MICA LANDFILL
SEMI-ANNUAL PERFORMANCE REPORT
April 2019

SPOKANE COUNTY

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1 INTRODUCTION

1.1 MICA LANDFILL INFORMATION SUMMARY

SITE:	Mica Landfill, Spokane County, WA S.11, 14 & 15 T.24 R.44
REPORTING PERIOD:	October 1, 2018 through April 31, 2019.
REGULATORY AUTHORITY:	Washington State Department of Ecology, EPA Scope of work for Remedial Action as stated in the Final Cleanup Action Plan (CAP) 2002.
TECHNOLOGY:	Impermeable cover system with passive landfill gas collection and flare stations. Leachate collection system conveying leachate to local sewer for treatment and disposal.
CRITERIA:	Criteria were established as stated in the Consent Decree and outlined in the Final CAP. See Table 1-1.
SAMPLING PROGRAMS:	Compliance Monitoring Program: Semi-annual groundwater and leachate sampling done in accordance with Final Cleanup Action Plan (CAP) and the SAP. MW-16 is still sampled on a quarterly basis, so December 2018 results are included in this report. See Figure 1-1 for site locations. See Table 1-2 for well designations and Table 1-3 sampling schedule.

Table 1-1 Mica Landfill Summary of Indicator Analytes and Cleanup Levels

GROUNDWATER			
Indicator Analyte	**Method B Cleanup Level, ug/L**	**Indicator Analyte**	**Method B Cleanup Level, ug/L**
Conventionals		**Volatile Organic Compounds**	
Alkalinity	N	1,2-Dichloroethane	1.2
Ammonia	272,000	1,2-Dichloropropane	0.643
Chloride	N	Acetone	688
N-Nitrate	800	Benzene	0.795
Sulfate	N	cis-1,2-Dichloroethene	33
Total Dissolved Solids	N	Methylene Chloride	5
Total Organic Carbon	N	Tetrachloroethene	0.858
Inorganics		Toluene	100
Arsenic	5	Trichloroethene	3.98
Barium	560	Vinyl Chloride	0.023
Lead	15	Phthalates	
Manganese	1,926	bis(2- ethylhexyl) Phthalate	6
Mercury	0.4		
Vanadium	112		
Zinc	400		

LEACHATE		
Parameter	**Units**	**Daily Maximum**
Arsenic	mg/L	0.94
Cadmium	mg/L	0.11
Chromium	mg/L	5.0
Copper	mg/L	1.4
Lead	mg/L	0.32
Nickel	mg/L	3.98
Silver	mg/L	0.43
Zinc	mg/L	7.47
Cyanide Total	mg/L	0.49
Mercury	mg/L	0.2
FOG	mg/L	100
Benzene	mg/L	Sum total of the four results shall be less than or equal to 0.50
Toluene	mg/L	
Ethylbenzene	mg/L	
Xylene	mg/L	

Figure 1-1 Mica Landfill Site

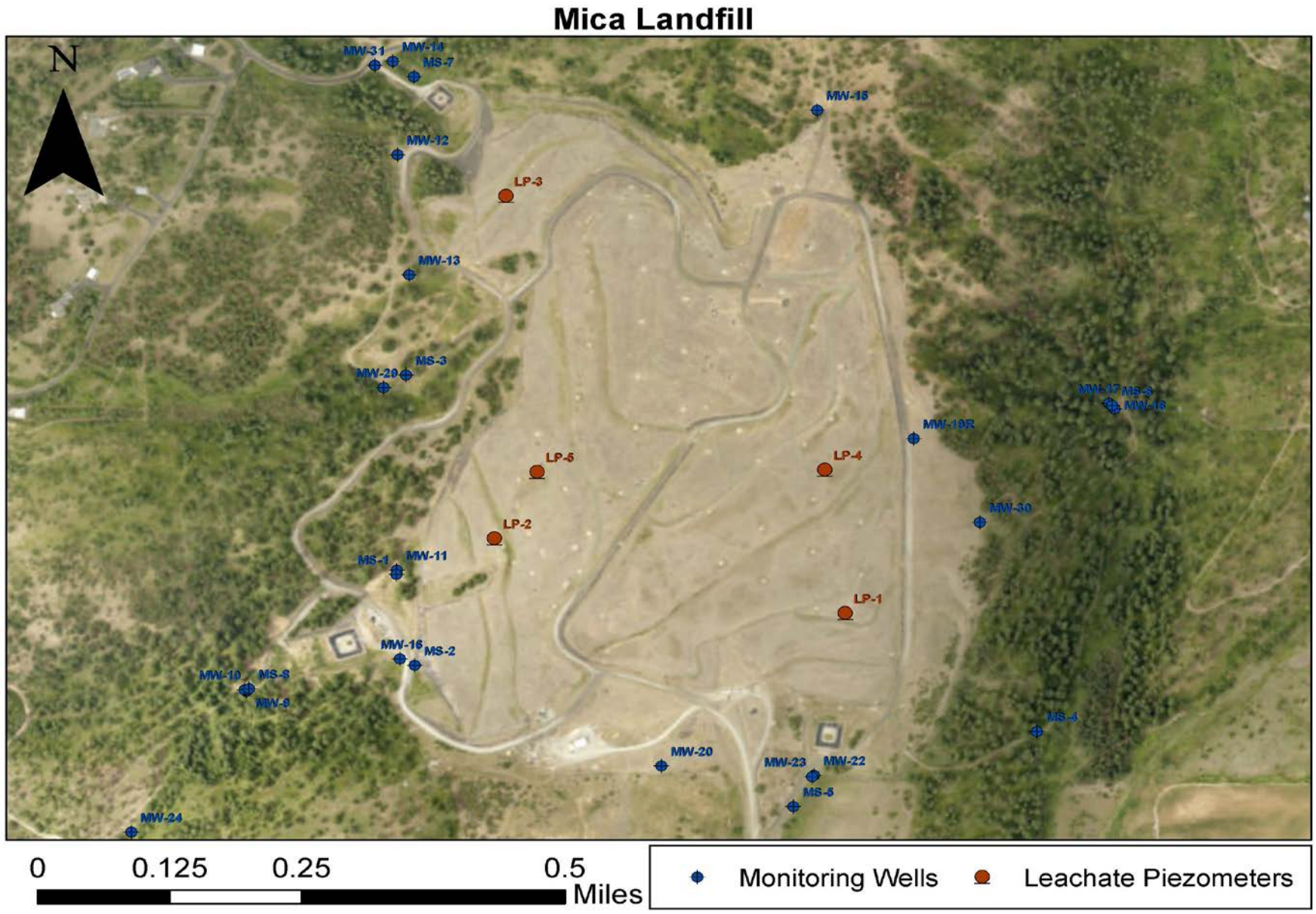


Table 1-2 Mica Landfill Summary Groundwater Monitoring Wells

Well ID	Geologic Unit*	Sampling Frequency	Drainage Area
MS-4	WB	Semi-Annual	Southeast
MS-5	WB	Semi-Annual	South
MW-9	WB	Semi-Annual	Southwest
MW-10	FB	Semi-Annual	Southwest
MW-13	FB	Semi-Annual	Northwest
MW-14	FB	Semi-Annual	Northwest
MW-16	FB	Quarterly	Southwest
MW-19R	FB	Semi-Annual	Southeast
MW-20	FB	Semi-Annual	South
MW-23	WB	Semi-Annual	South
MW-29	FB	Semi-Annual	Northwest
MW-31	WB	Semi-Annual	Northwest
DW-001	FB	Semi-Annual	South Pines Estates
DW-002	WB	Semi-Annual	Hidden Hollow
DW-003	FB	Semi-Annual	Miller Well

*WB = weathered (decomposed) bedrock
*FB = fractured bedrock

Table 1-3 Mica Landfill Sampling Schedule

	VOLATILES				BEHP				TOC/NH3				Cl/Alk/NO3/SO4/TDS				As/Ba/Hg/Mn/Pb/V/Zn			
LOCATION	Mar	Jun	Sep	Dec	Mar	Jun	Sep	Dec	Mar	Jun	Sep	Dec	Mar	Jun	Sep	Dec	Mar	Jun	Sep	Dec
MW-013	X		X						X		X		X		X		X		X	
MW-014	X		X						X		X		X		X		X		X	
MW-029	X		X		X				X		X		X		X		X		X	
MW-031	X		X						X		X		X		X		X		X	
MW-009	X		X		X				X		X		X		X		X		X	
MW-010	X		X						X		X		X		X		X		X	
MW-016	X	X	X	X					X	X	X	X	X		X		X	X	X	X
MS-005	X		X		X				X		X		X		X		X		X	
MW-020	X		X						X		X		X		X		X		X	
MW-023	X		X						X		X		X		X		X		X	
MS-004	X		X		X		X		X		X		X		X		X		X	
MW-019R	X		X						X		X		X		X		X		X	
DW-001	X		X		X				X		X		X		X		X		X	
DW-002	X		X		X				X		X		X		X		X		X	
DW-003	X		X		X				X		X		X		X		X		X	

2 GROUNDWATER

2.1 GROUNDWATER DATA

2.1.1 PROBLEMS/ DEVIATIONS

Due to snowy/icy weather conditions, Spokane County had to reschedule the typical March semi-annual sampling round to April. During the April 2019 sampling round, water levels were not taken from domestic wells DW-1 and DW-2 due to depth of well and/or running of the well.

2.1.2 FIELD DATA

Field parameters for this report, including water elevations, are shown in Table 2-1.

2.1.3 CRITERIA EXCEEDANCES

Concentrations found above the clean-up criteria during this quarter are presented in Table 2-2.

NORTHWEST DRAINAGE (MW-13, MW-14, MW-29 and MW-31)
Nitrate concentrations for MW-29 exceeded the cleanup criteria during the April 2019 sampling round.

SOUTHWEST DRAINAGE (MW-9, MW-10 and MW-16)
Four different VOC concentrations found in MW-16 were above the clean-up criteria during September 2018, December 2018, and April 2019 quarterly sampling. The concentrations for arsenic, barium, benzene, and acetone found in MW-16 were also above the criteria.

SOUTH DRAINAGE (MS-5, MW-20 and MW-23)
Nitrate concentrations for MS-5 and MW-20 exceeded the cleanup criteria during the April 2019 sampling round. Vinyl Chloride concentrations for MW-23 also exceeded the cleanup criteria during the April sampling round.

SOUTHEAST DRAINAGE (MS-4 and MW-19R)
Monitoring well MW-19R and MS-4 had nitrate concentrations above the clean-up criteria during the September 2018 and April 2019 sampling rounds.

DOMESTIC WELLS (DW-1, DW-2 and DW-3)
The zinc level at DW-2 exceeded the clean-up criteria, but was below the Washington State drinking water standards. Wells DW-2 and DW-3 had nitrate concentrations above the criteria of 0.8 mg/L. See the “Contingency Response Actions” section for additional information.

2.1.4 CHEMICAL DATA

All analytical results for this reporting period are shown in Table 2-3. A data validation summary for the laboratory results is presented in Appendix A.

Because of the high volatile organic concentrations found in MW-16, dilutions for laboratory analysis are necessary. This typically increases the method reporting limit for the analytes, and while most detections are well above these elevated reporting limits, there may be some low level concentrations that will not be represented with these lab results.

2.1.5 CONTINGENCY RESPONSE ACTIONS

The nitrate levels at domestic wells DW-2 and DW-3 were above clean-up criteria. As stated in previous reports, DW-2 historically shows this level of nitrate and further confirmation of the analyte presence is not needed. Domestic well DW-3 has historically shown an increasing trend in nitrate while the two south drainage monitoring wells upgradient from this well show decreasing nitrate trends.

The zinc concentration found at DW-1 was below the cleanup criteria in both the September 2018 and April 2019 sampling runs. The zinc concentrations in this well continue to exhibit a decreasing trend. The zinc concentration found at DW-2 was above the cleanup criteria in the April 2019 sampling round, but was below the Washington State drinking water standards. The increase in zinc concentration for DW-2 occurred due to a replacement of 160' of 1-1/4" galvanized pipe on 3/29/2019. The replacement of the galvanized pipe was performed by Fogle Pump, and the replacement was due to a pump failure in the well.

Table 2-1 Mica Landfill Field Parameters Summary

StationID	SampleDate	Temp	PH	Conductivity	Turbidity	WElev
DW-001	10/9/2018	11.3	6.93	299	0.59	
DW-001	4/10/2019	11.8	6.86	358	5.79	
DW-002	9/11/2018	11.7	6.75	298	0.12	
DW-002	4/10/2019	10.8	7.06	322	0.21	
DW-003	9/11/2018	11.5	7.32	326	0.26	2392.34
DW-003	4/10/2019	10.6	7.19	344	0.69	2394.19
MS-004	9/11/2018	9.5	6.81	255	0.83	2513.57
MS-004	4/10/2019	10.5	6.87	257	1.62	2516.15
MS-005	9/11/2018	11.1	6.53	402	0.29	2564.46
MS-005	4/11/2019	11.5	6.67	335	0.4	2565.45
MW-009	9/11/2018	11.3	6.57	514	3.3	2488.39
MW-009	4/10/2019	6.5	6.57	436	1.21	2494.70
MW-010	9/11/2018	10.5	7.23	126	0.2	2490.11
MW-010	4/10/2019	9.1	6.84	180	0.3	2494.82
MW-013	9/11/2018	12	6.77	414	0.89	2674.53
MW-013	4/10/2019	10.1	6.88	401	1.13	2674.87
MW-014	9/11/2018	12	6.91	140	0.79	2585.17
MW-014	4/10/2019	8.3	7.07	154	2.24	2591.06
MW-016	9/12/2018	11.8	6.79	2490	1.88	2539.15
MW-016	12/12/2018	9.2	6.81	2230	0.85	2536.82
MW-016	12/19/2018	10.6	6.84	2650	1.05	2538.32
MW-016	4/11/2019	10	6.89	2180	1.16	2539.12
MW-019R	9/11/2018	11.6	7.07	289	7.32	2686.57
MW-019R	4/10/2019	10.7	6.99	265	7.21	2694.72
MW-020	9/12/2018	10.7	7.03	480	23.9	2598.52
MW-020	4/11/2019	10.5	6.98	512	36.9	2595.53
MW-023	9/12/2018	12.4	6.9	861	2.41	2566.04
MW-023	4/11/2019	10.3	7.06	852	0.11	2572.69
MW-029	9/11/2018	10.3	6.26	627	1.18	2598.11
MW-029	4/10/2019	8.8	6.11	651	0.88	2594.98
MW-031	4/10/2019	5.6	6.79	92	12.3	2589.96

Temp: Degrees C, Conductivity: umhos/cm, Turbitiy: NTU, Welev: ft above MSL

Table 2-2 Criteria Exceedances for Reporting Period

StationID	SampleDate	Analyte	Concentration	MTCAB	AnalyteAbbrev	Units
DW-002	9/11/2018	N-Nitrate	1.16	0.8	N-NO3	mg/L
DW-002	4/10/2019	N-Nitrate	1.19	0.8	N-NO3	mg/L
DW-002	4/10/2019	Zinc	0.772	0.4	Zn	mg/L
DW-003	9/11/2018	N-Nitrate	2.84	0.8	N-NO3	mg/L
DW-003	4/10/2019	N-Nitrate	2.38	0.8	N-NO3	mg/L
MS-004	9/11/2018	N-Nitrate	4.86	0.8	N-NO3	mg/L
MS-004	4/10/2019	N-Nitrate	4.7	0.8	N-NO3	mg/L
MS-005	9/11/2018	N-Nitrate	1.51	0.8	N-NO3	mg/L
MS-005	4/11/2019	N-Nitrate	1.61	0.8	N-NO3	mg/L
MW-016	9/12/2018	Arsenic	0.0634	0.005	As	mg/L
MW-016	9/12/2018	Barium	0.744	0.56	Ba	mg/L
MW-016	9/12/2018	1,2-Dichloropropane	14.6	0.643	1,2-Dichloropropane	ug/L
MW-016	9/12/2018	Acetone	2500	688	Acetone	ug/L
MW-016	9/12/2018	Benzene	17.5	0.795	Benzene	ug/L
MW-016	12/12/2018	Acetone	895	688	Acetone	ug/L
MW-016	12/12/2018	1,2-Dichloroethane	2.56	1.2	1,2-DCA	ug/L
MW-016	12/12/2018	Benzene	12.6	0.795	Benzene	ug/L
MW-016	12/12/2018	Vinyl Chloride	2.89	0.023	VC	ug/L
MW-016	12/12/2018	1,2-Dichloropropane	12.6	0.643	1,2-Dichloropropane	ug/L
MW-016	12/19/2018	Barium	0.789	0.56	Ba	mg/L
MW-016	12/19/2018	Arsenic	0.0692	0.005	As	mg/L
MW-016	4/11/2019	Barium	0.75	0.56	Ba	mg/L
MW-016	4/11/2019	Arsenic	0.0618	0.005	As	mg/L
MW-016	4/11/2019	Acetone	2690	688	Acetone	ug/L
MW-016	4/11/2019	Vinyl Chloride	5.44	0.023	VC	ug/L
MW-016	4/11/2019	Benzene	11.9	0.795	Benzene	ug/L
MW-016	4/11/2019	1,2-Dichloropropane	15.1	0.643	1,2-Dichloropropane	ug/L
MW-016	4/11/2019	cis-1,2-dichloroethene	40.1	33	cis-1,2-DCE	ug/L
MW-019R	9/11/2018	N-Nitrate	1.39	0.8	N-NO3	mg/L
MW-019R	4/10/2019	N-Nitrate	1.38	0.8	N-NO3	mg/L
MW-020	9/12/2018	N-Nitrate	3.83	0.8	N-NO3	mg/L
MW-020	4/11/2019	N-Nitrate	3.01	0.8	N-NO3	mg/L
MW-023	4/11/2019	Vinyl Chloride	0.75	0.023	VC	ug/L
MW-029	4/10/2019	N-Nitrate	0.88	0.8	N-NO3	mg/L

Table 2-3 Groundwater Analytical Results for the Reporting Period

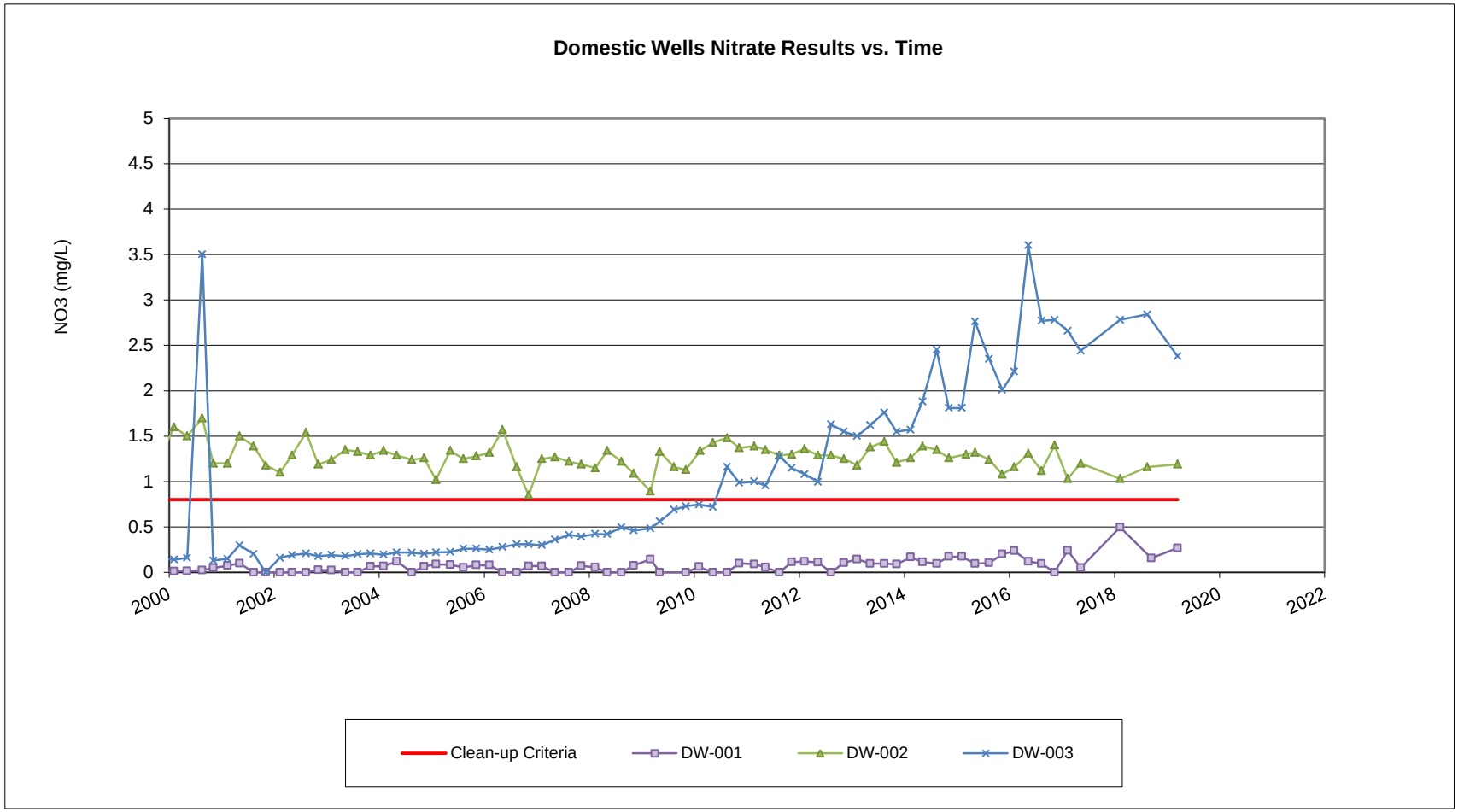
Analyte	Units	SampleDate	DW-001	DW-002	DW-003	MS-004	MS-005	MW-009	MW-010	MW-014	MW-016	MW-023	MW-029
Alkalinity	mg/L as Ca	10/9/2018	139										
Alkalinity	mg/L as Ca	4/10/2019	141	152	177	125		198	91.5	74.6			72.4
Alkalinity	mg/L as Ca	4/11/2019					107				1460	364	
Ammonia	mg/L	10/9/2018	0.03U										
Ammonia	mg/L	12/19/2018									0.035		
Ammonia	mg/L	4/10/2019	0.03U	0.03U	0.03U	0.03U		0.03U	0.03U	0.03U			0.03U
Ammonia	mg/L	4/11/2019					0.03U				0.198	0.03U	
Chloride	mg/L	10/9/2018	6.21										
Chloride	mg/L	4/10/2019	11.3	8.51	0.85	0.49		18D	0.38	0.75			144D
Chloride	mg/L	4/11/2019					27.9D				159D	55D	
N-Nitrate	mg/L	10/9/2018	0.157										
N-Nitrate	mg/L	4/10/2019	0.268	1.19	2.38	4.7		0.05U	0.244	0.05U			0.88
N-Nitrate	mg/L	4/11/2019					1.61				0.05U	0.05U	
Sulfate	mg/L	10/9/2018	9.24										
Sulfate	mg/L	4/10/2019	8.87	5.87	1.56	10.8		3.21	0.78	8.73			6.13
Sulfate	mg/L	4/11/2019					21.1				0.36	8.42	
Total Dissolved Solids	mg/L	4/10/2019				211		238	130	113			476
Total Dissolved Solids	mg/L	4/11/2019					248				1980	507	
Total Organic Carbon	mg/L	10/9/2018	1U										
Total Organic Carbon	mg/L	12/19/2018									118D		
Total Organic Carbon	mg/L	4/10/2019	1.13	1.01	1U	1.13		2.34	1U	1U			1U
Total Organic Carbon	mg/L	4/11/2019					1.62				171D	2.65	
Arsenic	mg/L	10/9/2018	0.003U										
Arsenic	mg/L	12/19/2018									0.0692		
Arsenic	mg/L	4/10/2019	0.003U	0.003U	0.003U	0.003U		0.003U	0.003U	0.003U			0.003U
Arsenic	mg/L	4/11/2019					0.003U				0.0618	0.003U	
Barium	mg/L	10/9/2018	0.0129										
Barium	mg/L	12/19/2018									0.789		
Barium	mg/L	4/10/2019	0.0262	0.0384	0.0303	0.0718		0.129	0.0482	0.004U			0.1
Barium	mg/L	4/11/2019					0.0569				0.75	0.155	
Lead	mg/L	10/9/2018	0.0075U										
Lead	mg/L	12/19/2018									0.015U		
Lead	mg/L	4/10/2019	0.015U	0.015U	0.015U	0.015U		0.015U	0.015U	0.015U			0.015U

Lead	mg/L	4/11/2019					0.015U				0.015U	0.015U	
Manganese	mg/L	10/9/2018	**0.0081**										
Manganese	mg/L	12/19/2018									**0.886**		
Manganese	mg/L	4/10/2019	**0.008**	**0.025**	0.008U	0.008U		**0.219**	0.008U	**0.143**			0.008U
Manganese	mg/L	4/11/2019					0.008U				**1.51**	**0.979**	
Mercury	mg/L	10/9/2018	0.0002U										
Mercury	mg/L	12/19/2018									0.0002U		
Mercury	mg/L	4/10/2019	0.0002U	0.0002U	0.0002U	0.0002U		0.0002U	0.0002U	0.0002U			0.0002U
Mercury	mg/L	4/11/2019					0.0002U				0.0002U	0.0002U	
Vanadium	mg/L	10/9/2018	0.005U										
Vanadium	mg/L	12/19/2018									0.005U		
Vanadium	mg/L	4/10/2019	0.005U	0.005U	0.005U	0.005U		0.005U	0.005U	0.005U			0.005U
Vanadium	mg/L	4/11/2019					**0.0052**				**0.0083**	0.005U	
Zinc	mg/L	10/9/2018	**0.126**										
Zinc	mg/L	12/19/2018									0.01U		
Zinc	mg/L	4/10/2019	**0.355**	**0.772**	**0.272**	0.01U		0.01U	0.01U	0.01U			0.01U
Zinc	mg/L	4/11/2019					0.01U				0.01U	0.01U	
bis(2-Ethylhexyl)Phthalate	ug/L	4/10/2019	**0.58**	**0.96**	0.5U	**1.5**		0.5U					0.5U
bis(2-Ethylhexyl)Phthalate	ug/L	4/11/2019					0.5U						
1,2-Dichloroethane	ug/L	10/9/2018	0.5U										
1,2-Dichloroethane	ug/L	12/12/2018									**2.56**		
1,2-Dichloroethane	ug/L	4/10/2019	0.5U	0.5U	0.5U	0.5U		0.5U	0.5U	0.5U			0.5U
1,2-Dichloroethane	ug/L	4/11/2019					0.5U				4U	0.5U	
1,2-Dichloropropane	ug/L	10/9/2018	0.5U										
1,2-Dichloropropane	ug/L	12/12/2018									**12.6**		
1,2-Dichloropropane	ug/L	4/10/2019	0.5U	0.5U	0.5U	0.5U		0.5U	0.5U	0.5U			0.5U
1,2-Dichloropropane	ug/L	4/11/2019					0.5U				**15.1**	0.5U	
Acetone	ug/L	10/9/2018	2.5U										
Acetone	ug/L	12/12/2018									**895**		
Acetone	ug/L	4/10/2019	2.5U	2.5U	2.5U	2.5U		2.5U	2.5U	2.5U			2.5U
Acetone	ug/L	4/11/2019					2.5U				**2690**	2.5U	
Benzene	ug/L	10/9/2018	0.5U										
Benzene	ug/L	12/12/2018									**12.6**		
Benzene	ug/L	4/10/2019	0.5U	0.5U	0.5U	0.5U		0.5U	0.5U	0.5U			0.5U
Benzene	ug/L	4/11/2019					0.5U				**11.9**	**0.56**	
cis-1,2-dichloroethene	ug/L	10/9/2018	0.5U										
cis-1,2-dichloroethene	ug/L	12/12/2018									**11.1**		
cis-1,2-dichloroethene	ug/L	4/10/2019	0.5U	0.5U	0.5U	0.5U		0.5U	0.5U	0.5U			0.5U

cis-1,2-dichloroethene	ug/L	4/11/2019					0.5U				**40.1**	**0.68**	
Ethylbenzene	ug/L	10/9/2018	0.5U										
Ethylbenzene	ug/L	12/12/2018									**53.6**		
Ethylbenzene	ug/L	4/10/2019	0.5U	0.5U	0.5U	0.5U		0.5U	0.5U	0.5U			0.5U
Ethylbenzene	ug/L	4/11/2019					0.5U				**61.6**	0.5U	
m,p-Xylene	ug/L	10/9/2018	0.5U										
m,p-Xylene	ug/L	12/12/2018									**41.2**		
m,p-Xylene	ug/L	4/10/2019	0.5U	0.5U	0.5U	0.5U		0.5U	0.5U	0.5U			0.5U
m,p-Xylene	ug/L	4/11/2019					0.5U				**40.2**	0.5U	
Methylene Chloride	ug/L	10/9/2018	0.5U										
Methylene Chloride	ug/L	12/12/2018									12.5U		
Methylene Chloride	ug/L	4/10/2019	2.5U	2.5U	2.5U	2.5U		2.5U	2.5U	2.5U			2.5U
Methylene Chloride	ug/L	4/11/2019					2.5U				20U	2.5U	
o-Xylene	ug/L	10/9/2018	0.5U										
o-Xylene	ug/L	12/12/2018									**18.8**		
o-Xylene	ug/L	4/10/2019	0.5U	0.5U	0.5U	0.5U		0.5U	0.5U	0.5U			0.5U
o-Xylene	ug/L	4/11/2019					0.5U				**17.7**	0.5U	
Tetrachloroethene	ug/L	10/9/2018	0.5U										
Tetrachloroethene	ug/L	12/12/2018									2.5U		
Tetrachloroethene	ug/L	4/10/2019	0.5U	0.5U	0.5U	0.5U		0.5U	0.5U	0.5U			0.5U
Tetrachloroethene	ug/L	4/11/2019					0.5U				4U	0.5U	
Toluene	ug/L	10/9/2018	0.5U										
Toluene	ug/L	12/12/2018									**25.1**		
Toluene	ug/L	4/10/2019	0.5U	**5.24**	0.5U	0.5U		0.5U	0.5U	0.5U			0.5U
Toluene	ug/L	4/11/2019					0.5U				**75.2**	0.5U	
Trichloroethene	ug/L	10/9/2018	0.5U										
Trichloroethene	ug/L	12/12/2018									2.5U		
Trichloroethene	ug/L	4/10/2019	0.5U	0.5U	0.5U	0.5U		0.5U	0.5U	0.5U			0.5U
Trichloroethene	ug/L	4/11/2019					0.5U				4U	0.5U	
Vinyl Chloride	ug/L	10/9/2018	0.5U										
Vinyl Chloride	ug/L	12/12/2018									**2.89**		
Vinyl Chloride	ug/L	4/10/2019	0.5U	0.5U	0.5U	0.5U		0.5U	0.5U	0.5U			0.5U
Vinyl Chloride	ug/L	4/11/2019					0.5U				**5.44**	**0.75**	

Blue bold indicates concentration detected above Method Reporting Limit.
D = Sample diluted during lab analysis

Figure 2-1 Nitrate Concentrations in Domestic Wells vs. Time



3 LEACHATE

3.1 LEACHATE DATA

The Mica Landfill Wastewater Permit leachate sampling schedule was changed from June and December sampling events to the months of April and October. Monitoring of flow and pH was performed during this reporting period on a monthly basis. In October, leachate was sampled and analyzed for BTEX. Results from this analysis were below criteria.

Due to the delay in our semi-annual sampling, the April leachate sampling and BTEX analysis is also included in this report. Results from this analysis were below criteria as well. See the Discharge Monitoring Reports in Appendix C.

3.2 LEACHATE PRODUCTION

Monthly leachate production rates are presented in Table 3-3 along with local precipitation amounts. The total amount of leachate generated at the Mica Landfill from October 2018 through April 2019 was estimated at 3.8 million gallons.

Table 3-1 Leachate Production Summary

Month	Leachate Volume (gal)	Precipitation (inches)
Oct-18	15,834	2.05
Nov-18	70,053	3.28
Dec-18	636,896	3.23
Jan-19	777,409	2.22
Feb-19	450,483	0.94
Mar-19	891,100	1.59
Apr-19	999,557	2.06
Total	**3,841,332**	**15.37**

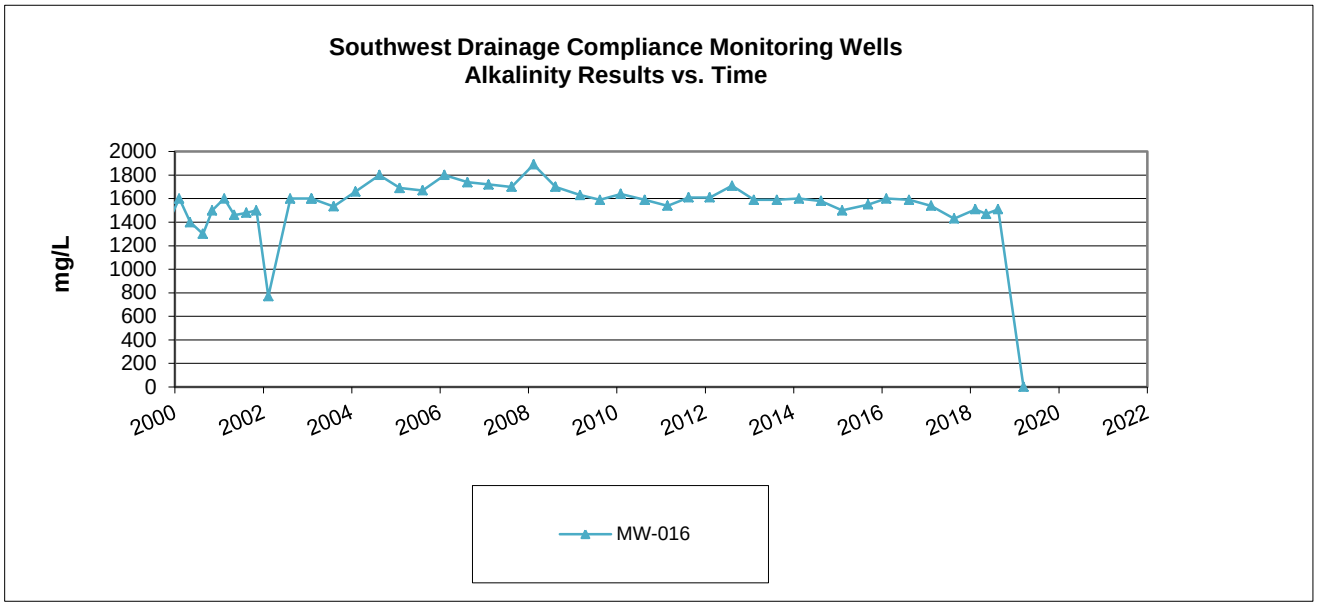
APPENDIX A DATA VALIDATION SUMMARY

Analytical data for the December 2018/April 2019 sample round was reviewed using quality control (QC) criteria documented in the analytical method, *National Functional Guidelines for Organic Data Review and Inorganic Data Review (1994)*, and the *Mica Landfill Remedial Action Plan (November 2003).*

The original alkalinity value for sample GWMW-016-190411 was rejected because the original analysis indicated a non-detect for the alkalinity value, which was extremely inconsistent with past results (see time-series graph below). SVL laboratory reanalyzed the sample, and reported an updated alkalinity value of 1460 mg/L, which is consistent with past alkalinity values.

