		4/26/17	1425	10	X	X	X	X	X	X	X				30
MW-61	Grab	GW		4/26/17	935	10	X	X	X	X	X	X	X				31
MW-62	Grab	GW		4/26/17	1020	10	X	X	X	X	X	X	X				32
MW-93	Grab	GW		4/26/17	1215	10	X	X	X	X	X	X	X				33
~~MW-43~~	Grab	GW					X	X	X		X	X	X	X	X		
~~MW-137~~	Grab	GW					X	X	X		X	X	X	X	X		
~~MW-138~~	Grab	GW					X	X	X		X	X	X	X	X		
MW-23	Grab	GW		4/26/17	1115	10	X	X	X	X	X	X	X				34

* Matrix: **SS** - Soil **GW** - Groundwater **WW** - WasteWater **DW** - Drinking Water **OT** - Other_____

Remarks: **Dissolved metals field-filtered.**

pH _____ Temp _____
Flow _____ Other _____

Hold #

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Scott Ude	4/27/17	0800	
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)

Samples returned via: ☐ UPS ☑ FedEx ☐ Courier ☐ _____
Temp: 3.1 °C Bottles Received: 45
Date: 4.28.17 Time: 0900

Condition: (lab use only)
COC Seal Intact: ___Y ___N ___NA
pH Checked: NCF:

Company Name/Address: **TRC Solutions - Austin, TX** **505 E. Huntland Dr, Ste 250** **Austin, TX 78752**	Billing Information: **Accounts Payable** **21 Griffin Road North** **Windsor, CT 06095**
Report to: Julie Speer	Email To: jspeer@trcwsolutions.com
Project Description: **REST Spring 2017**	City/State Collected: NM
Phone: 512-684-3170 Fax:	Client Project #	Lab Project #
Collected by (print): **Scott Ude/HMI Team**	Site/Facility ID #: REST (Navajo - Artesia)	P.O. #: 107027
Collected by (signature): Scott Ude Immediately Packed on Ice N ___ Y ✓	***Rush?*** (Lab MUST Be Notified) ___ Same Day .....200% ___ Next Day .....100% ___ Two Day .....50% ___ Three Day 25%	Date Results Needed Email? ___No ✓Yes FAX? ___No ___Yes

Analysis / Container / Preservative

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	VOC	DRO	GRO	Short List Metals (Total & Dissolved)	Cations (from "total metals" bottle)	Anions	NO2NO3, TDS	Long List Metals (Total & Dissolved)	Cyanide	Rem./Contaminant	Sample # (lab only)
MW-39	Grab	GW		4/26/17	1920	10	X	X	X	X	X	X	X				35
~~MW-98~~	Grab	GW					X	X	X	X	X	X	X				
~~RW-10~~	Grab	GW					X	X	X	X	X	X	X				
~~MW-40~~	Grab	GW					X	X	X	X	X	X	X				
MW-41	Grab	GW		4/26/17	1825	10	X	X	X	X	X	X	X				36
~~RW-9~~	Grab	GW					X	X	X	X	X	X	X				
MW-42	Grab	GW		4/26/17	1625	10	X	X	X	X	X	X	X				37
MW-29	Grab	GW		4/26/17	1725	10	X	X	X	X	X	X	X				38
RW-#16B	Grab	GW		4/26/17	1525	8	X	X		X	X	X	X				39
~~MW-106~~	Grab	GW					X	X	X	X	X	X	X				

* Matrix: **SS** - Soil **GW** - Groundwater **WW** - WasteWater **DW** - Drinking Water **OT** - Other ___

Remarks: **Dissolved metals field-filtered.**

pH ___ Temp ___

Flow ___ Other ___

Relinquished by : (Signature) Scott Ude	Date: 4/27/17	Time: 0800	Received by: (Signature)
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)

Samples returned via: ☐ UPS ☑ FedEx ☐ Courier ☐ ___

Temp: 3.1 °C Bottles Received: 445

Date: 4-28-17 Time: 0900

Chain of Custody Page ___ of ___

ESC LABORATORY SCIENCES — YOUR LAB OF CHOICE

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

L# L905668

Table #

Acctnum: TRCATX

Template:

Prelogin:

TSR: **Chris McCord**

Cooler:

Shipped Via:

Hold #

Condition: (lab use only)

COC Seal Intact: ___Y ___N ___NA

pH Checked: NCF:

Company Name/Address: **TRC Solutions - Austin, TX** **505 E. Huntland Dr, Ste 250** **Austin, TX 78752**	Billing Information: **Accounts Payable** **21 Griffin Road North** **Windsor, CT 06095**
Report to: Julie Speer	Email To: jspeer@trcwsolutions.com
Project Description: **REST Spring 2017**	City/State Collected: NM
Phone: 512-684-3170 Fax:	Client Project #
Collected by (print): **Scott Ude/HMI Team**	Site/Facility ID # REST (Navajo - Artesia)
Collected by (signature): Scott Ude Immediately Packed on Ice N ___ Y ✓	***Rush?*** (Lab MUST Be Notified) ___ Same Day .....200% ___ Next Day .....100% ___ Two Day .....50% ___ Three Day 25%

Lab Project #

P.O. # 107027

Date Results Needed

Email? ___No ✓Yes

FAX? ___No ___Yes

Chain of Custody Page 1 of 1

ESC LABORATORIES — YOUR LAB OF CHOICE
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Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

L # L905668

Table #

Acctnum: TRCATX

Template:

Prelogin:

TSR: **Chris McCord**

Cooler:

Shipped Via:

Analysis / Container / Preservative

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	VOC	DRO	GRO	Short List Metals (Total & Dissolved)	Cations (from "total metals" bottle)	Anions	NO2NO3, TDS	Long List Metals (Total & Dissolved)	Cyanide		Rem./Contaminant	Sample # (lab only)
~~MW-50~~	Grab	GW					X	X		X	X	X	X					
~~MW-97~~	Grab	GW					X	X	X	X	X	X	X					
~~MW-92~~	Grab	GW					X	X	X	X	X	X	X					
~~RW-1~~	Grab	GW					X	X	X	X	X	X	X					
~~MW-91~~	Grab	GW					X	X	X	X	X	X	X					
~~MW-90~~	Grab	GW					X	X	X	X	X	X	X					
~~MW-96~~	Grab	GW					X	X	X	X	X	X	X					
MW-94	Grab	GW		4/26/17	1420	10	X	X	X	X	X	X	X					40
RW-8	Grab	GW		4/26/17	1505	8	X	X		X	X	X	X					
MW-67	Grab	GW		4/26/17	1615	11	X	X	X		X	X	X	X	X			41

* Matrix: **SS** - Soil **GW** - Groundwater **WW** - WasteWater **DW** - Drinking Water **OT** - Other ___

pH ___ Temp ___

Flow ___ Other ___

Remarks: **Dissolved metals field-filtered.**

Hold #

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Scott Ude	4/27/17	0800	
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)

Samples returned via: ☐ UPS ✓ FedEx ☐ Courier ☐ ___

Temp: 3.1 °C Bottles Received: 445

Date: 4-28-17 Time: 0900

Condition: (lab use only)

COC Seal Intact: ___Y ___N ___NA

pH Checked: NCF:

Company Name/Address:
TRC Solutions - Austin, TX
505 E. Huntland Dr, Ste 250
Austin, TX 78752