Data Qualifier Summary for December 2018/April 2019 Sampling Results

StationID	SampleID	SampleDate	Analyte	Report Limit	Result	Qualifier	Units
MW-016	GWMW-016-190411	4/11/2019	Alkalinity	1	1	U,REJ	mg/L as Ca



APPENDICES

APPENDIX B GROUNDWATER SAMPLING FIELD SHEETS

MICA GROUNDWATER SAMPLING FIELD SHEET

DATE: 4-10-19	WELL ID: DW-001	FIELD TEAM: MT, GR, KM, BU
SAMPLE ID: GWDW-001-190410	QA / QC SAMPLE ID: —	
FIELD CONDITIONS: Partly Cloudy 36°F		

START TIME: 0815
SAMPLE TIME: 0831
QA / QC SAMPLE TIME: —
END TIME: 0840

DEDICATED BLADDER: _____
DISPOSABLE BAILER: _____
PRIVATE DOMESTIC WELL: ✓

METER AND PURGING INFORMATION:

METER	MAKE / MODEL	SERIAL NO.	CALIB. COMMENTS
pH	EXTECH 100	345281	Calibrated to 4, 7 & 10 buffer
CONDUCTIVITY	ECTESTR 11+	1217642	Std. to 700 umhos/cm
TURBIDITY	Hach 2100P	#020100024957	Std to 4.02, 39.4, and 331 NTU
SWL INDICATOR			

TOTAL DEPTH OF WELL: >300'
PACKER DEPTH: _____
STATIC WATER LEVEL: NO SWL Port
COLUMN OF WATER: NA
COLUMN OF WATER ABOVE PACKER: _____
COLUMN OF WATER BELOW PACKER: _____

CALCULATIONS:

PACKER INFORMATION:
COW X .433 X 1.25 + 30 = PACKER INFLATION (PSI)

PARAMETERS:	(+/- 10%)	(+/- .1)	(+/- 10%)	
GAL PURGED / TIME	TEMP	pH	CONDUCTIVITY	APPEARANCE
0820	11.8	6.88	357	Slight rust color
0825	11.9	6.89	360	↓
0830	11.8	6.86	358	↓
			TURBIDITY: 5.79	NTU (meas. In field lab)

COMMENTS: Purged 15 min. to clear lines before sampling

MICA GROUNDWATER SAMPLING FIELD SHEET

DATE: 4-10-2019	WELL ID: DW-002	FIELD TEAM: MT , GF, KM, BU
SAMPLE ID: GWDW-002-190410	QA / QC SAMPLE ID: —	
FIELD CONDITIONS: fair 45° F		

START TIME: 1035
SAMPLE TIME: 1051
QA / QC SAMPLE TIME: _____
END TIME: 1100

DEDICATED BLADDER: _____
DISPOSABLE BAILER: _____
PRIVATE DOMESTIC WELL: X

METER AND PURGING INFORMATION:

METER	MAKE / MODEL	SERIAL NO.	CALIB. COMMENTS
pH	EXTECH 100	345281	Calibrated to 4, 7 & 10 buffer
CONDUCTIVITY	ECTESTR 11+	1217642	Std. to 700 umhos/cm
TURBIDITY	Hach 2100P	#020100024957	Std to 4.02, 39.4, and 331 NTU
SWL INDICATOR			

TOTAL DEPTH OF WELL: NA
PACKER DEPTH: —
STATIC WATER LEVEL: NA
COLUMN OF WATER: —
COLUMN OF WATER ABOVE PACKER: —
COLUMN OF WATER BELOW PACKER: —

CALCULATIONS:

PACKER INFORMATION:
COW X .433 X 1.25 + 30 = PACKER INFLATION (PSI)

PARAMETERS:	(+/- 10%)	(+/- .1)	(+/- 10%)	
GAL PURGED / TIME	TEMP	pH	CONDUCTIVITY	APPEARANCE
1040	10.8	7.06	322	Clear
1045	10.9	7.09	324	Clear
1050	10.8	7.07	322	Clear
			TURBIDITY: 0.21	NTU (meas. In field lab)

Purged 15 min. to clear lines prior to sampling

COMMENTS:

MICA GROUNDWATER SAMPLING FIELD SHEET

DATE: 4-10-2019	WELL ID: DW-003	FIELD TEAM: MT, GE, KM, BU
SAMPLE ID: GWDW-003-190410	QA / QC SAMPLE ID:	
FIELD CONDITIONS: Sunny 39°		

Start water 0921

START TIME: Pump on at 0930

SAMPLE TIME: 0946

QA / QC SAMPLE TIME: _____

END TIME: 0950

DEDICATED BLADDER: _____

DISPOSABLE BAILER: _____

PRIVATE DOMESTIC WELL: *

METER AND PURGING INFORMATION:

METER	MAKE / MODEL	SERIAL NO.	CALIB. COMMENTS
pH	EXTECH 100	345281	Calibrated to 4, 7 & 10 buffer
CONDUCTIVITY	ECTESTR 11+	1217642	Std. to 700 umhos/cm
TURBIDITY	Hach 2100P	#020100024957	Std to 4.02, 39.4, and 331 NTU
SWL INDICATOR			

TOTAL DEPTH OF WELL: 200.0'

PACKER DEPTH: —

STATIC WATER LEVEL: ~~5.81~~ 5.81

COLUMN OF WATER: _____

COLUMN OF WATER ABOVE PACKER: —

COLUMN OF WATER BELOW PACKER: —

CALCULATIONS:

PACKER INFORMATION:

COW X .433 X 1.25 + 30 = PACKER INFLATION (PSI)

PARAMETERS:	(+/- 10%)	(+/- .1)	(+/- 10%)	
GAL PURGED / TIME	TEMP	pH	CONDUCTIVITY	APPEARANCE
0935	10.5	723	347	Clear
0940	10.6	724	341	Clear
0945	10.6	719	344	Clear
			TURBIDITY: 0.69	NTU (meas. In field lab)

COMMENTS: Purged well 15 min. to clear lines prior to sampling

MICA GROUNDWATER SAMPLING FIELD SHEET

DATE: 4-10-2019	WELL ID: MS-4	FIELD TEAM: MT , GE, KM, BU
SAMPLE ID: GWMS-004-190410	QA / QC SAMPLE ID:	
FIELD CONDITIONS: Partly Cloudy 49°F		

START TIME: 1233
SAMPLE TIME: 1327
QA / QC SAMPLE TIME: _____
END TIME: 1335

DEDICATED BLADDER: _____
DISPOSABLE BAILER: *
PRIVATE DOMESTIC WELL: _____

METER AND PURGING INFORMATION:

METER	MAKE / MODEL	SERIAL NO.	CALIB. COMMENTS
pH	EXTECH 100	345281	Calibrated to 4, 7 & 10 buffer
CONDUCTIVITY	ECTESTR 11+	1217642	Std. to 700 umhos/cm
TURBIDITY	Hach 2100P	#020100024957	Std to 4.02, 39.4, and 331 NTU
SWL INDICATOR			

TOTAL DEPTH OF WELL: 32.0'
PACKER DEPTH: _____
STATIC WATER LEVEL: 6.40
COLUMN OF WATER: 25.60
COLUMN OF WATER ABOVE PACKER: _____
COLUMN OF WATER BELOW PACKER: _____

CALCULATIONS:

4.5 gal/vol

PACKER INFORMATION:

COW X .433 X 1.25 + 30 = PACKER INFLATION (PSI)

PARAMETERS:	(+/- 10%)	(+/- .1)	(+/- 10%)	
GAL PURGED / TIME	TEMP	pH	CONDUCTIVITY	APPEARANCE
1.5 1238	10.7	6.90	264	Clear
3.0 1243	10.6	6.91	261	Clear
4.5 1248	10.6	6.91	260	Clear
Final [redacted]	10.5	6.87	257	Clear
1335			TURBIDITY: 1.62	NTU (meas. In field lab)

COMMENTS: MS-6 - 6.15
17 - 7.01
19 - 3.50

MW21 —

MICA FIELD DST

MICA GROUNDWATER SAMPLING FIELD SHEET

DATE: 4-11-2019	WELL ID: MS-5	FIELD TEAM: MT , GF, KM, BU
SAMPLE ID: GWMS-005-190411	QA / QC SAMPLE ID: MS/MSD	
FIELD CONDITIONS: Cloudy 37°F		

START TIME: 0825
SAMPLE TIME: 0917
QA / QC SAMPLE TIME: _____
END TIME: 0933

DEDICATED BLADDER: *
DISPOSABLE BAILER: _____
PRIVATE DOMESTIC WELL: _____

METER AND PURGING INFORMATION:

METER	MAKE / MODEL	SERIAL NO.	CALIB. COMMENTS
pH	EXTECH 100	345281	Calibrated to 4, 7 & 10 buffer
CONDUCTIVITY	ECTESTR 11+	1217642	Std. to 700 umhos/cm
TURBIDITY	Hach 2100P	#020100024957	Std to 4.02, 39.4, and 331 NTU
SWL INDICATOR			

TOTAL DEPTH OF WELL: 53.01
PACKER DEPTH: _____
STATIC WATER LEVEL: 10.90
COLUMN OF WATER: 42.10
COLUMN OF WATER ABOVE PACKER: _____
COLUMN OF WATER BELOW PACKER: _____

CALCULATIONS:
42.10 X .17 = 7.15 = 7 gallons

PACKER INFORMATION:
COW X .433 X 1.25 + 30 = PACKER INFLATION (PSI)

PARAMETERS:	(+/- 10%)	(+/- .1)	(+/- 10%)	
GAL PURGED / TIME	TEMP	pH	CONDUCTIVITY	APPEARANCE
7 / 0842	11.6	6.67	330	Clear
14 / 0857	11.5	6.64	332	Clear
21 / 0913	11.5	6.67	335	Clear
			TURBIDITY: 0.40	NTU (meas. In field lab)

* MS/MSD Taken here

COMMENTS: Purged 21 gallons, and took 3 parameter before Sampling..

MICA GROUNDWATER SAMPLING FIELD SHEET

DATE: 4/10/2019	WELL ID: MW-9	FIELD TEAM: (MT), GF, KM, BU (AS)
SAMPLE ID: GWMW-009-190410	QA / QC SAMPLE ID:	
FIELD CONDITIONS:		

START TIME: 1010
SAMPLE TIME: 1100
QA / QC SAMPLE TIME: ~~1130~~ MT
END TIME: 1107

DEDICATED BLADDER: X
DISPOSABLE BAILER: _____
PRIVATE DOMESTIC WELL: _____

METER AND PURGING INFORMATION:

METER	MAKE / MODEL	SERIAL NO.	CALIB. COMMENTS
pH	EXTECH 100	223464	Calibrated to 4, 7 & 10 buffer
CONDUCTIVITY	ECTESTR 11+	24A	Std. to 700 umhos/cm
TURBIDITY	Hach 2100P	#020100024957	Std to 4.02, 39.4, and 331 NTU
SWL INDICATOR			

TOTAL DEPTH OF WELL: 25.18'
PACKER DEPTH: _____
STATIC WATER LEVEL: 3.83'
COLUMN OF WATER: 21.35
COLUMN OF WATER ABOVE PACKER: _____
COLUMN OF WATER BELOW PACKER: _____

CALCULATIONS:

21.35 X .17 = 3.62 GAL = 4 GAL
X 3 = 12 GAL

PACKER INFORMATION:

COW X .433 X 1.25 + 30 = PACKER INFLATION (PSI)

PARAMETERS:	(+/- 10%)	(+/- .1)	(+/- 10%)	
GAL PURGED / TIME	TEMP	pH	CONDUCTIVITY	APPEARANCE
4 GAL / 1023	6.6	6.59	422	CLEAR
8 GAL / 1035	6.1	6.53	440	CLEAR
12 GAL / 1059	6.5	6.57	436	CLEAR
			TURBIDITY: 1.21	NTU (meas. In field lab)

COMMENTS: PUMP AT THE END OF PURGING STARTED SPITTING H_2O NO ABLE TO GET A GOOD FLOW, PUMP IS BAD (ABLE TO SAMPLE)

MICA GROUNDWATER SAMPLING FIELD SHEET

DATE: 4/10/2019	WELL ID: MW-10	FIELD TEAM: (MT) GF, KM, BU (AS)
SAMPLE ID: GWMW-010-190410	QA / QC SAMPLE ID: –	
FIELD CONDITIONS: P. CLOUDY MID-30's		

START TIME: 0900
SAMPLE TIME: 1000
QA / QC SAMPLE TIME: –
END TIME: 1005

DEDICATED BLADDER: X
DISPOSABLE BAILER: _____
PRIVATE DOMESTIC WELL: _____

METER AND PURGING INFORMATION:

METER	MAKE / MODEL	SERIAL NO.	CALIB. COMMENTS
pH	EXTECH 100	223464	Calibrated to 4, 7 & 10 buffer
CONDUCTIVITY	ECTESTR 11+	24A	Std. to 700 umhos/cm
TURBIDITY	Hach 2100P	#020100024957	Std to 4.02, 39.4, and 331 NTU
SWL INDICATOR			

TOTAL DEPTH OF WELL: 63.18'
PACKER DEPTH: 47.0'
STATIC WATER LEVEL: ~~256'~~ 2.56'
COLUMN OF WATER: 16.18'
COLUMN OF WATER ABOVE PACKER: 44.44
COLUMN OF WATER BELOW PACKER: –

CALCULATIONS:
16.18' x .17 = 2.7 = 3 GAL x 3 = 9 GAL

44.44' x .433 x 1.25 + 30 = 54 PSI

PACKER INFORMATION:
COW X .433 X 1.25 + 30 = PACKER INFLATION (PSI)

PARAMETERS:	(+/- 10%)	(+/- .1)	(+/- 10%)	
GAL PURGED / TIME	TEMP	pH	CONDUCTIVITY	APPEARANCE
3 GAL / 0915	9.1	6.88	177	CLEAR
6 GAL / 0939	9.1	6.82	179	CLEAR
9 GAL / 0959	9.1	6.84	180	CLEAR
			TURBIDITY: 0.30	NTU (meas. In field lab)

COMMENTS: MS-8-4.06

MICA GROUNDWATER SAMPLING FIELD SHEET

DATE: 4-10-2019	WELL ID: MW 13	FIELD TEAM: MT, GF, KM, BU
SAMPLE ID: GWMW-013-190410	QA / QC SAMPLE ID: —	
FIELD CONDITIONS: ptly cldy, 48°		

START TIME: 1212
SAMPLE TIME: 1311
QA / QC SAMPLE TIME: —
END TIME: 1311

DEDICATED BLADDER: ✓
DISPOSABLE BAILER: _____
PRIVATE DOMESTIC WELL: _____

METER AND PURGING INFORMATION:

METER	MAKE / MODEL	SERIAL NO.	CALIB. COMMENTS
pH	EXTECH 100	312769	Calibrated to 4, 7 & 10 buffer
CONDUCTIVITY	ECTESTR 11+	7810	Std. to 700 umhos/cm
TURBIDITY	Hach 2100P	#020100024957	Std to 4.02, 39.4, and 331 NTU
SWL INDICATOR	Slope Ind	23474	

TOTAL DEPTH OF WELL: 84.44
PACKER DEPTH: 59.0'
STATIC WATER LEVEL: 15.57
COLUMN OF WATER: 68.87 (Not used)
COLUMN OF WATER ABOVE PACKER: 43.43
COLUMN OF WATER BELOW PACKER: 20.42

CALCULATIONS:

PACKER INFORMATION:
43.43
COW X .433 X 1.25 + 30 = PACKER INFLATION (PSI) 55 psi

PARAMETERS:	(+/- 10%)	(+/- .1)	(+/- 10%)	
GAL PURGED / TIME	TEMP	pH	CONDUCTIVITY	APPEARANCE
3.5 1229	10.0	6.84	409	Clear
7.0 1248	10.1	6.90	394	Clear
10.5 1307	10.1	6.88	401	Clear
			TURBIDITY: 1.13	NTU (meas. In field lab)

COMMENTS:

MICA GROUNDWATER SAMPLING FIELD SHEET

DATE: 4-10-2019	WELL ID: MW14	FIELD TEAM: MT (GF) KM, BU
SAMPLE ID: GWMW-014-190410	QA / QC SAMPLE ID:	
FIELD CONDITIONS: pt/y cldy, 42°		

START TIME: 0833
SAMPLE TIME: 0927
QA / QC SAMPLE TIME: _____
END TIME: 0936

DEDICATED BLADDER: ✓
DISPOSABLE BAILER: _____
PRIVATE DOMESTIC WELL: _____

METER AND PURGING INFORMATION:

METER	MAKE / MODEL	SERIAL NO.	CALIB. COMMENTS
pH	EXTECH 100	312769	Calibrated to 4, 7 & 10 buffer
CONDUCTIVITY	ECTESTR 11+	7810	Std. to 700 umhos/cm
TURBIDITY	Hach 2100P	#020100024957	Std to 4.02, 39.4, and 331 NTU
SWL INDICATOR	Slope Ind	23474	

TOTAL DEPTH OF WELL: 55.36
PACKER DEPTH: 39.5
STATIC WATER LEVEL: @ wellhead 0.0
COLUMN OF WATER: 15.86
COLUMN OF WATER ABOVE PACKER: 39.5
COLUMN OF WATER BELOW PACKER: _____

CALCULATIONS:

PACKER INFORMATION: 52 psi
COW X .433 X 1.25 + 30 = PACKER INFLATION (PSI)

PARAMETERS:	(+/- 10%)	(+/- .1)	(+/- 10%)	
GAL PURGED / TIME	TEMP	pH	CONDUCTIVITY	APPEARANCE
3 0946	8.3	6.99	155	Clear
6 0905	8.2	7.03	159	Clear
9 0924	8.3	7.07	154	Clear
			TURBIDITY: 2.24	NTU (meas. In field lab)

COMMENTS:

MICA GROUNDWATER SAMPLING FIELD SHEET

DATE: 4-11-2019	WELL ID: MW-16	FIELD TEAM: (MT), GF, KM, BU (AS)
SAMPLE ID: GWMW-016-190411	QA / QC SAMPLE ID: —	
FIELD CONDITIONS: P. CLOUDY LOW 40S		

START TIME: 0830
SAMPLE TIME: 1000
QA / QC SAMPLE TIME: —
END TIME: 1008

DEDICATED BLADDER: *
DISPOSABLE BAILER: _____
PRIVATE DOMESTIC WELL: _____

METER AND PURGING INFORMATION:

METER	MAKE / MODEL	SERIAL NO.	CALIB. COMMENTS
pH	EXTECH 100	223464	Calibrated to 4, 7 & 10 buffer
CONDUCTIVITY	ECTESTR 11+	24A	Std. to 700 umhos/cm
TURBIDITY	Hach 2100P	#020100024957	Std to 4.02, 39.4, and 331 NTU
SWL INDICATOR			

TOTAL DEPTH OF WELL: 93.42'
PACKER DEPTH: 73.0'
STATIC WATER LEVEL: 17.30'
COLUMN OF WATER: 20.42 76.12'
COLUMN OF WATER ABOVE PACKER: 55.7
COLUMN OF WATER BELOW PACKER: _____

CALCULATIONS: N2 PACKER = 76.12 x .17 = 12.9 = 13 GAL x 3 = 39 GAL
20.42 x .17 = 3.4 = 4 GAL x 3 = 12 GAL

55.70' x .433 x 1.25 + 30 = 60 PSI

PACKER INFORMATION:
COW X .433 X 1.25 + 30 = PACKER INFLATION (PSI)

PARAMETERS:	(+/- 10%)	(+/- .1)	(+/- 10%)	
GAL PURGED / TIME	TEMP	pH	CONDUCTIVITY	APPEARANCE
13 GAL / 0846	11.8	6.75	1938	CLOUDY
26 GAL / 0918	10.1	6.90	2260	SLI CLOUDY-CLEAR
39 GAL / 0959	10.0	6.89	2180	CLEAR
			TURBIDITY: 1.16	NTU (meas. In field lab)

COMMENTS: MS-2: 10.46
* MT DECIDED TO DRAIN WATER FROM PACKER (4 to 20) ABOVE. HAVING A TROUBLE GETTING A FLOW. VAPOR

MICAFIELDSTICK SAMPLED USING A FULL PURGE 39 GAL

MICA GROUNDWATER SAMPLING FIELD SHEET

DATE: 4/10/2019	WELL ID: MW-19R	FIELD TEAM: (MT), GF, KM, BU (AS)
SAMPLE ID: GWMW-019R-190410	QA / QC SAMPLE ID: —	
FIELD CONDITIONS: P. CLOUDY MID-30'S		

START TIME: 0820
SAMPLE TIME: 1400
QA / QC SAMPLE TIME: —
END TIME: 1404

DEDICATED BLADDER: X
DISPOSABLE BAILER: _____
PRIVATE DOMESTIC WELL: _____

METER AND PURGING INFORMATION:

METER	MAKE / MODEL	SERIAL NO.	CALIB. COMMENTS
pH	EXTECH 100	223464	Calibrated to 4, 7 & 10 buffer
CONDUCTIVITY	ECTESTR 11+	24A	Std. to 700 umhos/cm
TURBIDITY	Hach 2100P	#020100024957	Std to 4.02, 39.4, and 331 NTU
SWL INDICATOR			

TOTAL DEPTH OF WELL: 85.35'
PACKER DEPTH: _____
STATIC WATER LEVEL: 40.05'
COLUMN OF WATER: 45.30'
COLUMN OF WATER ABOVE PACKER: _____
COLUMN OF WATER BELOW PACKER: _____

CALCULATIONS:

45.30' x .17 = 7.7 GAL ≈ 8 GAL
x 3 = 24 GAL

PACKER INFORMATION:

COW X .433 X 1.25 + 30 = PACKER INFLATION (PSI)

PARAMETERS: (+/- 10%) (+/- .1) (+/- 10%)

GAL PURGED / TIME	TEMP	pH	CONDUCTIVITY	APPEARANCE
8GAL/0835	10.9	6.94	260	CLOUDISH
PURGED TO	INTAKES			
8.5GAL/1355	10.7	6.99	265	
			TURBIDITY: 7.21	NTU (meas. In field lab)

COMMENTS:

MICA GROUNDWATER SAMPLING FIELD SHEET

DATE: 4-11-2019	WELL ID: MW 20	FIELD TEAM: MT, (GE), KM, BU
SAMPLE ID: GWMW-020-190411	QA / QC SAMPLE ID: —	
FIELD CONDITIONS: Cldy, 47°		

START TIME: 0820
SAMPLE TIME: 1007
QA / QC SAMPLE TIME: —
END TIME: 1015

DEDICATED BLADDER: ✓
DISPOSABLE BAILER: _____
PRIVATE DOMESTIC WELL: _____

METER AND PURGING INFORMATION:

METER	MAKE / MODEL	SERIAL NO.	CALIB. COMMENTS
pH	EXTECH 100	3127609	Calibrated to 4, 7 & 10 buffer
CONDUCTIVITY	ECTESTR 11+	7810	Std. to 700 umhos/cm
TURBIDITY	Hach 2100P	#020100024957	Std to 4.02, 39.4, and 331 NTU
SWL INDICATOR	Slope Ind	23474	—

TOTAL DEPTH OF WELL: 141.55'
PACKER DEPTH: 116.0'
STATIC WATER LEVEL: 56.52'
Total COLUMN OF WATER: 85.03'
COLUMN OF WATER ABOVE PACKER: 59.48'
COLUMN OF WATER BELOW PACKER: 25.55'

CALCULATIONS:
4.3 use 4.5 gal/vol

PACKER INFORMATION:
COW X .433 X 1.25 + 30 = PACKER INFLATION (PSI)

PARAMETERS:	(+/- 10%)	(+/- .1)	(+/- 10%)	
GAL PURGED / TIME	TEMP	pH	CONDUCTIVITY	APPEARANCE
4.5 0855	10.6	7.12	486	Sli tan color
9.0 0930	10.5	7.02	492	Sli tan color
13.5 1005	10.5	6.98	512	Sli tan color
			TURBIDITY: 36.9	NTU (meas. In field lab)

COMMENTS: *Due to higher turbidity caused by faster pumping, Deb G. requested we slow down to 30 min/vol (min) to pump/purge this well.

MICA GROUNDWATER SAMPLING FIELD SHEET

DATE: 4-11-2019	WELL ID: MW-23	FIELD TEAM: MT , GF, (KM), BU
SAMPLE ID: GWMW-023-190411	QA / QC SAMPLE ID: MWS-1-1-190411	
FIELD CONDITIONS: Mostly Cloudy 41°F		

START TIME: 1023
SAMPLE TIME: 1117
QA / QC SAMPLE TIME: 1123
END TIME: 1130

DEDICATED BLADDER: *
DISPOSABLE BAILER: _____
PRIVATE DOMESTIC WELL: _____

METER AND PURGING INFORMATION:

METER	MAKE / MODEL	SERIAL NO.	CALIB. COMMENTS
pH	EXTECH 100	345281	Calibrated to 4, 7 & 10 buffer
CONDUCTIVITY	ECTESTR 11+	1217642	Std. to 700 umhos/cm
TURBIDITY	Hach 2100P	#020100024957	Std to 4.02, 39.4, and 331 NTU
SWL INDICATOR			

TOTAL DEPTH OF WELL: 58.09'
PACKER DEPTH: _____
STATIC WATER LEVEL: 8.60
COLUMN OF WATER: 49.49
COLUMN OF WATER ABOVE PACKER: _____
COLUMN OF WATER BELOW PACKER: _____

CALCULATIONS:
X .17 = 8.4 = 8.5 gallon

PACKER INFORMATION:
COW X .433 X 1.25 + 30 = PACKER INFLATION (PSI)

PARAMETERS:	(+/- 10%)	(+/- .1)	(+/- 10%)	
GAL PURGED / TIME	TEMP	pH	CONDUCTIVITY	APPEARANCE
8.5 / 1038	9.5	7.05	861	Clear
17 / 1055	10.4	7.06	856	Clear
25.5 / 1114	10.3	7.06	852	Clear
			TURBIDITY: .11	NTU (meas. In field lab)

COMMENTS: Purged 25.5 gallon's, and took 3 parameters before Sampling

MW-22 - 3.5'

MICA GROUNDWATER SAMPLING FIELD SHEET

DATE: 4/10/2019	WELL ID: MW-29	FIELD TEAM: (MT) GF, KM, BU (MS)
SAMPLE ID: GWMW-029-190410	QA / QC SAMPLE ID: MWS-1-2-190410	
FIELD CONDITIONS: SLI CLOUDY MID-40'S		

START TIME: 1145
SAMPLE TIME: 1300
QA / QC SAMPLE TIME: 1330
END TIME: 1320

DEDICATED BLADDER: X
DISPOSABLE BAILER: _____
PRIVATE DOMESTIC WELL: _____

METER AND PURGING INFORMATION:

METER	MAKE / MODEL	SERIAL NO.	CALIB. COMMENTS
pH	EXTECH 100	223464	Calibrated to 4, 7 & 10 buffer
CONDUCTIVITY	ECTESTR 11+	24A	Std. to 700 umhos/cm
TURBIDITY	Hach 2100P	#020100024957	Std to 4.02, 39.4, and 331 NTU
SWL INDICATOR			

TOTAL DEPTH OF WELL: 61.5'
PACKER DEPTH: _____
STATIC WATER LEVEL: 31.54'
COLUMN OF WATER: 29.96'
COLUMN OF WATER ABOVE PACKER: _____
COLUMN OF WATER BELOW PACKER: _____

CALCULATIONS:

29.96' x .17 = 4.996 GAL = 5.00 GAL
X 3 = 15.00 GAL

PACKER INFORMATION:

COW X .433 X 1.25 + 30 = PACKER INFLATION (PSI)

PARAMETERS:	(+/- 10%)	(+/- .1)	(+/- 10%)	
GAL PURGED / TIME	TEMP	pH	CONDUCTIVITY	APPEARANCE
5GAL / 1200	10.3	6.01	641	CLEAR
8GAL / 1208	10.2	6.00	636	CLEAR
9GAL / 1259	8.8	6.11	651	CLEAR
			TURBIDITY: 0.88	NTU (meas. In field lab)

COMMENTS: DUPE TAKEN HERE
PURGED TO INTAKES @ 8 GALS ALLOWED

MICA GROUNDWATER SAMPLING FIELD SHEET

DATE: 4-10-2019	WELL ID: MW 31	FIELD TEAM: MT, GF, KM, BU
SAMPLE ID: ~~MT~~ GWMW-031-190410	QA / QC SAMPLE ID: —	
FIELD CONDITIONS: mstly clear, 45° F		

START TIME: 1012
SAMPLE TIME: 1039
QA / QC SAMPLE TIME: —
END TIME: 1046

DEDICATED BLADDER: ✓
DISPOSABLE BAILER: _____
PRIVATE DOMESTIC WELL: _____

METER AND PURGING INFORMATION:

METER	MAKE / MODEL	SERIAL NO.	CALIB. COMMENTS
pH	EXTECH 100	312769	Calibrated to 4, 7 & 10 buffer
CONDUCTIVITY	ECTESTR 11+	7810	Std. to 700 umhos/cm
TURBIDITY	Hach 2100P	#020100024957	Std to 4.02, 39.4, and 331 NTU
SWL INDICATOR	Slope Ind	23474	

TOTAL DEPTH OF WELL: 19.0
PACKER DEPTH: NA
STATIC WATER LEVEL: 4.5'
COLUMN OF WATER: 14.51'
COLUMN OF WATER ABOVE PACKER: NA
COLUMN OF WATER BELOW PACKER: NA

CALCULATIONS:

2.5 use 3.0 gal/vol

PACKER INFORMATION:

COW X .433 X 1.25 + 30 = PACKER INFLATION (PSI)

PARAMETERS:	(+/- 10%)	(+/- .1)	(+/- 10%)	
GAL PURGED / TIME	TEMP	pH	CONDUCTIVITY	APPEARANCE
3 1020	5.7	6.82	80.1	Sli tan color
6 1028	5.6	6.84	81.6	Sli tan color
9 1036	5.6	6.79	91.8	Sli tan color
			TURBIDITY: 12.3	NTU (meas. In field lab)

COMMENTS:

SWL's

MS 7 – 1.93'

MW12 – 20.05'

APPENDIX C GROUNDWATER SAMPLING LABORATORY RESULTS

Anatek Labs, Inc.

1282 Alturas Drive • Moscow, ID 83843 • (208) 883-2839 • Fax (208) 882-9246 • email moscow@anateklabs.com
504 E Sprague Ste. D • Spokane WA 99202 • (509) 838-3999 • Fax (509) 838-4433 • email spokane@anateklabs.com

Client: SPOKANE COUNTY UTILITIES
Address: 22515 N. ELK CHATTAROY ROAD
COLBERT, WA 99005
Attn: SVL ANALYTICAL, INC.

Batch #: 181217004
Project Name: SVL #X8L0315

Analytical Results Report

Sample Number 181217004-001
Client Sample ID GWMW-016-181212
Matrix Water
Comments

Sampling Date 12/12/2018
Sampling Time 9:50 AM
Sample Location X8L0315-01

Date/Time Received 12/13/2019:56 AM

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
1,1,1,2-Tetrachloroethane	ND	ug/L	2.5	12/21/2018 1:02:00 PM	TGT	EPA 8260C	
1,1,1-Trichloroethane	ND	ug/L	2.5	12/21/2018 1:02:00 PM	TGT	EPA 8260C	
1,1,2,2-Tetrachloroethane	ND	ug/L	2.5	12/21/2018 1:02:00 PM	TGT	EPA 8260C	
1,1,2-Trichloroethane	ND	ug/L	2.5	12/21/2018 1:02:00 PM	TGT	EPA 8260C	
1,1-Dichloroethane	5.32	ug/L	2.5	12/21/2018 1:02:00 PM	TGT	EPA 8260C	
1,1-Dichloroethene	ND	ug/L	2.5	12/21/2018 1:02:00 PM	TGT	EPA 8260C	
1,1-dichloropropene	ND	ug/L	2.5	12/21/2018 1:02:00 PM	TGT	EPA 8260C	
1,2,3-Trichlorobenzene	ND	ug/L	2.5	12/21/2018 1:02:00 PM	TGT	EPA 8260C	
1,2,3-Trichloropropane	ND	ug/L	2.5	12/21/2018 1:02:00 PM	TGT	EPA 8260C	
1,2,4-Trichlorobenzene	ND	ug/L	2.5	12/21/2018 1:02:00 PM	TGT	EPA 8260C	
1,2,4-Trimethylbenzene	9.54	ug/L	2.5	12/21/2018 1:02:00 PM	TGT	EPA 8260C	
1,2-Dibromo-3-chloropropane(DBCP)	ND	ug/L	2.5	12/21/2018 1:02:00 PM	TGT	EPA 8260C	
1,2-Dibromoethane	ND	ug/L	2.5	12/21/2018 1:02:00 PM	TGT	EPA 8260C	
1,2-Dichlorobenzene	ND	ug/L	2.5	12/21/2018 1:02:00 PM	TGT	EPA 8260C	
1,2-Dichloroethane	2.56	ug/L	2.5	12/21/2018 1:02:00 PM	TGT	EPA 8260C	
1,2-Dichloropropane	12.6	ug/L	2.5	12/21/2018 1:02:00 PM	TGT	EPA 8260C	
1,3,5-Trimethylbenzene	2.94	ug/L	2.5	12/21/2018 1:02:00 PM	TGT	EPA 8260C	
1,3-Dichlorobenzene	ND	ug/L	2.5	12/21/2018 1:02:00 PM	TGT	EPA 8260C	
1,3-Dichloropropane	ND	ug/L	2.5	12/21/2018 1:02:00 PM	TGT	EPA 8260C	
1,4-Dichlorobenzene	ND	ug/L	2.5	12/21/2018 1:02:00 PM	TGT	EPA 8260C	
2,2-Dichloropropane	ND	ug/L	2.5	12/21/2018 1:02:00 PM	TGT	EPA 8260C	
2-Chlorotoluene	ND	ug/L	2.5	12/21/2018 1:02:00 PM	TGT	EPA 8260C	
2-hexanone	ND	ug/L	12.5	12/21/2018 1:02:00 PM	TGT	EPA 8260C	
4-Chlorotoluene	ND	ug/L	2.5	12/21/2018 1:02:00 PM	TGT	EPA 8260C	
Acetone	895	ug/L	12.5	12/21/2018 1:02:00 PM	TGT	EPA 8260C	
Acrylonitrile	ND	ug/L	2.5	12/21/2018 1:02:00 PM	TGT	EPA 8260C	
Benzene	12.6	ug/L	2.5	12/21/2018 1:02:00 PM	TGT	EPA 8260C	
Bromobenzene	ND	ug/L	2.5	12/21/2018 1:02:00 PM	TGT	EPA 8260C	
Bromochloromethane	ND	ug/L	2.5	12/21/2018 1:02:00 PM	TGT	EPA 8260C	
Bromodichloromethane	ND	ug/L	2.5	12/21/2018 1:02:00 PM	TGT	EPA 8260C	
Bromoform	ND	ug/L	2.5	12/21/2018 1:02:00 PM	TGT	EPA 8260C	
Bromomethane	ND	ug/L	2.5	12/21/2018 1:02:00 PM	TGT	EPA 8260C	
Carbon disulfide	ND	ug/L	2.5	12/21/2018 1:02:00 PM	TGT	EPA 8260C	
Carbon Tetrachloride	ND	ug/L	2.5	12/21/2018 1:02:00 PM	TGT	EPA 8260C	

Certifications held by Anatek Labs ID: EPA:ID00013; AZ:0701; FL(NELAP):E87893; ID:ID00013; MT:CERT0028; NM: ID00013;NV:ID00013; OR:ID200001-002; WA:C595
Certifications held by Anatek Labs WA: EPA:WA00169; ID:WA00169; WA:C585; MT:Cert0095; FL(NELAP): E871099

Anatek Labs, Inc.

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Client: SPOKANE COUNTY UTILITIES
Address: 22515 N. ELK CHATTAROY ROAD
COLBERT, WA 99005
Attn: SVL ANALYTICAL, INC.

Batch #: 181217004
Project Name: SVL #X8L0315

Analytical Results Report

Sample Number 181217004-001
Client Sample ID GWMW-016-181212
Matrix Water
Comments

Sampling Date 12/12/2018
Sampling Time 9:50 AM
Sample Location X8L0315-01

Date/Time Received 12/13/2019:56 AM

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Chlorobenzene	ND	ug/L	2.5	12/21/2018 1:02:00 PM	TGT	EPA 8260C	
Chloroethane	10.4	ug/L	2.5	12/21/2018 1:02:00 PM	TGT	EPA 8260C	
Chloroform	ND	ug/L	2.5	12/21/2018 1:02:00 PM	TGT	EPA 8260C	
Chloromethane	ND	ug/L	2.5	12/21/2018 1:02:00 PM	TGT	EPA 8260C	
cis-1,2-dichloroethene	11.1	ug/L	2.5	12/21/2018 1:02:00 PM	TGT	EPA 8260C	
cis-1,3-Dichloropropene	ND	ug/L	2.5	12/21/2018 1:02:00 PM	TGT	EPA 8260C	
Dibromochloromethane	ND	ug/L	2.5	12/21/2018 1:02:00 PM	TGT	EPA 8260C	
Dibromomethane	ND	ug/L	2.5	12/21/2018 1:02:00 PM	TGT	EPA 8260C	
Dichlorodifluoromethane	3.09	ug/L	2.5	12/21/2018 1:02:00 PM	TGT	EPA 8260C	
Ethylbenzene	53.6	ug/L	2.5	12/21/2018 1:02:00 PM	TGT	EPA 8260C	
Hexachlorobutadiene	ND	ug/L	2.5	12/21/2018 1:02:00 PM	TGT	EPA 8260C	
Isopropylbenzene	4.37	ug/L	2.5	12/21/2018 1:02:00 PM	TGT	EPA 8260C	
m+p-Xylene	41.2	ug/L	2.5	12/21/2018 1:02:00 PM	TGT	EPA 8260C	
Methyl ethyl ketone (MEK)	391	ug/L	12.5	12/21/2018 1:02:00 PM	TGT	EPA 8260C	
Methyl isobutyl ketone (MIBK)	47.7	ug/L	12.5	12/21/2018 1:02:00 PM	TGT	EPA 8260C	
Methylene chloride	ND	ug/L	12.5	12/21/2018 1:02:00 PM	TGT	EPA 8260C	
methyl-t-butyl ether (MTBE)	ND	ug/L	2.5	12/21/2018 1:02:00 PM	TGT	EPA 8260C	
Naphthalene	14.0	ug/L	2.5	12/21/2018 1:02:00 PM	TGT	EPA 8260C	
n-Butylbenzene	ND	ug/L	2.5	12/21/2018 1:02:00 PM	TGT	EPA 8260C	
n-Propylbenzene	ND	ug/L	2.5	12/21/2018 1:02:00 PM	TGT	EPA 8260C	
o-Xylene	18.8	ug/L	2.5	12/21/2018 1:02:00 PM	TGT	EPA 8260C	
p-isopropyltoluene	6.73	ug/L	2.5	12/21/2018 1:02:00 PM	TGT	EPA 8260C	
sec-Butylbenzene	ND	ug/L	2.5	12/21/2018 1:02:00 PM	TGT	EPA 8260C	
Styrene	ND	ug/L	2.5	12/21/2018 1:02:00 PM	TGT	EPA 8260C	
tert-Butylbenzene	ND	ug/L	2.5	12/21/2018 1:02:00 PM	TGT	EPA 8260C	
Tetrachloroethene	ND	ug/L	2.5	12/21/2018 1:02:00 PM	TGT	EPA 8260C	
Toluene	25.1	ug/L	2.5	12/21/2018 1:02:00 PM	TGT	EPA 8260C	
trans-1,2-Dichloroethene	ND	ug/L	2.5	12/21/2018 1:02:00 PM	TGT	EPA 8260C	
trans-1,3-Dichloropropene	ND	ug/L	2.5	12/21/2018 1:02:00 PM	TGT	EPA 8260C	
Trichloroethene	ND	ug/L	2.5	12/21/2018 1:02:00 PM	TGT	EPA 8260C	
Trichlorofluoromethane	ND	ug/L	2.5	12/21/2018 1:02:00 PM	TGT	EPA 8260C	
Vinyl Chloride	2.89	ug/L	2.5	12/21/2018 1:02:00 PM	TGT	EPA 8260C	

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Client: SPOKANE COUNTY UTILITIES
Address: 22515 N. ELK CHATTAROY ROAD
COLBERT, WA 99005
Attn: SVL ANALYTICAL, INC.

Batch #: 181217004
Project Name: SVL #X8L0315

Analytical Results Report

Sample Number 181217004-001
Client Sample ID GWMW-016-181212
Matrix Water
Comments

Sampling Date 12/12/2018
Sampling Time 9:50 AM
Sample Location X8L0315-01

Date/Time Received 12/13/2019:56 AM

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier

Surrogate Data

Sample Number 181217004-001

Surrogate Standard	Method	Percent Recovery	Control Limits
1,2-Dichlorobenzene-d4	EPA 8260C	99.2	70-130
4-Bromofluorobenzene	EPA 8260C	101.2	70-130
Toluene-d8	EPA 8260C	101.6	70-130

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Client: SPOKANE COUNTY UTILITIES
Address: 22515 N. ELK CHATTAROY ROAD
COLBERT, WA 99005
Attn: SVL ANALYTICAL, INC.

Batch #: 181217004
Project Name: SVL #X8L0315

Analytical Results Report

Sample Number 181217004-002 **Sampling Date** 12/12/2018 **Date/Time Received** 12/13/2019:56 AM
Client Sample ID MWS-2-1-181212/TRIP BLANK **Sampling Time**
Matrix Water **Sample Location** X8L0315-02
Comments

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
1,1,1,2-Tetrachloroethane	ND	ug/L	0.5	12/21/2018 12:33:00 PM	TGT	EPA 8260C	
1,1,1-Trichloroethane	ND	ug/L	0.5	12/21/2018 12:33:00 PM	TGT	EPA 8260C	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.5	12/21/2018 12:33:00 PM	TGT	EPA 8260C	
1,1,2-Trichloroethane	ND	ug/L	0.5	12/21/2018 12:33:00 PM	TGT	EPA 8260C	
1,1-Dichloroethane	ND	ug/L	0.5	12/21/2018 12:33:00 PM	TGT	EPA 8260C	
1,1-Dichloroethene	ND	ug/L	0.5	12/21/2018 12:33:00 PM	TGT	EPA 8260C	
1,1-dichloropropene	ND	ug/L	0.5	12/21/2018 12:33:00 PM	TGT	EPA 8260C	
1,2,3-Trichlorobenzene	ND	ug/L	0.5	12/21/2018 12:33:00 PM	TGT	EPA 8260C	
1,2,3-Trichloropropane	ND	ug/L	0.5	12/21/2018 12:33:00 PM	TGT	EPA 8260C	
1,2,4-Trichlorobenzene	ND	ug/L	0.5	12/21/2018 12:33:00 PM	TGT	EPA 8260C	
1,2,4-Trimethylbenzene	ND	ug/L	0.5	12/21/2018 12:33:00 PM	TGT	EPA 8260C	
1,2-Dibromo-3-chloropropane(DBCP)	ND	ug/L	0.5	12/21/2018 12:33:00 PM	TGT	EPA 8260C	
1,2-Dibromoethane	ND	ug/L	0.5	12/21/2018 12:33:00 PM	TGT	EPA 8260C	
1,2-Dichlorobenzene	ND	ug/L	0.5	12/21/2018 12:33:00 PM	TGT	EPA 8260C	
1,2-Dichloroethane	ND	ug/L	0.5	12/21/2018 12:33:00 PM	TGT	EPA 8260C	
1,2-Dichloropropane	ND	ug/L	0.5	12/21/2018 12:33:00 PM	TGT	EPA 8260C	
1,3,5-Trimethylbenzene	ND	ug/L	0.5	12/21/2018 12:33:00 PM	TGT	EPA 8260C	
1,3-Dichlorobenzene	ND	ug/L	0.5	12/21/2018 12:33:00 PM	TGT	EPA 8260C	
1,3-Dichloropropane	ND	ug/L	0.5	12/21/2018 12:33:00 PM	TGT	EPA 8260C	
1,4-Dichlorobenzene	ND	ug/L	0.5	12/21/2018 12:33:00 PM	TGT	EPA 8260C	
2,2-Dichloropropane	ND	ug/L	0.5	12/21/2018 12:33:00 PM	TGT	EPA 8260C	
2-Chlorotoluene	ND	ug/L	0.5	12/21/2018 12:33:00 PM	TGT	EPA 8260C	
2-hexanone	ND	ug/L	2.5	12/21/2018 12:33:00 PM	TGT	EPA 8260C	
4-Chlorotoluene	ND	ug/L	0.5	12/21/2018 12:33:00 PM	TGT	EPA 8260C	
Acetone	ND	ug/L	2.5	12/21/2018 12:33:00 PM	TGT	EPA 8260C	
Acrylonitrile	ND	ug/L	0.5	12/21/2018 12:33:00 PM	TGT	EPA 8260C	
Benzene	ND	ug/L	0.5	12/21/2018 12:33:00 PM	TGT	EPA 8260C	
Bromobenzene	ND	ug/L	0.5	12/21/2018 12:33:00 PM	TGT	EPA 8260C	
Bromochloromethane	ND	ug/L	0.5	12/21/2018 12:33:00 PM	TGT	EPA 8260C	
Bromodichloromethane	ND	ug/L	0.5	12/21/2018 12:33:00 PM	TGT	EPA 8260C	
Bromoform	ND	ug/L	0.5	12/21/2018 12:33:00 PM	TGT	EPA 8260C	
Bromomethane	ND	ug/L	0.5	12/21/2018 12:33:00 PM	TGT	EPA 8260C	
Carbon disulfide	ND	ug/L	0.5	12/21/2018 12:33:00 PM	TGT	EPA 8260C	
Carbon Tetrachloride	ND	ug/L	0.5	12/21/2018 12:33:00 PM	TGT	EPA 8260C	
Chlorobenzene	ND	ug/L	0.5	12/21/2018 12:33:00 PM	TGT	EPA 8260C	

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Client: SPOKANE COUNTY UTILITIES
Address: 22515 N. ELK CHATTAROY ROAD
COLBERT, WA 99005
Attn: SVL ANALYTICAL, INC.

Batch #: 181217004
Project Name: SVL #X8L0315

Analytical Results Report

Sample Number 181217004-002 **Sampling Date** 12/12/2018 **Date/Time Received** 12/13/2019:56 AM
Client Sample ID MWS-2-1-181212/TRIP BLANK **Sampling Time**
Matrix Water **Sample Location** X8L0315-02
Comments

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Chloroethane	ND	ug/L	0.5	12/21/2018 12:33:00 PM	TGT	EPA 8260C	
Chloroform	ND	ug/L	0.5	12/21/2018 12:33:00 PM	TGT	EPA 8260C	
Chloromethane	ND	ug/L	0.5	12/21/2018 12:33:00 PM	TGT	EPA 8260C	
cis-1,2-dichloroethene	ND	ug/L	0.5	12/21/2018 12:33:00 PM	TGT	EPA 8260C	
cis-1,3-Dichloropropene	ND	ug/L	0.5	12/21/2018 12:33:00 PM	TGT	EPA 8260C	
Dibromochloromethane	ND	ug/L	0.5	12/21/2018 12:33:00 PM	TGT	EPA 8260C	
Dibromomethane	ND	ug/L	0.5	12/21/2018 12:33:00 PM	TGT	EPA 8260C	
Dichlorodifluoromethane	ND	ug/L	0.5	12/21/2018 12:33:00 PM	TGT	EPA 8260C	
Ethylbenzene	ND	ug/L	0.5	12/21/2018 12:33:00 PM	TGT	EPA 8260C	
Hexachlorobutadiene	ND	ug/L	0.5	12/21/2018 12:33:00 PM	TGT	EPA 8260C	
Isopropylbenzene	ND	ug/L	0.5	12/21/2018 12:33:00 PM	TGT	EPA 8260C	
m+p-Xylene	ND	ug/L	0.5	12/21/2018 12:33:00 PM	TGT	EPA 8260C	
Methyl ethyl ketone (MEK)	ND	ug/L	2.5	12/21/2018 12:33:00 PM	TGT	EPA 8260C	
Methyl isobutyl ketone (MIBK)	ND	ug/L	2.5	12/21/2018 12:33:00 PM	TGT	EPA 8260C	
Methylene chloride	ND	ug/L	2.5	12/21/2018 12:33:00 PM	TGT	EPA 8260C	
methyl-t-butyl ether (MTBE)	ND	ug/L	0.5	12/21/2018 12:33:00 PM	TGT	EPA 8260C	
Naphthalene	ND	ug/L	0.5	12/21/2018 12:33:00 PM	TGT	EPA 8260C	
n-Butylbenzene	ND	ug/L	0.5	12/21/2018 12:33:00 PM	TGT	EPA 8260C	
n-Propylbenzene	ND	ug/L	0.5	12/21/2018 12:33:00 PM	TGT	EPA 8260C	
o-Xylene	ND	ug/L	0.5	12/21/2018 12:33:00 PM	TGT	EPA 8260C	
p-isopropyltoluene	ND	ug/L	0.5	12/21/2018 12:33:00 PM	TGT	EPA 8260C	
sec-Butylbenzene	ND	ug/L	0.5	12/21/2018 12:33:00 PM	TGT	EPA 8260C	
Styrene	ND	ug/L	0.5	12/21/2018 12:33:00 PM	TGT	EPA 8260C	
tert-Butylbenzene	ND	ug/L	0.5	12/21/2018 12:33:00 PM	TGT	EPA 8260C	
Tetrachloroethene	ND	ug/L	0.5	12/21/2018 12:33:00 PM	TGT	EPA 8260C	
Toluene	ND	ug/L	0.5	12/21/2018 12:33:00 PM	TGT	EPA 8260C	
trans-1,2-Dichloroethene	ND	ug/L	0.5	12/21/2018 12:33:00 PM	TGT	EPA 8260C	
trans-1,3-Dichloropropene	ND	ug/L	0.5	12/21/2018 12:33:00 PM	TGT	EPA 8260C	
Trichloroethene	ND	ug/L	0.5	12/21/2018 12:33:00 PM	TGT	EPA 8260C	
Trichloroflouromethane	ND	ug/L	0.5	12/21/2018 12:33:00 PM	TGT	EPA 8260C	
Vinyl Chloride	ND	ug/L	0.5	12/21/2018 12:33:00 PM	TGT	EPA 8260C	

Anatek Labs, Inc.

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Client: SPOKANE COUNTY UTILITIES
Address: 22515 N. ELK CHATTAROY ROAD
COLBERT, WA 99005
Attn: SVL ANALYTICAL, INC.

Batch #: 181217004
Project Name: SVL #X8L0315

Analytical Results Report

Sample Number	181217004-002	**Sampling Date**	12/12/2018	**Date/Time Received**	12/13/2019:56 AM
Client Sample ID	MWS-2-1-181212/TRIP BLANK	**Sampling Time**			
Matrix	Water	**Sample Location**	X8L0315-02		
Comments					

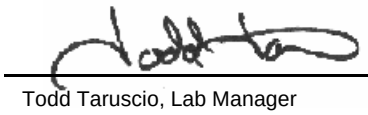
Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier

Surrogate Data

Sample Number 181217004-002

Surrogate Standard	Method	Percent Recovery	Control Limits
1,2-Dichlorobenzene-d4	EPA 8260C	101.2	70-130
4-Bromofluorobenzene	EPA 8260C	101.2	70-130
Toluene-d8	EPA 8260C	98.0	70-130

Authorized Signature



Todd Taruscio, Lab Manager

MCL EPA's Maximum Contaminant Level
ND Not Detected
PQL Practical Quantitation Limit

The results reported relate only to the samples indicated.
Soil/solid results are reported on a dry-weight basis unless otherwise noted.

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Client: SPOKANE COUNTY UTILITIES
Address: 22515 N. ELK CHATTAROY ROAD
COLBERT, WA 99005
Attn: SVL ANALYTICAL, INC.

Batch #: 181217004
Project Name: SVL #X8L0315

Analytical Results Report

Quality Control Data

Lab Control Sample

Parameter	LCS Result	Units	LCS Spike	%Rec	AR %Rec	Prep Date	Analysis Date
Trichloroethene	9.78	ug/L	10	97.8	80-120	12/21/2018	12/21/2018
Toluene	9.82	ug/L	10	98.2	80-120	12/21/2018	12/21/2018
Tetrachloroethene	9.26	ug/L	10	92.6	80-120	12/21/2018	12/21/2018
o-Xylene	9.39	ug/L	10	93.9	80-120	12/21/2018	12/21/2018
Ethylbenzene	9.39	ug/L	10	93.9	80-120	12/21/2018	12/21/2018
cis-1,2-dichloroethene	9.55	ug/L	10	95.5	80-120	12/21/2018	12/21/2018
Chloroform	9.79	ug/L	10	97.9	80-120	12/21/2018	12/21/2018
Chlorobenzene	9.34	ug/L	10	93.4	80-120	12/21/2018	12/21/2018
Benzene	9.74	ug/L	10	97.4	80-120	12/21/2018	12/21/2018
1,1-Dichloroethene	9.71	ug/L	10	97.1	80-120	12/21/2018	12/21/2018

Matrix Spike

Sample Number	Parameter	Sample Result	MS Result	Units	MS Spike	%Rec	AR %Rec	Prep Date	Analysis Date
181214036-001	Trichloroethene	ND	9.75	ug/L	10	97.5	70-130	12/21/2018	12/21/2018
181214036-001	Toluene	ND	9.73	ug/L	10	97.3	70-130	12/21/2018	12/21/2018
181214036-001	Tetrachloroethene	ND	9.31	ug/L	10	93.1	70-130	12/21/2018	12/21/2018
181214036-001	o-Xylene	ND	9.25	ug/L	10	92.5	70-130	12/21/2018	12/21/2018
181214036-001	Ethylbenzene	ND	9.21	ug/L	10	92.1	70-130	12/21/2018	12/21/2018
181214036-001	cis-1,2-dichloroethene	ND	9.14	ug/L	10	91.4	70-130	12/21/2018	12/21/2018
181214036-001	Chloroform	ND	9.60	ug/L	10	96.0	70-130	12/21/2018	12/21/2018
181214036-001	Chlorobenzene	ND	8.98	ug/L	10	89.8	70-130	12/21/2018	12/21/2018
181214036-001	Benzene	ND	9.55	ug/L	10	95.5	70-130	12/21/2018	12/21/2018
181214036-001	1,1-Dichloroethene	ND	9.44	ug/L	10	94.4	70-130	12/21/2018	12/21/2018

Method Blank

Parameter	Result	Units	PQL	Prep Date	Analysis Date
1,1,1,2-Tetrachloroethane	ND	ug/L	0.5	12/21/2018	12/21/2018
1,1,1-Trichloroethane	ND	ug/L	0.5	12/21/2018	12/21/2018
1,1,2,2-Tetrachloroethane	ND	ug/L	0.5	12/21/2018	12/21/2018
1,1,2-Trichloroethane	ND	ug/L	0.5	12/21/2018	12/21/2018
1,1-Dichloroethane	ND	ug/L	0.5	12/21/2018	12/21/2018
1,1-Dichloroethene	ND	ug/L	0.5	12/21/2018	12/21/2018
1,1-dichloropropene	ND	ug/L	0.5	12/21/2018	12/21/2018
1,2,3-Trichlorobenzene	ND	ug/L	0.5	12/21/2018	12/21/2018
1,2,3-Trichloropropane	ND	ug/L	0.5	12/21/2018	12/21/2018

Comments:

Certifications held by Anatek Labs ID: EPA:ID00013; AZ:0701; FL(NELAP):E87893; ID:ID00013; MT:CERT0028; NM: ID00013;NV:ID00013; OR:ID200001-002; WA:C595
Certifications held by Anatek Labs WA: EPA:WA00169; ID:WA00169; WA:C585; MT:Cert0095; FL(NELAP): E871099

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Client: SPOKANE COUNTY UTILITIES
Address: 22515 N. ELK CHATTAROY ROAD
COLBERT, WA 99005
Attn: SVL ANALYTICAL, INC.

Batch #: 181217004
Project Name: SVL #X8L0315

Analytical Results Report

Quality Control Data

Method Blank

Parameter	Result	Units	PQL	Prep Date	Analysis Date
1,2,4-Trichlorobenzene	ND	ug/L	0.5	12/21/2018	12/21/2018
1,2,4-Trimethylbenzene	ND	ug/L	0.5	12/21/2018	12/21/2018
1,2-Dibromo-3-chloropropane(DBCP)	ND	ug/L	0.5	12/21/2018	12/21/2018
1,2-Dibromoethane	ND	ug/L	0.5	12/21/2018	12/21/2018
1,2-Dichlorobenzene	ND	ug/L	0.5	12/21/2018	12/21/2018
1,2-Dichloroethane	ND	ug/L	0.5	12/21/2018	12/21/2018
1,2-Dichloropropane	ND	ug/L	0.5	12/21/2018	12/21/2018
1,3,5-Trimethylbenzene	ND	ug/L	0.5	12/21/2018	12/21/2018
1,3-Dichlorobenzene	ND	ug/L	0.5	12/21/2018	12/21/2018
1,3-Dichloropropane	ND	ug/L	0.5	12/21/2018	12/21/2018
1,4-Dichlorobenzene	ND	ug/L	0.5	12/21/2018	12/21/2018
2,2-Dichloropropane	ND	ug/L	0.5	12/21/2018	12/21/2018
2-Chlorotoluene	ND	ug/L	0.5	12/21/2018	12/21/2018
2-hexanone	ND	ug/L	2.5	12/21/2018	12/21/2018
4-Chlorotoluene	ND	ug/L	0.5	12/21/2018	12/21/2018
Acetone	ND	ug/L	2.5	12/21/2018	12/21/2018
Acrylonitrile	ND	ug/L	0.5	12/21/2018	12/21/2018
Benzene	ND	ug/L	0.5	12/21/2018	12/21/2018
Bromobenzene	ND	ug/L	0.5	12/21/2018	12/21/2018
Bromochloromethane	ND	ug/L	0.5	12/21/2018	12/21/2018
Bromodichloromethane	ND	ug/L	0.5	12/21/2018	12/21/2018
Bromoform	ND	ug/L	0.5	12/21/2018	12/21/2018
Bromomethane	ND	ug/L	0.5	12/21/2018	12/21/2018
Carbon disulfide	ND	ug/L	0.5	12/21/2018	12/21/2018
Carbon Tetrachloride	ND	ug/L	0.5	12/21/2018	12/21/2018
Chlorobenzene	ND	ug/L	0.5	12/21/2018	12/21/2018
Chloroethane	ND	ug/L	0.5	12/21/2018	12/21/2018
Chloroform	ND	ug/L	0.5	12/21/2018	12/21/2018
Chloromethane	ND	ug/L	0.5	12/21/2018	12/21/2018
cis-1,2-dichloroethene	ND	ug/L	0.5	12/21/2018	12/21/2018
cis-1,3-Dichloropropene	ND	ug/L	0.5	12/21/2018	12/21/2018
Dibromochloromethane	ND	ug/L	0.5	12/21/2018	12/21/2018
Dibromomethane	ND	ug/L	0.5	12/21/2018	12/21/2018
Dichlorodifluoromethane	ND	ug/L	0.5	12/21/2018	12/21/2018
Ethylbenzene	ND	ug/L	0.5	12/21/2018	12/21/2018
Hexachlorobutadiene	ND	ug/L	0.5	12/21/2018	12/21/2018
Isopropylbenzene	ND	ug/L	0.5	12/21/2018	12/21/2018
m+p-Xylene	ND	ug/L	0.5	12/21/2018	12/21/2018

Comments:

Certifications held by Anatek Labs ID: EPA:ID00013; AZ:0701; FL(NELAP):E87893; ID:ID00013; MT:CERT0028; NM: ID00013;NV:ID00013; OR:ID200001-002; WA:C595
Certifications held by Anatek Labs WA: EPA:WA00169; ID:WA00169; WA:C585; MT:Cert0095; FL(NELAP): E871099

Anatek Labs, Inc.

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Client: SPOKANE COUNTY UTILITIES
Address: 22515 N. ELK CHATTAROY ROAD
COLBERT, WA 99005
Attn: SVL ANALYTICAL, INC.

Batch #: 181217004
Project Name: SVL #X8L0315

Analytical Results Report

Quality Control Data

Method Blank

Parameter	Result	Units	PQL	Prep Date	Analysis Date
Methyl ethyl ketone (MEK)	ND	ug/L	2.5	12/21/2018	12/21/2018
Methyl isobutyl ketone (MIBK)	ND	ug/L	2.5	12/21/2018	12/21/2018
Methylene chloride	ND	ug/L	2.5	12/21/2018	12/21/2018
methyl-t-butyl ether (MTBE)	ND	ug/L	0.5	12/21/2018	12/21/2018
Naphthalene	ND	ug/L	0.5	12/21/2018	12/21/2018
n-Butylbenzene	ND	ug/L	0.5	12/21/2018	12/21/2018
n-Propylbenzene	ND	ug/L	0.5	12/21/2018	12/21/2018
o-Xylene	ND	ug/L	0.5	12/21/2018	12/21/2018
p-isopropyltoluene	ND	ug/L	0.5	12/21/2018	12/21/2018
sec-Butylbenzene	ND	ug/L	0.5	12/21/2018	12/21/2018
Styrene	ND	ug/L	0.5	12/21/2018	12/21/2018
tert-Butylbenzene	ND	ug/L	0.5	12/21/2018	12/21/2018
Tetrachloroethene	ND	ug/L	0.5	12/21/2018	12/21/2018
Toluene	ND	ug/L	0.5	12/21/2018	12/21/2018
trans-1,2-Dichloroethene	ND	ug/L	0.5	12/21/2018	12/21/2018
trans-1,3-Dichloropropene	ND	ug/L	0.5	12/21/2018	12/21/2018
Trichloroethene	ND	ug/L	0.5	12/21/2018	12/21/2018
Trichloroflouromethane	ND	ug/L	0.5	12/21/2018	12/21/2018
Vinyl Chloride	ND	ug/L	0.5	12/21/2018	12/21/2018

Matrix Spike Duplicate

Parameter	MSD Result	Units	MSD Spike	%Rec	%RPD	AR %RPD	Prep Date	Analysis Date
Trichloroethene	10.1	ug/L	10	101.0	3.5	0-25	12/21/2018	12/21/2018
Toluene	10.4	ug/L	10	104.0	6.7	0-25	12/21/2018	12/21/2018
Tetrachloroethene	9.56	ug/L	10	95.6	2.6	0-25	12/21/2018	12/21/2018
o-Xylene	9.76	ug/L	10	97.6	5.4	0-25	12/21/2018	12/21/2018
Ethylbenzene	9.67	ug/L	10	96.7	4.9	0-25	12/21/2018	12/21/2018
cis-1,2-dichloroethene	9.82	ug/L	10	98.2	7.2	0-25	12/21/2018	12/21/2018
Chloroform	9.93	ug/L	10	99.3	3.4	0-25	12/21/2018	12/21/2018
Chlorobenzene	9.58	ug/L	10	95.8	6.5	0-25	12/21/2018	12/21/2018
Benzene	10.0	ug/L	10	100.0	4.6	0-25	12/21/2018	12/21/2018
1,1-Dichloroethene	9.90	ug/L	10	99.0	4.8	0-25	12/21/2018	12/21/2018

AR	Acceptable Range
ND	Not Detected
PQL	Practical Quantitation Limit
RPD	Relative Percentage Difference

Comments:

Certifications held by Anatek Labs ID: EPA:ID00013; AZ:0701; FL(NELAP):E87893; ID:ID00013; MT:CERT0028; NM: ID00013;NV:ID00013; OR:ID200001-002; WA:C595
Certifications held by Anatek Labs WA: EPA:WA00169; ID:WA00169; WA:C585; MT:Cert0095; FL(NELAP): E871099

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Login Report

Customer Name: SPOKANE COUNTY UTILITIES
22515 N. ELK CHATTAROY ROAD
COLBERT WA 99005

Order ID: 181217004
Order Date: 12/17/2018

Contact Name: SVL ANALYTICAL, INC.

Project Name: SVL #X8L0315

Comment:

Sample #: 181217004-001 **Customer Sample #:** GWMW-016-181212

Recv'd: ☑ **Matrix:** Water **Collector:** **Date Collected:** 12/12/2018
Quantity: 3 **Date Received:** 12/13/2018 9:56:00 AM **Time Collected:** 9:50 AM
Comment:

Test	Lab	Method	Due Date	Priority
VOC 8260 MOSC	M	EPA 8260C	12/27/2018	***Normal (~10 Days)***

Sample #: 181217004-002 **Customer Sample #:** MWS-2-1-181212/TRIP BLANKS

Recv'd: ☑ **Matrix:** Water **Collector:** **Date Collected:** 12/12/2018
Quantity: 2 **Date Received:** 12/13/2018 9:56:00 AM **Time Collected:**
Comment:

Test	Lab	Method	Due Date	Priority
VOC 8260 MOSC	M	EPA 8260C	12/27/2018	***Normal (~10 Days)***

SAMPLE CONDITION RECORD

Samples received in a cooler?	Yes
Samples received intact?	Yes
What is the temperature of the sample(s)? (°C)	2.0
Samples received with a COC?	Yes
Samples received within holding time?	Yes
Are all sample bottles properly preserved?	Yes
Are VOC samples free of headspace?	Yes
Is there a trip blank to accompany VOC samples?	Yes
Labels and chain agree?	Yes
Total number of containers?	5

SPOKANE COUNTY CHAIN OF CUSTODY FOR GROUNDWATER SAMPLES
MICA LANDFILL COMPLIANCE MONITORING PROGRAM

181217 004 **SCOU** Last Due 12/27/2018
1st SAMP 12/12/201 1st RCVD 12/13/2018
SVL #X8L0315

LABORATORY:
ANATEK LAB-MOSCOW
1282 ALTURAS DR
MOSCOW, IDAHO 83843
(208) 883-2839
ATTENTION: JOHN CODDINGTON

CLIENT:
SPOKANE COUNTY UTILITIES
22515 N. ELK CHATTAROY RD.
COLBERT, WASHINGTON 99005
(509) 238-6607 FAX (509) 238-6812
MICA (509) 924-5223

SHIPPING CO: UPS
SHIPPING # 98117 E-K264 590 9326
OF COOLERS: 1
DATE: 12-12-18
PAGE 1 OF 1

PARAMETERS:			VOLATILES	SEMI VOLATILES BEHP	SAMPLERS: K. McClarty		
METHOD:			8260B	8270C			
BOTTLES:			3-40 ml. VOA'S	1 LITER AMBER GLASS			
LAB:			ANATEK LAB	ANATEK LAB			
PRESERVATION:			HCl pH<2	UNPRESERVED	NUMBER OF BOTTLES	COOLER NUMBER	COMMENTS
SAMPLE IDENTIFICATION	DATE	TIME					
GWMW-016-181212	12-12-18	0950			3	1A	
MWS-2-1-181212	12-12-18	—			2	1A	Trip-Blanks

ANATEK LABS RECEIVING LIST

- ☑ RECEIVED INTACT
- ☑ LABELS & CHAINS AGREE
- ☑ NO HEADSPACE
- ☑ ICE / ICE-PACKS PRESENT
- ☑ CUSTODY SEALS PRESENT

TEMP: 2.0 °C
THERM # 3

PRESERVATIVES: HCl
NUMBER OF CONTAINERS: 5 SHIPPED VIA: UPS
DATE & TIME: 12/13/18 956 INSPECTED BY: ANG

COMMENTS: Please e-mail a sample condition report to Austin and Mike ASAP; astewart@spokancounty.org & mterris@spokanecounty.org

RELINQUISHED BY:		RECEIVED BY:	
SIGNATURE: Kevan McClarty	DATE: 12/12/18	SIGNATURE:	DATE:
PRINT NAME: Kevan McClarty	TIME:	PRINT NAME:	TIME:
COMPANY: SPOKANE COUNTY UTILITIES LANDFILL CLOSURE		COMPANY:	

One Government Gulch - PO Box 929
Kellogg, ID 83837-0929
(208) 784-1258
www.svl.net

Spokane County Environmental Services (Colbert)
22515 N. Elk Chattaroy Road
Colbert, WA 99005

Work Order: **X8L0478**
Reported: 11-Jan-19 15:43

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
GWMW-016-181219	X8L0478-01	Ground Water	19-Dec-18 09:59	20-Dec-2018	Q5

Solid samples are analyzed on an as-received, wet-weight basis, unless otherwise requested.
Sample preparation is defined by the client as per their Data Quality Objectives.
This report supercedes any previous reports for this Work Order. The complete report includes pages for each sample, a full QC report, and a notes section.
Analyses were performed in accordance with SVL standard operating procedures and calibrations were performed and met SVL internal QC criteria.
The results presented in this report relate only to the samples, and meet all requirements of the NELAC Standards unless otherwise noted.

One Government Gulch - PO Box 929
Kellogg, ID 83837-0929
(208) 784-1258
www.svl.net

Spokane County Environmental Services (Colbert)
22515 N. Elk Chattaroy Road
Colbert, WA 99005

Work Order: **X8L0478**
Reported: 11-Jan-19 15:43

Client Sample ID: **GWMW-016-181219**
SVL Sample ID: **X8L0478-01 (Ground Water)**

Sampled: 19-Dec-18 09:59
Received: 20-Dec-18
Sampled By:

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Total)										
EPA 7470A	Mercury	< 0.00020	mg/L	0.00020	0.000093		X853029	DPW	01/02/19 14:45	M2
Metals (Total Recoverable)										
EPA 6010D	**Barium**	0.789	mg/L	0.0040	0.0019		X851306	AS	01/07/19 13:34	
EPA 6010D	Lead	< 0.0150	mg/L	0.0150	0.0049		X851306	AS	01/07/19 13:34	
EPA 6010D	**Manganese**	0.886	mg/L	0.0080	0.0034		X851306	AS	01/07/19 13:34	
EPA 6010D	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X851306	AS	01/07/19 13:34	
EPA 6010D	Zinc	< 0.010	mg/L	0.010	0.005		X851306	AS	01/07/19 13:34	
EPA 6020B	**Arsenic**	0.0692	mg/L	0.00300	0.00021		X851317	KWH	01/11/19 09:17	
Classical Chemistry Parameters										
EPA 350.1	**Ammonia as N**	0.035	mg/L	0.030	0.013		X853004	AJH	01/02/19 11:13	M2
SM 5310B	**Total Organic Carbon**	118	mg/L	10.0	3.84	10	X853024	SM	12/31/18 15:21	D2,M4

This data has been reviewed for accuracy and has been authorized for release by the Laboratory Director or designee.

Connor Williams
Project Manager

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Spokane County Environmental Services (Colbert)
22515 N. Elk Chattaroy Road
Colbert, WA 99005

Work Order: **X8L0478**
Reported: 11-Jan-19 15:43

Quality Control - BLANK Data

Method	Analyte	Units	Result	MDL	MRL	Batch ID	Analyzed	Notes
Metals (Total)								
EPA 7470A	Mercury	mg/L	<0.00020	0.000093	0.00020	X853029	02-Jan-19	
Metals (Total Recoverable)								
EPA 6010D	Barium	mg/L	<0.0040	0.0019	0.0040	X851306	07-Jan-19	
EPA 6010D	Lead	mg/L	<0.0150	0.0049	0.0150	X851306	07-Jan-19	
EPA 6010D	Manganese	mg/L	<0.0080	0.0034	0.0080	X851306	07-Jan-19	
EPA 6010D	Vanadium	mg/L	<0.0050	0.0019	0.0050	X851306	07-Jan-19	
EPA 6010D	Zinc	mg/L	<0.010	0.005	0.010	X851306	07-Jan-19	
EPA 6020B	Arsenic	mg/L	<0.00300	0.00021	0.00300	X851317	11-Jan-19	
Classical Chemistry Parameters								
EPA 350.1	Ammonia as N	mg/L	<0.030	0.013	0.030	X853004	02-Jan-19	
SM 5310B	Total Organic Carbon	mg/L	<1.00	0.38	1.00	X853024	31-Dec-18	

Quality Control - LABORATORY CONTROL SAMPLE Data

Method	Analyte	Units	LCS Result	LCS True	% Rec.	Acceptance Limits	Batch ID	Analyzed	Notes
Metals (Total)									
EPA 7470A	Mercury	mg/L	0.00496	0.00500	99.2	80 - 120	X853029	02-Jan-19	
Metals (Total Recoverable)									
EPA 6010D	Barium	mg/L	1.04	1.00	104	80 - 120	X851306	07-Jan-19	
EPA 6010D	Lead	mg/L	0.984	1.00	98.4	80 - 120	X851306	07-Jan-19	
EPA 6010D	Manganese	mg/L	1.01	1.00	101	80 - 120	X851306	07-Jan-19	
EPA 6010D	Vanadium	mg/L	1.02	1.00	102	80 - 120	X851306	07-Jan-19	
EPA 6010D	Zinc	mg/L	0.983	1.00	98.3	80 - 120	X851306	07-Jan-19	
EPA 6020B	Arsenic	mg/L	0.0234	0.0250	93.7	80 - 120	X851317	11-Jan-19	
Classical Chemistry Parameters									
EPA 350.1	Ammonia as N	mg/L	1.00	1.00	100	90 - 110	X853004	02-Jan-19	
SM 5310B	Total Organic Carbon	mg/L	37.0	34.3	108	90 - 110	X853024	31-Dec-18	

Quality Control - DUPLICATE Data

Method	Analyte	Units	Duplicate Result	Sample Result	RPD	RPD Limit	Batch ID	Analyzed	Notes
Classical Chemistry Parameters									
SM 5310B	Total Organic Carbon	mg/L	<1.00	<1.00	<RL	20	X853024	31-Dec-18	

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Spokane County Environmental Services (Colbert)
22515 N. Elk Chattaroy Road
Colbert, WA 99005

Work Order: **X8L0478**
Reported: 11-Jan-19 15:43

Quality Control - MATRIX SPIKE Data

Method	Analyte	Units	Spike Result	Sample Result (R)	Spike Level (S)	% Recovery	Acceptance Limits	Batch ID	Analyzed	Notes
Metals (Total)										
EPA 7470A	Mercury	mg/L	0.00041	<0.00020	0.00100	41.3	75 - 125	X853029	02-Jan-19	M2
Metals (Total Recoverable)										
EPA 6010D	Barium	mg/L	1.81	0.789	1.00	102	75 - 125	X851306	07-Jan-19	
EPA 6010D	Lead	mg/L	0.946	<0.0150	1.00	94.6	75 - 125	X851306	07-Jan-19	
EPA 6010D	Manganese	mg/L	1.84	0.886	1.00	95.4	75 - 125	X851306	07-Jan-19	
EPA 6010D	Vanadium	mg/L	1.02	<0.0050	1.00	102	75 - 125	X851306	07-Jan-19	
EPA 6010D	Zinc	mg/L	0.919	<0.010	1.00	91.9	75 - 125	X851306	07-Jan-19	
EPA 6020B	Arsenic	mg/L	0.0922	0.0692	0.0250	91.8	75 - 125	X851317	11-Jan-19	
Classical Chemistry Parameters										
EPA 350.1	Ammonia as N	mg/L	0.907	0.035	1.00	87.2	90 - 110	X853004	02-Jan-19	M2
EPA 350.1	Ammonia as N	mg/L	1.27	0.291	1.00	97.8	90 - 110	X853004	02-Jan-19	
SM 5310B	Total Organic Carbon	mg/L	11.5	<1.00	10.0	106	80 - 120	X853024	31-Dec-18	
SM 5310B	Total Organic Carbon	mg/L	142	118	10.0	0.30R>S	80 - 120	X853024	31-Dec-18	D2,M4

Quality Control - MATRIX SPIKE DUPLICATE Data

Method	Analyte	Units	MSD Result	Spike Result	Spike Level	% Rec.	RPD	RPD Limit	Batch ID	Analyzed	Notes
Metals (Total)											
EPA 7470A	Mercury	mg/L	0.00040	0.00041	0.00100	40.2	2.7	20	X853029	02-Jan-19	M2
Metals (Total Recoverable)											
EPA 6010D	Barium	mg/L	1.82	1.81	1.00	103	0.6	20	X851306	07-Jan-19	
EPA 6010D	Lead	mg/L	0.931	0.946	1.00	93.1	1.6	20	X851306	07-Jan-19	
EPA 6010D	Manganese	mg/L	1.86	1.84	1.00	97.7	1.3	20	X851306	07-Jan-19	
EPA 6010D	Vanadium	mg/L	1.00	1.02	1.00	100	1.3	20	X851306	07-Jan-19	
EPA 6010D	Zinc	mg/L	0.907	0.919	1.00	90.7	1.2	20	X851306	07-Jan-19	
EPA 6020B	Arsenic	mg/L	0.0931	0.0922	0.0250	95.5	1.0	20	X851317	11-Jan-19	
Classical Chemistry Parameters											
EPA 350.1	Ammonia as N	mg/L	0.914	0.907	1.00	87.9	0.8	20	X853004	02-Jan-19	M2
SM 5310B	Total Organic Carbon	mg/L	11.5	11.5	10.0	106	0.1	20	X853024	31-Dec-18	
SM 5310B	Total Organic Carbon	mg/L	130	142	10.0	0.30R>S	8.3	20	X853024	31-Dec-18	D2,M4

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Spokane County Environmental Services (Colbert)		
22515 N. Elk Chattaroy Road	Work Order:	**X8L0478**
Colbert, WA 99005	Reported:	11-Jan-19 15:43

Notes and Definitions

D2	Sample required dilution due to high concentration of target analyte.
M2	Matrix spike recovery was low, but the LCS recovery was acceptable.
M4	The analysis of the spiked sample required a dilution such that the spike recovery calculation does not provide useful information. The LCS recovery was acceptable.
Q5	Sample was received with inadequate preservation, but preserved by the laboratory.
LCS	Laboratory Control Sample (Blank Spike)
RPD	Relative Percent Difference
UDL	A result is less than the detection limit
0.30R>S	% recovery not applicable; spike level is less than 30% of the sample concentration
<RL	A result is less than the reporting limit
MRL	Method Reporting Limit
MDL	Method Detection Limit
N/A	Not Applicable

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Spokane County Environmental Services (Colbert)
22515 N. Elk Chattaroy Road
Colbert, WA 99005

Work Order: **X9D0291**
Reported: 26-Apr-19 14:27

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Sampled By	Date Received	Notes
GWDW-001-190410	X9D0291-01	Ground Water	10-Apr-19 08:31	MT/KM/GF	11-Apr-2019	
GWDW-002-190410	X9D0291-02	Ground Water	10-Apr-19 10:51	MT/KM/GF	11-Apr-2019	
GWDW-003-190410	X9D0291-03	Ground Water	10-Apr-19 09:46	MT/KM/GF	11-Apr-2019	
GWMS-004-190410	X9D0291-04	Ground Water	10-Apr-19 13:27	MT/KM/GF	11-Apr-2019	
GWMW-009-190410	X9D0291-05	Ground Water	10-Apr-19 11:00	MT/KM/GF	11-Apr-2019	
GWMW-010-190410	X9D0291-06	Ground Water	10-Apr-19 10:00	MT/KM/GF	11-Apr-2019	
GWMW-013-190410	X9D0291-07	Ground Water	10-Apr-19 13:11	MT/KM/GF	11-Apr-2019	
GWMW-014-190410	X9D0291-08	Ground Water	10-Apr-19 09:27	MT/KM/GF	11-Apr-2019	
GWMW-019R-190410	X9D0291-09	Ground Water	10-Apr-19 14:00	MT/KM/GF	11-Apr-2019	
GWMW-029-190410	X9D0291-10	Ground Water	10-Apr-19 13:00	MT/KM/GF	11-Apr-2019	
GWMW-031-190410	X9D0291-11	Ground Water	10-Apr-19 10:39	MT/KM/GF	11-Apr-2019	
MWS-1-2-190410	X9D0291-12	Ground Water	10-Apr-19 13:30	MT/KM/GF	11-Apr-2019	

Solid samples are analyzed on an as-received, wet-weight basis, unless otherwise requested.
Sample preparation is defined by the client as per their Data Quality Objectives.
This report supercedes any previous reports for this Work Order. The complete report includes pages for each sample, a full QC report, and a notes section.
Analyses were performed in accordance with SVL standard operating procedures and calibrations were performed and met SVL internal QC criteria.
The results presented in this report relate only to the samples, and meet all requirements of the NELAC Standards unless otherwise noted.