Billing Information:
Accounts Payable
21 Griffin Road North
Windsor, CT 06095

Report to: Julie Speer

Email To: jspeer@trcwsolutions.com

Project Description: **REST Spring 2017**

City/State Collected: NM

Phone: 512-684-3170
Fax:

Client Project #

Lab Project #

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

Site/Facility ID #: REST (Navajo - Artesia)

P.O. #: 107027

Collected by (signature): Scott Ude

Immediately Packed on Ice N ___ Y ✓

Rush? (Lab MUST Be Notified)
___ Same Day 200%
___ Next Day 100%
___ Two Day 50%
___ Three Day 25%

Date Results Needed

Email? ___No ✓Yes
FAX? ___No ___Yes

Chain of Custody Page 22 of 28

ESC LABS
YOUR LAB OF CHOICE
12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

L# L905668

Table #

Acctnum: TRCATX

Template:

Prelogin:

TSR: **Chris McCord**

Cooler:

Shipped Via:

Analysis / Container / Preservative

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	VOC	DRO	GRO	Short List Metals (Total & Dissolved)	Cations (from "total metals" bottle)	Anions	NO2NO3, TDS	Long List Metals (Total & Dissolved)	Cyanide		Rem./Contaminant	Sample # (lab only)
MW-95	Grab	GW		4/26/17	1710	10	X	X	X	X	X	X	X					42
RW-7	Grab	GW		4/26/17	1335	10	X	X	X	X	X	X	X					43
RW-#17A	Grab	GW		4/26/17	1755	10	X	X	X	X	X	X	X					44
	Grab	GW																
	Grab	GW																
	Grab	GW																
	Grab	GW																
	Grab	GW																
	Grab	GW																
	Grab	GW																

* Matrix: **SS** - Soil **GW** - Groundwater **WW** - WasteWater **DW** - Drinking Water **OT** - Other_____

Remarks: **Dissolved metals field-filtered.**

pH _____ Temp _____

Flow _____ Other _____

Hold #

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Scott Ude	4/27/17	0800	
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)

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

Temp: 3.1 °C Bottles Received: 445

Date: 4-28-17 Time: 0900

Condition: (lab use only)

COC Seal Intact: ___Y ___N ___NA

pH Checked: NCF:

Company Name/Address:
TRC Solutions - Austin, TX
505 E. Huntland Dr, Ste 250
Austin, TX 78752

Billing Information:
Accounts Payable
21 Griffin Road North
Windsor, CT 06095

Report to: Julie Speer
Email To: jspeer@trcwsolutions.com

Project Description: **REST Spring 2017**
City/State Collected: NM

Phone: 512-684-3170
Fax:
Client Project #
Lab Project #

Collected by (print): **Scott Ude/HMI Team**
Site/Facility ID #: REST (Navajo - Artesia)
P.O. #: 107027

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

Rush? (Lab MUST Be Notified)
___ Same Day 200%
___ Next Day 100%
___ Two Day 50%
___ Three Day 25%

Date Results Needed
Email? ___No ✓Yes
FAX? ___No ___Yes

Analysis / Container / Preservative

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	VOC	DRO	GRO	Short List Metals (Total & Dissolved)	Cations (from "total metals" bottle)	Anions	NO2NO3, TDS	Long List Metals (Total & Dissolved)	Cyanide	Rem./Contaminant	Sample # (lab only)
~~DUP-REST-01~~	Grab	GW					X	X	X	X	X	X	X				
~~DUP-REST-02~~	Grab	GW					X	X	X	X	X	X	X				
DUP-REST-03	Grab	GW		4/26/17	1200	10	X	X	X	X	X	X	X				45
~~DUP-REST-04~~	Grab	GW					X	X	X		X	X	X	X	X		
DUP-REST-05	Grab	GW		4/26/17	800	11	X	X	X		X	X	X	X	X		46
~~EB-REST-01~~	Grab	GW					X	X	X	X	X	X	X				
~~EB-REST-02~~	Grab	GW					X	X	X	X	X	X	X				
EB-REST-03	Grab	GW		4/26/17	855	10	X	X	X	X	X	X	X				47
~~EB-REST-04~~	Grab	GW					X	X	X		X	X	X	X	X		
EB-REST-05	Grab	GW		4/26/17	1305	11	X	X	X		X	X	X	X	X		48

* Matrix: **SS** - Soil **GW** - Groundwater **WW** - WasteWater **DW** - Drinking Water **OT** - Other ___

Remarks: **Dissolved metals field-filtered.**

pH ___ Temp ___
Flow ___ Other ___

Chain of Custody Page ___ of ___

ESC LABS
YOUR LAB OF CHOICE
12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

L# L905668
Table #
Acctnum: TRCATX
Template:
Prelogin:
TSR: **Chris McCord**
Cooler:
Shipped Via:

Hold #
Condition: (lab use only)
COC Seal Intact: ___Y ___N ___NA
pH Checked: NCF:

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Scott Ude	4/27/17	0800	
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)

Samples returned via: ☐ UPS ☑ FedEx ☐ Courier ☐ ___
Temp: 3.1 °C Bottles Received: 445
Date: 4-28-17 Time: 0900

Company Name/Address:
TRC Solutions - Austin, TX
505 E. Huntland Dr, Ste 250
Austin, TX 78752

Billing Information:
Accounts Payable
21 Griffin Road North
Windsor, CT 06095

Report to: Julie Speer

Email To: jspeer@trcwsolutions.com

Project Description: **REST Spring 2017**

City/State Collected: NM

Phone: 512-684-3170
Fax:

Client Project #

Lab Project #

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

Site/Facility ID #: REST (Navajo - Artesia)

P.O. # 107027

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

Rush? (Lab MUST Be Notified)
___ Same Day 200%
___ Next Day 100%
___ Two Day 50%
___ Three Day 25%

Date Results Needed

Email? ___No ✓Yes
FAX? ___No ___Yes

Analysis / Container / Preservative

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	VOC	DRO	GRO	Short List Metals (Total & Dissolved)	Cations (from "total metals" bottle)	Anions	NO2NO3, TDS	Long List Metals (Total & Dissolved)	Cyanide	Rem./Contaminant	Sample # (lab only)
~~Trip Blank-REST-01~~	Grab	GW					X										
Trip Blank-REST-02	Grab	GW		4/26/17	—	1	X										49
~~Trip Blank-REST-03~~	Grab	GW					X										
~~Trip Blank-REST-04~~	Grab	GW					X										
~~Trip Blank-REST-05~~	Grab	GW					X										
	Grab	GW															
	Grab	GW															
	Grab	GW															
	Grab	GW															
	Grab	GW															

* Matrix: **SS** - Soil **GW** - Groundwater **WW** - WasteWater **DW** - Drinking Water **OT** - Other_____

Remarks: **Dissolved metals field-filtered.**

pH _____ Temp _____
Flow _____ Other _____

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Scott Ude	4/27/17	0800	
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)

Samples returned via: ☐ UPS ☑ FedEx ☐ Courier ☐ _____
Temp: 3.1 °C Bottles Received: 44 S
Date: 4.28.17 Time: 0800

Chain of Custody Page ___ of ___

ESC LABORATORY SCIENCES
YOUR LAB OF CHOICE
12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

L #
Table #
Acctnum: TRCATX
Template:
Prelogin:
TSR: **Chris McCord**
Cooler:
Shipped Via:

Hold #
Condition: (lab use only)
COC Seal Intact: ___Y ___N ___NA
pH Checked: NCF:

Company Name/Address: **TRC Solutions - Austin, TX** **505 E. Huntland Dr, Ste 250** **Austin, TX 78752**	Billing Information: **Accounts Payable** **21 Griffin Road North** **Windsor, CT 06095**
Report to: Julie Speer	Email To: jspeer@trcwsolutions.com
Project Description: **REST Spring 2017**	City/State Collected: NM
Phone: 512-684-3170 Fax:	Client Project #
Collected by (print): **Scott Ude/HMI Team**	Site/Facility ID # REST (Navajo - Artesia)
Collected by (signature): Scott Ude Immediately Packed on Ice N ___ Y ✓	***Rush?*** (Lab MUST Be Notified) ___ Same Day .....200% ___ Next Day .....100% ___ Two Day .....50% ___ Three Day 25%

Lab Project #

P.O. # 107027

Date Results Needed

Email? ___No ✓Yes
FAX? ___No ___Yes

Analysis / Container / Preservative

Chain of Custody

ESC LABORATORY SCIENCES
YOUR LAB OF CHOICE
12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

L# L905668

Table #

Acctnum: TRCATX

Template:

Prelogin:

TSR: **Chris McCord**

Cooler:

Shipped Via:

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	VOC	DRO	GRO	Short List Metals (Total & Dissolved)	Cations (from "total metals" bottle)	Anions	NO2NO3, TDS	Long List Metals (Total & Dissolved)	Cyanide		Rem./Contaminant	Sample # (lab only)
~~RW-#15G~~	Grab	GW					X	X		X	X	X	X					
~~MW-48~~	Grab	GW					X	X	X	X	X	X	X					
~~MW-130~~	Grab	GW					X	X	X	X	X	X	X					
~~KWB-4~~	Grab	GW					X	X		X	X	X	X					
~~RW-19~~	Grab	GW					X	X		X	X	X	X					
	Grab	GW																
	Grab	GW																
	Grab	GW																
	Grab	GW																
	Grab	GW																

* Matrix: **SS** - Soil **GW** - Groundwater **WW** - WasteWater **DW** - Drinking Water **OT** - Other_____

pH _____ Temp _____

Flow _____ Other _____

Remarks: **Dissolved metals field-filtered.**

Hold #

Relinquished by : (Signature) Scott Ude	Date: 4/27/17	Time: 1500	Received by: (Signature)	Samples returned via: ☐ UPS ✓ FedEx ☐ Courier ☐ _____
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: 3.1 °C Bottles Received: 445
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 4-28-17 Time: 0900

Condition: (lab use only)

COC Seal Intact: ___Y ___N ___NA

pH Checked: NCF:

Company Name/Address:
TRC Solutions - Austin, TX
505 E. Huntland Dr, Ste 250
Austin, TX 78752

Billing Information:
Accounts Payable
21 Griffin Road North
Windsor, CT 06095

Report to: Julie Speer
Email To: jspeer@trcwsolutions.com

Project Description: **REST Spring 2017**
City/State Collected: NM

Phone: 512-684-3170
Fax:
Client Project #
Lab Project #

Collected by (print): **Scott Ude/HMI Team**
Site/Facility ID #: REST (Navajo - Artesia)
P.O. # 107027

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

Rush? (Lab MUST Be Notified)
___ Same Day 200%
___ Next Day 100%
___ Two Day 50%
___ Three Day 25%

Date Results Needed

Email? ___No ✓Yes
FAX? ___No ___Yes

Analysis / Container / Preservative

Chain of Custody Page 13 of 34

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

L# L905668
Table #
Acctnum: TRCATX
Template:
Prelogin:
TSR: **Chris McCord**
Cooler:
Shipped Via:

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	VOC	DRO	GRO	Short List Metals (Total & Dissolved)	Cations (from "total metals" bottle)	Anions	NO2NO3, TDS	Long List Metals (Total & Dissolved)	Cyanide	Rem./Contaminant	Sample # (lab only)
~~KWB-P4~~	Grab	GW					X	X									
MW-52	Grab	GW		4/27/17	855	11	X	X	X		X	X	X	X	X		50
MW-109	Grab	GW		4/27/17	940	10	X	X	X	X	X	X	X				51
MW-110	Grab	GW		4/27/17	1025	10	X	X	X	X	X	X	X				52
	Grab	GW															
	Grab	GW															
	Grab	GW															
	Grab	GW															
	Grab	GW															
	Grab	GW															

* Matrix: **SS** - Soil **GW** - Groundwater **WW** - WasteWater **DW** - Drinking Water **OT** - Other ___

Remarks: **Dissolved metals field-filtered.**

pH ___ Temp ___
Flow ___ Other ___

Hold #

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Scott Ude	4/27/17	1500	
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)

Samples returned via: ☐ UPS ☑ FedEx ☐ Courier ☐ ___
Temp: 3.1 °C Bottles Received: 445
Date: 4-28-17 Time: 0900

Condition: (lab use only)
COC Seal Intact: ✓ Y ___N ___NA
pH Checked: NCF:

Page 14 of 34

Company Name/Address: **TRC Solutions - Austin, TX** **505 E. Huntland Dr, Ste 250** **Austin, TX 78752**	Billing Information: **Accounts Payable** **21 Griffin Road North** **Windsor, CT 06095**
Report to: Julie Speer	Email To: jspeer@trcwsolutions.com
Project Description: **REST Spring 2017**	City/State Collected: NM
Phone: 512-684-3170 Fax:	Client Project #	Lab Project #
Collected by (print): **Scott Ude/HMI Team**	Site/Facility ID #: REST (Navajo - Artesia)	P.O. #: 107027
Collected by (signature): Scott Ude Immediately Packed on Ice N ___ Y ✓	***Rush?*** (Lab MUST Be Notified) ___ Same Day .....200% ___ Next Day .....100% ___ Two Day .....50% ___ Three Day 25%	Date Results Needed Email? ___No ✓Yes FAX? ___No ___Yes

Analysis / Container / Preservative

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	VOC	DRO	GRO	Short List Metals (Total & Dissolved)	Cations (from "total metals" bottle)	Anions	NO2NO3, TDS	Long List Metals (Total & Dissolved)	Cyanide		Rem./Contaminant	Sample # (lab only)
RW-12R	Grab	GW		4/27/17	1230	8	X	X		X	X	X	X					53
MW-113	Grab	GW		4/27/17	910	10	X	X	X	X	X	X	X					54
~~KWB-8~~	Grab	GW					X	X			X	X	X	X	X			
~~RW-22~~	Grab	GW					X	X		X	X	X	X					
~~RW-20A~~	Grab	GW					X	X		X	X	X	X					
~~RW-20B~~	Grab	GW					X	X		X	X	X	X					
~~RW-13R~~	Grab	GW					X	X		X	X	X	X					
~~RW-14R~~	Grab	GW					X	X		X	X	X	X					
~~MW-133~~	Grab	GW					X	X	X	X	X	X	X					
~~MW-134~~	Grab	GW					X	X	X	X	X	X	X					

* Matrix: **SS** - Soil **GW** - Groundwater **WW** - WasteWater **DW** - Drinking Water **OT** - Other_____