Case Narrative: X9D0291

SVL is not certified for Mercury 7470A in Washington.

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Spokane County Environmental Services (Colbert)
22515 N. Elk Chattaroy Road
Colbert, WA 99005

Work Order: **X9D0291**
Reported: 26-Apr-19 14:27

Client Sample ID: **GWDW-001-190410**
SVL Sample ID: **X9D0291-01 (Ground Water)**

Sampled: 10-Apr-19 08:31
Received: 11-Apr-19
Sampled By: MT/KM/GF

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Total)										
EPA 7470A	Mercury	< 0.00020	mg/L	0.00020	0.000093		X917123	MWD	04/25/19 11:15	
Metals (Total Recoverable)										
EPA 6010D	**Barium**	0.0262	mg/L	0.0040	0.0019		X916037	AS	04/25/19 13:45	
EPA 6010D	Lead	< 0.0150	mg/L	0.0150	0.0049		X916037	AS	04/25/19 13:45	
EPA 6010D	**Manganese**	0.0080	mg/L	0.0080	0.0034		X916037	AS	04/25/19 13:45	
EPA 6010D	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X916037	AS	04/25/19 13:45	
EPA 6010D	**Zinc**	0.355	mg/L	0.010	0.005		X916037	AS	04/25/19 13:45	
EPA 6020B	Arsenic	< 0.00300	mg/L	0.00300	0.00021		X916091	KWH	04/25/19 06:48	
Classical Chemistry Parameters										
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X916243	APH	04/19/19 08:26	
SM 2320 B	**Total Alkalinity**	141	mg/L as CaCO3	1.0			X917037	KAG	04/23/19 11:20	
SM 2320 B	**Bicarbonate**	141	mg/L as CaCO3	1.0			X917037	KAG	04/23/19 11:20	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X917037	KAG	04/23/19 11:20	
SM 5310B	**Total Organic Carbon**	1.13	mg/L	1.00	0.38		X916132	APH	04/16/19 16:26	
Anions by Ion Chromatography										
EPA 300.0	**Chloride**	11.3	mg/L	0.20	0.14		X915238	AJH	04/11/19 16:04	
EPA 300.0	**Nitrate as N**	0.268	mg/L	0.050	0.043		X915238	AJH	04/11/19 16:04	
EPA 300.0	**Sulfate as SO4**	8.87	mg/L	0.30	0.18		X915238	AJH	04/11/19 16:04	

This data has been reviewed for accuracy and has been authorized for release by the Laboratory Director or designee.

Dianne Gardner
Project Manager

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Spokane County Environmental Services (Colbert)
22515 N. Elk Chattaroy Road
Colbert, WA 99005

Work Order: **X9D0291**
Reported: 26-Apr-19 14:27

Client Sample ID: **GWDW-002-190410**
SVL Sample ID: **X9D0291-02 (Ground Water)**

Sampled: 10-Apr-19 10:51
Received: 11-Apr-19
Sampled By: MT/KM/GF

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Total)										
EPA 7470A	Mercury	< 0.00020	mg/L	0.00020	0.000093		X917123	MWD	04/25/19 11:16	
Metals (Total Recoverable)										
EPA 6010D	**Barium**	0.0384	mg/L	0.0040	0.0019		X916037	AS	04/25/19 13:48	
EPA 6010D	Lead	< 0.0150	mg/L	0.0150	0.0049		X916037	AS	04/25/19 13:48	
EPA 6010D	**Manganese**	0.0250	mg/L	0.0080	0.0034		X916037	AS	04/25/19 13:48	
EPA 6010D	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X916037	AS	04/25/19 13:48	
EPA 6010D	**Zinc**	0.772	mg/L	0.010	0.005		X916037	AS	04/25/19 13:48	
EPA 6020B	Arsenic	< 0.00300	mg/L	0.00300	0.00021		X916091	KWH	04/25/19 06:51	
Classical Chemistry Parameters										
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X916243	APH	04/19/19 08:29	
SM 2320 B	**Total Alkalinity**	152	mg/L as CaCO3	1.0			X917037	KAG	04/23/19 11:27	
SM 2320 B	**Bicarbonate**	152	mg/L as CaCO3	1.0			X917037	KAG	04/23/19 11:27	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X917037	KAG	04/23/19 11:27	
SM 5310B	**Total Organic Carbon**	1.01	mg/L	1.00	0.38		X916132	APH	04/16/19 16:39	
Anions by Ion Chromatography										
EPA 300.0	**Chloride**	8.51	mg/L	0.20	0.14		X915238	AJH	04/11/19 16:29	
EPA 300.0	**Nitrate as N**	1.19	mg/L	0.050	0.043		X915238	AJH	04/11/19 16:29	
EPA 300.0	**Sulfate as SO4**	5.87	mg/L	0.30	0.18		X915238	AJH	04/11/19 16:29	

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Dianne Gardner
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Spokane County Environmental Services (Colbert)
22515 N. Elk Chattaroy Road
Colbert, WA 99005

Work Order: **X9D0291**
Reported: 26-Apr-19 14:27

Client Sample ID: **GWDW-003-190410**
SVL Sample ID: **X9D0291-03 (Ground Water)**

Sampled: 10-Apr-19 09:46
Received: 11-Apr-19
Sampled By: MT/KM/GF

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Total)										
EPA 7470A	Mercury	< 0.00020	mg/L	0.00020	0.000093		X917123	MWD	04/25/19 11:18	
Metals (Total Recoverable)										
EPA 6010D	**Barium**	0.0303	mg/L	0.0040	0.0019		X916037	AS	04/25/19 13:51	
EPA 6010D	Lead	< 0.0150	mg/L	0.0150	0.0049		X916037	AS	04/25/19 13:51	
EPA 6010D	Manganese	< 0.0080	mg/L	0.0080	0.0034		X916037	AS	04/25/19 13:51	
EPA 6010D	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X916037	AS	04/25/19 13:51	
EPA 6010D	**Zinc**	0.272	mg/L	0.010	0.005		X916037	AS	04/25/19 13:51	
EPA 6020B	Arsenic	< 0.00300	mg/L	0.00300	0.00021		X916091	KWH	04/25/19 06:53	
Classical Chemistry Parameters										
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X916243	APH	04/19/19 08:32	
SM 2320 B	**Total Alkalinity**	177	mg/L as CaCO3	1.0			X917037	KAG	04/23/19 11:34	
SM 2320 B	**Bicarbonate**	177	mg/L as CaCO3	1.0			X917037	KAG	04/23/19 11:34	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X917037	KAG	04/23/19 11:34	
SM 5310B	Total Organic Carbon	< 1.00	mg/L	1.00	0.38		X916132	APH	04/16/19 16:52	
Anions by Ion Chromatography										
EPA 300.0	**Chloride**	0.85	mg/L	0.20	0.14		X915238	AJH	04/11/19 16:55	
EPA 300.0	**Nitrate as N**	2.38	mg/L	0.050	0.043		X915238	AJH	04/11/19 16:55	
EPA 300.0	**Sulfate as SO4**	1.56	mg/L	0.30	0.18		X915238	AJH	04/11/19 16:55	

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Dianne Gardner
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Spokane County Environmental Services (Colbert)
22515 N. Elk Chattaroy Road
Colbert, WA 99005

Work Order: **X9D0291**
Reported: 26-Apr-19 14:27

Client Sample ID: **GWMS-004-190410**
SVL Sample ID: **X9D0291-04 (Ground Water)**

Sampled: 10-Apr-19 13:27
Received: 11-Apr-19
Sampled By: MT/KM/GF

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Total)										
EPA 7470A	Mercury	< 0.00020	mg/L	0.00020	0.000093		X917123	MWD	04/25/19 11:22	
Metals (Total Recoverable)										
EPA 6010D	**Barium**	0.0718	mg/L	0.0040	0.0019		X916037	AS	04/25/19 13:55	
EPA 6010D	Lead	< 0.0150	mg/L	0.0150	0.0049		X916037	AS	04/25/19 13:55	
EPA 6010D	Manganese	< 0.0080	mg/L	0.0080	0.0034		X916037	AS	04/25/19 13:55	
EPA 6010D	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X916037	AS	04/25/19 13:55	
EPA 6010D	Zinc	< 0.010	mg/L	0.010	0.005		X916037	AS	04/25/19 13:55	
EPA 6020B	Arsenic	< 0.00300	mg/L	0.00300	0.00021		X916091	KWH	04/25/19 06:55	
Classical Chemistry Parameters										
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X916243	APH	04/19/19 08:35	
SM 2320 B	**Total Alkalinity**	125	mg/L as CaCO3	1.0			X917037	KAG	04/23/19 11:51	
SM 2320 B	**Bicarbonate**	125	mg/L as CaCO3	1.0			X917037	KAG	04/23/19 11:51	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X917037	KAG	04/23/19 11:51	
SM 2540 C	**Total Diss. Solids**	211	mg/L	10			X916078	TL	04/16/19 12:45	
SM 5310B	**Total Organic Carbon**	1.13	mg/L	1.00	0.38		X916132	APH	04/17/19 10:38	
Anions by Ion Chromatography										
EPA 300.0	**Chloride**	0.49	mg/L	0.20	0.14		X915238	AJH	04/11/19 17:21	
EPA 300.0	**Nitrate as N**	4.70	mg/L	0.050	0.043		X915238	AJH	04/11/19 17:21	
EPA 300.0	**Sulfate as SO4**	10.8	mg/L	0.30	0.18		X915238	AJH	04/11/19 17:21	

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Spokane County Environmental Services (Colbert)
22515 N. Elk Chattaroy Road
Colbert, WA 99005

Work Order: **X9D0291**
Reported: 26-Apr-19 14:27

Client Sample ID: **GWMW-009-190410**
SVL Sample ID: **X9D0291-05 (Ground Water)**

Sampled: 10-Apr-19 11:00
Received: 11-Apr-19
Sampled By: MT/KM/GF

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Total)										
EPA 7470A	Mercury	< 0.00020	mg/L	0.00020	0.000093		X917123	MWD	04/25/19 11:27	
Metals (Total Recoverable)										
EPA 6010D	**Barium**	0.129	mg/L	0.0040	0.0019		X916037	AS	04/25/19 13:58	
EPA 6010D	Lead	< 0.0150	mg/L	0.0150	0.0049		X916037	AS	04/25/19 13:58	
EPA 6010D	**Manganese**	0.219	mg/L	0.0080	0.0034		X916037	AS	04/25/19 13:58	
EPA 6010D	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X916037	AS	04/25/19 13:58	
EPA 6010D	Zinc	< 0.010	mg/L	0.010	0.005		X916037	AS	04/25/19 13:58	
EPA 6020B	Arsenic	< 0.00300	mg/L	0.00300	0.00021		X916091	KWH	04/25/19 06:57	
Classical Chemistry Parameters										
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X916243	APH	04/19/19 08:38	
SM 2320 B	**Total Alkalinity**	198	mg/L as CaCO3	1.0			X917037	KAG	04/23/19 11:58	
SM 2320 B	**Bicarbonate**	198	mg/L as CaCO3	1.0			X917037	KAG	04/23/19 11:58	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X917037	KAG	04/23/19 11:58	
SM 2540 C	**Total Diss. Solids**	238	mg/L	10			X916078	TL	04/16/19 12:45	
SM 5310B	**Total Organic Carbon**	2.34	mg/L	1.00	0.38		X916132	APH	04/17/19 10:51	
Anions by Ion Chromatography										
EPA 300.0	**Chloride**	18.0	mg/L	2.00	1.40	10	X915238	AJH	04/11/19 18:25	D2
EPA 300.0	Nitrate as N	< 0.050	mg/L	0.050	0.043		X915238	AJH	04/11/19 18:12	
EPA 300.0	**Sulfate as SO4**	3.21	mg/L	0.30	0.18		X915238	AJH	04/11/19 18:12	

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Spokane County Environmental Services (Colbert)
22515 N. Elk Chattaroy Road
Colbert, WA 99005

Work Order: **X9D0291**
Reported: 26-Apr-19 14:27

Client Sample ID: **GWMW-010-190410**
SVL Sample ID: **X9D0291-06 (Ground Water)**

Sampled: 10-Apr-19 10:00
Received: 11-Apr-19
Sampled By: MT/KM/GF

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Total)										
EPA 7470A	Mercury	< 0.00020	mg/L	0.00020	0.000093		X917123	MWD	04/25/19 11:29	
Metals (Total Recoverable)										
EPA 6010D	**Barium**	0.0482	mg/L	0.0040	0.0019		X916037	AS	04/25/19 14:01	
EPA 6010D	Lead	< 0.0150	mg/L	0.0150	0.0049		X916037	AS	04/25/19 14:01	
EPA 6010D	Manganese	< 0.0080	mg/L	0.0080	0.0034		X916037	AS	04/25/19 14:01	
EPA 6010D	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X916037	AS	04/25/19 14:01	
EPA 6010D	Zinc	< 0.010	mg/L	0.010	0.005		X916037	AS	04/25/19 14:01	
EPA 6020B	Arsenic	< 0.00300	mg/L	0.00300	0.00021		X916091	KWH	04/25/19 07:03	
Classical Chemistry Parameters										
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X916243	APH	04/19/19 08:51	
SM 2320 B	**Total Alkalinity**	91.5	mg/L as CaCO3	1.0			X917037	KAG	04/23/19 12:05	
SM 2320 B	**Bicarbonate**	91.5	mg/L as CaCO3	1.0			X917037	KAG	04/23/19 12:05	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X917037	KAG	04/23/19 12:05	
SM 2540 C	**Total Diss. Solids**	130	mg/L	10			X916078	TL	04/16/19 12:45	
SM 5310B	Total Organic Carbon	< 1.00	mg/L	1.00	0.38		X916132	APH	04/17/19 11:04	
Anions by Ion Chromatography										
EPA 300.0	**Chloride**	0.38	mg/L	0.20	0.14		X915238	AJH	04/11/19 18:37	
EPA 300.0	**Nitrate as N**	0.244	mg/L	0.050	0.043		X915238	AJH	04/11/19 18:37	
EPA 300.0	**Sulfate as SO4**	0.78	mg/L	0.30	0.18		X915238	AJH	04/11/19 18:37	

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Spokane County Environmental Services (Colbert)
22515 N. Elk Chattaroy Road
Colbert, WA 99005

Work Order: **X9D0291**
Reported: 26-Apr-19 14:27

Client Sample ID: **GWMW-013-190410**
SVL Sample ID: **X9D0291-07 (Ground Water)**

Sampled: 10-Apr-19 13:11
Received: 11-Apr-19
Sampled By: MT/KM/GF

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Total)										
EPA 7470A	Mercury	< 0.00020	mg/L	0.00020	0.000093		X917123	MWD	04/25/19 11:31	
Metals (Total Recoverable)										
EPA 6010D	**Barium**	0.0568	mg/L	0.0040	0.0019		X916037	AS	04/25/19 14:04	
EPA 6010D	Lead	< 0.0150	mg/L	0.0150	0.0049		X916037	AS	04/25/19 14:04	
EPA 6010D	Manganese	< 0.0080	mg/L	0.0080	0.0034		X916037	AS	04/25/19 14:04	
EPA 6010D	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X916037	AS	04/25/19 14:04	
EPA 6010D	Zinc	< 0.010	mg/L	0.010	0.005		X916037	AS	04/25/19 14:04	
EPA 6020B	Arsenic	< 0.00300	mg/L	0.00300	0.00021		X916091	KWH	04/25/19 07:05	
Classical Chemistry Parameters										
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X916243	APH	04/19/19 08:53	
SM 2320 B	**Total Alkalinity**	193	mg/L as CaCO3	1.0			X917037	KAG	04/23/19 12:12	
SM 2320 B	**Bicarbonate**	193	mg/L as CaCO3	1.0			X917037	KAG	04/23/19 12:12	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X917037	KAG	04/23/19 12:12	
SM 2540 C	**Total Diss. Solids**	252	mg/L	10			X916078	TL	04/16/19 12:45	
SM 5310B	**Total Organic Carbon**	1.33	mg/L	1.00	0.38		X916132	APH	04/17/19 11:17	
Anions by Ion Chromatography										
EPA 300.0	**Chloride**	9.29	mg/L	0.20	0.14		X915238	AJH	04/11/19 18:50	
EPA 300.0	**Nitrate as N**	0.287	mg/L	0.050	0.043		X915238	AJH	04/11/19 18:50	
EPA 300.0	**Sulfate as SO4**	3.80	mg/L	0.30	0.18		X915238	AJH	04/11/19 18:50	

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Spokane County Environmental Services (Colbert)
22515 N. Elk Chattaroy Road
Colbert, WA 99005

Work Order: **X9D0291**
Reported: 26-Apr-19 14:27

Client Sample ID: **GWMW-014-190410**
SVL Sample ID: **X9D0291-08 (Ground Water)**

Sampled: 10-Apr-19 09:27
Received: 11-Apr-19
Sampled By: MT/KM/GF

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Total)										
EPA 7470A	Mercury	< 0.00020	mg/L	0.00020	0.000093		X917123	MWD	04/25/19 11:33	
Metals (Total Recoverable)										
EPA 6010D	Barium	< 0.0040	mg/L	0.0040	0.0019		X916037	AS	04/25/19 14:07	
EPA 6010D	Lead	< 0.0150	mg/L	0.0150	0.0049		X916037	AS	04/25/19 14:07	
EPA 6010D	**Manganese**	0.143	mg/L	0.0080	0.0034		X916037	AS	04/25/19 14:07	
EPA 6010D	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X916037	AS	04/25/19 14:07	
EPA 6010D	Zinc	< 0.010	mg/L	0.010	0.005		X916037	AS	04/25/19 14:07	
EPA 6020B	Arsenic	< 0.00300	mg/L	0.00300	0.00021		X916091	KWH	04/25/19 07:07	
Classical Chemistry Parameters										
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X916243	APH	04/19/19 08:56	
SM 2320 B	**Total Alkalinity**	74.6	mg/L as CaCO3	1.0			X917037	KAG	04/23/19 12:19	
SM 2320 B	**Bicarbonate**	74.6	mg/L as CaCO3	1.0			X917037	KAG	04/23/19 12:19	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X917037	KAG	04/23/19 12:19	
SM 2540 C	**Total Diss. Solids**	113	mg/L	10			X916078	TL	04/16/19 12:45	
SM 5310B	Total Organic Carbon	< 1.00	mg/L	1.00	0.38		X916132	APH	04/17/19 11:31	
Anions by Ion Chromatography										
EPA 300.0	**Chloride**	0.75	mg/L	0.20	0.14		X915238	AJH	04/11/19 19:16	
EPA 300.0	Nitrate as N	< 0.050	mg/L	0.050	0.043		X915238	AJH	04/11/19 19:16	
EPA 300.0	**Sulfate as SO4**	8.73	mg/L	0.30	0.18		X915238	AJH	04/11/19 19:16	

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Spokane County Environmental Services (Colbert)
22515 N. Elk Chattaroy Road
Colbert, WA 99005

Work Order: **X9D0291**
Reported: 26-Apr-19 14:27

Client Sample ID: **GWMW-019R-190410**
SVL Sample ID: **X9D0291-09 (Ground Water)**

Sampled: 10-Apr-19 14:00
Received: 11-Apr-19
Sampled By: MT/KM/GF

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Total)										
EPA 7470A	Mercury	< 0.00020	mg/L	0.00020	0.000093		X917123	MWD	04/25/19 11:34	
Metals (Total Recoverable)										
EPA 6010D	**Barium**	0.0405	mg/L	0.0040	0.0019		X916037	AS	04/26/19 07:12	
EPA 6010D	Lead	< 0.0150	mg/L	0.0150	0.0049		X916037	AS	04/26/19 07:12	
EPA 6010D	Manganese	< 0.0080	mg/L	0.0080	0.0034		X916037	AS	04/26/19 07:12	
EPA 6010D	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X916037	AS	04/26/19 07:12	
EPA 6010D	Zinc	< 0.010	mg/L	0.010	0.005		X916037	AS	04/26/19 07:12	
EPA 6020B	Arsenic	< 0.00300	mg/L	0.00300	0.00021		X916091	KWH	04/25/19 07:10	
Classical Chemistry Parameters										
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X916243	APH	04/19/19 08:59	
SM 2320 B	**Total Alkalinity**	112	mg/L as CaCO3	1.0			X917037	KAG	04/23/19 12:26	
SM 2320 B	**Bicarbonate**	112	mg/L as CaCO3	1.0			X917037	KAG	04/23/19 12:26	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X917037	KAG	04/23/19 12:26	
SM 2540 C	**Total Diss. Solids**	174	mg/L	10			X916078	TL	04/16/19 12:45	
SM 5310B	**Total Organic Carbon**	1.30	mg/L	1.00	0.38		X916132	APH	04/17/19 11:44	
Anions by Ion Chromatography										
EPA 300.0	**Chloride**	7.80	mg/L	0.20	0.14		X915238	AJH	04/11/19 19:41	
EPA 300.0	**Nitrate as N**	1.38	mg/L	0.050	0.043		X915238	AJH	04/11/19 19:41	
EPA 300.0	**Sulfate as SO4**	5.33	mg/L	0.30	0.18		X915238	AJH	04/11/19 19:41	

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Spokane County Environmental Services (Colbert)
22515 N. Elk Chattaroy Road
Colbert, WA 99005

Work Order: **X9D0291**
Reported: 26-Apr-19 14:27

Client Sample ID: **GWMW-029-190410**
SVL Sample ID: **X9D0291-10 (Ground Water)**

Sampled: 10-Apr-19 13:00
Received: 11-Apr-19
Sampled By: MT/KM/GF

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Total)										
EPA 7470A	Mercury	< 0.00020	mg/L	0.00020	0.000093		X917123	MWD	04/25/19 11:36	
Metals (Total Recoverable)										
EPA 6010D	**Barium**	0.100	mg/L	0.0040	0.0019		X916037	AS	04/26/19 07:15	
EPA 6010D	Lead	< 0.0150	mg/L	0.0150	0.0049		X916037	AS	04/26/19 07:15	
EPA 6010D	Manganese	< 0.0080	mg/L	0.0080	0.0034		X916037	AS	04/26/19 07:15	
EPA 6010D	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X916037	AS	04/26/19 07:15	
EPA 6010D	Zinc	< 0.010	mg/L	0.010	0.005		X916037	AS	04/26/19 07:15	
EPA 6020B	Arsenic	< 0.00300	mg/L	0.00300	0.00021		X916091	KWH	04/25/19 07:12	
Classical Chemistry Parameters										
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X916243	APH	04/19/19 09:02	
SM 2320 B	**Total Alkalinity**	72.4	mg/L as CaCO3	1.0			X917037	KAG	04/23/19 12:33	
SM 2320 B	**Bicarbonate**	72.4	mg/L as CaCO3	1.0			X917037	KAG	04/23/19 12:33	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X917037	KAG	04/23/19 12:33	
SM 2540 C	**Total Diss. Solids**	476	mg/L	10			X916078	TL	04/16/19 12:45	
SM 5310B	Total Organic Carbon	< 1.00	mg/L	1.00	0.38		X916132	APH	04/17/19 11:57	
Anions by Ion Chromatography										
EPA 300.0	**Chloride**	144	mg/L	5.00	3.50	25	X915238	DJS	04/12/19 12:47	D2
EPA 300.0	**Nitrate as N**	0.880	mg/L	0.050	0.043		X915238	AJH	04/11/19 20:33	
EPA 300.0	**Sulfate as SO4**	6.13	mg/L	0.30	0.18		X915238	AJH	04/11/19 20:33	

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Spokane County Environmental Services (Colbert)
22515 N. Elk Chattaroy Road
Colbert, WA 99005

Work Order: **X9D0291**
Reported: 26-Apr-19 14:27

Client Sample ID: **GWMW-031-190410**
SVL Sample ID: **X9D0291-11 (Ground Water)**

Sampled: 10-Apr-19 10:39
Received: 11-Apr-19
Sampled By: MT/KM/GF

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Total)										
EPA 7470A	Mercury	< 0.00020	mg/L	0.00020	0.000093		X917123	MWD	04/25/19 11:38	
Metals (Total Recoverable)										
EPA 6010D	**Barium**	0.0386	mg/L	0.0040	0.0019		X916037	AS	04/26/19 07:17	
EPA 6010D	Lead	< 0.0150	mg/L	0.0150	0.0049		X916037	AS	04/26/19 07:17	
EPA 6010D	**Manganese**	0.0141	mg/L	0.0080	0.0034		X916037	AS	04/26/19 07:17	
EPA 6010D	**Vanadium**	0.0051	mg/L	0.0050	0.0019		X916037	AS	04/26/19 07:17	
EPA 6010D	Zinc	< 0.010	mg/L	0.010	0.005		X916037	AS	04/26/19 07:17	
EPA 6020B	Arsenic	< 0.00300	mg/L	0.00300	0.00021		X916091	KWH	04/25/19 07:14	
Classical Chemistry Parameters										
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X916243	APH	04/19/19 09:05	
SM 2320 B	**Total Alkalinity**	39.4	mg/L as CaCO3	1.0			X917037	KAG	04/23/19 12:40	
SM 2320 B	**Bicarbonate**	39.4	mg/L as CaCO3	1.0			X917037	KAG	04/23/19 12:40	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X917037	KAG	04/23/19 12:40	
SM 2540 C	**Total Diss. Solids**	61	mg/L	10			X916078	TL	04/16/19 12:45	
SM 5310B	**Total Organic Carbon**	5.45	mg/L	1.00	0.38		X916132	APH	04/17/19 12:10	
Anions by Ion Chromatography										
EPA 300.0	**Chloride**	2.31	mg/L	0.20	0.14		X915238	AJH	04/11/19 20:58	
EPA 300.0	**Nitrate as N**	0.566	mg/L	0.050	0.043		X915238	AJH	04/11/19 20:58	
EPA 300.0	**Sulfate as SO4**	3.49	mg/L	0.30	0.18		X915238	AJH	04/11/19 20:58	

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Spokane County Environmental Services (Colbert)
22515 N. Elk Chattaroy Road
Colbert, WA 99005

Work Order: **X9D0291**
Reported: 26-Apr-19 14:27

Client Sample ID: **MWS-1-2-190410**
SVL Sample ID: **X9D0291-12 (Ground Water)**

Sampled: 10-Apr-19 13:30
Received: 11-Apr-19
Sampled By: MT/KM/GF

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Total)										
EPA 7470A	Mercury	< 0.00020	mg/L	0.00020	0.000093		X917123	MWD	04/25/19 11:40	
Metals (Total Recoverable)										
EPA 6010D	**Barium**	0.100	mg/L	0.0040	0.0019		X916037	AS	04/26/19 07:20	
EPA 6010D	Lead	< 0.0150	mg/L	0.0150	0.0049		X916037	AS	04/26/19 07:20	
EPA 6010D	Manganese	< 0.0080	mg/L	0.0080	0.0034		X916037	AS	04/26/19 07:20	
EPA 6010D	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X916037	AS	04/26/19 07:20	
EPA 6010D	Zinc	< 0.010	mg/L	0.010	0.005		X916037	AS	04/26/19 07:20	
EPA 6020B	Arsenic	< 0.00300	mg/L	0.00300	0.00021		X916091	KWH	04/25/19 07:16	
Classical Chemistry Parameters										
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X916243	APH	04/19/19 09:08	
SM 2320 B	**Total Alkalinity**	72.2	mg/L as CaCO3	1.0			X917037	KAG	04/23/19 12:55	
SM 2320 B	**Bicarbonate**	72.2	mg/L as CaCO3	1.0			X917037	KAG	04/23/19 12:55	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X917037	KAG	04/23/19 12:55	
SM 2540 C	**Total Diss. Solids**	499	mg/L	10			X916078	TL	04/16/19 12:45	
SM 5310B	Total Organic Carbon	< 1.00	mg/L	1.00	0.38		X916132	APH	04/17/19 12:23	
Anions by Ion Chromatography										
EPA 300.0	**Chloride**	145	mg/L	5.00	3.50	25	X915238	DJS	04/12/19 13:00	D2
EPA 300.0	**Nitrate as N**	0.933	mg/L	0.050	0.043		X915238	AJH	04/11/19 21:36	
EPA 300.0	**Sulfate as SO4**	6.07	mg/L	0.30	0.18		X915238	AJH	04/11/19 21:36	

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Spokane County Environmental Services (Colbert)
22515 N. Elk Chattaroy Road
Colbert, WA 99005

Work Order: **X9D0291**
Reported: 26-Apr-19 14:27

Quality Control - BLANK Data

Method	Analyte	Units	Result	MDL	MRL	Batch ID	Analyzed	Notes
Metals (Total)								
EPA 7470A	Mercury	mg/L	<0.00020	0.000093	0.00020	X917123	25-Apr-19	
Metals (Total Recoverable)								
EPA 6010D	Barium	mg/L	<0.0040	0.0019	0.0040	X916037	25-Apr-19	
EPA 6010D	Lead	mg/L	<0.0150	0.0049	0.0150	X916037	25-Apr-19	
EPA 6010D	Manganese	mg/L	<0.0080	0.0034	0.0080	X916037	25-Apr-19	
EPA 6010D	Vanadium	mg/L	<0.0050	0.0019	0.0050	X916037	25-Apr-19	
EPA 6010D	Zinc	mg/L	<0.010	0.005	0.010	X916037	25-Apr-19	
EPA 6020B	Arsenic	mg/L	<0.00300	0.00021	0.00300	X916091	25-Apr-19	
Classical Chemistry Parameters								
EPA 350.1	Ammonia as N	mg/L	<0.030	0.013	0.030	X916243	19-Apr-19	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	<1.0		1.0	X917037	23-Apr-19	
SM 2320 B	Bicarbonate	mg/L as CaCO3	<1.0		1.0	X917037	23-Apr-19	
SM 2320 B	Carbonate	mg/L as CaCO3	<1.0		1.0	X917037	23-Apr-19	
SM 2540 C	Total Diss. Solids	mg/L	<10		10	X916078	16-Apr-19	
SM 5310B	Total Organic Carbon	mg/L	<1.00	0.38	1.00	X916132	16-Apr-19	
SM 5310B	Total Organic Carbon	mg/L	<1.00	0.38	1.00	X916132	16-Apr-19	
Anions by Ion Chromatography								
EPA 300.0	Chloride	mg/L	<0.20	0.14	0.20	X915238	11-Apr-19	
EPA 300.0	Nitrate as N	mg/L	<0.050	0.043	0.050	X915238	11-Apr-19	
EPA 300.0	Sulfate as SO4	mg/L	<0.30	0.18	0.30	X915238	11-Apr-19	

Quality Control - LABORATORY CONTROL SAMPLE Data

Method	Analyte	Units	LCS Result	LCS True	% Rec.	Acceptance Limits	Batch ID	Analyzed	Notes
Metals (Total)									
EPA 7470A	Mercury	mg/L	0.00501	0.00500	100	80 - 120	X917123	25-Apr-19	
Metals (Total Recoverable)									
EPA 6010D	Barium	mg/L	1.01	1.00	101	80 - 120	X916037	25-Apr-19	
EPA 6010D	Lead	mg/L	0.966	1.00	96.6	80 - 120	X916037	25-Apr-19	
EPA 6010D	Manganese	mg/L	0.956	1.00	95.6	80 - 120	X916037	25-Apr-19	
EPA 6010D	Vanadium	mg/L	0.975	1.00	97.5	80 - 120	X916037	25-Apr-19	
EPA 6010D	Zinc	mg/L	0.990	1.00	99.0	80 - 120	X916037	25-Apr-19	
EPA 6020B	Arsenic	mg/L	0.0244	0.0250	97.7	80 - 120	X916091	25-Apr-19	
Classical Chemistry Parameters									
EPA 350.1	Ammonia as N	mg/L	0.998	1.00	99.8	90 - 110	X916243	19-Apr-19	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	97.7	99.3	98.4	94.3 - 106	X917037	23-Apr-19	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	404	397	102	94.3 - 106	X917037	23-Apr-19	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	9.8	9.93	98.7	94.3 - 106	X917037	23-Apr-19	
SM 2320 B	Bicarbonate	mg/L as CaCO3	97.7	99.3	98.4	95.1 - 106	X917037	23-Apr-19	
SM 2320 B	Bicarbonate	mg/L as CaCO3	387	397	97.4	95.1 - 106	X917037	23-Apr-19	
SM 2320 B	Bicarbonate	mg/L as CaCO3	9.8	9.93	98.7	95.1 - 106	X917037	23-Apr-19	
SM 5310B	Total Organic Carbon	mg/L	35.5	34.3	103	90 - 110	X916132	16-Apr-19	
SM 5310B	Total Organic Carbon	mg/L	35.0	34.3	102	90 - 110	X916132	16-Apr-19	

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Spokane County Environmental Services (Colbert)
22515 N. Elk Chattaroy Road
Colbert, WA 99005

Work Order: **X9D0291**
Reported: 26-Apr-19 14:27

Quality Control - LABORATORY CONTROL SAMPLE Data (Continued)

Method	Analyte	Units	LCS Result	LCS True	% Rec.	Acceptance Limits	Batch ID	Analyzed	Notes
Anions by Ion Chromatography									
EPA 300.0	Chloride	mg/L	2.98	3.00	99.2	90 - 110	X915238	11-Apr-19	
EPA 300.0	Nitrate as N	mg/L	1.98	2.00	99.2	90 - 110	X915238	11-Apr-19	
EPA 300.0	Sulfate as SO4	mg/L	10.1	10.0	101	90 - 110	X915238	11-Apr-19	

Quality Control - DUPLICATE Data

Method	Analyte	Units	Duplicate Result	Sample Result	RPD	RPD Limit	Batch ID	Analyzed	Notes
Classical Chemistry Parameters									
SM 2320 B	Total Alkalinity	mg/L as CaCO3	106	107	0.6	20	X917037	23-Apr-19	
SM 2320 B	Bicarbonate	mg/L as CaCO3	106	107	0.6	20	X917037	23-Apr-19	
SM 2320 B	Carbonate	mg/L as CaCO3	<1.0	<1.0	UDL	20	X917037	23-Apr-19	
SM 2540 C	Total Diss. Solids	mg/L	214	211	1.4	10	X916078	16-Apr-19	
SM 2540 C	Total Diss. Solids	mg/L	566	573	1.2	10	X916078	16-Apr-19	
SM 5310B	Total Organic Carbon	mg/L	1.55	1.62	4.4	20	X916132	17-Apr-19	

Quality Control - MATRIX SPIKE Data

Method	Analyte	Units	Spike Result	Sample Result (R)	Spike Level (S)	% Recovery	Acceptance Limits	Batch ID	Analyzed	Notes
Metals (Total)										
EPA 7470A	Mercury	mg/L	0.00106	<0.00020	0.00100	106	75 - 125	X917123	25-Apr-19	
EPA 7470A	Mercury	mg/L	0.00105	<0.00020	0.00100	105	75 - 125	X917123	25-Apr-19	
Metals (Total Recoverable)										
EPA 6010D	Barium	mg/L	1.11	0.0569	1.00	105	75 - 125	X916037	26-Apr-19	
EPA 6010D	Lead	mg/L	1.03	<0.0150	1.00	103	75 - 125	X916037	26-Apr-19	
EPA 6010D	Manganese	mg/L	1.02	<0.0080	1.00	102	75 - 125	X916037	26-Apr-19	
EPA 6010D	Vanadium	mg/L	1.04	0.0052	1.00	104	75 - 125	X916037	26-Apr-19	
EPA 6010D	Zinc	mg/L	1.04	<0.010	1.00	104	75 - 125	X916037	26-Apr-19	
EPA 6020B	Arsenic	mg/L	0.0253	<0.00300	0.0250	99.7	75 - 125	X916091	25-Apr-19	
Classical Chemistry Parameters										
EPA 350.1	Ammonia as N	mg/L	1.01	<0.030	1.00	101	90 - 110	X916243	19-Apr-19	
EPA 350.1	Ammonia as N	mg/L	0.998	<0.030	1.00	99.8	90 - 110	X916243	19-Apr-19	
SM 5310B	Total Organic Carbon	mg/L	11.8	1.62	10.0	102	80 - 120	X916132	16-Apr-19	
Anions by Ion Chromatography										
EPA 300.0	Chloride	mg/L	3.74	0.75	3.00	99.6	90 - 110	X915238	11-Apr-19	
EPA 300.0	Chloride	mg/L	5.34	2.31	3.00	101	90 - 110	X915238	11-Apr-19	
EPA 300.0	Nitrate as N	mg/L	2.02	<0.050	2.00	101	90 - 110	X915238	11-Apr-19	
EPA 300.0	Nitrate as N	mg/L	2.58	0.566	2.00	101	90 - 110	X915238	11-Apr-19	
EPA 300.0	Sulfate as SO4	mg/L	19.3	8.73	10.0	105	90 - 110	X915238	11-Apr-19	
EPA 300.0	Sulfate as SO4	mg/L	13.9	3.49	10.0	105	90 - 110	X915238	11-Apr-19	

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Spokane County Environmental Services (Colbert)
22515 N. Elk Chattaroy Road
Colbert, WA 99005

Work Order: **X9D0291**
Reported: 26-Apr-19 14:27

Quality Control - MATRIX SPIKE DUPLICATE Data

Method	Analyte	Units	MSD Result	Spike Result	Spike Level	% Rec.	RPD	RPD Limit	Batch ID	Analyzed	Notes
Metals (Total)											
EPA 7470A	Mercury	mg/L	0.00100	0.00105	0.00100	100	4.6	20	X917123	25-Apr-19	
Metals (Total Recoverable)											
EPA 6010D	Barium	mg/L	1.10	1.11	1.00	105	0.4	20	X916037	26-Apr-19	
EPA 6010D	Lead	mg/L	1.03	1.03	1.00	103	0.2	20	X916037	26-Apr-19	
EPA 6010D	Manganese	mg/L	1.01	1.02	1.00	101	0.9	20	X916037	26-Apr-19	
EPA 6010D	Vanadium	mg/L	1.04	1.04	1.00	104	0.0	20	X916037	26-Apr-19	
EPA 6010D	Zinc	mg/L	1.04	1.04	1.00	104	0.2	20	X916037	26-Apr-19	
EPA 6020B	Arsenic	mg/L	0.0252	0.0253	0.0250	99.4	0.3	20	X916091	25-Apr-19	
Classical Chemistry Parameters											
EPA 350.1	Ammonia as N	mg/L	1.03	1.01	1.00	103	2.1	20	X916243	19-Apr-19	
SM 5310B	Total Organic Carbon	mg/L	11.8	11.8	10.0	102	0.0	20	X916132	16-Apr-19	
Anions by Ion Chromatography											
EPA 300.0	Chloride	mg/L	5.34	5.34	3.00	101	0.1	20	X915238	11-Apr-19	
EPA 300.0	Nitrate as N	mg/L	2.58	2.58	2.00	101	0.1	20	X915238	11-Apr-19	
EPA 300.0	Sulfate as SO4	mg/L	14.0	13.9	10.0	105	0.3	20	X915238	11-Apr-19	

Notes and Definitions

D2	Sample required dilution due to high concentration of target analyte.
LCS	Laboratory Control Sample (Blank Spike)
RPD	Relative Percent Difference
UDL	A result is less than the detection limit
0.30R>S	% recovery not applicable; spike level is less than 30% of the sample concentration
<RL	A result is less than the reporting limit
MRL	Method Reporting Limit
MDL	Method Detection Limit
N/A	Not Applicable

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Spokane County Environmental Services (Colbert)
22515 N. Elk Chattaroy Road
Colbert, WA 99005

Work Order: **X9D0322**
Reported: 26-Apr-19 12:06

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Sampled By	Date Received	Notes
GWMW-016-190411	X9D0322-01	Ground Water	11-Apr-19 10:00	MT	12-Apr-2019	
GWMW-020-190411	X9D0322-02	Ground Water	11-Apr-19 10:07	MT	12-Apr-2019	
GWMW-023-190411	X9D0322-03	Ground Water	11-Apr-19 11:17	MT	12-Apr-2019	
MWS-1-1-190411	X9D0322-04	Ground Water	11-Apr-19 11:23	MT	12-Apr-2019	
GWMS-005-190411	X9D0322-05	Ground Water	11-Apr-19 09:17	MT	12-Apr-2019	

Solid samples are analyzed on an as-received, wet-weight basis, unless otherwise requested.
Sample preparation is defined by the client as per their Data Quality Objectives.
This report supercedes any previous reports for this Work Order. The complete report includes pages for each sample, a full QC report, and a notes section.
Analyses were performed in accordance with SVL standard operating procedures and calibrations were performed and met SVL internal QC criteria.
The results presented in this report relate only to the samples, and meet all requirements of the NELAC Standards unless otherwise noted.

Case Narrative: X9D0322

SVL is not certified for Mercury 7470A in Washington.

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Spokane County Environmental Services (Colbert)
22515 N. Elk Chattaroy Road
Colbert, WA 99005

Work Order: **X9D0322**
Reported: 26-Apr-19 12:06

Client Sample ID: **GWMW-016-190411**
SVL Sample ID: **X9D0322-01 (Ground Water)**

Sampled: 11-Apr-19 10:00
Received: 12-Apr-19
Sampled By: MT

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Total)										
EPA 7470A	Mercury	< 0.00020	mg/L	0.00020	0.000093		X917123	MWD	04/25/19 11:42	
Metals (Total Recoverable)										
EPA 6010D	**Barium**	0.750	mg/L	0.0040	0.0019		X916037	AS	04/26/19 07:23	
EPA 6010D	Lead	< 0.0150	mg/L	0.0150	0.0049		X916037	AS	04/26/19 07:23	
EPA 6010D	**Manganese**	1.51	mg/L	0.0080	0.0034		X916037	AS	04/26/19 07:23	
EPA 6010D	**Vanadium**	0.0083	mg/L	0.0050	0.0019		X916037	AS	04/26/19 07:23	
EPA 6010D	Zinc	< 0.010	mg/L	0.010	0.005		X916037	AS	04/26/19 07:23	
EPA 6020B	**Arsenic**	0.0618	mg/L	0.00300	0.00021		X916091	KWH	04/25/19 07:18	
Classical Chemistry Parameters										
EPA 350.1	**Ammonia as N**	0.198	mg/L	0.030	0.013		X916244	APH	04/19/19 10:29	
SM 2320 B	Total Alkalinity	< 1.0	mg/L as CaCO3	1.0			X917037	KAG	04/23/19 14:02	
SM 2320 B	Bicarbonate	< 1.0	mg/L as CaCO3	1.0			X917037	KAG	04/23/19 14:02	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X917037	KAG	04/23/19 14:02	
SM 2540 C	**Total Diss. Solids**	1980	mg/L	40			X916146	DKS	04/17/19 11:00	D2
SM 5310B	**Total Organic Carbon**	171	mg/L	10.0	3.84	10	X916132	APH	04/17/19 13:11	D2
Anions by Ion Chromatography										
EPA 300.0	**Chloride**	159	mg/L	10.0	7.00	50	X915297	AJH	04/12/19 16:27	D2
EPA 300.0	Nitrate as N	< 0.050	mg/L	0.050	0.043		X915297	AJH	04/12/19 16:14	
EPA 300.0	**Sulfate as SO4**	0.36	mg/L	0.30	0.18		X915297	AJH	04/12/19 16:14	

This data has been reviewed for accuracy and has been authorized for release by the Laboratory Director or designee.

Sophie Milam
Project Manager

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Spokane County Environmental Services (Colbert)
22515 N. Elk Chattaroy Road
Colbert, WA 99005

Work Order: **X9D0322**
Reported: 26-Apr-19 12:06

Client Sample ID: **GWMW-020-190411**
SVL Sample ID: **X9D0322-02 (Ground Water)**

Sampled: 11-Apr-19 10:07
Received: 12-Apr-19
Sampled By: MT

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Total)										
EPA 7470A	Mercury	< 0.00020	mg/L	0.00020	0.000093		X917123	MWD	04/25/19 11:44	
Metals (Total Recoverable)										
EPA 6010D	**Barium**	0.146	mg/L	0.0040	0.0019		X916037	AS	04/26/19 07:26	
EPA 6010D	Lead	< 0.0150	mg/L	0.0150	0.0049		X916037	AS	04/26/19 07:26	
EPA 6010D	**Manganese**	0.0158	mg/L	0.0080	0.0034		X916037	AS	04/26/19 07:26	
EPA 6010D	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X916037	AS	04/26/19 07:26	
EPA 6010D	Zinc	< 0.010	mg/L	0.010	0.005		X916037	AS	04/26/19 07:26	
EPA 6020B	Arsenic	< 0.00300	mg/L	0.00300	0.00021		X916091	KWH	04/25/19 07:20	
Classical Chemistry Parameters										
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X916244	APH	04/19/19 10:32	
SM 2320 B	**Total Alkalinity**	238	mg/L as CaCO3	1.0			X917037	KAG	04/23/19 13:32	
SM 2320 B	**Bicarbonate**	238	mg/L as CaCO3	1.0			X917037	KAG	04/23/19 13:32	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X917037	KAG	04/23/19 13:32	
SM 2540 C	**Total Diss. Solids**	330	mg/L	10			X916146	DKS	04/17/19 11:00	
SM 5310B	**Total Organic Carbon**	1.63	mg/L	1.00	0.38		X916132	APH	04/17/19 13:24	
Anions by Ion Chromatography										
EPA 300.0	**Chloride**	8.66	mg/L	0.20	0.14		X915297	AJH	04/12/19 16:40	
EPA 300.0	**Nitrate as N**	3.01	mg/L	0.500	0.430	10	X915297	AJH	04/12/19 16:52	D1
EPA 300.0	**Sulfate as SO4**	6.42	mg/L	0.30	0.18		X915297	AJH	04/12/19 16:40	

This data has been reviewed for accuracy and has been authorized for release by the Laboratory Director or designee.

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Spokane County Environmental Services (Colbert)
22515 N. Elk Chattaroy Road
Colbert, WA 99005

Work Order: **X9D0322**
Reported: 26-Apr-19 12:06

Client Sample ID: **GWMW-023-190411**
SVL Sample ID: **X9D0322-03 (Ground Water)**

Sampled: 11-Apr-19 11:17
Received: 12-Apr-19
Sampled By: MT

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Total)										
EPA 7470A	Mercury	< 0.00020	mg/L	0.00020	0.000093		X917123	MWD	04/25/19 11:49	
Metals (Total Recoverable)										
EPA 6010D	**Barium**	0.150	mg/L	0.0040	0.0019		X916037	AS	04/26/19 07:29	
EPA 6010D	Lead	< 0.0150	mg/L	0.0150	0.0049		X916037	AS	04/26/19 07:29	
EPA 6010D	**Manganese**	0.944	mg/L	0.0080	0.0034		X916037	AS	04/26/19 07:29	
EPA 6010D	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X916037	AS	04/26/19 07:29	
EPA 6010D	Zinc	< 0.010	mg/L	0.010	0.005		X916037	AS	04/26/19 07:29	
EPA 6020B	Arsenic	< 0.00300	mg/L	0.00300	0.00021		X916091	KWH	04/25/19 07:22	
Classical Chemistry Parameters										
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X916244	APH	04/19/19 10:35	
SM 2320 B	**Total Alkalinity**	360	mg/L as CaCO3	1.0			X917037	KAG	04/23/19 13:40	
SM 2320 B	**Bicarbonate**	360	mg/L as CaCO3	1.0			X917037	KAG	04/23/19 13:40	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X917037	KAG	04/23/19 13:40	
SM 2540 C	**Total Diss. Solids**	507	mg/L	10			X916146	DKS	04/17/19 11:00	
SM 5310B	**Total Organic Carbon**	2.65	mg/L	1.00	0.38		X916132	APH	04/17/19 13:38	
Anions by Ion Chromatography										
EPA 300.0	**Chloride**	54.5	mg/L	2.00	1.40	10	X915297	AJH	04/12/19 17:18	D2
EPA 300.0	Nitrate as N	< 0.050	mg/L	0.050	0.043		X915297	AJH	04/12/19 17:05	
EPA 300.0	**Sulfate as SO4**	8.42	mg/L	0.30	0.18		X915297	AJH	04/12/19 17:05	

This data has been reviewed for accuracy and has been authorized for release by the Laboratory Director or designee.

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Spokane County Environmental Services (Colbert)
22515 N. Elk Chattaroy Road
Colbert, WA 99005

Work Order: **X9D0322**
Reported: 26-Apr-19 12:06

Client Sample ID: **MWS-1-1-190411**
SVL Sample ID: **X9D0322-04 (Ground Water)**

Sampled: 11-Apr-19 11:23
Received: 12-Apr-19
Sampled By: MT

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Total)										
EPA 7470A	Mercury	< 0.00020	mg/L	0.00020	0.000093		X917123	MWD	04/25/19 11:51	
Metals (Total Recoverable)										
EPA 6010D	**Barium**	0.155	mg/L	0.0040	0.0019		X916037	AS	04/26/19 07:32	
EPA 6010D	Lead	< 0.0150	mg/L	0.0150	0.0049		X916037	AS	04/26/19 07:32	
EPA 6010D	**Manganese**	0.979	mg/L	0.0080	0.0034		X916037	AS	04/26/19 07:32	
EPA 6010D	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X916037	AS	04/26/19 07:32	
EPA 6010D	Zinc	< 0.010	mg/L	0.010	0.005		X916037	AS	04/26/19 07:32	
EPA 6020B	Arsenic	< 0.00300	mg/L	0.00300	0.00021		X916091	KWH	04/25/19 07:29	
Classical Chemistry Parameters										
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X916244	APH	04/19/19 10:47	
SM 2320 B	**Total Alkalinity**	364	mg/L as CaCO3	1.0			X917037	KAG	04/23/19 13:48	
SM 2320 B	**Bicarbonate**	364	mg/L as CaCO3	1.0			X917037	KAG	04/23/19 13:48	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X917037	KAG	04/23/19 13:48	
SM 2540 C	**Total Diss. Solids**	505	mg/L	10			X916146	DKS	04/17/19 11:00	
SM 5310B	**Total Organic Carbon**	2.63	mg/L	1.00	0.38		X916132	APH	04/17/19 13:51	
Anions by Ion Chromatography										
EPA 300.0	**Chloride**	55.0	mg/L	2.00	1.40	10	X915297	AJH	04/12/19 17:43	D2
EPA 300.0	Nitrate as N	< 0.050	mg/L	0.050	0.043		X915297	AJH	04/12/19 17:31	
EPA 300.0	**Sulfate as SO4**	8.38	mg/L	0.30	0.18		X915297	AJH	04/12/19 17:31	

This data has been reviewed for accuracy and has been authorized for release by the Laboratory Director or designee.

Sophie Milam
Project Manager

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Spokane County Environmental Services (Colbert)
22515 N. Elk Chattaroy Road
Colbert, WA 99005

Work Order: **X9D0322**
Reported: 26-Apr-19 12:06

Client Sample ID: **GWMS-005-190411**
SVL Sample ID: **X9D0322-05 (Ground Water)**

Sampled: 11-Apr-19 09:17
Received: 12-Apr-19
Sampled By: MT

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Total)										
EPA 7470A	Mercury	< 0.00020	mg/L	0.00020	0.000093		X917123	MWD	04/25/19 11:53	
Metals (Total Recoverable)										
EPA 6010D	**Barium**	0.0569	mg/L	0.0040	0.0019		X916037	AS	04/26/19 07:35	
EPA 6010D	Lead	< 0.0150	mg/L	0.0150	0.0049		X916037	AS	04/26/19 07:35	
EPA 6010D	Manganese	< 0.0080	mg/L	0.0080	0.0034		X916037	AS	04/26/19 07:35	
EPA 6010D	**Vanadium**	0.0052	mg/L	0.0050	0.0019		X916037	AS	04/26/19 07:35	
EPA 6010D	Zinc	< 0.010	mg/L	0.010	0.005		X916037	AS	04/26/19 07:35	
EPA 6020B	Arsenic	< 0.00300	mg/L	0.00300	0.00021		X916091	KWH	04/25/19 06:42	
Classical Chemistry Parameters										
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X916244	APH	04/19/19 10:50	
SM 2320 B	**Total Alkalinity**	107	mg/L as CaCO3	1.0			X917037	KAG	04/23/19 13:55	
SM 2320 B	**Bicarbonate**	107	mg/L as CaCO3	1.0			X917037	KAG	04/23/19 13:55	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X917037	KAG	04/23/19 13:55	
SM 2540 C	**Total Diss. Solids**	248	mg/L	10			X916146	DKS	04/17/19 11:00	
SM 5310B	**Total Organic Carbon**	1.62	mg/L	1.00	0.38		X916132	APH	04/17/19 14:04	
Anions by Ion Chromatography										
EPA 300.0	**Chloride**	27.9	mg/L	2.00	1.40	10	X915297	AJH	04/12/19 18:35	D2,M4
EPA 300.0	**Nitrate as N**	1.61	mg/L	0.050	0.043		X915297	AJH	04/12/19 18:22	
EPA 300.0	**Sulfate as SO4**	21.1	mg/L	0.30	0.18		X915297	AJH	04/12/19 18:22	

This data has been reviewed for accuracy and has been authorized for release by the Laboratory Director or designee.

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Spokane County Environmental Services (Colbert)
22515 N. Elk Chattaroy Road
Colbert, WA 99005

Work Order: **X9D0322**
Reported: 26-Apr-19 12:06

Quality Control - BLANK Data

Method	Analyte	Units	Result	MDL	MRL	Batch ID	Analyzed	Notes
Metals (Total)								
EPA 7470A	Mercury	mg/L	<0.00020	0.000093	0.00020	X917123	25-Apr-19	
Metals (Total Recoverable)								
EPA 6010D	Barium	mg/L	<0.0040	0.0019	0.0040	X916037	25-Apr-19	
EPA 6010D	Lead	mg/L	<0.0150	0.0049	0.0150	X916037	25-Apr-19	
EPA 6010D	Manganese	mg/L	<0.0080	0.0034	0.0080	X916037	25-Apr-19	
EPA 6010D	Vanadium	mg/L	<0.0050	0.0019	0.0050	X916037	25-Apr-19	
EPA 6010D	Zinc	mg/L	<0.010	0.005	0.010	X916037	25-Apr-19	
EPA 6020B	Arsenic	mg/L	<0.00300	0.00021	0.00300	X916091	25-Apr-19	
Classical Chemistry Parameters								
EPA 350.1	Ammonia as N	mg/L	<0.030	0.013	0.030	X916244	19-Apr-19	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	<1.0		1.0	X917037	23-Apr-19	
SM 2320 B	Bicarbonate	mg/L as CaCO3	<1.0		1.0	X917037	23-Apr-19	
SM 2320 B	Carbonate	mg/L as CaCO3	<1.0		1.0	X917037	23-Apr-19	
SM 2540 C	Total Diss. Solids	mg/L	<10		10	X916146	17-Apr-19	
SM 5310B	Total Organic Carbon	mg/L	<1.00	0.38	1.00	X916132	16-Apr-19	
SM 5310B	Total Organic Carbon	mg/L	<1.00	0.38	1.00	X916132	16-Apr-19	
Anions by Ion Chromatography								
EPA 300.0	Chloride	mg/L	<0.20	0.14	0.20	X915297	12-Apr-19	
EPA 300.0	Nitrate as N	mg/L	<0.050	0.043	0.050	X915297	12-Apr-19	
EPA 300.0	Sulfate as SO4	mg/L	<0.30	0.18	0.30	X915297	12-Apr-19	

Quality Control - LABORATORY CONTROL SAMPLE Data

Method	Analyte	Units	LCS Result	LCS True	% Rec.	Acceptance Limits	Batch ID	Analyzed	Notes
Metals (Total)									
EPA 7470A	Mercury	mg/L	0.00501	0.00500	100	80 - 120	X917123	25-Apr-19	
Metals (Total Recoverable)									
EPA 6010D	Barium	mg/L	1.01	1.00	101	80 - 120	X916037	25-Apr-19	
EPA 6010D	Lead	mg/L	0.966	1.00	96.6	80 - 120	X916037	25-Apr-19	
EPA 6010D	Manganese	mg/L	0.956	1.00	95.6	80 - 120	X916037	25-Apr-19	
EPA 6010D	Vanadium	mg/L	0.975	1.00	97.5	80 - 120	X916037	25-Apr-19	
EPA 6010D	Zinc	mg/L	0.990	1.00	99.0	80 - 120	X916037	25-Apr-19	
EPA 6020B	Arsenic	mg/L	0.0244	0.0250	97.7	80 - 120	X916091	25-Apr-19	
Classical Chemistry Parameters									
EPA 350.1	Ammonia as N	mg/L	1.01	1.00	101	90 - 110	X916244	19-Apr-19	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	97.7	99.3	98.4	94.3 - 106	X917037	23-Apr-19	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	404	397	102	94.3 - 106	X917037	23-Apr-19	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	9.8	9.93	98.7	94.3 - 106	X917037	23-Apr-19	
SM 2320 B	Bicarbonate	mg/L as CaCO3	97.7	99.3	98.4	95.1 - 106	X917037	23-Apr-19	
SM 2320 B	Bicarbonate	mg/L as CaCO3	387	397	97.4	95.1 - 106	X917037	23-Apr-19	
SM 2320 B	Bicarbonate	mg/L as CaCO3	9.8	9.93	98.7	95.1 - 106	X917037	23-Apr-19	
SM 5310B	Total Organic Carbon	mg/L	35.5	34.3	103	90 - 110	X916132	16-Apr-19	
SM 5310B	Total Organic Carbon	mg/L	35.0	34.3	102	90 - 110	X916132	16-Apr-19	

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Spokane County Environmental Services (Colbert)
22515 N. Elk Chattaroy Road
Colbert, WA 99005

Work Order: **X9D0322**
Reported: 26-Apr-19 12:06

Quality Control - LABORATORY CONTROL SAMPLE Data (Continued)

Method	Analyte	Units	LCS Result	LCS True	% Rec.	Acceptance Limits	Batch ID	Analyzed	Notes
Anions by Ion Chromatography									
EPA 300.0	Chloride	mg/L	2.97	3.00	99.0	90 - 110	X915297	12-Apr-19	
EPA 300.0	Nitrate as N	mg/L	1.98	2.00	99.2	90 - 110	X915297	12-Apr-19	
EPA 300.0	Sulfate as SO4	mg/L	10.1	10.0	101	90 - 110	X915297	12-Apr-19	

Quality Control - DUPLICATE Data

Method	Analyte	Units	Duplicate Result	Sample Result	RPD	RPD Limit	Batch ID	Analyzed	Notes
Classical Chemistry Parameters									
SM 2320 B	Total Alkalinity	mg/L as CaCO3	106	107	0.6	20	X917037	23-Apr-19	
SM 2320 B	Bicarbonate	mg/L as CaCO3	106	107	0.6	20	X917037	23-Apr-19	
SM 2320 B	Carbonate	mg/L as CaCO3	<1.0	<1.0	UDL	20	X917037	23-Apr-19	
SM 2540 C	Total Diss. Solids	mg/L	253	248	2.0	10	X916146	17-Apr-19	
SM 2540 C	Total Diss. Solids	mg/L	339	330	2.7	10	X916146	17-Apr-19	
SM 5310B	Total Organic Carbon	mg/L	1.55	1.62	4.4	20	X916132	17-Apr-19	

Quality Control - MATRIX SPIKE Data

Method	Analyte	Units	Spike Result	Sample Result (R)	Spike Level (S)	% Recovery	Acceptance Limits	Batch ID	Analyzed	Notes
Metals (Total)										
EPA 7470A	Mercury	mg/L	0.00106	<0.00020	0.00100	106	75 - 125	X917123	25-Apr-19	
EPA 7470A	Mercury	mg/L	0.00105	<0.00020	0.00100	105	75 - 125	X917123	25-Apr-19	
Metals (Total Recoverable)										
EPA 6010D	Barium	mg/L	1.11	0.0569	1.00	105	75 - 125	X916037	26-Apr-19	
EPA 6010D	Lead	mg/L	1.03	<0.0150	1.00	103	75 - 125	X916037	26-Apr-19	
EPA 6010D	Manganese	mg/L	1.02	<0.0080	1.00	102	75 - 125	X916037	26-Apr-19	
EPA 6010D	Vanadium	mg/L	1.04	0.0052	1.00	104	75 - 125	X916037	26-Apr-19	
EPA 6010D	Zinc	mg/L	1.04	<0.010	1.00	104	75 - 125	X916037	26-Apr-19	
EPA 6020B	Arsenic	mg/L	0.0253	<0.00300	0.0250	99.7	75 - 125	X916091	25-Apr-19	
Classical Chemistry Parameters										
EPA 350.1	Ammonia as N	mg/L	1.03	<0.030	1.00	103	90 - 110	X916244	19-Apr-19	
EPA 350.1	Ammonia as N	mg/L	0.990	<0.030	1.00	99.0	90 - 110	X916244	19-Apr-19	
SM 5310B	Total Organic Carbon	mg/L	11.8	1.62	10.0	102	80 - 120	X916132	16-Apr-19	
Anions by Ion Chromatography										
EPA 300.0	Chloride	mg/L	30.5	27.9	3.00	0.30R>S	90 - 110	X915297	12-Apr-19	D2,M4
EPA 300.0	Nitrate as N	mg/L	3.56	1.61	2.00	97.5	90 - 110	X915297	12-Apr-19	
EPA 300.0	Sulfate as SO4	mg/L	31.3	21.1	10.0	102	90 - 110	X915297	12-Apr-19	

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Spokane County Environmental Services (Colbert)
22515 N. Elk Chattaroy Road
Colbert, WA 99005

Work Order: **X9D0322**
Reported: 26-Apr-19 12:06

Quality Control - MATRIX SPIKE DUPLICATE Data

Method	Analyte	Units	MSD Result	Spike Result	Spike Level	% Rec.	RPD	RPD Limit	Batch ID	Analyzed	Notes
Metals (Total)											
EPA 7470A	Mercury	mg/L	0.00100	0.00105	0.00100	100	4.6	20	X917123	25-Apr-19	
Metals (Total Recoverable)											
EPA 6010D	Barium	mg/L	1.10	1.11	1.00	105	0.4	20	X916037	26-Apr-19	
EPA 6010D	Lead	mg/L	1.03	1.03	1.00	103	0.2	20	X916037	26-Apr-19	
EPA 6010D	Manganese	mg/L	1.01	1.02	1.00	101	0.9	20	X916037	26-Apr-19	
EPA 6010D	Vanadium	mg/L	1.04	1.04	1.00	104	0.0	20	X916037	26-Apr-19	
EPA 6010D	Zinc	mg/L	1.04	1.04	1.00	104	0.2	20	X916037	26-Apr-19	
EPA 6020B	Arsenic	mg/L	0.0252	0.0253	0.0250	99.4	0.3	20	X916091	25-Apr-19	
Classical Chemistry Parameters											
EPA 350.1	Ammonia as N	mg/L	1.01	1.03	1.00	101	1.3	20	X916244	19-Apr-19	
SM 5310B	Total Organic Carbon	mg/L	11.8	11.8	10.0	102	0.0	20	X916132	16-Apr-19	
Anions by Ion Chromatography											
EPA 300.0	Chloride	mg/L	30.6	30.5	3.00	0.30R>S	0.1	20	X915297	12-Apr-19	D2,M4
EPA 300.0	Nitrate as N	mg/L	3.57	3.56	2.00	97.6	0.1	20	X915297	12-Apr-19	
EPA 300.0	Sulfate as SO4	mg/L	31.3	31.3	10.0	102	0.1	20	X915297	12-Apr-19	

Notes and Definitions

D1	Sample required dilution due to matrix.
D2	Sample required dilution due to high concentration of target analyte.
M4	The analysis of the spiked sample required a dilution such that the spike recovery calculation does not provide useful information. The LCS recovery was acceptable.
LCS	Laboratory Control Sample (Blank Spike)
RPD	Relative Percent Difference
UDL	A result is less than the detection limit
0.30R>S	% recovery not applicable; spike level is less than 30% of the sample concentration
<RL	A result is less than the reporting limit
MRL	Method Reporting Limit
MDL	Method Detection Limit
N/A	Not Applicable

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Spokane County Environmental Services (Colbert)
22515 N. Elk Chattaroy Road
Colbert, WA 99005

Work Order: **X9D0322**
Reported: 08-May-19 17:27

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Sampled By	Date Received	Notes
GWMW-016-190411	X9D0322-01	Ground Water	11-Apr-19 10:00	MT	12-Apr-2019	
GWMW-020-190411	X9D0322-02	Ground Water	11-Apr-19 10:07	MT	12-Apr-2019	
GWMW-023-190411	X9D0322-03	Ground Water	11-Apr-19 11:17	MT	12-Apr-2019	
MWS-1-1-190411	X9D0322-04	Ground Water	11-Apr-19 11:23	MT	12-Apr-2019	
GWMS-005-190411	X9D0322-05	Ground Water	11-Apr-19 09:17	MT	12-Apr-2019	

Solid samples are analyzed on an as-received, wet-weight basis, unless otherwise requested.
Sample preparation is defined by the client as per their Data Quality Objectives.
This report supercedes any previous reports for this Work Order. The complete report includes pages for each sample, a full QC report, and a notes section.
Analyses were performed in accordance with SVL standard operating procedures and calibrations were performed and met SVL internal QC criteria.
The results presented in this report relate only to the samples, and meet all requirements of the NELAC Standards unless otherwise noted.

Case Narrative: X9D0322

05/08/19 DG Report is reissued after client requested reanalysis for alkalinity on sample 1. The original result was not confirmed.
Reanalysis results are reported in duplicate.

SVL is not certified for Mercury 7470A in Washington.

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Spokane County Environmental Services (Colbert)
22515 N. Elk Chattaroy Road
Colbert, WA 99005

Work Order: **X9D0322**
Reported: 08-May-19 17:27

Client Sample ID: **GWMW-016-190411**
SVL Sample ID: **X9D0322-01 (Ground Water)**

Sampled: 11-Apr-19 10:00
Received: 12-Apr-19
Sampled By: MT

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Total)										
EPA 7470A	Mercury	< 0.00020	mg/L	0.00020	0.000093		X917123	MWD	04/25/19 11:42	
Metals (Total Recoverable)										
EPA 6010D	**Barium**	0.750	mg/L	0.0040	0.0019		X916037	AS	04/26/19 07:23	
EPA 6010D	Lead	< 0.0150	mg/L	0.0150	0.0049		X916037	AS	04/26/19 07:23	
EPA 6010D	**Manganese**	1.51	mg/L	0.0080	0.0034		X916037	AS	04/26/19 07:23	
EPA 6010D	**Vanadium**	0.0083	mg/L	0.0050	0.0019		X916037	AS	04/26/19 07:23	
EPA 6010D	Zinc	< 0.010	mg/L	0.010	0.005		X916037	AS	04/26/19 07:23	
EPA 6020B	**Arsenic**	0.0618	mg/L	0.00300	0.00021		X916091	KWH	04/25/19 07:18	
Classical Chemistry Parameters										
EPA 350.1	**Ammonia as N**	0.198	mg/L	0.030	0.013		X916244	APH	04/19/19 10:29	
SM 2320 B	**Total Alkalinity**	1460	mg/L as CaCO3	1.0			X919174	KAG	05/08/19 15:02	H1
SM 2320 B	**Total Alkalinity**	1470	mg/L as CaCO3	1.0			X919174	KAG	05/08/19 15:11	H1
SM 2320 B	**Bicarbonate**	1460	mg/L as CaCO3	1.0			X919174	KAG	05/08/19 15:02	H1
SM 2320 B	**Bicarbonate**	1470	mg/L as CaCO3	1.0			X919174	KAG	05/08/19 15:11	H1
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X919174	KAG	05/08/19 15:02	H1
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X919174	KAG	05/08/19 15:11	H1
SM 2540 C	**Total Diss. Solids**	1980	mg/L	40			X916146	DKS	04/17/19 11:00	D2
SM 5310B	**Total Organic Carbon**	171	mg/L	10.0	3.84	10	X916132	APH	04/17/19 13:11	D2
Anions by Ion Chromatography										
EPA 300.0	**Chloride**	159	mg/L	10.0	7.00	50	X915297	AJH	04/12/19 16:27	D2
EPA 300.0	Nitrate as N	< 0.050	mg/L	0.050	0.043		X915297	AJH	04/12/19 16:14	
EPA 300.0	**Sulfate as SO4**	0.36	mg/L	0.30	0.18		X915297	AJH	04/12/19 16:14	

This data has been reviewed for accuracy and has been authorized for release by the Laboratory Director or designee.

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Project Manager

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Spokane County Environmental Services (Colbert)
22515 N. Elk Chattaroy Road
Colbert, WA 99005

Work Order: **X9D0322**
Reported: 08-May-19 17:27

Client Sample ID: **GWMW-020-190411**
SVL Sample ID: **X9D0322-02 (Ground Water)**

Sampled: 11-Apr-19 10:07
Received: 12-Apr-19
Sampled By: MT

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Total)										
EPA 7470A	Mercury	< 0.00020	mg/L	0.00020	0.000093		X917123	MWD	04/25/19 11:44	
Metals (Total Recoverable)										
EPA 6010D	**Barium**	0.146	mg/L	0.0040	0.0019		X916037	AS	04/26/19 07:26	
EPA 6010D	Lead	< 0.0150	mg/L	0.0150	0.0049		X916037	AS	04/26/19 07:26	
EPA 6010D	**Manganese**	0.0158	mg/L	0.0080	0.0034		X916037	AS	04/26/19 07:26	
EPA 6010D	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X916037	AS	04/26/19 07:26	
EPA 6010D	Zinc	< 0.010	mg/L	0.010	0.005		X916037	AS	04/26/19 07:26	
EPA 6020B	Arsenic	< 0.00300	mg/L	0.00300	0.00021		X916091	KWH	04/25/19 07:20	
Classical Chemistry Parameters										
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X916244	APH	04/19/19 10:32	
SM 2320 B	**Total Alkalinity**	238	mg/L as CaCO3	1.0			X917037	KAG	04/23/19 13:32	
SM 2320 B	**Bicarbonate**	238	mg/L as CaCO3	1.0			X917037	KAG	04/23/19 13:32	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X917037	KAG	04/23/19 13:32	
SM 2540 C	**Total Diss. Solids**	330	mg/L	10			X916146	DKS	04/17/19 11:00	
SM 5310B	**Total Organic Carbon**	1.63	mg/L	1.00	0.38		X916132	APH	04/17/19 13:24	
Anions by Ion Chromatography										
EPA 300.0	**Chloride**	8.66	mg/L	0.20	0.14		X915297	AJH	04/12/19 16:40	
EPA 300.0	**Nitrate as N**	3.01	mg/L	0.500	0.430	10	X915297	AJH	04/12/19 16:52	D1
EPA 300.0	**Sulfate as SO4**	6.42	mg/L	0.30	0.18		X915297	AJH	04/12/19 16:40	

This data has been reviewed for accuracy and has been authorized for release by the Laboratory Director or designee.

Dianne Gardner
Project Manager

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Spokane County Environmental Services (Colbert)
22515 N. Elk Chattaroy Road
Colbert, WA 99005

Work Order: **X9D0322**
Reported: 08-May-19 17:27

Client Sample ID: **GWMW-023-190411**
SVL Sample ID: **X9D0322-03 (Ground Water)**

Sampled: 11-Apr-19 11:17
Received: 12-Apr-19
Sampled By: MT

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Total)										
EPA 7470A	Mercury	< 0.00020	mg/L	0.00020	0.000093		X917123	MWD	04/25/19 11:49	
Metals (Total Recoverable)										
EPA 6010D	**Barium**	0.150	mg/L	0.0040	0.0019		X916037	AS	04/26/19 07:29	
EPA 6010D	Lead	< 0.0150	mg/L	0.0150	0.0049		X916037	AS	04/26/19 07:29	
EPA 6010D	**Manganese**	0.944	mg/L	0.0080	0.0034		X916037	AS	04/26/19 07:29	
EPA 6010D	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X916037	AS	04/26/19 07:29	
EPA 6010D	Zinc	< 0.010	mg/L	0.010	0.005		X916037	AS	04/26/19 07:29	
EPA 6020B	Arsenic	< 0.00300	mg/L	0.00300	0.00021		X916091	KWH	04/25/19 07:22	
Classical Chemistry Parameters										
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X916244	APH	04/19/19 10:35	
SM 2320 B	**Total Alkalinity**	360	mg/L as CaCO3	1.0			X917037	KAG	04/23/19 13:40	
SM 2320 B	**Bicarbonate**	360	mg/L as CaCO3	1.0			X917037	KAG	04/23/19 13:40	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X917037	KAG	04/23/19 13:40	
SM 2540 C	**Total Diss. Solids**	507	mg/L	10			X916146	DKS	04/17/19 11:00	
SM 5310B	**Total Organic Carbon**	2.65	mg/L	1.00	0.38		X916132	APH	04/17/19 13:38	
Anions by Ion Chromatography										
EPA 300.0	**Chloride**	54.5	mg/L	2.00	1.40	10	X915297	AJH	04/12/19 17:18	D2
EPA 300.0	Nitrate as N	< 0.050	mg/L	0.050	0.043		X915297	AJH	04/12/19 17:05	
EPA 300.0	**Sulfate as SO4**	8.42	mg/L	0.30	0.18		X915297	AJH	04/12/19 17:05	

This data has been reviewed for accuracy and has been authorized for release by the Laboratory Director or designee.