Remarks: **Dissolved metals field-filtered.**

pH _____ Temp _____

Flow _____ Other _____

Relinquished by : (Signature) Scott Ude	Date: 4/27/17	Time: 1500	Received by: (Signature)	Samples returned via: ☐ UPS ☑ FedEx ☐ Courier ☐ _____
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: 3.1 °C Bottles Received: 445
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 4-28-17 Time: 0900

Chain of Custody

ESC LAB SCIENCES
YOUR LAB OF CHOICE
12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

L # L905668

Table #

Acctnum: TRCATX

Template:

Prelogin:

TSR: **Chris McCord**

Cooler:

Shipped Via:

Hold #

Condition: (lab use only)

COC Seal Intact: ✓ Y ___N ___NA

pH Checked: NCF:

Company Name/Address:
TRC Solutions - Austin, TX
505 E. Huntland Dr, Ste 250
Austin, TX 78752

Billing Information:
Accounts Payable
21 Griffin Road North
Windsor, CT 06095

Report to: Julie Speer
Email To: jspeer@trcwsolutions.com

Project Description: **REST Spring 2017**
City/State Collected: NM

Phone: 512-684-3170
Fax:

Client Project #
Lab Project #

Collected by (print): **Scott Ude/HMI Team**
Site/Facility ID #: REST (Navajo - Artesia)
P.O. #: 107027

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

Rush? (Lab MUST Be Notified)
___ Same Day 200%
___ Next Day 100%
___ Two Day 50%
___ Three Day 25%

Date Results Needed

Email? ___No ✓Yes
FAX? ___No ___Yes

Analysis / Container / Preservative

Chain of Custody Page 15 of 34

ESC LABORATORY SCIENCES
YOUR LAB OF CHOICE
12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

L# L905662

Table #

Acctnum: TRCATX
Template:
Prelogin:
TSR: **Chris McCord**
Cooler:
Shipped Via:

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	VOC	DRO	GRO	Short List Metals (Total & Dissolved)	Cations (from "total metals" bottle)	Anions	NO2NO3, TDS	Long List Metals (Total & Dissolved)	Cyanide	Rem./Contaminant	Sample # (lab only)
~~RA-4798~~	Grab	GW					X				X	X	X				
~~RA-4196~~	Grab	GW					X				X	X	X				
~~RA-3156~~	Grab	GW					X				X	X	X				
RA-313	Grab	GW		4/27/17	930	5	X				X	X	X				55
~~KWB-7~~	Grab	GW					X	X			X	X	X	X	X		
~~MW-135~~	Grab	GW					X	X	X	X	X	X	X				
~~KWB-11A~~	Grab	GW					X	X	X		X	X	X	X	X		
~~KWB-11B~~	Grab	GW					X	X	X		X	X	X	X	X		
MW-115	Grab	GW		4/27/17	1040	10	X	X	X	X	X	X	X				56
MW-114	Grab	GW		4/27/17	1130	10	X	X	X	X	X	X	X				57

* Matrix: **SS** - Soil **GW** - Groundwater **WW** - WasteWater **DW** - Drinking Water **OT** - Other ___

pH ___ Temp ___
Flow ___ Other ___

Remarks: **Dissolved metals field-filtered.**

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Scott Ude	4/27/17	1500	
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)

Samples returned via: ☐ UPS ☑ FedEx ☐ Courier ☐ ___
Temp: 3.1 °C Bottles Received: 445
Date: 4-28-17 Time: 0900

Hold #
Condition: (lab use only)
COC Seal Intact: ___Y ___N ___NA
pH Checked: NCF:

Company Name/Address:	Billing Information:
TRC Solutions - Austin, TX **505 E. Huntland Dr, Ste 250** **Austin, TX 78752**	**Accounts Payable** **21 Griffin Road North** **Windsor, CT 06095**
Report to: Julie Speer	Email To: jspeer@trcwsolutions.com
Project Description: **REST Spring 2017**	City/State Collected: NM
Phone: 512-684-3170 Fax:	Client Project #	Lab Project #
Collected by (print): **Scott Ude/HMI Team**	Site/Facility ID #: REST (Navajo - Artesia)	P.O. #: 107027
Collected by (signature): Scott Ude Immediately Packed on Ice N ___ Y ✓	***Rush?*** (Lab MUST Be Notified) ___ Same Day ....200% ___ Next Day ....100% ___ Two Day ....50% ___ Three Day 25%	Date Results Needed Email? ___No ✓Yes FAX? ___No ___Yes

Analysis / Container / Preservative

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	VOC	DRO	GRO	Short List Metals (Total & Dissolved)	Cations (from "total metals" bottle)	Anions	NO2NO3, TDS	Long List Metals (Total & Dissolved)	Cyanide		Rem./Contaminant	Sample # (lab only)
~~MW-117~~	Grab	GW					X	X	X	X	X	X	X					
~~MW-118~~	Grab	GW					X	X	X	X	X	X	X					
~~MW-119~~	Grab	GW					X	X	X	X	X	X	X					
~~NP-5~~	Grab	GW					X	X		X	X	X	X					
~~MW-136~~	Grab	GW					X	X	X		X	X	X	X	X			
MW-126A	Grab	GW		4/27/17	920	10	X	X	X	X	X	X	X					58
MW-126B	Grab	GW		4/27/17	1000	10	X	X	X	X	X	X	X					59
MW-127	Grab	GW		4/27/17	1050	10	X	X	X	X	X	X	X					60
MW-129	Grab	GW		4/27/17	1140	10	X	X	X	X	X	X	X					61
~~RW-#18A~~	Grab	GW					X			X	X	X	X					

* Matrix: **SS** - Soil **GW** - Groundwater **WW** - WasteWater **DW** - Drinking Water **OT** - Other_____

Remarks: **Dissolved metals field-filtered.**

pH _____ Temp _____

Flow _____ Other _____

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Scott Ude	4/27/17	1500	
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)

Samples returned via: ☐ UPS ☑ FedEx ☐ Courier ☐ _____

Temp: 3.1 °C Bottles Received: 445

Date: 4-28-17 Time: 0900

Chain of Custody Page 16 of 34

ESC LAB SCIENCES — YOUR LAB OF CHOICE

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

L# L905668

Table #

Acctnum: TRCATX

Template:

Prelogin:

TSR: **Chris McCord**

Cooler:

Shipped Via:

Hold #

Condition: (lab use only)

COC Seal Intact: ✓ Y ___N ___NA

pH Checked: NCF:

Company Name/Address:
TRC Solutions - Austin, TX
505 E. Huntland Dr, Ste 250
Austin, TX 78752

Billing Information:
Accounts Payable
21 Griffin Road North
Windsor, CT 06095

Report to: Julie Speer
Email To: jspeer@trcwsolutions.com
Project Description: **REST Spring 2017**
City/State Collected: NM
Phone: 512-684-3170
Fax:
Client Project #
Lab Project #
Collected by (print): **Scott Ude/HMI Team**
Site/Facility ID #: REST (Navajo - Artesia)
P.O. #: 107027
Collected by (signature): Scott Ude
Immediately Packed on Ice N ___ Y ✓
Rush? (Lab MUST Be Notified)
___ Same Day 200%
___ Next Day 100%
___ Two Day 50%
___ Three Day 25%
Date Results Needed
Email? ___No ✓Yes
FAX? ___No ___Yes

Analysis / Container / Preservative

Chain of Custody Page ___ of ___

ESC LABORATORY SCIENCES
YOUR LAB OF CHOICE
12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

L # L905668
Table #
Acctnum: TRCATX
Template:
Prelogin:
TSR: **Chris McCord**
Cooler:
Shipped Via:

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	VOC	DRO	GRO	Short List Metals (Total & Dissolved)	Cations (from "total metals" bottle)	Anions	NO2NO3, TDS	Long List Metals (Total & Dissolved)	Cyanide	Rem./Contaminant	Sample # (lab only)
~~KWB-1A~~	Grab	GW					X	X			X	X	X	X	X		
~~KWB-1C~~	Grab	GW					X	X		X	X	X	X				
~~KWB-10R~~	Grab	GW					X	X		X	X	X	X				
MW-131	Grab	GW		4/27/17	1110	10	X	X	X	X	X	X	X				
~~KWB-5~~	Grab	GW					X	X		X	X	X	X				67
~~MW-111~~	Grab	GW					X	X	X	X	X	X	X				
~~KWB-6~~	Grab	GW					X	X		X	X	X	X				
~~MW-112~~	Grab	GW					X	X	X	X	X	X	X				
~~MW-132~~	Grab	GW					X	X	X	X	X	X	X				
~~MW-57~~	Grab	GW					X	X	X	X	X	X	X				

* Matrix: **SS** - Soil **GW** - Groundwater **WW** - WasteWater **DW** - Drinking Water **OT** - Other_____

Remarks: **Dissolved metals field-filtered.**

pH _____ Temp _____
Flow _____ Other _____

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Scott Ude	4/27/17	1500	
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)

Samples returned via: ☐ UPS ☑ FedEx ☐ Courier ☐ _____
Temp: 3.1 °C Bottles Received: 445
Date: 4-28-17 Time: 0900

Hold #
Condition: (lab use only)
COC Seal Intact: ___Y ___N ___NA
pH Checked: NCF:

Company Name/Address:
TRC Solutions - Austin, TX
505 E. Huntland Dr, Ste 250
Austin, TX 78752

Billing Information:
Accounts Payable
21 Griffin Road North
Windsor, CT 06095

Report to: Julie Speer
Email To: jspeer@trcwsolutions.com

Project Description: **REST Spring 2017**
City/State Collected: NM

Phone: 512-684-3170
Fax:
Client Project #
Lab Project #

Collected by (print): **Scott Ude/HMI Team**
Site/Facility ID #: REST (Navajo - Artesia)
P.O. # 107027

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

Rush? (Lab MUST Be Notified)
___ Same Day 200%
___ Next Day 100%
___ Two Day 50%
___ Three Day 25%

Date Results Needed
Email? ___No ✓Yes
FAX? ___No ___Yes

Chain of Custody Page ___ of ___

ESC LABORATORY SCIENCES
YOUR LAB OF CHOICE
12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

L # L905668
Table #
Acctnum: TRCATX
Template:
Prelogin:
TSR: **Chris McCord**
Cooler:
Shipped Via:

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	VOC	DRO	GRO	Short List Metals (Total & Dissolved)	Cations (from "total metals" bottle)	Anions	NO2NO3, TDS	Long List Metals (Total & Dissolved)	Cyanide	Rem./Contaminant	Sample # (lab only)
~~RW-#11-0~~	Grab	GW					X	X		X	X	X	X				
~~KWB-12A~~	Grab	GW					X	X	X		X	X	X	X	X		
~~KWB-12B~~	Grab	GW					X	X	X		X	X	X	X	X		
~~KWB-2R~~	Grab	GW					X	X		X	X	X	X				
~~MW-58~~	Grab	GW					X	X			X	X	X	X	X		
~~KWB-13~~	Grab	GW					X	X			X	X	X	X	X		
	Grab	GW															
	Grab	GW															
	Grab	GW															
	Grab	GW															

* Matrix: **SS** - Soil **GW** - Groundwater **WW** - WasteWater **DW** - Drinking Water **OT** - Other ___

pH ___ Temp ___
Flow ___ Other ___

Remarks: **Dissolved metals field-filtered.**

Hold #

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Scott Ude	4/27/17	1500	
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)

Samples returned via: ☐ UPS ☑ FedEx ☐ Courier ☐ ___
Temp: 3.1 °C Bottles Received: 445
Date: 4-28-17 Time: 0900

Condition: (lab use only)
COC Seal Intact: ___Y ___N ___NA
pH Checked: NCF:

Company Name/Address:	Billing Information:
TRC Solutions - Austin, TX **505 E. Huntland Dr, Ste 250** **Austin, TX 78752**	**Accounts Payable** **21 Griffin Road North** **Windsor, CT 06095**
Report to: Julie Speer	Email To: jspeer@trcwsolutions.com
Project Description: **REST Spring 2017**	City/State Collected: NM
Phone: 512-684-3170 Fax:	Client Project #	Lab Project #
Collected by (print): **Scott Ude/HMI Team**	Site/Facility ID #: REST (Navajo - Artesia)	P.O. #: 107027
Collected by (signature): Scott Ude Immediately Packed on Ice N ___ Y ✓	***Rush?*** (Lab MUST Be Notified) ___ Same Day .....200% ___ Next Day .....100% ___ Two Day .....50% ___ Three Day 25%	Date Results Needed Email? ___No ✓Yes FAX? ___No ___Yes

Analysis / Container / Preservative

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	VOC	DRO	GRO	Short List Metals (Total & Dissolved)	Cations (from "total metals" bottle)	Anions	NO2NO3, TDS	Long List Metals (Total & Dissolved)	Cyanide		Rem./Contaminant	Sample # (lab only)
~~MW-103~~	Grab	GW					X	X	X	X	X	X	X					
~~MW-104~~	Grab	GW					X	X	X	X	X	X	X					
~~MW-64~~	Grab	GW					X	X	X	X	X	X	X					
~~MW-65~~	Grab	GW					X	X	X	X	X	X	X					
~~RW-5R~~	Grab	GW					X	X		X	X	X	X					
~~MW-102~~	Grab	GW					X	X	X	X	X	X	X					
~~RW-4~~	Grab	GW					X	X		X	X	X	X					
~~RW-6~~	Grab	GW					X	X		X	X	X	X					
~~MW-99~~	Grab	GW					X	X	X	X	X	X	X					
~~MW-66~~	Grab	GW					X	X	X		X	X	X	X	X			

* Matrix: **SS** - Soil **GW** - Groundwater **WW** - WasteWater **DW** - Drinking Water **OT** - Other_____

Remarks: **Dissolved metals field-filtered.**

pH _____ Temp _____

Flow _____ Other _____

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Scott Ude	4/27/17	1500	
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)

Samples returned via: ☐ UPS ☑ FedEx ☐ Courier ☐ ____

Temp: 3.1 °C Bottles Received: 445

Date: 4-29-17 Time: 0900

Chain of Custody Page 19 of 34

ESC LABORATORY SCIENCES
YOUR LAB OF CHOICE
12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

L# L905668

Table #

Acctnum: TRCATX

Template:

Prelogin:

TSR: **Chris McCord**

Cooler:

Shipped Via:

Hold #

Condition: (lab use only)

COC Seal Intact: ✓ Y ___N ___NA

pH Checked: NCF:

Company Name/Address: **TRC Solutions - Austin, TX** **505 E. Huntland Dr, Ste 250** **Austin, TX 78752**	Billing Information: **Accounts Payable** **21 Griffin Road North** **Windsor, CT 06095**
Report to: Julie Speer	Email To: jspeer@trcwsolutions.com
Project Description: **REST Spring 2017**	City/State Collected: NM
Phone: 512-684-3170 Fax:	Client Project #	Lab Project #
Collected by (print): **Scott Ude/HMI Team**	Site/Facility ID #: REST (Navajo - Artesia)	P.O. #: 107027
Collected by (signature): Scott Ude Immediately Packed on Ice N ___ Y ✓	***Rush?*** (Lab MUST Be Notified) ___ Same Day ..... 200% ___ Next Day ..... 100% ___ Two Day ..... 50% ___ Three Day 25%	Date Results Needed Email? ___No ✓Yes FAX? ___No ___Yes

Analysis / Container / Preservative

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	VOC	DRO	GRO	Short List Metals (Total & Dissolved)	Cations (from "total metals" bottle)	Anions	NO2NO3, TDS	Long List Metals (Total & Dissolved)	Cyanide		Rem./Contaminant	Sample # (lab only)
~~MW-28~~	Grab	GW					X	X	X		X	X	X	X	X			
MW-59	Grab	GW		4/27/17	925	10	X	X	X	X	X	X	X					67
MW-60	Grab	GW		4/27/17	1015	11	X	X	X		X	X	X	X	X			64
~~MW-107~~	Grab	GW					X	X	X	X	X	X	X					
~~MW-128~~	Grab	GW					X	X	X	X	X	X	X					
~~MW-125~~	Grab	GW					X	X	X	X	X	X	X					
~~MW-116~~	Grab	GW					X	X	X	X	X	X	X					
	Grab	GW																
	Grab	GW																
	Grab	GW																

Chain of Custody Page ___ of ___

ESC LAB SCIENCES

YOUR LAB OF CHOICE

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

L# L905668

Table #

Acctnum: TRCATX

Template:

Prelogin:

TSR: **Chris McCord**

Cooler:

Shipped Via:

* Matrix: **SS** - Soil **GW** - Groundwater **WW** - WasteWater **DW** - Drinking Water **OT** - Other_____

pH _____ Temp _____

Remarks: **Dissolved metals field-filtered.**

Flow _____ Other _____

Hold #

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Scott Ude	4/27/17	1500	
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)

Samples returned via: ☐ UPS ☑ FedEx ☐ Courier ☐ _____

Temp: 3.1 °C Bottles Received: 445

Date: 4-28-17 Time: 0900

Condition: (lab use only)

COC Seal Intact: ___Y ___N ___NA

pH Checked: NCF:

Company Name/Address:	Billing Information:
TRC Solutions - Austin, TX **505 E. Huntland Dr, Ste 250** **Austin, TX 78752**	**Accounts Payable** **21 Griffin Road North** **Windsor, CT 06095**
Report to: Julie Speer	Email To: jspeer@trcwsolutions.com
Project Description: **REST Spring 2017**	City/State Collected: NM
Phone: 512-684-3170 Fax:	Client Project #	Lab Project #
Collected by (print): **Scott Ude/HMI Team**	Site/Facility ID #: REST (Navajo - Artesia)	P.O. #: 107027
Collected by (signature): Scott Ude Immediately Packed on Ice N ___ Y ✓	***Rush?*** (Lab MUST Be Notified) ___ Same Day .....200% ___ Next Day .....100% ___ Two Day .....50% ___ Three Day 25%	Date Results Needed Email? ___No ✓Yes FAX? ___No ___Yes

Analysis / Container / Preservative

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	VOC	DRO	GRO	Short List Metals (Total & Dissolved)	Cations (from "total metals" bottle)	Anions	NO2NO3, TDS	Long List Metals (Total & Dissolved)	Cyanide		Rem./Contaminant	Sample # (lab only)
~~UG-2~~	Grab	GW					X	X	X		X	X	X	X	X			
~~UG-3R~~	Grab	GW					X	X	X		X	X	X	X	X			
~~UG-1~~	Grab	GW					X	X	X		X	X	X	X	X			
~~UG-4~~	Grab	GW					X	X	X		X	X	X	X	X			
	Grab	GW																
	Grab	GW																
	Grab	GW																
	Grab	GW																
	Grab	GW																
	Grab	GW																

* Matrix: **SS** - Soil **GW** - Groundwater **WW** - WasteWater **DW** - Drinking Water **OT** - Other_____

Remarks: **Dissolved metals field-filtered.**

pH _____ Temp _____

Flow _____ Other _____

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Scott Ude	4/27/17	1500	
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)

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

Temp: 3.1 °C Bottles Received: 445

Date: 4.28.17 Time: 0900

Chain of Custody Page ___ of ___

ESC LAB SCIENCES

YOUR LAB OF CHOICE

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

L# L905668

Table #

Acctnum: TRCATX

Template:

Prelogin:

TSR: **Chris McCord**

Cooler:

Shipped Via:

Hold #

Condition: (lab use only)

COC Seal Intact: ✓Y ___N ___NA

pH Checked: NCF:

22 34

Company Name/Address:
TRC Solutions - Austin, TX
505 E. Huntland Dr, Ste 250
Austin, TX 78752

Billing Information:
Accounts Payable
21 Griffin Road North
Windsor, CT 06095

Report to: Julie Speer
Email To: jspeer@trcwsolutions.com

Project Description: **REST Spring 2017**
City/State Collected: NM

Phone: 512-684-3170
Fax:

Client Project #
Lab Project #

Collected by (print): **Scott Ude/HMI Team**
Collected by (signature): Scott Ude
Immediately Packed on Ice N ___ Y ✓

Site/Facility ID #: REST (Navajo - Artesia)
P.O. #: 107027

Rush? (Lab MUST Be Notified)
___ Same Day 200%
___ Next Day 100%
___ Two Day 50%
___ Three Day 25%

Date Results Needed
Email? ___No ✓Yes
FAX? ___No ___Yes

Analysis / Container / Preservative

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	VOC	DRO	GRO	Short List Metals (Total & Dissolved)	Cations (from "total metals" bottle)	Anions	NO2NO3, TDS	Long List Metals (Total & Dissolved)	Cyanide		Rem./Contaminant	Sample # (lab only)
MW-101	Grab	GW		4/27/17	945	0	X	X	X	X	X	X	X					-74
~~MW-105~~	Grab	GW					X	X	X	X	X	X	X					
~~RW-2~~	Grab	GW					X	X	X	X	X	X	X					
~~MW-61~~	Grab	GW					X	X	X	X	X	X	X					
~~MW-62~~	Grab	GW					X	X	X	X	X	X	X					
~~MW-93~~	Grab	GW					X	X	X	X	X	X	X					
~~MW-43~~	Grab	GW					X	X	X		X	X	X	X	X			
~~MW-137~~	Grab	GW					X	X	X		X	X	X	X	X			
~~MW-138~~	Grab	GW					X	X	X		X	X	X	X	X			
~~MW-23~~	Grab	GW					X	X	X	X	X	X	X					

* Matrix: **SS** - Soil **GW** - Groundwater **WW** - WasteWater **DW** - Drinking Water **OT** - Other ___

Remarks: **Dissolved metals field-filtered.**

pH ___ Temp ___
Flow ___ Other ___

Relinquished by : (Signature) Scott Ude — Date: 4/27/17 — Time: 1500 — Received by: (Signature)
Relinquished by : (Signature) — Date: — Time: — Received by: (Signature)
Relinquished by : (Signature) — Date: — Time: — Received for lab by: (Signature)