Dianne Gardner
Project Manager

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Spokane County Environmental Services (Colbert)
22515 N. Elk Chattaroy Road
Colbert, WA 99005

Work Order: **X9D0322**
Reported: 08-May-19 17:27

Client Sample ID: **MWS-1-1-190411**
SVL Sample ID: **X9D0322-04 (Ground Water)**

Sampled: 11-Apr-19 11:23
Received: 12-Apr-19
Sampled By: MT

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Total)										
EPA 7470A	Mercury	< 0.00020	mg/L	0.00020	0.000093		X917123	MWD	04/25/19 11:51	
Metals (Total Recoverable)										
EPA 6010D	**Barium**	0.155	mg/L	0.0040	0.0019		X916037	AS	04/26/19 07:32	
EPA 6010D	Lead	< 0.0150	mg/L	0.0150	0.0049		X916037	AS	04/26/19 07:32	
EPA 6010D	**Manganese**	0.979	mg/L	0.0080	0.0034		X916037	AS	04/26/19 07:32	
EPA 6010D	Vanadium	< 0.0050	mg/L	0.0050	0.0019		X916037	AS	04/26/19 07:32	
EPA 6010D	Zinc	< 0.010	mg/L	0.010	0.005		X916037	AS	04/26/19 07:32	
EPA 6020B	Arsenic	< 0.00300	mg/L	0.00300	0.00021		X916091	KWH	04/25/19 07:29	
Classical Chemistry Parameters										
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X916244	APH	04/19/19 10:47	
SM 2320 B	**Total Alkalinity**	364	mg/L as CaCO3	1.0			X917037	KAG	04/23/19 13:48	
SM 2320 B	**Bicarbonate**	364	mg/L as CaCO3	1.0			X917037	KAG	04/23/19 13:48	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X917037	KAG	04/23/19 13:48	
SM 2540 C	**Total Diss. Solids**	505	mg/L	10			X916146	DKS	04/17/19 11:00	
SM 5310B	**Total Organic Carbon**	2.63	mg/L	1.00	0.38		X916132	APH	04/17/19 13:51	
Anions by Ion Chromatography										
EPA 300.0	**Chloride**	55.0	mg/L	2.00	1.40	10	X915297	AJH	04/12/19 17:43	D2
EPA 300.0	Nitrate as N	< 0.050	mg/L	0.050	0.043		X915297	AJH	04/12/19 17:31	
EPA 300.0	**Sulfate as SO4**	8.38	mg/L	0.30	0.18		X915297	AJH	04/12/19 17:31	

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Project Manager

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Spokane County Environmental Services (Colbert)
22515 N. Elk Chattaroy Road
Colbert, WA 99005

Work Order: **X9D0322**
Reported: 08-May-19 17:27

Client Sample ID: **GWMS-005-190411**
SVL Sample ID: **X9D0322-05 (Ground Water)**

Sampled: 11-Apr-19 09:17
Received: 12-Apr-19
Sampled By: MT

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Total)										
EPA 7470A	Mercury	< 0.00020	mg/L	0.00020	0.000093		X917123	MWD	04/25/19 11:53	
Metals (Total Recoverable)										
EPA 6010D	**Barium**	0.0569	mg/L	0.0040	0.0019		X916037	AS	04/26/19 07:35	
EPA 6010D	Lead	< 0.0150	mg/L	0.0150	0.0049		X916037	AS	04/26/19 07:35	
EPA 6010D	Manganese	< 0.0080	mg/L	0.0080	0.0034		X916037	AS	04/26/19 07:35	
EPA 6010D	**Vanadium**	0.0052	mg/L	0.0050	0.0019		X916037	AS	04/26/19 07:35	
EPA 6010D	Zinc	< 0.010	mg/L	0.010	0.005		X916037	AS	04/26/19 07:35	
EPA 6020B	Arsenic	< 0.00300	mg/L	0.00300	0.00021		X916091	KWH	04/25/19 06:42	
Classical Chemistry Parameters										
EPA 350.1	Ammonia as N	< 0.030	mg/L	0.030	0.013		X916244	APH	04/19/19 10:50	
SM 2320 B	**Total Alkalinity**	107	mg/L as CaCO3	1.0			X917037	KAG	04/23/19 13:55	
SM 2320 B	**Bicarbonate**	107	mg/L as CaCO3	1.0			X917037	KAG	04/23/19 13:55	
SM 2320 B	Carbonate	< 1.0	mg/L as CaCO3	1.0			X917037	KAG	04/23/19 13:55	
SM 2540 C	**Total Diss. Solids**	248	mg/L	10			X916146	DKS	04/17/19 11:00	
SM 5310B	**Total Organic Carbon**	1.62	mg/L	1.00	0.38		X916132	APH	04/17/19 14:04	
Anions by Ion Chromatography										
EPA 300.0	**Chloride**	27.9	mg/L	2.00	1.40	10	X915297	AJH	04/12/19 18:35	D2,M4
EPA 300.0	**Nitrate as N**	1.61	mg/L	0.050	0.043		X915297	AJH	04/12/19 18:22	
EPA 300.0	**Sulfate as SO4**	21.1	mg/L	0.30	0.18		X915297	AJH	04/12/19 18:22	

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Dianne Gardner
Project Manager

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Spokane County Environmental Services (Colbert)
22515 N. Elk Chattaroy Road
Colbert, WA 99005

Work Order: **X9D0322**
Reported: 08-May-19 17:27

Quality Control - BLANK Data

Method	Analyte	Units	Result	MDL	MRL	Batch ID	Analyzed	Notes
Metals (Total)								
EPA 7470A	Mercury	mg/L	<0.00020	0.000093	0.00020	X917123	25-Apr-19	
Metals (Total Recoverable)								
EPA 6010D	Barium	mg/L	<0.0040	0.0019	0.0040	X916037	25-Apr-19	
EPA 6010D	Lead	mg/L	<0.0150	0.0049	0.0150	X916037	25-Apr-19	
EPA 6010D	Manganese	mg/L	<0.0080	0.0034	0.0080	X916037	25-Apr-19	
EPA 6010D	Vanadium	mg/L	<0.0050	0.0019	0.0050	X916037	25-Apr-19	
EPA 6010D	Zinc	mg/L	<0.010	0.005	0.010	X916037	25-Apr-19	
EPA 6020B	Arsenic	mg/L	<0.00300	0.00021	0.00300	X916091	25-Apr-19	
Classical Chemistry Parameters								
EPA 350.1	Ammonia as N	mg/L	<0.030	0.013	0.030	X916244	19-Apr-19	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	<1.0		1.0	X917037	23-Apr-19	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	<1.0		1.0	X919174	08-May-19	
SM 2320 B	Bicarbonate	mg/L as CaCO3	<1.0		1.0	X917037	23-Apr-19	
SM 2320 B	Bicarbonate	mg/L as CaCO3	<1.0		1.0	X919174	08-May-19	
SM 2320 B	Carbonate	mg/L as CaCO3	<1.0		1.0	X917037	23-Apr-19	
SM 2320 B	Carbonate	mg/L as CaCO3	<1.0		1.0	X919174	08-May-19	
SM 2540 C	Total Diss. Solids	mg/L	<10		10	X916146	17-Apr-19	
SM 5310B	Total Organic Carbon	mg/L	<1.00	0.38	1.00	X916132	16-Apr-19	
SM 5310B	Total Organic Carbon	mg/L	<1.00	0.38	1.00	X916132	16-Apr-19	
Anions by Ion Chromatography								
EPA 300.0	Chloride	mg/L	<0.20	0.14	0.20	X915297	12-Apr-19	
EPA 300.0	Nitrate as N	mg/L	<0.050	0.043	0.050	X915297	12-Apr-19	
EPA 300.0	Sulfate as SO4	mg/L	<0.30	0.18	0.30	X915297	12-Apr-19	

Quality Control - LABORATORY CONTROL SAMPLE Data

Method	Analyte	Units	LCS Result	LCS True	% Rec.	Acceptance Limits	Batch ID	Analyzed	Notes
Metals (Total)									
EPA 7470A	Mercury	mg/L	0.00501	0.00500	100	80 - 120	X917123	25-Apr-19	
Metals (Total Recoverable)									
EPA 6010D	Barium	mg/L	1.01	1.00	101	80 - 120	X916037	25-Apr-19	
EPA 6010D	Lead	mg/L	0.966	1.00	96.6	80 - 120	X916037	25-Apr-19	
EPA 6010D	Manganese	mg/L	0.956	1.00	95.6	80 - 120	X916037	25-Apr-19	
EPA 6010D	Vanadium	mg/L	0.975	1.00	97.5	80 - 120	X916037	25-Apr-19	
EPA 6010D	Zinc	mg/L	0.990	1.00	99.0	80 - 120	X916037	25-Apr-19	
EPA 6020B	Arsenic	mg/L	0.0244	0.0250	97.7	80 - 120	X916091	25-Apr-19	
Classical Chemistry Parameters									
EPA 350.1	Ammonia as N	mg/L	1.01	1.00	101	90 - 110	X916244	19-Apr-19	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	99.5	99.3	100	94.3 - 106	X919174	08-May-19	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	98.2	99.3	98.9	94.3 - 106	X919174	08-May-19	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	97.7	99.3	98.4	94.3 - 106	X917037	23-Apr-19	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	404	397	102	94.3 - 106	X917037	23-Apr-19	
SM 2320 B	Total Alkalinity	mg/L as CaCO3	9.8	9.93	98.7	94.3 - 106	X917037	23-Apr-19	
SM 2320 B	Bicarbonate	mg/L as CaCO3	98.7	99.3	99.4	95.1 - 106	X919174	08-May-19	
SM 2320 B	Bicarbonate	mg/L as CaCO3	94.8	99.3	95.5	95.1 - 106	X919174	08-May-19	
SM 2320 B	Bicarbonate	mg/L as CaCO3	97.7	99.3	98.4	95.1 - 106	X917037	23-Apr-19	
SM 2320 B	Bicarbonate	mg/L as CaCO3	387	397	97.4	95.1 - 106	X917037	23-Apr-19	

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Spokane County Environmental Services (Colbert)
22515 N. Elk Chattaroy Road
Colbert, WA 99005

Work Order: **X9D0322**
Reported: 08-May-19 17:27

Quality Control - LABORATORY CONTROL SAMPLE Data (Continued)

Method	Analyte	Units	LCS Result	LCS True	% Rec.	Acceptance Limits	Batch ID	Analyzed	Notes
Classical Chemistry Parameters (Continued)									
SM 2320 B	Bicarbonate	mg/L as CaCO3	9.8	9.93	98.7	95.1 - 106	X917037	23-Apr-19	
SM 5310B	Total Organic Carbon	mg/L	35.5	34.3	103	90 - 110	X916132	16-Apr-19	
SM 5310B	Total Organic Carbon	mg/L	35.0	34.3	102	90 - 110	X916132	16-Apr-19	
Anions by Ion Chromatography									
EPA 300.0	Chloride	mg/L	2.97	3.00	99.0	90 - 110	X915297	12-Apr-19	
EPA 300.0	Nitrate as N	mg/L	1.98	2.00	99.2	90 - 110	X915297	12-Apr-19	
EPA 300.0	Sulfate as SO4	mg/L	10.1	10.0	101	90 - 110	X915297	12-Apr-19	

Quality Control - DUPLICATE Data

Method	Analyte	Units	Duplicate Result	Sample Result	RPD	RPD Limit	Batch ID	Analyzed	Notes
Classical Chemistry Parameters									
SM 2320 B	Total Alkalinity	mg/L as CaCO3	106	107	0.6	20	X917037	23-Apr-19	
SM 2320 B	Bicarbonate	mg/L as CaCO3	106	107	0.6	20	X917037	23-Apr-19	
SM 2320 B	Carbonate	mg/L as CaCO3	<1.0	<1.0	UDL	20	X917037	23-Apr-19	
SM 2540 C	Total Diss. Solids	mg/L	253	248	2.0	10	X916146	17-Apr-19	
SM 2540 C	Total Diss. Solids	mg/L	339	330	2.7	10	X916146	17-Apr-19	
SM 5310B	Total Organic Carbon	mg/L	1.55	1.62	4.4	20	X916132	17-Apr-19	

Quality Control - MATRIX SPIKE Data

Method	Analyte	Units	Spike Result	Sample Result (R)	Spike Level (S)	% Recovery	Acceptance Limits	Batch ID	Analyzed	Notes
Metals (Total)										
EPA 7470A	Mercury	mg/L	0.00106	<0.00020	0.00100	106	75 - 125	X917123	25-Apr-19	
EPA 7470A	Mercury	mg/L	0.00105	<0.00020	0.00100	105	75 - 125	X917123	25-Apr-19	
Metals (Total Recoverable)										
EPA 6010D	Barium	mg/L	1.11	0.0569	1.00	105	75 - 125	X916037	26-Apr-19	
EPA 6010D	Lead	mg/L	1.03	<0.0150	1.00	103	75 - 125	X916037	26-Apr-19	
EPA 6010D	Manganese	mg/L	1.02	<0.0080	1.00	102	75 - 125	X916037	26-Apr-19	
EPA 6010D	Vanadium	mg/L	1.04	0.0052	1.00	104	75 - 125	X916037	26-Apr-19	
EPA 6010D	Zinc	mg/L	1.04	<0.010	1.00	104	75 - 125	X916037	26-Apr-19	
EPA 6020B	Arsenic	mg/L	0.0253	<0.00300	0.0250	99.7	75 - 125	X916091	25-Apr-19	
Classical Chemistry Parameters										
EPA 350.1	Ammonia as N	mg/L	1.03	<0.030	1.00	103	90 - 110	X916244	19-Apr-19	
EPA 350.1	Ammonia as N	mg/L	0.990	<0.030	1.00	99.0	90 - 110	X916244	19-Apr-19	
SM 5310B	Total Organic Carbon	mg/L	11.8	1.62	10.0	102	80 - 120	X916132	16-Apr-19	
Anions by Ion Chromatography										
EPA 300.0	Chloride	mg/L	30.5	27.9	3.00	0.30R>S	90 - 110	X915297	12-Apr-19	D2,M4
EPA 300.0	Nitrate as N	mg/L	3.56	1.61	2.00	97.5	90 - 110	X915297	12-Apr-19	
EPA 300.0	Sulfate as SO4	mg/L	31.3	21.1	10.0	102	90 - 110	X915297	12-Apr-19	

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Spokane County Environmental Services (Colbert)
22515 N. Elk Chattaroy Road
Colbert, WA 99005

Work Order: **X9D0322**
Reported: 08-May-19 17:27

Quality Control - MATRIX SPIKE DUPLICATE Data

Method	Analyte	Units	MSD Result	Spike Result	Spike Level	% Rec.	RPD	RPD Limit	Batch ID	Analyzed	Notes
Metals (Total)											
EPA 7470A	Mercury	mg/L	0.00100	0.00105	0.00100	100	4.6	20	X917123	25-Apr-19	
Metals (Total Recoverable)											
EPA 6010D	Barium	mg/L	1.10	1.11	1.00	105	0.4	20	X916037	26-Apr-19	
EPA 6010D	Lead	mg/L	1.03	1.03	1.00	103	0.2	20	X916037	26-Apr-19	
EPA 6010D	Manganese	mg/L	1.01	1.02	1.00	101	0.9	20	X916037	26-Apr-19	
EPA 6010D	Vanadium	mg/L	1.04	1.04	1.00	104	0.0	20	X916037	26-Apr-19	
EPA 6010D	Zinc	mg/L	1.04	1.04	1.00	104	0.2	20	X916037	26-Apr-19	
EPA 6020B	Arsenic	mg/L	0.0252	0.0253	0.0250	99.4	0.3	20	X916091	25-Apr-19	
Classical Chemistry Parameters											
EPA 350.1	Ammonia as N	mg/L	1.01	1.03	1.00	101	1.3	20	X916244	19-Apr-19	
SM 5310B	Total Organic Carbon	mg/L	11.8	11.8	10.0	102	0.0	20	X916132	16-Apr-19	
Anions by Ion Chromatography											
EPA 300.0	Chloride	mg/L	30.6	30.5	3.00	0.30R>S	0.1	20	X915297	12-Apr-19	D2,M4
EPA 300.0	Nitrate as N	mg/L	3.57	3.56	2.00	97.6	0.1	20	X915297	12-Apr-19	
EPA 300.0	Sulfate as SO4	mg/L	31.3	31.3	10.0	102	0.1	20	X915297	12-Apr-19	

Notes and Definitions

D1	Sample required dilution due to matrix.
D2	Sample required dilution due to high concentration of target analyte.
H1	Sample analysis performed past holding time.
M4	The analysis of the spiked sample required a dilution such that the spike recovery calculation does not provide useful information. The LCS recovery was acceptable.
LCS	Laboratory Control Sample (Blank Spike)
RPD	Relative Percent Difference
UDL	A result is less than the detection limit
0.30R>S	% recovery not applicable; spike level is less than 30% of the sample concentration
<RL	A result is less than the reporting limit
MRL	Method Reporting Limit
MDL	Method Detection Limit
N/A	Not Applicable

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Client: SPOKANE COUNTY UTILITIES
Address: 22515 N. ELK CHATTAROY ROAD
COLBERT, WA 99005
Attn: SVL ANALYTICAL, INC.

Batch #: 190415012
Project Name: SVL #X9D0349

Analytical Results Report

Sample Number	190415012-001	**Sampling Date**	4/10/2019	**Date/Time Received**	4/12/201910:31 AM
Client Sample ID	GWDW-001-190410	**Sampling Time**	8:31 AM	**Extraction Date**	4/15/2019
Matrix	Water	**Sample Location**	X9D0349-01		
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
bis(2-Ethylhexyl)phthalate	0.58	ug/L	0.5	4/16/2019 9:39:00 PM	HSW	EPA 8270D	

Surrogate Data

Sample Number 190415012-001

Surrogate Standard	Method	Percent Recovery	Control Limits
Terphenyl-d14	EPA 8270D	111.6	22-133

Certifications held by Anatek Labs ID: EPA:ID00013; AZ:0701; FL(NELAP):E87893; ID:ID00013; MT:CERT0028; NM: ID00013;NV:ID00013; OR:ID200001-002; WA:C595
Certifications held by Anatek Labs WA: EPA:WA00169; ID:WA00169; WA:C585; MT:Cert0095; FL(NELAP): E871099

Anatek Labs, Inc.

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Client: SPOKANE COUNTY UTILITIES
Address: 22515 N. ELK CHATTAROY ROAD
COLBERT, WA 99005
Attn: SVL ANALYTICAL, INC.

Batch #: 190415012
Project Name: SVL #X9D0349

Analytical Results Report

Sample Number	190415012-002	**Sampling Date**	4/10/2019	**Date/Time Received**	4/12/201910:31 AM
Client Sample ID	GWDW-002-190410	**Sampling Time**	10:51 AM	**Extraction Date**	4/15/2019
Matrix	Water	**Sample Location**	X9D0349-02		
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
bis(2-Ethylhexyl)phthalate	0.96	ug/L	0.5	4/16/2019 10:06:00 PM	HSW	EPA 8270D	

Surrogate Data

Sample Number 190415012-002

Surrogate Standard	Method	Percent Recovery	Control Limits
Terphenyl-d14	EPA 8270D	128.8	22-133

Anatek Labs, Inc.

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Client: SPOKANE COUNTY UTILITIES
Address: 22515 N. ELK CHATTAROY ROAD
COLBERT, WA 99005
Attn: SVL ANALYTICAL, INC.

Batch #: 190415012
Project Name: SVL #X9D0349

Analytical Results Report

Sample Number	190415012-003	**Sampling Date**	4/10/2019	**Date/Time Received**	4/12/201910:31 AM
Client Sample ID	GWDW-003-190410	**Sampling Time**	9:46 AM	**Extraction Date**	4/15/2019
Matrix	Water	**Sample Location**	X9D0349-03		
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
bis(2-Ethylhexyl)phthalate	ND	ug/L	0.5	4/16/2019 10:33:00 PM	HSW	EPA 8270D	

Surrogate Data

Sample Number 190415012-003

Surrogate Standard	Method	Percent Recovery	Control Limits
Terphenyl-d14	EPA 8270D	101.6	22-133

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Client: SPOKANE COUNTY UTILITIES
Address: 22515 N. ELK CHATTAROY ROAD
COLBERT, WA 99005
Attn: SVL ANALYTICAL, INC.

Batch #: 190415012
Project Name: SVL #X9D0349

Analytical Results Report

Sample Number	190415012-004	**Sampling Date**	4/10/2019	**Date/Time Received**	4/12/2019 10:31 AM
Client Sample ID	GWMS-004-190410	**Sampling Time**	1:27 PM	**Extraction Date**	4/15/2019
Matrix	Water	**Sample Location**	X9D0349-04		
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
bis(2-Ethylhexyl)phthalate	1.50	ug/L	0.5	4/16/2019 11:01:00 PM	HSW	EPA 8270D	

Surrogate Data

Sample Number 190415012-004

Surrogate Standard	Method	Percent Recovery	Control Limits
Terphenyl-d14	EPA 8270D	106.0	22-133

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Client: SPOKANE COUNTY UTILITIES
Address: 22515 N. ELK CHATTAROY ROAD
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Batch #: 190415012
Project Name: SVL #X9D0349

Analytical Results Report

Sample Number	190415012-005	**Sampling Date**	4/10/2019	**Date/Time Received**	4/12/201910:31 AM
Client Sample ID	GWMW-009-190410	**Sampling Time**	11:00 AM	**Extraction Date**	4/15/2019
Matrix	Water	**Sample Location**	X9D0349-05		
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
bis(2-Ethylhexyl)phthalate	ND	ug/L	0.5	4/16/2019 11:28:00 PM	HSW	EPA 8270D	

Surrogate Data

Sample Number 190415012-005

Surrogate Standard	Method	Percent Recovery	Control Limits
Terphenyl-d14	EPA 8270D	113.2	22-133

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Batch #: 190415012
Project Name: SVL #X9D0349

Analytical Results Report

Sample Number	190415012-010	**Sampling Date**	4/10/2019	**Date/Time Received**	4/12/2019 10:31 AM
Client Sample ID	GWMW-029-190410	**Sampling Time**	1:00 PM	**Extraction Date**	4/15/2019
Matrix	Water	**Sample Location**	X9D0349-10		
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
bis(2-Ethylhexyl)phthalate	ND	ug/L	0.5	4/16/2019 11:55:00 PM	HSW	EPA 8270D	

Surrogate Data

Sample Number 190415012-010

Surrogate Standard	Method	Percent Recovery	Control Limits
Terphenyl-d14	EPA 8270D	124.0	22-133

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Batch #: 190415012
Project Name: SVL #X9D0349

Analytical Results Report

Sample Number	190415012-012	**Sampling Date**	4/11/2019	**Date/Time Received**	4/12/201910:31 AM
Client Sample ID	MWS-1-2-190410	**Sampling Time**	1:30 PM	**Extraction Date**	4/15/2019
Matrix	Water	**Sample Location**	X9D0349-12		
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
bis(2-Ethylhexyl)phthalate	4.18	ug/L	0.5	4/17/2019 12:22:00 AM	HSW	EPA 8270D	

Surrogate Data

Sample Number 190415012-012

Surrogate Standard	Method	Percent Recovery	Control Limits
Terphenyl-d14	EPA 8270D	104.0	22-133

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Attn: SVL ANALYTICAL, INC.

Batch #: 190415012
Project Name: SVL #X9D0349

Analytical Results Report

Sample Number	190415012-013	**Sampling Date**	4/11/2019	**Date/Time Received**	4/12/2019 10:31 AM
Client Sample ID	GWMS-005-140411	**Sampling Time**	9:17 AM	**Extraction Date**	4/15/2019
Matrix	Water	**Sample Location**	X9D0349-13		
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
bis(2-Ethylhexyl)phthalate	ND	ug/L	0.5	4/17/2019 12:49:00 AM	HSW	EPA 8270D	

Surrogate Data

Sample Number 190415012-013

Surrogate Standard	Method	Percent Recovery	Control Limits
Terphenyl-d14	EPA 8270D	122.4	22-133

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Batch #: 190415012
Project Name: SVL #X9D0349

Analytical Results Report

Sample Number	190415012-013A	**Sampling Date**	4/11/2019	**Date/Time Received**	4/12/2019 10:31 AM
Client Sample ID	GWMS-005-140411A	**Sampling Time**	9:17 AM	**Extraction Date**	4/15/2019
Matrix	Water	**Sample Location**	X9D0349-3A		
Comments	Sample Matrix Spike				

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
bis(2-Ethylhexyl)phthalate	6.28	ug/L	0.5	4/16/2019 8:18:00 PM	HSW	EPA 8270D	

Surrogate Data

Sample Number 190415012-013A

Surrogate Standard	Method	Percent Recovery	Control Limits
Terphenyl-d14	EPA 8270D	120.0	22-133

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Client: SPOKANE COUNTY UTILITIES
Address: 22515 N. ELK CHATTAROY ROAD
COLBERT, WA 99005
Attn: SVL ANALYTICAL, INC.

Batch #: 190415012
Project Name: SVL #X9D0349

Analytical Results Report

Sample Number	190415012-013B	**Sampling Date**	4/11/2019	**Date/Time Received**	4/12/201910:31 AM
Client Sample ID	GWMS-005-140411B	**Sampling Time**	9:17 AM	**Extraction Date**	4/15/2019
Matrix	Water	**Sample Location**	X9D0349-3B		
Comments	Sample Matrix Spike Duplicate				

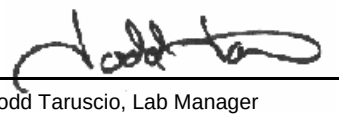
Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
bis(2-Ethylhexyl)phthalate	6.07	ug/L	0.5	4/16/2019 8:45:00 PM	HSW	EPA 8270D	

Surrogate Data

Sample Number 190415012-013B

Surrogate Standard	Method	Percent Recovery	Control Limits
Terphenyl-d14	EPA 8270D	104.8	22-133

Authorized Signature



Todd Taruscio, Lab Manager

MCL EPA's Maximum Contaminant Level
ND Not Detected
PQL Practical Quantitation Limit

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The results reported relate only to the samples indicated.
Soil/solid results are reported on a dry-weight basis unless otherwise noted.

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Certifications held by Anatek Labs WA: EPA:WA00169; ID:WA00169; WA:C585; MT:Cert0095; FL(NELAP): E871099

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Batch #: 190415012
Project Name: SVL #X9D0349

Analytical Results Report

Quality Control Data

Lab Control Sample

Parameter	LCS Result	Units	LCS Spike	%Rec	AR %Rec	Prep Date	Analysis Date
bis(2-Ethylhexyl)phthalate	6.04	ug/L	5	120.8	51-149	4/15/2019	4/16/2019

Matrix Spike

Sample Number	Parameter	Sample Result	MS Result	Units	MS Spike	%Rec	AR %Rec	Prep Date	Analysis Date
190415012-013	bis(2-Ethylhexyl)phthalate	ND	6.28	ug/L	5	125.6	51-149	4/15/2019	4/16/2019

Matrix Spike Duplicate

Parameter	MSD Result	Units	MSD Spike	%Rec	%RPD	AR %RPD	Prep Date	Analysis Date
bis(2-Ethylhexyl)phthalate	6.07	ug/L	5	121.4	3.4	0-27	4/15/2019	4/16/2019

Method Blank

Parameter	Result	Units	PQL	Prep Date	Analysis Date
bis(2-Ethylhexyl)phthalate	ND	ug/L	0.5	4/15/2019	4/16/2019

AR	Acceptable Range
ND	Not Detected
PQL	Practical Quantitation Limit
RPD	Relative Percentage Difference

Comments:

Certifications held by Anatek Labs ID: EPA:ID00013; AZ:0701; FL(NELAP):E87893; ID:ID00013; MT:CERT0028; NM: ID00013;NV:ID00013; OR:ID200001-002; WA:C595
Certifications held by Anatek Labs WA: EPA:WA00169; ID:WA00169; WA:C585; MT:Cert0095; FL(NELAP): E871099

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Client: SPOKANE COUNTY UTILITIES
Address: 22515 N. ELK CHATTAROY ROAD
COLBERT, WA 99005
Attn: SVL ANALYTICAL, INC.

Batch #: 190415012
Project Name: SVL #X9D0349

Analytical Results Report

Sample Number 190415012-001
Client Sample ID GWDW-001-190410
Matrix Water
Comments

Sampling Date 4/10/2019
Sampling Time 8:31 AM
Sample Location X9D0349-01

Date/Time Received 4/12/201910:31 AM

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
1,1,1,2-Tetrachloroethane	ND	ug/L	0.5	4/17/2019 7:50:00 PM	SAT	EPA 8260C	
1,1,1-Trichloroethane	ND	ug/L	0.5	4/17/2019 7:50:00 PM	SAT	EPA 8260C	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.5	4/17/2019 7:50:00 PM	SAT	EPA 8260C	
1,1,2-Trichloroethane	ND	ug/L	0.5	4/17/2019 7:50:00 PM	SAT	EPA 8260C	
1,1-Dichloroethane	ND	ug/L	0.5	4/17/2019 7:50:00 PM	SAT	EPA 8260C	
1,1-Dichloroethene	ND	ug/L	0.5	4/17/2019 7:50:00 PM	SAT	EPA 8260C	
1,1-dichloropropene	ND	ug/L	0.5	4/17/2019 7:50:00 PM	SAT	EPA 8260C	
1,2,3-Trichlorobenzene	ND	ug/L	0.5	4/17/2019 7:50:00 PM	SAT	EPA 8260C	
1,2,3-Trichloropropane	ND	ug/L	0.5	4/17/2019 7:50:00 PM	SAT	EPA 8260C	
1,2,4-Trichlorobenzene	ND	ug/L	0.5	4/17/2019 7:50:00 PM	SAT	EPA 8260C	
1,2,4-Trimethylbenzene	ND	ug/L	0.5	4/17/2019 7:50:00 PM	SAT	EPA 8260C	
1,2-Dibromo-3-chloropropane(DBCP)	ND	ug/L	0.5	4/17/2019 7:50:00 PM	SAT	EPA 8260C	
1,2-Dibromoethane	ND	ug/L	0.5	4/17/2019 7:50:00 PM	SAT	EPA 8260C	
1,2-Dichlorobenzene	ND	ug/L	0.5	4/17/2019 7:50:00 PM	SAT	EPA 8260C	
1,2-Dichloroethane	ND	ug/L	0.5	4/17/2019 7:50:00 PM	SAT	EPA 8260C	
1,2-Dichloropropane	ND	ug/L	0.5	4/17/2019 7:50:00 PM	SAT	EPA 8260C	
1,3,5-Trimethylbenzene	ND	ug/L	0.5	4/17/2019 7:50:00 PM	SAT	EPA 8260C	
1,3-Dichlorobenzene	ND	ug/L	0.5	4/17/2019 7:50:00 PM	SAT	EPA 8260C	
1,3-Dichloropropane	ND	ug/L	0.5	4/17/2019 7:50:00 PM	SAT	EPA 8260C	
1,4-Dichlorobenzene	ND	ug/L	0.5	4/17/2019 7:50:00 PM	SAT	EPA 8260C	
2,2-Dichloropropane	ND	ug/L	0.5	4/17/2019 7:50:00 PM	SAT	EPA 8260C	
2-Chlorotoluene	ND	ug/L	0.5	4/17/2019 7:50:00 PM	SAT	EPA 8260C	
2-hexanone	ND	ug/L	2.5	4/17/2019 7:50:00 PM	SAT	EPA 8260C	
4-Chlorotoluene	ND	ug/L	0.5	4/17/2019 7:50:00 PM	SAT	EPA 8260C	
Acetone	ND	ug/L	2.5	4/17/2019 7:50:00 PM	SAT	EPA 8260C	
Acrylonitrile	ND	ug/L	0.5	4/17/2019 7:50:00 PM	SAT	EPA 8260C	
Benzene	ND	ug/L	0.5	4/17/2019 7:50:00 PM	SAT	EPA 8260C	

Certifications held by Anatek Labs ID: EPA:ID00013; AZ:0701; FL(NELAP):E87893; ID:ID00013; MT:CERT0028; NM: ID00013;NV:ID00013; OR:ID200001-002; WA:C595
Certifications held by Anatek Labs WA: EPA:WA00169; ID:WA00169; WA:C585; MT:Cert0095; FL(NELAP): E871099

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Client: SPOKANE COUNTY UTILITIES
Address: 22515 N. ELK CHATTAROY ROAD
COLBERT, WA 99005
Attn: SVL ANALYTICAL, INC.

Batch #: 190415012
Project Name: SVL #X9D0349

Analytical Results Report

Sample Number 190415012-001
Client Sample ID GWDW-001-190410
Matrix Water
Comments

Sampling Date 4/10/2019
Sampling Time 8:31 AM
Sample Location X9D0349-01

Date/Time Received 4/12/201910:31 AM

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Bromobenzene	ND	ug/L	0.5	4/17/2019 7:50:00 PM	SAT	EPA 8260C	
Bromochloromethane	ND	ug/L	0.5	4/17/2019 7:50:00 PM	SAT	EPA 8260C	
Bromodichloromethane	ND	ug/L	0.5	4/17/2019 7:50:00 PM	SAT	EPA 8260C	
Bromoform	ND	ug/L	0.5	4/17/2019 7:50:00 PM	SAT	EPA 8260C	
Bromomethane	ND	ug/L	0.5	4/17/2019 7:50:00 PM	SAT	EPA 8260C	
Carbon disulfide	ND	ug/L	0.5	4/17/2019 7:50:00 PM	SAT	EPA 8260C	
Carbon Tetrachloride	ND	ug/L	0.5	4/17/2019 7:50:00 PM	SAT	EPA 8260C	
Chlorobenzene	ND	ug/L	0.5	4/17/2019 7:50:00 PM	SAT	EPA 8260C	
Chloroethane	ND	ug/L	0.5	4/17/2019 7:50:00 PM	SAT	EPA 8260C	
Chloroform	ND	ug/L	0.5	4/17/2019 7:50:00 PM	SAT	EPA 8260C	
Chloromethane	ND	ug/L	0.5	4/17/2019 7:50:00 PM	SAT	EPA 8260C	
cis-1,2-dichloroethene	ND	ug/L	0.5	4/17/2019 7:50:00 PM	SAT	EPA 8260C	
cis-1,3-Dichloropropene	ND	ug/L	0.5	4/17/2019 7:50:00 PM	SAT	EPA 8260C	
Dibromochloromethane	ND	ug/L	0.5	4/17/2019 7:50:00 PM	SAT	EPA 8260C	
Dibromomethane	ND	ug/L	0.5	4/17/2019 7:50:00 PM	SAT	EPA 8260C	
Dichlorodifluoromethane	ND	ug/L	0.5	4/17/2019 7:50:00 PM	SAT	EPA 8260C	
Ethylbenzene	ND	ug/L	0.5	4/17/2019 7:50:00 PM	SAT	EPA 8260C	
Hexachlorobutadiene	ND	ug/L	0.5	4/17/2019 7:50:00 PM	SAT	EPA 8260C	
Isopropylbenzene	ND	ug/L	0.5	4/17/2019 7:50:00 PM	SAT	EPA 8260C	
m+p-Xylene	ND	ug/L	0.5	4/17/2019 7:50:00 PM	SAT	EPA 8260C	
Methyl ethyl ketone (MEK)	ND	ug/L	2.5	4/17/2019 7:50:00 PM	SAT	EPA 8260C	
Methyl isobutyl ketone (MIBK)	ND	ug/L	2.5	4/17/2019 7:50:00 PM	SAT	EPA 8260C	
Methylene chloride	ND	ug/L	2.5	4/17/2019 7:50:00 PM	SAT	EPA 8260C	
methyl-t-butyl ether (MTBE)	ND	ug/L	0.5	4/17/2019 7:50:00 PM	SAT	EPA 8260C	
Naphthalene	ND	ug/L	0.5	4/17/2019 7:50:00 PM	SAT	EPA 8260C	
n-Butylbenzene	ND	ug/L	0.5	4/17/2019 7:50:00 PM	SAT	EPA 8260C	
n-Propylbenzene	ND	ug/L	0.5	4/17/2019 7:50:00 PM	SAT	EPA 8260C	
o-Xylene	ND	ug/L	0.5	4/17/2019 7:50:00 PM	SAT	EPA 8260C	

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Address: 22515 N. ELK CHATTAROY ROAD
COLBERT, WA 99005
Attn: SVL ANALYTICAL, INC.

Batch #: 190415012
Project Name: SVL #X9D0349

Analytical Results Report

Sample Number 190415012-001
Client Sample ID GWDW-001-190410
Matrix Water
Comments

Sampling Date 4/10/2019
Sampling Time 8:31 AM
Sample Location X9D0349-01

Date/Time Received 4/12/201910:31 AM

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
p-isopropyltoluene	ND	ug/L	0.5	4/17/2019 7:50:00 PM	SAT	EPA 8260C	
sec-Butylbenzene	ND	ug/L	0.5	4/17/2019 7:50:00 PM	SAT	EPA 8260C	
Styrene	ND	ug/L	0.5	4/17/2019 7:50:00 PM	SAT	EPA 8260C	
tert-Butylbenzene	ND	ug/L	0.5	4/17/2019 7:50:00 PM	SAT	EPA 8260C	
Tetrachloroethene	ND	ug/L	0.5	4/17/2019 7:50:00 PM	SAT	EPA 8260C	
Toluene	ND	ug/L	0.5	4/17/2019 7:50:00 PM	SAT	EPA 8260C	
trans-1,2-Dichloroethene	ND	ug/L	0.5	4/17/2019 7:50:00 PM	SAT	EPA 8260C	
trans-1,3-Dichloropropene	ND	ug/L	0.5	4/17/2019 7:50:00 PM	SAT	EPA 8260C	
Trichloroethene	ND	ug/L	0.5	4/17/2019 7:50:00 PM	SAT	EPA 8260C	
Trichlorofloromethane	ND	ug/L	0.5	4/17/2019 7:50:00 PM	SAT	EPA 8260C	
Vinyl Chloride	ND	ug/L	0.5	4/17/2019 7:50:00 PM	SAT	EPA 8260C	

Surrogate Data

Sample Number 190415012-001

Surrogate Standard	Method	Percent Recovery	Control Limits
1,2-Dichlorobenzene-d4	EPA 8260C	102.8	70-130
4-Bromofluorobenzene	EPA 8260C	95.2	70-130
Toluene-d8	EPA 8260C	97.6	70-130

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Client: SPOKANE COUNTY UTILITIES
Address: 22515 N. ELK CHATTAROY ROAD
COLBERT, WA 99005
Attn: SVL ANALYTICAL, INC.

Batch #: 190415012
Project Name: SVL #X9D0349

Analytical Results Report

Sample Number 190415012-002
Client Sample ID GWDW-002-190410
Matrix Water
Comments

Sampling Date 4/10/2019
Sampling Time 10:51 AM
Sample Location X9D0349-02

Date/Time Received 4/12/201910:31 AM

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
1,1,1,2-Tetrachloroethane	ND	ug/L	0.5	4/17/2019 8:19:00 PM	SAT	EPA 8260C	
1,1,1-Trichloroethane	ND	ug/L	0.5	4/17/2019 8:19:00 PM	SAT	EPA 8260C	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.5	4/17/2019 8:19:00 PM	SAT	EPA 8260C	
1,1,2-Trichloroethane	ND	ug/L	0.5	4/17/2019 8:19:00 PM	SAT	EPA 8260C	
1,1-Dichloroethane	ND	ug/L	0.5	4/17/2019 8:19:00 PM	SAT	EPA 8260C	
1,1-Dichloroethene	ND	ug/L	0.5	4/17/2019 8:19:00 PM	SAT	EPA 8260C	
1,1-dichloropropene	ND	ug/L	0.5	4/17/2019 8:19:00 PM	SAT	EPA 8260C	
1,2,3-Trichlorobenzene	ND	ug/L	0.5	4/17/2019 8:19:00 PM	SAT	EPA 8260C	
1,2,3-Trichloropropane	ND	ug/L	0.5	4/17/2019 8:19:00 PM	SAT	EPA 8260C	
1,2,4-Trichlorobenzene	ND	ug/L	0.5	4/17/2019 8:19:00 PM	SAT	EPA 8260C	
1,2,4-Trimethylbenzene	ND	ug/L	0.5	4/17/2019 8:19:00 PM	SAT	EPA 8260C	
1,2-Dibromo-3-chloropropane(DBCP)	ND	ug/L	0.5	4/17/2019 8:19:00 PM	SAT	EPA 8260C	
1,2-Dibromoethane	ND	ug/L	0.5	4/17/2019 8:19:00 PM	SAT	EPA 8260C	
1,2-Dichlorobenzene	ND	ug/L	0.5	4/17/2019 8:19:00 PM	SAT	EPA 8260C	
1,2-Dichloroethane	ND	ug/L	0.5	4/17/2019 8:19:00 PM	SAT	EPA 8260C	
1,2-Dichloropropane	ND	ug/L	0.5	4/17/2019 8:19:00 PM	SAT	EPA 8260C	
1,3,5-Trimethylbenzene	ND	ug/L	0.5	4/17/2019 8:19:00 PM	SAT	EPA 8260C	
1,3-Dichlorobenzene	ND	ug/L	0.5	4/17/2019 8:19:00 PM	SAT	EPA 8260C	
1,3-Dichloropropane	ND	ug/L	0.5	4/17/2019 8:19:00 PM	SAT	EPA 8260C	
1,4-Dichlorobenzene	ND	ug/L	0.5	4/17/2019 8:19:00 PM	SAT	EPA 8260C	
2,2-Dichloropropane	ND	ug/L	0.5	4/17/2019 8:19:00 PM	SAT	EPA 8260C	
2-Chlorotoluene	ND	ug/L	0.5	4/17/2019 8:19:00 PM	SAT	EPA 8260C	
2-hexanone	ND	ug/L	2.5	4/17/2019 8:19:00 PM	SAT	EPA 8260C	
4-Chlorotoluene	ND	ug/L	0.5	4/17/2019 8:19:00 PM	SAT	EPA 8260C	
Acetone	ND	ug/L	2.5	4/17/2019 8:19:00 PM	SAT	EPA 8260C	
Acrylonitrile	ND	ug/L	0.5	4/17/2019 8:19:00 PM	SAT	EPA 8260C	
Benzene	ND	ug/L	0.5	4/17/2019 8:19:00 PM	SAT	EPA 8260C	
Bromobenzene	ND	ug/L	0.5	4/17/2019 8:19:00 PM	SAT	EPA 8260C	

Anatek Labs, Inc.

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504 E Sprague Ste. D • Spokane WA 99202 • (509) 838-3999 • Fax (509) 838-4433 • email spokane@anateklabs.com

Client: SPOKANE COUNTY UTILITIES
Address: 22515 N. ELK CHATTAROY ROAD
COLBERT, WA 99005
Attn: SVL ANALYTICAL, INC.

Batch #: 190415012
Project Name: SVL #X9D0349

Analytical Results Report

Sample Number 190415012-002
Client Sample ID GWDW-002-190410
Matrix Water
Comments

Sampling Date 4/10/2019
Sampling Time 10:51 AM
Sample Location X9D0349-02

Date/Time Received 4/12/201910:31 AM

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Bromochloromethane	ND	ug/L	0.5	4/17/2019 8:19:00 PM	SAT	EPA 8260C	
Bromodichloromethane	ND	ug/L	0.5	4/17/2019 8:19:00 PM	SAT	EPA 8260C	
Bromoform	ND	ug/L	0.5	4/17/2019 8:19:00 PM	SAT	EPA 8260C	
Bromomethane	ND	ug/L	0.5	4/17/2019 8:19:00 PM	SAT	EPA 8260C	
Carbon disulfide	ND	ug/L	0.5	4/17/2019 8:19:00 PM	SAT	EPA 8260C	
Carbon Tetrachloride	ND	ug/L	0.5	4/17/2019 8:19:00 PM	SAT	EPA 8260C	
Chlorobenzene	ND	ug/L	0.5	4/17/2019 8:19:00 PM	SAT	EPA 8260C	
Chloroethane	ND	ug/L	0.5	4/17/2019 8:19:00 PM	SAT	EPA 8260C	
Chloroform	ND	ug/L	0.5	4/17/2019 8:19:00 PM	SAT	EPA 8260C	
Chloromethane	ND	ug/L	0.5	4/17/2019 8:19:00 PM	SAT	EPA 8260C	
cis-1,2-dichloroethene	ND	ug/L	0.5	4/17/2019 8:19:00 PM	SAT	EPA 8260C	
cis-1,3-Dichloropropene	ND	ug/L	0.5	4/17/2019 8:19:00 PM	SAT	EPA 8260C	
Dibromochloromethane	ND	ug/L	0.5	4/17/2019 8:19:00 PM	SAT	EPA 8260C	
Dibromomethane	ND	ug/L	0.5	4/17/2019 8:19:00 PM	SAT	EPA 8260C	
Dichlorodifluoromethane	ND	ug/L	0.5	4/17/2019 8:19:00 PM	SAT	EPA 8260C	
Ethylbenzene	ND	ug/L	0.5	4/17/2019 8:19:00 PM	SAT	EPA 8260C	
Hexachlorobutadiene	ND	ug/L	0.5	4/17/2019 8:19:00 PM	SAT	EPA 8260C	
Isopropylbenzene	ND	ug/L	0.5	4/17/2019 8:19:00 PM	SAT	EPA 8260C	
m+p-Xylene	ND	ug/L	0.5	4/17/2019 8:19:00 PM	SAT	EPA 8260C	
Methyl ethyl ketone (MEK)	ND	ug/L	2.5	4/17/2019 8:19:00 PM	SAT	EPA 8260C	
Methyl isobutyl ketone (MIBK)	ND	ug/L	2.5	4/17/2019 8:19:00 PM	SAT	EPA 8260C	
Methylene chloride	ND	ug/L	2.5	4/17/2019 8:19:00 PM	SAT	EPA 8260C	
methyl-t-butyl ether (MTBE)	ND	ug/L	0.5	4/17/2019 8:19:00 PM	SAT	EPA 8260C	
Naphthalene	ND	ug/L	0.5	4/17/2019 8:19:00 PM	SAT	EPA 8260C	
n-Butylbenzene	ND	ug/L	0.5	4/17/2019 8:19:00 PM	SAT	EPA 8260C	
n-Propylbenzene	ND	ug/L	0.5	4/17/2019 8:19:00 PM	SAT	EPA 8260C	
o-Xylene	ND	ug/L	0.5	4/17/2019 8:19:00 PM	SAT	EPA 8260C	
p-isopropyltoluene	ND	ug/L	0.5	4/17/2019 8:19:00 PM	SAT	EPA 8260C	

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Client: SPOKANE COUNTY UTILITIES
Address: 22515 N. ELK CHATTAROY ROAD
COLBERT, WA 99005
Attn: SVL ANALYTICAL, INC.

Batch #: 190415012
Project Name: SVL #X9D0349

Analytical Results Report

Sample Number 190415012-002
Client Sample ID GWDW-002-190410
Matrix Water
Comments

Sampling Date 4/10/2019
Sampling Time 10:51 AM
Sample Location X9D0349-02

Date/Time Received 4/12/201910:31 AM

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
sec-Butylbenzene	ND	ug/L	0.5	4/17/2019 8:19:00 PM	SAT	EPA 8260C	
Styrene	ND	ug/L	0.5	4/17/2019 8:19:00 PM	SAT	EPA 8260C	
tert-Butylbenzene	ND	ug/L	0.5	4/17/2019 8:19:00 PM	SAT	EPA 8260C	
Tetrachloroethene	ND	ug/L	0.5	4/17/2019 8:19:00 PM	SAT	EPA 8260C	
Toluene	5.24	ug/L	0.5	4/17/2019 8:19:00 PM	SAT	EPA 8260C	
trans-1,2-Dichloroethene	ND	ug/L	0.5	4/17/2019 8:19:00 PM	SAT	EPA 8260C	
trans-1,3-Dichloropropene	ND	ug/L	0.5	4/17/2019 8:19:00 PM	SAT	EPA 8260C	
Trichloroethene	ND	ug/L	0.5	4/17/2019 8:19:00 PM	SAT	EPA 8260C	
Trichloroflouromethane	ND	ug/L	0.5	4/17/2019 8:19:00 PM	SAT	EPA 8260C	
Vinyl Chloride	ND	ug/L	0.5	4/17/2019 8:19:00 PM	SAT	EPA 8260C	

Surrogate Data

Sample Number 190415012-002

Surrogate Standard	Method	Percent Recovery	Control Limits
1,2-Dichlorobenzene-d4	EPA 8260C	104.4	70-130
4-Bromofluorobenzene	EPA 8260C	94.4	70-130
Toluene-d8	EPA 8260C	100.0	70-130

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Client: SPOKANE COUNTY UTILITIES
Address: 22515 N. ELK CHATTAROY ROAD
COLBERT, WA 99005
Attn: SVL ANALYTICAL, INC.

Batch #: 190415012
Project Name: SVL #X9D0349

Analytical Results Report

Sample Number 190415012-003
Client Sample ID GWDW-003-190410
Matrix Water
Comments

Sampling Date 4/10/2019
Sampling Time 9:46 AM
Sample Location X9D0349-03

Date/Time Received 4/12/201910:31 AM

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
1,1,1,2-Tetrachloroethane	ND	ug/L	0.5	4/17/2019 8:49:00 PM	SAT	EPA 8260C	
1,1,1-Trichloroethane	ND	ug/L	0.5	4/17/2019 8:49:00 PM	SAT	EPA 8260C	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.5	4/17/2019 8:49:00 PM	SAT	EPA 8260C	
1,1,2-Trichloroethane	ND	ug/L	0.5	4/17/2019 8:49:00 PM	SAT	EPA 8260C	
1,1-Dichloroethane	ND	ug/L	0.5	4/17/2019 8:49:00 PM	SAT	EPA 8260C	
1,1-Dichloroethene	ND	ug/L	0.5	4/17/2019 8:49:00 PM	SAT	EPA 8260C	
1,1-dichloropropene	ND	ug/L	0.5	4/17/2019 8:49:00 PM	SAT	EPA 8260C	
1,2,3-Trichlorobenzene	ND	ug/L	0.5	4/17/2019 8:49:00 PM	SAT	EPA 8260C	
1,2,3-Trichloropropane	ND	ug/L	0.5	4/17/2019 8:49:00 PM	SAT	EPA 8260C	
1,2,4-Trichlorobenzene	ND	ug/L	0.5	4/17/2019 8:49:00 PM	SAT	EPA 8260C	
1,2,4-Trimethylbenzene	ND	ug/L	0.5	4/17/2019 8:49:00 PM	SAT	EPA 8260C	
1,2-Dibromo-3-chloropropane(DBCP)	ND	ug/L	0.5	4/17/2019 8:49:00 PM	SAT	EPA 8260C	
1,2-Dibromoethane	ND	ug/L	0.5	4/17/2019 8:49:00 PM	SAT	EPA 8260C	
1,2-Dichlorobenzene	ND	ug/L	0.5	4/17/2019 8:49:00 PM	SAT	EPA 8260C	
1,2-Dichloroethane	ND	ug/L	0.5	4/17/2019 8:49:00 PM	SAT	EPA 8260C	
1,2-Dichloropropane	ND	ug/L	0.5	4/17/2019 8:49:00 PM	SAT	EPA 8260C	
1,3,5-Trimethylbenzene	ND	ug/L	0.5	4/17/2019 8:49:00 PM	SAT	EPA 8260C	
1,3-Dichlorobenzene	ND	ug/L	0.5	4/17/2019 8:49:00 PM	SAT	EPA 8260C	
1,3-Dichloropropane	ND	ug/L	0.5	4/17/2019 8:49:00 PM	SAT	EPA 8260C	
1,4-Dichlorobenzene	ND	ug/L	0.5	4/17/2019 8:49:00 PM	SAT	EPA 8260C	
2,2-Dichloropropane	ND	ug/L	0.5	4/17/2019 8:49:00 PM	SAT	EPA 8260C	
2-Chlorotoluene	ND	ug/L	0.5	4/17/2019 8:49:00 PM	SAT	EPA 8260C	
2-hexanone	ND	ug/L	2.5	4/17/2019 8:49:00 PM	SAT	EPA 8260C	
4-Chlorotoluene	ND	ug/L	0.5	4/17/2019 8:49:00 PM	SAT	EPA 8260C	
Acetone	ND	ug/L	2.5	4/17/2019 8:49:00 PM	SAT	EPA 8260C	
Acrylonitrile	ND	ug/L	0.5	4/17/2019 8:49:00 PM	SAT	EPA 8260C	
Benzene	ND	ug/L	0.5	4/17/2019 8:49:00 PM	SAT	EPA 8260C	
Bromobenzene	ND	ug/L	0.5	4/17/2019 8:49:00 PM	SAT	EPA 8260C	

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Client: SPOKANE COUNTY UTILITIES
Address: 22515 N. ELK CHATTAROY ROAD
COLBERT, WA 99005
Attn: SVL ANALYTICAL, INC.

Batch #: 190415012
Project Name: SVL #X9D0349

Analytical Results Report

Sample Number 190415012-003
Client Sample ID GWDW-003-190410
Matrix Water
Comments

Sampling Date 4/10/2019
Sampling Time 9:46 AM
Sample Location X9D0349-03

Date/Time Received 4/12/201910:31 AM

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Bromochloromethane	ND	ug/L	0.5	4/17/2019 8:49:00 PM	SAT	EPA 8260C	
Bromodichloromethane	ND	ug/L	0.5	4/17/2019 8:49:00 PM	SAT	EPA 8260C	
Bromoform	ND	ug/L	0.5	4/17/2019 8:49:00 PM	SAT	EPA 8260C	
Bromomethane	ND	ug/L	0.5	4/17/2019 8:49:00 PM	SAT	EPA 8260C	
Carbon disulfide	ND	ug/L	0.5	4/17/2019 8:49:00 PM	SAT	EPA 8260C	
Carbon Tetrachloride	ND	ug/L	0.5	4/17/2019 8:49:00 PM	SAT	EPA 8260C	
Chlorobenzene	ND	ug/L	0.5	4/17/2019 8:49:00 PM	SAT	EPA 8260C	
Chloroethane	ND	ug/L	0.5	4/17/2019 8:49:00 PM	SAT	EPA 8260C	
Chloroform	ND	ug/L	0.5	4/17/2019 8:49:00 PM	SAT	EPA 8260C	
Chloromethane	ND	ug/L	0.5	4/17/2019 8:49:00 PM	SAT	EPA 8260C	
cis-1,2-dichloroethene	ND	ug/L	0.5	4/17/2019 8:49:00 PM	SAT	EPA 8260C	
cis-1,3-Dichloropropene	ND	ug/L	0.5	4/17/2019 8:49:00 PM	SAT	EPA 8260C	
Dibromochloromethane	ND	ug/L	0.5	4/17/2019 8:49:00 PM	SAT	EPA 8260C	
Dibromomethane	ND	ug/L	0.5	4/17/2019 8:49:00 PM	SAT	EPA 8260C	
Dichlorodifluoromethane	ND	ug/L	0.5	4/17/2019 8:49:00 PM	SAT	EPA 8260C	
Ethylbenzene	ND	ug/L	0.5	4/17/2019 8:49:00 PM	SAT	EPA 8260C	
Hexachlorobutadiene	ND	ug/L	0.5	4/17/2019 8:49:00 PM	SAT	EPA 8260C	
Isopropylbenzene	ND	ug/L	0.5	4/17/2019 8:49:00 PM	SAT	EPA 8260C	
m+p-Xylene	ND	ug/L	0.5	4/17/2019 8:49:00 PM	SAT	EPA 8260C	
Methyl ethyl ketone (MEK)	ND	ug/L	2.5	4/17/2019 8:49:00 PM	SAT	EPA 8260C	
Methyl isobutyl ketone (MIBK)	ND	ug/L	2.5	4/17/2019 8:49:00 PM	SAT	EPA 8260C	
Methylene chloride	ND	ug/L	2.5	4/17/2019 8:49:00 PM	SAT	EPA 8260C	
methyl-t-butyl ether (MTBE)	ND	ug/L	0.5	4/17/2019 8:49:00 PM	SAT	EPA 8260C	
Naphthalene	ND	ug/L	0.5	4/17/2019 8:49:00 PM	SAT	EPA 8260C	
n-Butylbenzene	ND	ug/L	0.5	4/17/2019 8:49:00 PM	SAT	EPA 8260C	
n-Propylbenzene	ND	ug/L	0.5	4/17/2019 8:49:00 PM	SAT	EPA 8260C	
o-Xylene	ND	ug/L	0.5	4/17/2019 8:49:00 PM	SAT	EPA 8260C	
p-isopropyltoluene	ND	ug/L	0.5	4/17/2019 8:49:00 PM	SAT	EPA 8260C	

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Client: SPOKANE COUNTY UTILITIES
Address: 22515 N. ELK CHATTAROY ROAD
COLBERT, WA 99005
Attn: SVL ANALYTICAL, INC.

Batch #: 190415012
Project Name: SVL #X9D0349

Analytical Results Report

Sample Number 190415012-003
Client Sample ID GWDW-003-190410
Matrix Water
Comments

Sampling Date 4/10/2019
Sampling Time 9:46 AM
Sample Location X9D0349-03

Date/Time Received 4/12/201910:31 AM

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
sec-Butylbenzene	ND	ug/L	0.5	4/17/2019 8:49:00 PM	SAT	EPA 8260C	
Styrene	ND	ug/L	0.5	4/17/2019 8:49:00 PM	SAT	EPA 8260C	
tert-Butylbenzene	ND	ug/L	0.5	4/17/2019 8:49:00 PM	SAT	EPA 8260C	
Tetrachloroethene	ND	ug/L	0.5	4/17/2019 8:49:00 PM	SAT	EPA 8260C	
Toluene	ND	ug/L	0.5	4/17/2019 8:49:00 PM	SAT	EPA 8260C	
trans-1,2-Dichloroethene	ND	ug/L	0.5	4/17/2019 8:49:00 PM	SAT	EPA 8260C	
trans-1,3-Dichloropropene	ND	ug/L	0.5	4/17/2019 8:49:00 PM	SAT	EPA 8260C	
Trichloroethene	ND	ug/L	0.5	4/17/2019 8:49:00 PM	SAT	EPA 8260C	
Trichloroflouromethane	ND	ug/L	0.5	4/17/2019 8:49:00 PM	SAT	EPA 8260C	
Vinyl Chloride	ND	ug/L	0.5	4/17/2019 8:49:00 PM	SAT	EPA 8260C	

Surrogate Data

Sample Number 190415012-003

Surrogate Standard	Method	Percent Recovery	Control Limits
1,2-Dichlorobenzene-d4	EPA 8260C	103.6	70-130
4-Bromofluorobenzene	EPA 8260C	94.0	70-130
Toluene-d8	EPA 8260C	96.0	70-130

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Client: SPOKANE COUNTY UTILITIES
Address: 22515 N. ELK CHATTAROY ROAD
COLBERT, WA 99005
Attn: SVL ANALYTICAL, INC.

Batch #: 190415012
Project Name: SVL #X9D0349

Analytical Results Report

Sample Number 190415012-004
Client Sample ID GWMS-004-190410
Matrix Water
Comments

Sampling Date 4/10/2019
Sampling Time 1:27 PM
Sample Location X9D0349-04

Date/Time Received 4/12/201910:31 AM

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
1,1,1,2-Tetrachloroethane	ND	ug/L	0.5	4/17/2019 9:18:00 PM	SAT	EPA 8260C	
1,1,1-Trichloroethane	ND	ug/L	0.5	4/17/2019 9:18:00 PM	SAT	EPA 8260C	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.5	4/17/2019 9:18:00 PM	SAT	EPA 8260C	
1,1,2-Trichloroethane	ND	ug/L	0.5	4/17/2019 9:18:00 PM	SAT	EPA 8260C	
1,1-Dichloroethane	ND	ug/L	0.5	4/17/2019 9:18:00 PM	SAT	EPA 8260C	
1,1-Dichloroethene	1.08	ug/L	0.5	4/17/2019 9:18:00 PM	SAT	EPA 8260C	
1,1-dichloropropene	ND	ug/L	0.5	4/17/2019 9:18:00 PM	SAT	EPA 8260C	
1,2,3-Trichlorobenzene	ND	ug/L	0.5	4/17/2019 9:18:00 PM	SAT	EPA 8260C	
1,2,3-Trichloropropane	ND	ug/L	0.5	4/17/2019 9:18:00 PM	SAT	EPA 8260C	
1,2,4-Trichlorobenzene	ND	ug/L	0.5	4/17/2019 9:18:00 PM	SAT	EPA 8260C	
1,2,4-Trimethylbenzene	ND	ug/L	0.5	4/17/2019 9:18:00 PM	SAT	EPA 8260C	
1,2-Dibromo-3-chloropropane(DBCP)	ND	ug/L	0.5	4/17/2019 9:18:00 PM	SAT	EPA 8260C	
1,2-Dibromoethane	ND	ug/L	0.5	4/17/2019 9:18:00 PM	SAT	EPA 8260C	
1,2-Dichlorobenzene	ND	ug/L	0.5	4/17/2019 9:18:00 PM	SAT	EPA 8260C	
1,2-Dichloroethane	ND	ug/L	0.5	4/17/2019 9:18:00 PM	SAT	EPA 8260C	
1,2-Dichloropropane	ND	ug/L	0.5	4/17/2019 9:18:00 PM	SAT	EPA 8260C	
1,3,5-Trimethylbenzene	ND	ug/L	0.5	4/17/2019 9:18:00 PM	SAT	EPA 8260C	
1,3-Dichlorobenzene	ND	ug/L	0.5	4/17/2019 9:18:00 PM	SAT	EPA 8260C	
1,3-Dichloropropane	ND	ug/L	0.5	4/17/2019 9:18:00 PM	SAT	EPA 8260C	
1,4-Dichlorobenzene	ND	ug/L	0.5	4/17/2019 9:18:00 PM	SAT	EPA 8260C	
2,2-Dichloropropane	ND	ug/L	0.5	4/17/2019 9:18:00 PM	SAT	EPA 8260C	
2-Chlorotoluene	ND	ug/L	0.5	4/17/2019 9:18:00 PM	SAT	EPA 8260C	
2-hexanone	ND	ug/L	2.5	4/17/2019 9:18:00 PM	SAT	EPA 8260C	
4-Chlorotoluene	ND	ug/L	0.5	4/17/2019 9:18:00 PM	SAT	EPA 8260C	
Acetone	ND	ug/L	2.5	4/17/2019 9:18:00 PM	SAT	EPA 8260C	
Acrylonitrile	ND	ug/L	0.5	4/17/2019 9:18:00 PM	SAT	EPA 8260C	
Benzene	ND	ug/L	0.5	4/17/2019 9:18:00 PM	SAT	EPA 8260C	
Bromobenzene	ND	ug/L	0.5	4/17/2019 9:18:00 PM	SAT	EPA 8260C	

Anatek Labs, Inc.

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504 E Sprague Ste. D • Spokane WA 99202 • (509) 838-3999 • Fax (509) 838-4433 • email spokane@anateklabs.com

Client: SPOKANE COUNTY UTILITIES
Address: 22515 N. ELK CHATTAROY ROAD
COLBERT, WA 99005
Attn: SVL ANALYTICAL, INC.

Batch #: 190415012
Project Name: SVL #X9D0349

Analytical Results Report

Sample Number 190415012-004
Client Sample ID GWMS-004-190410
Matrix Water
Comments

Sampling Date 4/10/2019
Sampling Time 1:27 PM
Sample Location X9D0349-04

Date/Time Received 4/12/201910:31 AM

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Bromochloromethane	ND	ug/L	0.5	4/17/2019 9:18:00 PM	SAT	EPA 8260C	
Bromodichloromethane	ND	ug/L	0.5	4/17/2019 9:18:00 PM	SAT	EPA 8260C	
Bromoform	ND	ug/L	0.5	4/17/2019 9:18:00 PM	SAT	EPA 8260C	
Bromomethane	ND	ug/L	0.5	4/17/2019 9:18:00 PM	SAT	EPA 8260C	
Carbon disulfide	ND	ug/L	0.5	4/17/2019 9:18:00 PM	SAT	EPA 8260C	
Carbon Tetrachloride	ND	ug/L	0.5	4/17/2019 9:18:00 PM	SAT	EPA 8260C	
Chlorobenzene	ND	ug/L	0.5	4/17/2019 9:18:00 PM	SAT	EPA 8260C	
Chloroethane	ND	ug/L	0.5	4/17/2019 9:18:00 PM	SAT	EPA 8260C	
Chloroform	ND	ug/L	0.5	4/17/2019 9:18:00 PM	SAT	EPA 8260C	
Chloromethane	ND	ug/L	0.5	4/17/2019 9:18:00 PM	SAT	EPA 8260C	
cis-1,2-dichloroethene	ND	ug/L	0.5	4/17/2019 9:18:00 PM	SAT	EPA 8260C	
cis-1,3-Dichloropropene	ND	ug/L	0.5	4/17/2019 9:18:00 PM	SAT	EPA 8260C	
Dibromochloromethane	ND	ug/L	0.5	4/17/2019 9:18:00 PM	SAT	EPA 8260C	
Dibromomethane	ND	ug/L	0.5	4/17/2019 9:18:00 PM	SAT	EPA 8260C	
Dichlorodifluoromethane	1.22	ug/L	0.5	4/17/2019 9:18:00 PM	SAT	EPA 8260C	
Ethylbenzene	ND	ug/L	0.5	4/17/2019 9:18:00 PM	SAT	EPA 8260C	
Hexachlorobutadiene	ND	ug/L	0.5	4/17/2019 9:18:00 PM	SAT	EPA 8260C	
Isopropylbenzene	ND	ug/L	0.5	4/17/2019 9:18:00 PM	SAT	EPA 8260C	
m+p-Xylene	ND	ug/L	0.5	4/17/2019 9:18:00 PM	SAT	EPA 8260C	
Methyl ethyl ketone (MEK)	ND	ug/L	2.5	4/17/2019 9:18:00 PM	SAT	EPA 8260C	
Methyl isobutyl ketone (MIBK)	ND	ug/L	2.5	4/17/2019 9:18:00 PM	SAT	EPA 8260C	
Methylene chloride	ND	ug/L	2.5	4/17/2019 9:18:00 PM	SAT	EPA 8260C	
methyl-t-butyl ether (MTBE)	ND	ug/L	0.5	4/17/2019 9:18:00 PM	SAT	EPA 8260C	
Naphthalene	ND	ug/L	0.5	4/17/2019 9:18:00 PM	SAT	EPA 8260C	
n-Butylbenzene	ND	ug/L	0.5	4/17/2019 9:18:00 PM	SAT	EPA 8260C	
n-Propylbenzene	ND	ug/L	0.5	4/17/2019 9:18:00 PM	SAT	EPA 8260C	
o-Xylene	ND	ug/L	0.5	4/17/2019 9:18:00 PM	SAT	EPA 8260C	
p-isopropyltoluene	ND	ug/L	0.5	4/17/2019 9:18:00 PM	SAT	EPA 8260C	

Certifications held by Anatek Labs ID: EPA:ID00013; AZ:0701; FL(NELAP):E87893; ID:ID00013; MT:CERT0028; NM: ID00013;NV:ID00013; OR:ID200001-002; WA:C595
Certifications held by Anatek Labs WA: EPA:WA00169; ID:WA00169; WA:C585; MT:Cert0095; FL(NELAP): E871099

Anatek Labs, Inc.

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Client: SPOKANE COUNTY UTILITIES
Address: 22515 N. ELK CHATTAROY ROAD
COLBERT, WA 99005
Attn: SVL ANALYTICAL, INC.

Batch #: 190415012
Project Name: SVL #X9D0349

Analytical Results Report

Sample Number 190415012-004
Client Sample ID GWMS-004-190410
Matrix Water
Comments

Sampling Date 4/10/2019
Sampling Time 1:27 PM
Sample Location X9D0349-04

Date/Time Received 4/12/201910:31 AM

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
sec-Butylbenzene	ND	ug/L	0.5	4/17/2019 9:18:00 PM	SAT	EPA 8260C	
Styrene	ND	ug/L	0.5	4/17/2019 9:18:00 PM	SAT	EPA 8260C	
tert-Butylbenzene	ND	ug/L	0.5	4/17/2019 9:18:00 PM	SAT	EPA 8260C	
Tetrachloroethene	ND	ug/L	0.5	4/17/2019 9:18:00 PM	SAT	EPA 8260C	
Toluene	ND	ug/L	0.5	4/17/2019 9:18:00 PM	SAT	EPA 8260C	
trans-1,2-Dichloroethene	ND	ug/L	0.5	4/17/2019 9:18:00 PM	SAT	EPA 8260C	
trans-1,3-Dichloropropene	ND	ug/L	0.5	4/17/2019 9:18:00 PM	SAT	EPA 8260C	
Trichloroethene	ND	ug/L	0.5	4/17/2019 9:18:00 PM	SAT	EPA 8260C	
Trichloroflouromethane	ND	ug/L	0.5	4/17/2019 9:18:00 PM	SAT	EPA 8260C	
Vinyl Chloride	ND	ug/L	0.5	4/17/2019 9:18:00 PM	SAT	EPA 8260C	

Surrogate Data

Sample Number 190415012-004

Surrogate Standard	Method	Percent Recovery	Control Limits
1,2-Dichlorobenzene-d4	EPA 8260C	102.8	70-130
4-Bromofluorobenzene	EPA 8260C	94.4	70-130
Toluene-d8	EPA 8260C	98.4	70-130

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Client: SPOKANE COUNTY UTILITIES
Address: 22515 N. ELK CHATTAROY ROAD
COLBERT, WA 99005
Attn: SVL ANALYTICAL, INC.

Batch #: 190415012
Project Name: SVL #X9D0349

Analytical Results Report

Sample Number 190415012-005
Client Sample ID GWMW-009-190410
Matrix Water
Comments

Sampling Date 4/10/2019
Sampling Time 11:00 AM
Sample Location X9D0349-05

Date/Time Received 4/12/201910:31 AM

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
1,1,1,2-Tetrachloroethane	ND	ug/L	0.5	4/17/2019 9:47:00 PM	SAT	EPA 8260C	
1,1,1-Trichloroethane	ND	ug/L	0.5	4/17/2019 9:47:00 PM	SAT	EPA 8260C	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.5	4/17/2019 9:47:00 PM	SAT	EPA 8260C	
1,1,2-Trichloroethane	ND	ug/L	0.5	4/17/2019 9:47:00 PM	SAT	EPA 8260C	
1,1-Dichloroethane	ND	ug/L	0.5	4/17/2019 9:47:00 PM	SAT	EPA 8260C	
1,1-Dichloroethene	ND	ug/L	0.5	4/17/2019 9:47:00 PM	SAT	EPA 8260C	
1,1-dichloropropene	ND	ug/L	0.5	4/17/2019 9:47:00 PM	SAT	EPA 8260C	
1,2,3-Trichlorobenzene	ND	ug/L	0.5	4/17/2019 9:47:00 PM	SAT	EPA 8260C	
1,2,3-Trichloropropane	ND	ug/L	0.5	4/17/2019 9:47:00 PM	SAT	EPA 8260C	
1,2,4-Trichlorobenzene	ND	ug/L	0.5	4/17/2019 9:47:00 PM	SAT	EPA 8260C	
1,2,4-Trimethylbenzene	ND	ug/L	0.5	4/17/2019 9:47:00 PM	SAT	EPA 8260C	
1,2-Dibromo-3-chloropropane(DBCP)	ND	ug/L	0.5	4/17/2019 9:47:00 PM	SAT	EPA 8260C	
1,2-Dibromoethane	ND	ug/L	0.5	4/17/2019 9:47:00 PM	SAT	EPA 8260C	
1,2-Dichlorobenzene	ND	ug/L	0.5	4/17/2019 9:47:00 PM	SAT	EPA 8260C	
1,2-Dichloroethane	ND	ug/L	0.5	4/17/2019 9:47:00 PM	SAT	EPA 8260C	
1,2-Dichloropropane	ND	ug/L	0.5	4/17/2019 9:47:00 PM	SAT	EPA 8260C	
1,3,5-Trimethylbenzene	ND	ug/L	0.5	4/17/2019 9:47:00 PM	SAT	EPA 8260C	
1,3-Dichlorobenzene	ND	ug/L	0.5	4/17/2019 9:47:00 PM	SAT	EPA 8260C	
1,3-Dichloropropane	ND	ug/L	0.5	4/17/2019 9:47:00 PM	SAT	EPA 8260C	
1,4-Dichlorobenzene	ND	ug/L	0.5	4/17/2019 9:47:00 PM	SAT	EPA 8260C	
2,2-Dichloropropane	ND	ug/L	0.5	4/17/2019 9:47:00 PM	SAT	EPA 8260C	
2-Chlorotoluene	ND	ug/L	0.5	4/17/2019 9:47:00 PM	SAT	EPA 8260C	
2-hexanone	ND	ug/L	2.5	4/17/2019 9:47:00 PM	SAT	EPA 8260C	
4-Chlorotoluene	ND	ug/L	0.5	4/17/2019 9:47:00 PM	SAT	EPA 8260C	
Acetone	ND	ug/L	2.5	4/17/2019 9:47:00 PM	SAT	EPA 8260C	
Acrylonitrile	ND	ug/L	0.5	4/17/2019 9:47:00 PM	SAT	EPA 8260C	
Benzene	ND	ug/L	0.5	4/17/2019 9:47:00 PM	SAT	EPA 8260C	
Bromobenzene	ND	ug/L	0.5	4/17/2019 9:47:00 PM	SAT	EPA 8260C	

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Client: SPOKANE COUNTY UTILITIES
Address: 22515 N. ELK CHATTAROY ROAD
COLBERT, WA 99005
Attn: SVL ANALYTICAL, INC.