Samples returned via: ☐ UPS ☑ FedEx ☐ Courier ☐ ___
Temp: 3.1 °C Bottles Received: 445
Date: 4-28-17 Time: 0900

Chain of Custody Page ___ of ___

ESC LABORATORY SCIENCES
YOUR LAB OF CHOICE
12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

L# L905668
Table #
Acctnum: TRCATX
Template:
Prelogin:
TSR: Chris McCord
Cooler:
Shipped Via:

Hold #
Condition: (lab use only)
COC Seal Intact: ✓ Y ___ N ___ NA
pH Checked: NCF:

23 34

Company Name/Address:	Billing Information:
TRC Solutions - Austin, TX **505 E. Huntland Dr, Ste 250** **Austin, TX 78752**	**Accounts Payable** **21 Griffin Road North** **Windsor, CT 06095**
Report to: Julie Speer	Email To: jspeer@trcwsolutions.com
Project Description: **REST Spring 2017**	City/State Collected: NM
Phone: 512-684-3170 Fax:	Client Project #	Lab Project #
Collected by (print): **Scott Ude/HMI Team**	Site/Facility ID #: REST (Navajo - Artesia)	P.O. #: 107027
Collected by (signature): Scott Ude Immediately Packed on Ice N ___ Y ✓	***Rush?*** (Lab MUST Be Notified) ___ Same Day .....200% ___ Next Day .....100% ___ Two Day .....50% ___ Three Day 25%	Date Results Needed Email? ___No ✓Yes FAX? ___No ___Yes

Analysis / Container / Preservative

Chain of Custody Page ___ of ___

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Mount Juliet, TN 37122
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L# L905668
Table #
Acctnum: TRCATX
Template:
Prelogin:
TSR: **Chris McCord**
Cooler:
Shipped Via:

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	VOC	DRO	GRO	Short List Metals (Total & Dissolved)	Cations (from "total metals" bottle)	Anions	NO2NO3, TDS	Long List Metals (Total & Dissolved)	Cyanide		Rem./Contaminant	Sample # (lab only)
~~MW-39~~	Grab	GW					X	X	X	X	X	X	X					
~~MW-98~~	Grab	GW					X	X	X	X	X	X	X					
RW-10	Grab	GW		4/27/17	955	10	X	X	X	X	X	X	X					65
MW-40	Grab	GW		4/27/17	1210	0	X	X	X	X	X	X	X					-75
~~MW-41~~	Grab	GW					X	X	X	X	X	X	X					
RW-9	Grab	GW		4/27/17	1115	0	X	X	X	X	X	X	X					-76
~~MW-42~~	Grab	GW					X	X	X	X	X	X	X					
~~MW-29~~	Grab	GW					X	X	X	X	X	X	X					
~~RW-#16B~~	Grab	GW					X	X		X	X	X	X					
~~MW-106~~	Grab	GW					X	X	X	X	X	X	X					

* Matrix: **SS** - Soil **GW** - Groundwater **WW** - WasteWater **DW** - Drinking Water **OT** - Other_____

pH _____ Temp _____

Remarks: **Dissolved metals field-filtered.**

Flow _____ Other _____

Hold #

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Scott Ude	4/27/17	1500	
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)

Samples returned via: ☐ UPS ☑ FedEx ☐ Courier ☐ _____

Temp: 3.1 °C Bottles Received: 945

Date: 4-25-17 Time: 0900

Condition: (lab use only)

COC Seal Intact: ✓ ___Y ___N ___NA

pH Checked: NCF:

Company Name/Address:	Billing Information:
TRC Solutions - Austin, TX **505 E. Huntland Dr, Ste 250** **Austin, TX 78752**	**Accounts Payable** **21 Griffin Road North** **Windsor, CT 06095**
Report to: Julie Speer	Email To: jspeer@trcwsolutions.com
Project Description: **REST Spring 2017**	City/State Collected: NM
Phone: 512-684-3170 Fax:	Client Project #	Lab Project #
Collected by (print): **Scott Ude/HMI Team**	Site/Facility ID # REST (Navajo - Artesia)	P.O. # 107027
Collected by (signature): Scott Ude Immediately Packed on Ice N ___ Y ✓	***Rush?*** (Lab MUST Be Notified) ___ Same Day .....200% ___ Next Day .....100% ___ Two Day .....50% ___ Three Day 25%	Date Results Needed Email? ___No ✓Yes FAX? ___No ___Yes

Analysis / Container / Preservative

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	VOC	DRO	GRO	Short List Metals (Total & Dissolved)	Cations (from "total metals" bottle)	Anions	NO2NO3, TDS	Long List Metals (Total & Dissolved)	Cyanide		Rem./Contaminant	Sample # (lab only)
~~MW-50~~	Grab	GW					X	X		X	X	X	X					
~~MW-97~~	Grab	GW					X	X	X	X	X	X	X					
~~MW-92~~	Grab	GW					X	X	X	X	X	X	X					
~~RW-1~~	Grab	GW					X	X	X	X	X	X	X					
~~MW-91~~	Grab	GW					X	X	X	X	X	X	X					
~~MW-90~~	Grab	GW					X	X	X	X	X	X	X					
~~MW-96~~	Grab	GW					X	X	X	X	X	X	X					
~~MW-94~~	Grab	GW					X	X	X	X	X	X	X					
~~RW-8~~	Grab	GW					X	X		X	X	X	X					
~~MW-67~~	Grab	GW					X	X	X		X	X	X	X	X			

* Matrix: **SS** - Soil **GW** - Groundwater **WW** - WasteWater **DW** - Drinking Water **OT** - Other_____

Remarks: **Dissolved metals field-filtered.**

pH _____ Temp _____

Flow _____ Other _____

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Scott Ude	4/27/17	1500	
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)

Samples returned via: ☐ UPS ✓ FedEx ☐ Courier ☐ ____

Temp: 3.1 °C Bottles Received: 445

Date: 4-28-17 Time: 0900

Chain of Custody Page ___ of ___

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Phone: 800-767-5859
Fax: 615-758-5859

L # L905668

Table #

Acctnum: TRCATX

Template:

Prelogin:

TSR: **Chris McCord**

Cooler:

Shipped Via:

Hold #

Condition: (lab use only)

COC Seal Intact: ___Y ___N ___NA

pH Checked: NCF:

Company Name/Address:	Billing Information:
TRC Solutions - Austin, TX **505 E. Huntland Dr, Ste 250** **Austin, TX 78752**	**Accounts Payable** **21 Griffin Road North** **Windsor, CT 06095**
Report to: Julie Speer	Email To: jspeer@trcwsolutions.com
Project Description: **REST Spring 2017**	City/State Collected: NM
Phone: 512-684-3170 Fax:	Client Project #	Lab Project #
Collected by (print): **Scott Ude/HMI Team**	Site/Facility ID #: REST (Navajo - Artesia)	P.O.#: 107027
Collected by (signature): Scott Ude Immediately Packed on Ice N ___ Y ✓	***Rush?*** (Lab MUST Be Notified) ___ Same Day ..... 200% ___ Next Day ..... 100% ___ Two Day ..... 50% ___ Three Day 25%	Date Results Needed Email? ___No ✓Yes FAX? ___No ___Yes

Analysis / Container / Preservative

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	VOC	DRO	GRO	Short List Metals (Total & Dissolved)	Cations (from "total metals" bottle)	Anions	NO2NO3, TDS	Long List Metals (Total & Dissolved)	Cyanide		Rem./Contaminant	Sample # (lab only)
~~MW-95~~	Grab	GW					X	X	X	X	X	X	X					
~~RW-7~~	Grab	GW					X	X	X	X	X	X	X					
~~RW-#17A~~	Grab	GW					X	X	X	X	X	X	X					
	Grab	GW																
	Grab	GW																
	Grab	GW																
	Grab	GW																
	Grab	GW																
	Grab	GW																
	Grab	GW																

Chain of Custody Page ___ of ___

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Phone: 800-767-5859
Fax: 615-758-5859

L# L905669

Table #

Acctnum: TRCATX

Template:

Prelogin:

TSR: **Chris McCord**

Cooler:

Shipped Via:

* Matrix: **SS** - Soil **GW** - Groundwater **WW** - WasteWater **DW** - Drinking Water **OT** - Other ___

pH ___ Temp ___

Remarks: **Dissolved metals field-filtered.**

Flow ___ Other ___

Hold #

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Scott Ude	4/27/17	1500	
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)

Samples returned via: ☐ UPS ☑ FedEx ☐ Courier ☐ ___

Temp: 3.1 °C Bottles Received: 945

Date: 4-8-17 Time: 0900

Condition: (lab use only)

COC Seal Intact: ___Y ___N ___NA

pH Checked: NCF:

Company Name/Address:	Billing Information:
TRC Solutions - Austin, TX **505 E. Huntland Dr, Ste 250** **Austin, TX 78752**	**Accounts Payable** **21 Griffin Road North** **Windsor, CT 06095**
Report to: Julie Speer	Email To: jspeer@trcwsolutions.com
Project Description: **REST Spring 2017**	City/State Collected: NM
Phone: 512-684-3170 Fax:	Client Project #	Lab Project #
Collected by (print): **Scott Ude/HMI Team**	Site/Facility ID #: REST (Navajo - Artesia)	P.O. #: 107027
Collected by (signature): Scott Ude Immediately Packed on Ice N ___ Y ✓	***Rush?*** (Lab MUST Be Notified) ___ Same Day .....200% ___ Next Day .....100% ___ Two Day .....50% ___ Three Day 25%	Date Results Needed Email? ___No ✓Yes FAX? ___No ___Yes

Analysis / Container / Preservative

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	VOC	DRO	GRO	Short List Metals (Total & Dissolved)	Cations (from "total metals" bottle)	Anions	NO2NO3, TDS	Long List Metals (Total & Dissolved)	Cyanide		Rem./Contaminant	Sample # (lab only)
DUP-REST-01	Grab	GW		4/27/17	1000	10	X	X	X	X	X	X	X					66
~~DUP-REST-02~~	Grab	GW					X	X	X	X	X	X	X					
~~DUP-REST-03~~	Grab	GW					X	X	X	X	X	X	X					
DUP-REST-04	Grab	GW		4/27/17	800	11	X	X	X		X	X	X	X	X			67
~~DUP-REST-05~~	Grab	GW					X	X	X		X	X	X	X	X			
EB-REST-01	Grab	GW		4/27/17	935	10	X	X	X	X	X	X	X					68
~~EB-REST-02~~	Grab	GW					X	X	X	X	X	X	X					
~~EB-REST-03~~	Grab	GW					X	X	X	X	X	X	X					
EB-REST-04	Grab	GW		4/27/17	1030	11	X	X	X		X	X	X	X	X			69
~~EB-REST-05~~	Grab	GW					X	X	X		X	X	X	X	X			

* Matrix: **SS** - Soil **GW** - Groundwater **WW** - WasteWater **DW** - Drinking Water **OT** - Other_____

pH _____ Temp _____

Remarks: **Dissolved metals field-filtered.**

Flow _____ Other _____

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Scott Ude	4/27/17	1500	
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)

Samples returned via: ☐ UPS ☑ FedEx ☐ Courier ☐ _____

Temp: 3.1 °C Bottles Received: 445

Date: 4-28-17 Time: 0900

Chain of Custody Page ___ of ___

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Fax: 615-758-5859

L# L905668

Table #

Acctnum: TRCATX

Template:

Prelogin:

TSR: **Chris McCord**

Cooler:

Shipped Via:

Hold #

Condition: (lab use only)

COC Seal Intact: ✓ Y ___ N ___ NA

pH Checked: NCF:

Company Name/Address:
TRC Solutions - Austin, TX
505 E. Huntland Dr, Ste 250
Austin, TX 78752

Billing Information:
Accounts Payable
21 Griffin Road North
Windsor, CT 06095

Report to: Julie Speer
Email To: jspeer@trcwsolutions.com

Project Description: **REST Spring 2017**
City/State Collected: NM

Phone: 512-684-3170
Fax:

Client Project #
Lab Project #

Collected by (print): **Scott Ude/HMI Team**
Site/Facility ID #: REST (Navajo - Artesia)
P.O. #: 107027

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

Rush? (Lab MUST Be Notified)
___ Same Day 200%
___ Next Day 100%
___ Two Day 50%
___ Three Day 25%

Date Results Needed
Email? ___No ✓Yes
FAX? ___No ___Yes

Analysis / Container / Preservative

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	VOC	DRO	GRO	Short List Metals (Total & Dissolved)	Cations (from "total metals" bottle)	Anions	NO2NO3, TDS	Long List Metals (Total & Dissolved)	Cyanide		Rem./Contaminant	Sample # (lab only)
~~Trip Blank-REST-01~~	Grab	GW					X											
~~Trip Blank-REST-02~~	Grab	GW					X											
~~Trip Blank-REST-03~~	Grab	GW					X											
Trip Blank-REST-04	Grab	GW		4/27/17	—		X											70
~~Trip Blank-REST-05~~	Grab	GW					X											
	Grab	GW																
	Grab	GW																
	Grab	GW																
	Grab	GW																
	Grab	GW																

Chain of Custody Page ___ of ___

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Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
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L# L905668
Table #
Acctnum: TRCATX
Template:
Prelogin:
TSR: **Chris McCord**
Cooler:
Shipped Via:

* Matrix: **SS** - Soil **GW** - Groundwater **WW** - WasteWater **DW** - Drinking Water **OT** - Other ___

pH ___ Temp ___
Flow ___ Other ___

Remarks: **Dissolved metals field-filtered.**

Hold #

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Scott Ude	4/27/17	1500	
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)

Samples returned via: ☐ UPS ☑ FedEx ☐ Courier ☐ ___
Temp: 3.1 °C Bottles Received: 45
Date: 4-28-17 Time: 0900

Condition: (lab use only)
COC Seal Intact: ___ Y ___ N ___ NA
pH Checked: NCF:

ESC LAB SCIENCES
Cooler Receipt Form

Client: TRCNTX	SDG#	L905668
Cooler Received/Opened On: 4/26/17	Temperature:	3.1
Received By: Mike Lowe		
Signature:		

Receipt Check List	NP	Yes	No
COC Seal Present / Intact?			
COC Signed / Accurate?			
Bottles arrive intact?			
Correct bottles used?			
Sufficient volume sent?			
If Applicable			
VOA Zero headspace?		✓	
Preservation Correct / Checked?		✓	