Batch #: 190415012
Project Name: SVL #X9D0349

Analytical Results Report

Sample Number 190415012-005
Client Sample ID GWMW-009-190410
Matrix Water
Comments

Sampling Date 4/10/2019
Sampling Time 11:00 AM
Sample Location X9D0349-05

Date/Time Received 4/12/201910:31 AM

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Bromochloromethane	ND	ug/L	0.5	4/17/2019 9:47:00 PM	SAT	EPA 8260C	
Bromodichloromethane	ND	ug/L	0.5	4/17/2019 9:47:00 PM	SAT	EPA 8260C	
Bromoform	ND	ug/L	0.5	4/17/2019 9:47:00 PM	SAT	EPA 8260C	
Bromomethane	ND	ug/L	0.5	4/17/2019 9:47:00 PM	SAT	EPA 8260C	
Carbon disulfide	ND	ug/L	0.5	4/17/2019 9:47:00 PM	SAT	EPA 8260C	
Carbon Tetrachloride	ND	ug/L	0.5	4/17/2019 9:47:00 PM	SAT	EPA 8260C	
Chlorobenzene	ND	ug/L	0.5	4/17/2019 9:47:00 PM	SAT	EPA 8260C	
Chloroethane	ND	ug/L	0.5	4/17/2019 9:47:00 PM	SAT	EPA 8260C	
Chloroform	ND	ug/L	0.5	4/17/2019 9:47:00 PM	SAT	EPA 8260C	
Chloromethane	ND	ug/L	0.5	4/17/2019 9:47:00 PM	SAT	EPA 8260C	
cis-1,2-dichloroethene	ND	ug/L	0.5	4/17/2019 9:47:00 PM	SAT	EPA 8260C	
cis-1,3-Dichloropropene	ND	ug/L	0.5	4/17/2019 9:47:00 PM	SAT	EPA 8260C	
Dibromochloromethane	ND	ug/L	0.5	4/17/2019 9:47:00 PM	SAT	EPA 8260C	
Dibromomethane	ND	ug/L	0.5	4/17/2019 9:47:00 PM	SAT	EPA 8260C	
Dichlorodifluoromethane	ND	ug/L	0.5	4/17/2019 9:47:00 PM	SAT	EPA 8260C	
Ethylbenzene	ND	ug/L	0.5	4/17/2019 9:47:00 PM	SAT	EPA 8260C	
Hexachlorobutadiene	ND	ug/L	0.5	4/17/2019 9:47:00 PM	SAT	EPA 8260C	
Isopropylbenzene	ND	ug/L	0.5	4/17/2019 9:47:00 PM	SAT	EPA 8260C	
m+p-Xylene	ND	ug/L	0.5	4/17/2019 9:47:00 PM	SAT	EPA 8260C	
Methyl ethyl ketone (MEK)	ND	ug/L	2.5	4/17/2019 9:47:00 PM	SAT	EPA 8260C	
Methyl isobutyl ketone (MIBK)	ND	ug/L	2.5	4/17/2019 9:47:00 PM	SAT	EPA 8260C	
Methylene chloride	ND	ug/L	2.5	4/17/2019 9:47:00 PM	SAT	EPA 8260C	
methyl-t-butyl ether (MTBE)	ND	ug/L	0.5	4/17/2019 9:47:00 PM	SAT	EPA 8260C	
Naphthalene	ND	ug/L	0.5	4/17/2019 9:47:00 PM	SAT	EPA 8260C	
n-Butylbenzene	ND	ug/L	0.5	4/17/2019 9:47:00 PM	SAT	EPA 8260C	
n-Propylbenzene	ND	ug/L	0.5	4/17/2019 9:47:00 PM	SAT	EPA 8260C	
o-Xylene	ND	ug/L	0.5	4/17/2019 9:47:00 PM	SAT	EPA 8260C	
p-isopropyltoluene	ND	ug/L	0.5	4/17/2019 9:47:00 PM	SAT	EPA 8260C	

Anatek Labs, Inc.

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Client: SPOKANE COUNTY UTILITIES
Address: 22515 N. ELK CHATTAROY ROAD
COLBERT, WA 99005
Attn: SVL ANALYTICAL, INC.

Batch #: 190415012
Project Name: SVL #X9D0349

Analytical Results Report

Sample Number 190415012-005
Client Sample ID GWMW-009-190410
Matrix Water
Comments

Sampling Date 4/10/2019
Sampling Time 11:00 AM
Sample Location X9D0349-05

Date/Time Received 4/12/201910:31 AM

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
sec-Butylbenzene	ND	ug/L	0.5	4/17/2019 9:47:00 PM	SAT	EPA 8260C	
Styrene	ND	ug/L	0.5	4/17/2019 9:47:00 PM	SAT	EPA 8260C	
tert-Butylbenzene	ND	ug/L	0.5	4/17/2019 9:47:00 PM	SAT	EPA 8260C	
Tetrachloroethene	ND	ug/L	0.5	4/17/2019 9:47:00 PM	SAT	EPA 8260C	
Toluene	ND	ug/L	0.5	4/17/2019 9:47:00 PM	SAT	EPA 8260C	
trans-1,2-Dichloroethene	ND	ug/L	0.5	4/17/2019 9:47:00 PM	SAT	EPA 8260C	
trans-1,3-Dichloropropene	ND	ug/L	0.5	4/17/2019 9:47:00 PM	SAT	EPA 8260C	
Trichloroethene	ND	ug/L	0.5	4/17/2019 9:47:00 PM	SAT	EPA 8260C	
Trichloroflouromethane	ND	ug/L	0.5	4/17/2019 9:47:00 PM	SAT	EPA 8260C	
Vinyl Chloride	ND	ug/L	0.5	4/17/2019 9:47:00 PM	SAT	EPA 8260C	

Surrogate Data

Sample Number 190415012-005

Surrogate Standard	Method	Percent Recovery	Control Limits
1,2-Dichlorobenzene-d4	EPA 8260C	103.6	70-130
4-Bromofluorobenzene	EPA 8260C	82.4	70-130
Toluene-d8	EPA 8260C	92.4	70-130

Anatek Labs, Inc.

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Client: SPOKANE COUNTY UTILITIES
Address: 22515 N. ELK CHATTAROY ROAD
COLBERT, WA 99005
Attn: SVL ANALYTICAL, INC.

Batch #: 190415012
Project Name: SVL #X9D0349

Analytical Results Report

Sample Number 190415012-006
Client Sample ID GWMW-010-190410
Matrix Water
Comments

Sampling Date 4/10/2019
Sampling Time 10:00 AM
Sample Location X9D0349-06

Date/Time Received 4/12/201910:31 AM

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
1,1,1,2-Tetrachloroethane	ND	ug/L	0.5	4/17/2019 10:16:00 PM	SAT	EPA 8260C	
1,1,1-Trichloroethane	ND	ug/L	0.5	4/17/2019 10:16:00 PM	SAT	EPA 8260C	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.5	4/17/2019 10:16:00 PM	SAT	EPA 8260C	
1,1,2-Trichloroethane	ND	ug/L	0.5	4/17/2019 10:16:00 PM	SAT	EPA 8260C	
1,1-Dichloroethane	ND	ug/L	0.5	4/17/2019 10:16:00 PM	SAT	EPA 8260C	
1,1-Dichloroethene	ND	ug/L	0.5	4/17/2019 10:16:00 PM	SAT	EPA 8260C	
1,1-dichloropropene	ND	ug/L	0.5	4/17/2019 10:16:00 PM	SAT	EPA 8260C	
1,2,3-Trichlorobenzene	ND	ug/L	0.5	4/17/2019 10:16:00 PM	SAT	EPA 8260C	
1,2,3-Trichloropropane	ND	ug/L	0.5	4/17/2019 10:16:00 PM	SAT	EPA 8260C	
1,2,4-Trichlorobenzene	ND	ug/L	0.5	4/17/2019 10:16:00 PM	SAT	EPA 8260C	
1,2,4-Trimethylbenzene	ND	ug/L	0.5	4/17/2019 10:16:00 PM	SAT	EPA 8260C	
1,2-Dibromo-3-chloropropane(DBCP)	ND	ug/L	0.5	4/17/2019 10:16:00 PM	SAT	EPA 8260C	
1,2-Dibromoethane	ND	ug/L	0.5	4/17/2019 10:16:00 PM	SAT	EPA 8260C	
1,2-Dichlorobenzene	ND	ug/L	0.5	4/17/2019 10:16:00 PM	SAT	EPA 8260C	
1,2-Dichloroethane	ND	ug/L	0.5	4/17/2019 10:16:00 PM	SAT	EPA 8260C	
1,2-Dichloropropane	ND	ug/L	0.5	4/17/2019 10:16:00 PM	SAT	EPA 8260C	
1,3,5-Trimethylbenzene	ND	ug/L	0.5	4/17/2019 10:16:00 PM	SAT	EPA 8260C	
1,3-Dichlorobenzene	ND	ug/L	0.5	4/17/2019 10:16:00 PM	SAT	EPA 8260C	
1,3-Dichloropropane	ND	ug/L	0.5	4/17/2019 10:16:00 PM	SAT	EPA 8260C	
1,4-Dichlorobenzene	ND	ug/L	0.5	4/17/2019 10:16:00 PM	SAT	EPA 8260C	
2,2-Dichloropropane	ND	ug/L	0.5	4/17/2019 10:16:00 PM	SAT	EPA 8260C	
2-Chlorotoluene	ND	ug/L	0.5	4/17/2019 10:16:00 PM	SAT	EPA 8260C	
2-hexanone	ND	ug/L	2.5	4/17/2019 10:16:00 PM	SAT	EPA 8260C	
4-Chlorotoluene	ND	ug/L	0.5	4/17/2019 10:16:00 PM	SAT	EPA 8260C	
Acetone	ND	ug/L	2.5	4/17/2019 10:16:00 PM	SAT	EPA 8260C	
Acrylonitrile	ND	ug/L	0.5	4/17/2019 10:16:00 PM	SAT	EPA 8260C	
Benzene	ND	ug/L	0.5	4/17/2019 10:16:00 PM	SAT	EPA 8260C	
Bromobenzene	ND	ug/L	0.5	4/17/2019 10:16:00 PM	SAT	EPA 8260C	

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Client: SPOKANE COUNTY UTILITIES
Address: 22515 N. ELK CHATTAROY ROAD
COLBERT, WA 99005
Attn: SVL ANALYTICAL, INC.

Batch #: 190415012
Project Name: SVL #X9D0349

Analytical Results Report

Sample Number 190415012-006
Client Sample ID GWMW-010-190410
Matrix Water
Comments

Sampling Date 4/10/2019
Sampling Time 10:00 AM
Sample Location X9D0349-06

Date/Time Received 4/12/201910:31 AM

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Bromochloromethane	ND	ug/L	0.5	4/17/2019 10:16:00 PM	SAT	EPA 8260C	
Bromodichloromethane	ND	ug/L	0.5	4/17/2019 10:16:00 PM	SAT	EPA 8260C	
Bromoform	ND	ug/L	0.5	4/17/2019 10:16:00 PM	SAT	EPA 8260C	
Bromomethane	ND	ug/L	0.5	4/17/2019 10:16:00 PM	SAT	EPA 8260C	
Carbon disulfide	ND	ug/L	0.5	4/17/2019 10:16:00 PM	SAT	EPA 8260C	
Carbon Tetrachloride	ND	ug/L	0.5	4/17/2019 10:16:00 PM	SAT	EPA 8260C	
Chlorobenzene	ND	ug/L	0.5	4/17/2019 10:16:00 PM	SAT	EPA 8260C	
Chloroethane	ND	ug/L	0.5	4/17/2019 10:16:00 PM	SAT	EPA 8260C	
Chloroform	ND	ug/L	0.5	4/17/2019 10:16:00 PM	SAT	EPA 8260C	
Chloromethane	ND	ug/L	0.5	4/17/2019 10:16:00 PM	SAT	EPA 8260C	
cis-1,2-dichloroethene	ND	ug/L	0.5	4/17/2019 10:16:00 PM	SAT	EPA 8260C	
cis-1,3-Dichloropropene	ND	ug/L	0.5	4/17/2019 10:16:00 PM	SAT	EPA 8260C	
Dibromochloromethane	ND	ug/L	0.5	4/17/2019 10:16:00 PM	SAT	EPA 8260C	
Dibromomethane	ND	ug/L	0.5	4/17/2019 10:16:00 PM	SAT	EPA 8260C	
Dichlorodifluoromethane	ND	ug/L	0.5	4/17/2019 10:16:00 PM	SAT	EPA 8260C	
Ethylbenzene	ND	ug/L	0.5	4/17/2019 10:16:00 PM	SAT	EPA 8260C	
Hexachlorobutadiene	ND	ug/L	0.5	4/17/2019 10:16:00 PM	SAT	EPA 8260C	
Isopropylbenzene	ND	ug/L	0.5	4/17/2019 10:16:00 PM	SAT	EPA 8260C	
m+p-Xylene	ND	ug/L	0.5	4/17/2019 10:16:00 PM	SAT	EPA 8260C	
Methyl ethyl ketone (MEK)	ND	ug/L	2.5	4/17/2019 10:16:00 PM	SAT	EPA 8260C	
Methyl isobutyl ketone (MIBK)	ND	ug/L	2.5	4/17/2019 10:16:00 PM	SAT	EPA 8260C	
Methylene chloride	ND	ug/L	2.5	4/17/2019 10:16:00 PM	SAT	EPA 8260C	
methyl-t-butyl ether (MTBE)	ND	ug/L	0.5	4/17/2019 10:16:00 PM	SAT	EPA 8260C	
Naphthalene	ND	ug/L	0.5	4/17/2019 10:16:00 PM	SAT	EPA 8260C	
n-Butylbenzene	ND	ug/L	0.5	4/17/2019 10:16:00 PM	SAT	EPA 8260C	
n-Propylbenzene	ND	ug/L	0.5	4/17/2019 10:16:00 PM	SAT	EPA 8260C	
o-Xylene	ND	ug/L	0.5	4/17/2019 10:16:00 PM	SAT	EPA 8260C	
p-isopropyltoluene	ND	ug/L	0.5	4/17/2019 10:16:00 PM	SAT	EPA 8260C	

Certifications held by Anatek Labs ID: EPA:ID00013; AZ:0701; FL(NELAP):E87893; ID:ID00013; MT:CERT0028; NM: ID00013;NV:ID00013; OR:ID200001-002; WA:C595
Certifications held by Anatek Labs WA: EPA:WA00169; ID:WA00169; WA:C585; MT:Cert0095; FL(NELAP): E871099

Anatek Labs, Inc.

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504 E Sprague Ste. D • Spokane WA 99202 • (509) 838-3999 • Fax (509) 838-4433 • email spokane@anateklabs.com

Client: SPOKANE COUNTY UTILITIES
Address: 22515 N. ELK CHATTAROY ROAD
COLBERT, WA 99005
Attn: SVL ANALYTICAL, INC.

Batch #: 190415012
Project Name: SVL #X9D0349

Analytical Results Report

Sample Number 190415012-006
Client Sample ID GWMW-010-190410
Matrix Water
Comments

Sampling Date 4/10/2019
Sampling Time 10:00 AM
Sample Location X9D0349-06

Date/Time Received 4/12/201910:31 AM

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
sec-Butylbenzene	ND	ug/L	0.5	4/17/2019 10:16:00 PM	SAT	EPA 8260C	
Styrene	ND	ug/L	0.5	4/17/2019 10:16:00 PM	SAT	EPA 8260C	
tert-Butylbenzene	ND	ug/L	0.5	4/17/2019 10:16:00 PM	SAT	EPA 8260C	
Tetrachloroethene	ND	ug/L	0.5	4/17/2019 10:16:00 PM	SAT	EPA 8260C	
Toluene	ND	ug/L	0.5	4/17/2019 10:16:00 PM	SAT	EPA 8260C	
trans-1,2-Dichloroethene	ND	ug/L	0.5	4/17/2019 10:16:00 PM	SAT	EPA 8260C	
trans-1,3-Dichloropropene	ND	ug/L	0.5	4/17/2019 10:16:00 PM	SAT	EPA 8260C	
Trichloroethene	ND	ug/L	0.5	4/17/2019 10:16:00 PM	SAT	EPA 8260C	
Trichloroflouromethane	ND	ug/L	0.5	4/17/2019 10:16:00 PM	SAT	EPA 8260C	
Vinyl Chloride	ND	ug/L	0.5	4/17/2019 10:16:00 PM	SAT	EPA 8260C	

Surrogate Data

Sample Number 190415012-006

Surrogate Standard	Method	Percent Recovery	Control Limits
1,2-Dichlorobenzene-d4	EPA 8260C	103.6	70-130
4-Bromofluorobenzene	EPA 8260C	93.2	70-130
Toluene-d8	EPA 8260C	105.6	70-130

Anatek Labs, Inc.

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Client: SPOKANE COUNTY UTILITIES
Address: 22515 N. ELK CHATTAROY ROAD
COLBERT, WA 99005
Attn: SVL ANALYTICAL, INC.

Batch #: 190415012
Project Name: SVL #X9D0349

Analytical Results Report

Sample Number 190415012-007
Client Sample ID GWMW-013-190410
Matrix Water
Comments

Sampling Date 4/10/2019
Sampling Time 1:11 PM
Sample Location X9D0349-07

Date/Time Received 4/12/201910:31 AM

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
1,1,1,2-Tetrachloroethane	ND	ug/L	0.5	4/17/2019 10:46:00 PM	SAT	EPA 8260C	
1,1,1-Trichloroethane	ND	ug/L	0.5	4/17/2019 10:46:00 PM	SAT	EPA 8260C	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.5	4/17/2019 10:46:00 PM	SAT	EPA 8260C	
1,1,2-Trichloroethane	ND	ug/L	0.5	4/17/2019 10:46:00 PM	SAT	EPA 8260C	
1,1-Dichloroethane	1.30	ug/L	0.5	4/17/2019 10:46:00 PM	SAT	EPA 8260C	
1,1-Dichloroethene	ND	ug/L	0.5	4/17/2019 10:46:00 PM	SAT	EPA 8260C	
1,1-dichloropropene	ND	ug/L	0.5	4/17/2019 10:46:00 PM	SAT	EPA 8260C	
1,2,3-Trichlorobenzene	ND	ug/L	0.5	4/17/2019 10:46:00 PM	SAT	EPA 8260C	
1,2,3-Trichloropropane	ND	ug/L	0.5	4/17/2019 10:46:00 PM	SAT	EPA 8260C	
1,2,4-Trichlorobenzene	ND	ug/L	0.5	4/17/2019 10:46:00 PM	SAT	EPA 8260C	
1,2,4-Trimethylbenzene	ND	ug/L	0.5	4/17/2019 10:46:00 PM	SAT	EPA 8260C	
1,2-Dibromo-3-chloropropane(DBCP)	ND	ug/L	0.5	4/17/2019 10:46:00 PM	SAT	EPA 8260C	
1,2-Dibromoethane	ND	ug/L	0.5	4/17/2019 10:46:00 PM	SAT	EPA 8260C	
1,2-Dichlorobenzene	ND	ug/L	0.5	4/17/2019 10:46:00 PM	SAT	EPA 8260C	
1,2-Dichloroethane	ND	ug/L	0.5	4/17/2019 10:46:00 PM	SAT	EPA 8260C	
1,2-Dichloropropane	ND	ug/L	0.5	4/17/2019 10:46:00 PM	SAT	EPA 8260C	
1,3,5-Trimethylbenzene	ND	ug/L	0.5	4/17/2019 10:46:00 PM	SAT	EPA 8260C	
1,3-Dichlorobenzene	ND	ug/L	0.5	4/17/2019 10:46:00 PM	SAT	EPA 8260C	
1,3-Dichloropropane	ND	ug/L	0.5	4/17/2019 10:46:00 PM	SAT	EPA 8260C	
1,4-Dichlorobenzene	ND	ug/L	0.5	4/17/2019 10:46:00 PM	SAT	EPA 8260C	
2,2-Dichloropropane	ND	ug/L	0.5	4/17/2019 10:46:00 PM	SAT	EPA 8260C	
2-Chlorotoluene	ND	ug/L	0.5	4/17/2019 10:46:00 PM	SAT	EPA 8260C	
2-hexanone	ND	ug/L	2.5	4/17/2019 10:46:00 PM	SAT	EPA 8260C	
4-Chlorotoluene	ND	ug/L	0.5	4/17/2019 10:46:00 PM	SAT	EPA 8260C	
Acetone	ND	ug/L	2.5	4/17/2019 10:46:00 PM	SAT	EPA 8260C	
Acrylonitrile	ND	ug/L	0.5	4/17/2019 10:46:00 PM	SAT	EPA 8260C	
Benzene	ND	ug/L	0.5	4/17/2019 10:46:00 PM	SAT	EPA 8260C	
Bromobenzene	ND	ug/L	0.5	4/17/2019 10:46:00 PM	SAT	EPA 8260C	

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Client: SPOKANE COUNTY UTILITIES
Address: 22515 N. ELK CHATTAROY ROAD
COLBERT, WA 99005
Attn: SVL ANALYTICAL, INC.

Batch #: 190415012
Project Name: SVL #X9D0349

Analytical Results Report

Sample Number 190415012-007
Client Sample ID GWMW-013-190410
Matrix Water
Comments

Sampling Date 4/10/2019
Sampling Time 1:11 PM
Sample Location X9D0349-07

Date/Time Received 4/12/201910:31 AM

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Bromochloromethane	ND	ug/L	0.5	4/17/2019 10:46:00 PM	SAT	EPA 8260C	
Bromodichloromethane	ND	ug/L	0.5	4/17/2019 10:46:00 PM	SAT	EPA 8260C	
Bromoform	ND	ug/L	0.5	4/17/2019 10:46:00 PM	SAT	EPA 8260C	
Bromomethane	ND	ug/L	0.5	4/17/2019 10:46:00 PM	SAT	EPA 8260C	
Carbon disulfide	ND	ug/L	0.5	4/17/2019 10:46:00 PM	SAT	EPA 8260C	
Carbon Tetrachloride	ND	ug/L	0.5	4/17/2019 10:46:00 PM	SAT	EPA 8260C	
Chlorobenzene	ND	ug/L	0.5	4/17/2019 10:46:00 PM	SAT	EPA 8260C	
Chloroethane	ND	ug/L	0.5	4/17/2019 10:46:00 PM	SAT	EPA 8260C	
Chloroform	ND	ug/L	0.5	4/17/2019 10:46:00 PM	SAT	EPA 8260C	
Chloromethane	ND	ug/L	0.5	4/17/2019 10:46:00 PM	SAT	EPA 8260C	
cis-1,2-dichloroethene	ND	ug/L	0.5	4/17/2019 10:46:00 PM	SAT	EPA 8260C	
cis-1,3-Dichloropropene	ND	ug/L	0.5	4/17/2019 10:46:00 PM	SAT	EPA 8260C	
Dibromochloromethane	ND	ug/L	0.5	4/17/2019 10:46:00 PM	SAT	EPA 8260C	
Dibromomethane	ND	ug/L	0.5	4/17/2019 10:46:00 PM	SAT	EPA 8260C	
Dichlorodifluoromethane	1.59	ug/L	0.5	4/17/2019 10:46:00 PM	SAT	EPA 8260C	
Ethylbenzene	ND	ug/L	0.5	4/17/2019 10:46:00 PM	SAT	EPA 8260C	
Hexachlorobutadiene	ND	ug/L	0.5	4/17/2019 10:46:00 PM	SAT	EPA 8260C	
Isopropylbenzene	ND	ug/L	0.5	4/17/2019 10:46:00 PM	SAT	EPA 8260C	
m+p-Xylene	ND	ug/L	0.5	4/17/2019 10:46:00 PM	SAT	EPA 8260C	
Methyl ethyl ketone (MEK)	ND	ug/L	2.5	4/17/2019 10:46:00 PM	SAT	EPA 8260C	
Methyl isobutyl ketone (MIBK)	ND	ug/L	2.5	4/17/2019 10:46:00 PM	SAT	EPA 8260C	
Methylene chloride	ND	ug/L	2.5	4/17/2019 10:46:00 PM	SAT	EPA 8260C	
methyl-t-butyl ether (MTBE)	ND	ug/L	0.5	4/17/2019 10:46:00 PM	SAT	EPA 8260C	
Naphthalene	ND	ug/L	0.5	4/17/2019 10:46:00 PM	SAT	EPA 8260C	
n-Butylbenzene	ND	ug/L	0.5	4/17/2019 10:46:00 PM	SAT	EPA 8260C	
n-Propylbenzene	ND	ug/L	0.5	4/17/2019 10:46:00 PM	SAT	EPA 8260C	
o-Xylene	ND	ug/L	0.5	4/17/2019 10:46:00 PM	SAT	EPA 8260C	
p-isopropyltoluene	ND	ug/L	0.5	4/17/2019 10:46:00 PM	SAT	EPA 8260C	

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Client: SPOKANE COUNTY UTILITIES
Address: 22515 N. ELK CHATTAROY ROAD
COLBERT, WA 99005
Attn: SVL ANALYTICAL, INC.

Batch #: 190415012
Project Name: SVL #X9D0349

Analytical Results Report

Sample Number 190415012-007
Client Sample ID GWMW-013-190410
Matrix Water
Comments

Sampling Date 4/10/2019
Sampling Time 1:11 PM
Sample Location X9D0349-07

Date/Time Received 4/12/201910:31 AM

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
sec-Butylbenzene	ND	ug/L	0.5	4/17/2019 10:46:00 PM	SAT	EPA 8260C	
Styrene	ND	ug/L	0.5	4/17/2019 10:46:00 PM	SAT	EPA 8260C	
tert-Butylbenzene	ND	ug/L	0.5	4/17/2019 10:46:00 PM	SAT	EPA 8260C	
Tetrachloroethene	ND	ug/L	0.5	4/17/2019 10:46:00 PM	SAT	EPA 8260C	
Toluene	ND	ug/L	0.5	4/17/2019 10:46:00 PM	SAT	EPA 8260C	
trans-1,2-Dichloroethene	ND	ug/L	0.5	4/17/2019 10:46:00 PM	SAT	EPA 8260C	
trans-1,3-Dichloropropene	ND	ug/L	0.5	4/17/2019 10:46:00 PM	SAT	EPA 8260C	
Trichloroethene	ND	ug/L	0.5	4/17/2019 10:46:00 PM	SAT	EPA 8260C	
Trichloroflouromethane	ND	ug/L	0.5	4/17/2019 10:46:00 PM	SAT	EPA 8260C	
Vinyl Chloride	ND	ug/L	0.5	4/17/2019 10:46:00 PM	SAT	EPA 8260C	

Surrogate Data

Sample Number 190415012-007

Surrogate Standard	Method	Percent Recovery	Control Limits
1,2-Dichlorobenzene-d4	EPA 8260C	103.6	70-130
4-Bromofluorobenzene	EPA 8260C	97.2	70-130
Toluene-d8	EPA 8260C	106.8	70-130

Anatek Labs, Inc.

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Client: SPOKANE COUNTY UTILITIES
Address: 22515 N. ELK CHATTAROY ROAD
COLBERT, WA 99005
Attn: SVL ANALYTICAL, INC.

Batch #: 190415012
Project Name: SVL #X9D0349

Analytical Results Report

Sample Number 190415012-008
Client Sample ID GWMW-014-190410
Matrix Water
Comments

Sampling Date 4/10/2019
Sampling Time 9:27 AM
Sample Location X9D0349-08

Date/Time Received 4/12/201910:31 AM

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
1,1,1,2-Tetrachloroethane	ND	ug/L	0.5	4/17/2019 11:15:00 PM	SAT	EPA 8260C	
1,1,1-Trichloroethane	ND	ug/L	0.5	4/17/2019 11:15:00 PM	SAT	EPA 8260C	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.5	4/17/2019 11:15:00 PM	SAT	EPA 8260C	
1,1,2-Trichloroethane	ND	ug/L	0.5	4/17/2019 11:15:00 PM	SAT	EPA 8260C	
1,1-Dichloroethane	ND	ug/L	0.5	4/17/2019 11:15:00 PM	SAT	EPA 8260C	
1,1-Dichloroethene	ND	ug/L	0.5	4/17/2019 11:15:00 PM	SAT	EPA 8260C	
1,1-dichloropropene	ND	ug/L	0.5	4/17/2019 11:15:00 PM	SAT	EPA 8260C	
1,2,3-Trichlorobenzene	ND	ug/L	0.5	4/17/2019 11:15:00 PM	SAT	EPA 8260C	
1,2,3-Trichloropropane	ND	ug/L	0.5	4/17/2019 11:15:00 PM	SAT	EPA 8260C	
1,2,4-Trichlorobenzene	ND	ug/L	0.5	4/17/2019 11:15:00 PM	SAT	EPA 8260C	
1,2,4-Trimethylbenzene	ND	ug/L	0.5	4/17/2019 11:15:00 PM	SAT	EPA 8260C	
1,2-Dibromo-3-chloropropane(DBCP)	ND	ug/L	0.5	4/17/2019 11:15:00 PM	SAT	EPA 8260C	
1,2-Dibromoethane	ND	ug/L	0.5	4/17/2019 11:15:00 PM	SAT	EPA 8260C	
1,2-Dichlorobenzene	ND	ug/L	0.5	4/17/2019 11:15:00 PM	SAT	EPA 8260C	
1,2-Dichloroethane	ND	ug/L	0.5	4/17/2019 11:15:00 PM	SAT	EPA 8260C	
1,2-Dichloropropane	ND	ug/L	0.5	4/17/2019 11:15:00 PM	SAT	EPA 8260C	
1,3,5-Trimethylbenzene	ND	ug/L	0.5	4/17/2019 11:15:00 PM	SAT	EPA 8260C	
1,3-Dichlorobenzene	ND	ug/L	0.5	4/17/2019 11:15:00 PM	SAT	EPA 8260C	
1,3-Dichloropropane	ND	ug/L	0.5	4/17/2019 11:15:00 PM	SAT	EPA 8260C	
1,4-Dichlorobenzene	ND	ug/L	0.5	4/17/2019 11:15:00 PM	SAT	EPA 8260C	
2,2-Dichloropropane	ND	ug/L	0.5	4/17/2019 11:15:00 PM	SAT	EPA 8260C	
2-Chlorotoluene	ND	ug/L	0.5	4/17/2019 11:15:00 PM	SAT	EPA 8260C	
2-hexanone	ND	ug/L	2.5	4/17/2019 11:15:00 PM	SAT	EPA 8260C	
4-Chlorotoluene	ND	ug/L	0.5	4/17/2019 11:15:00 PM	SAT	EPA 8260C	
Acetone	ND	ug/L	2.5	4/17/2019 11:15:00 PM	SAT	EPA 8260C	
Acrylonitrile	ND	ug/L	0.5	4/17/2019 11:15:00 PM	SAT	EPA 8260C	
Benzene	ND	ug/L	0.5	4/17/2019 11:15:00 PM	SAT	EPA 8260C	
Bromobenzene	ND	ug/L	0.5	4/17/2019 11:15:00 PM	SAT	EPA 8260C	

Certifications held by Anatek Labs ID: EPA:ID00013; AZ:0701; FL(NELAP):E87893; ID:ID00013; MT:CERT0028; NM: ID00013;NV:ID00013; OR:ID200001-002; WA:C595
Certifications held by Anatek Labs WA: EPA:WA00169; ID:WA00169; WA:C585; MT:Cert0095; FL(NELAP): E871099

Anatek Labs, Inc.

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Client: SPOKANE COUNTY UTILITIES
Address: 22515 N. ELK CHATTAROY ROAD
COLBERT, WA 99005
Attn: SVL ANALYTICAL, INC.

Batch #: 190415012
Project Name: SVL #X9D0349

Analytical Results Report

Sample Number 190415012-008
Client Sample ID GWMW-014-190410
Matrix Water
Comments

Sampling Date 4/10/2019
Sampling Time 9:27 AM
Sample Location X9D0349-08

Date/Time Received 4/12/201910:31 AM

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Bromochloromethane	ND	ug/L	0.5	4/17/2019 11:15:00 PM	SAT	EPA 8260C	
Bromodichloromethane	ND	ug/L	0.5	4/17/2019 11:15:00 PM	SAT	EPA 8260C	
Bromoform	ND	ug/L	0.5	4/17/2019 11:15:00 PM	SAT	EPA 8260C	
Bromomethane	ND	ug/L	0.5	4/17/2019 11:15:00 PM	SAT	EPA 8260C	
Carbon disulfide	ND	ug/L	0.5	4/17/2019 11:15:00 PM	SAT	EPA 8260C	
Carbon Tetrachloride	ND	ug/L	0.5	4/17/2019 11:15:00 PM	SAT	EPA 8260C	
Chlorobenzene	ND	ug/L	0.5	4/17/2019 11:15:00 PM	SAT	EPA 8260C	
Chloroethane	ND	ug/L	0.5	4/17/2019 11:15:00 PM	SAT	EPA 8260C	
Chloroform	ND	ug/L	0.5	4/17/2019 11:15:00 PM	SAT	EPA 8260C	
Chloromethane	ND	ug/L	0.5	4/17/2019 11:15:00 PM	SAT	EPA 8260C	
cis-1,2-dichloroethene	ND	ug/L	0.5	4/17/2019 11:15:00 PM	SAT	EPA 8260C	
cis-1,3-Dichloropropene	ND	ug/L	0.5	4/17/2019 11:15:00 PM	SAT	EPA 8260C	
Dibromochloromethane	ND	ug/L	0.5	4/17/2019 11:15:00 PM	SAT	EPA 8260C	
Dibromomethane	ND	ug/L	0.5	4/17/2019 11:15:00 PM	SAT	EPA 8260C	
Dichlorodifluoromethane	ND	ug/L	0.5	4/17/2019 11:15:00 PM	SAT	EPA 8260C	
Ethylbenzene	ND	ug/L	0.5	4/17/2019 11:15:00 PM	SAT	EPA 8260C	
Hexachlorobutadiene	ND	ug/L	0.5	4/17/2019 11:15:00 PM	SAT	EPA 8260C	
Isopropylbenzene	ND	ug/L	0.5	4/17/2019 11:15:00 PM	SAT	EPA 8260C	
m+p-Xylene	ND	ug/L	0.5	4/17/2019 11:15:00 PM	SAT	EPA 8260C	
Methyl ethyl ketone (MEK)	ND	ug/L	2.5	4/17/2019 11:15:00 PM	SAT	EPA 8260C	
Methyl isobutyl ketone (MIBK)	ND	ug/L	2.5	4/17/2019 11:15:00 PM	SAT	EPA 8260C	
Methylene chloride	ND	ug/L	2.5	4/17/2019 11:15:00 PM	SAT	EPA 8260C	
methyl-t-butyl ether (MTBE)	ND	ug/L	0.5	4/17/2019 11:15:00 PM	SAT	EPA 8260C	
Naphthalene	ND	ug/L	0.5	4/17/2019 11:15:00 PM	SAT	EPA 8260C	
n-Butylbenzene	ND	ug/L	0.5	4/17/2019 11:15:00 PM	SAT	EPA 8260C	
n-Propylbenzene	ND	ug/L	0.5	4/17/2019 11:15:00 PM	SAT	EPA 8260C	
o-Xylene	ND	ug/L	0.5	4/17/2019 11:15:00 PM	SAT	EPA 8260C	
p-isopropyltoluene	ND	ug/L	0.5	4/17/2019 11:15:00 PM	SAT	EPA 8260C	

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Client: SPOKANE COUNTY UTILITIES
Address: 22515 N. ELK CHATTAROY ROAD
COLBERT, WA 99005
Attn: SVL ANALYTICAL, INC.

Batch #: 190415012
Project Name: SVL #X9D0349

Analytical Results Report

Sample Number 190415012-008
Client Sample ID GWMW-014-190410
Matrix Water
Comments

Sampling Date 4/10/2019
Sampling Time 9:27 AM
Sample Location X9D0349-08

Date/Time Received 4/12/201910:31 AM

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
sec-Butylbenzene	ND	ug/L	0.5	4/17/2019 11:15:00 PM	SAT	EPA 8260C	
Styrene	ND	ug/L	0.5	4/17/2019 11:15:00 PM	SAT	EPA 8260C	
tert-Butylbenzene	ND	ug/L	0.5	4/17/2019 11:15:00 PM	SAT	EPA 8260C	
Tetrachloroethene	ND	ug/L	0.5	4/17/2019 11:15:00 PM	SAT	EPA 8260C	
Toluene	ND	ug/L	0.5	4/17/2019 11:15:00 PM	SAT	EPA 8260C	
trans-1,2-Dichloroethene	ND	ug/L	0.5	4/17/2019 11:15:00 PM	SAT	EPA 8260C	
trans-1,3-Dichloropropene	ND	ug/L	0.5	4/17/2019 11:15:00 PM	SAT	EPA 8260C	
Trichloroethene	ND	ug/L	0.5	4/17/2019 11:15:00 PM	SAT	EPA 8260C	
Trichloroflouromethane	ND	ug/L	0.5	4/17/2019 11:15:00 PM	SAT	EPA 8260C	
Vinyl Chloride	ND	ug/L	0.5	4/17/2019 11:15:00 PM	SAT	EPA 8260C	

Surrogate Data

Sample Number 190415012-008

Surrogate Standard	Method	Percent Recovery	Control Limits
1,2-Dichlorobenzene-d4	EPA 8260C	102.8	70-130
4-Bromofluorobenzene	EPA 8260C	94.0	70-130
Toluene-d8	EPA 8260C	113.6	70-130

Anatek Labs, Inc.

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Client: SPOKANE COUNTY UTILITIES
Address: 22515 N. ELK CHATTAROY ROAD
COLBERT, WA 99005
Attn: SVL ANALYTICAL, INC.

Batch #: 190415012
Project Name: SVL #X9D0349

Analytical Results Report

Sample Number 190415012-009
Client Sample ID GWMW-019R-190410
Matrix Water
Comments

Sampling Date 4/10/2019
Sampling Time 2:00 PM
Sample Location X9D0349-09

Date/Time Received 4/12/201910:31 AM

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
1,1,1,2-Tetrachloroethane	ND	ug/L	0.5	4/17/2019 11:46:00 PM	SAT	EPA 8260C	
1,1,1-Trichloroethane	ND	ug/L	0.5	4/17/2019 11:46:00 PM	SAT	EPA 8260C	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.5	4/17/2019 11:46:00 PM	SAT	EPA 8260C	
1,1,2-Trichloroethane	ND	ug/L	0.5	4/17/2019 11:46:00 PM	SAT	EPA 8260C	
1,1-Dichloroethane	ND	ug/L	0.5	4/17/2019 11:46:00 PM	SAT	EPA 8260C	
1,1-Dichloroethene	ND	ug/L	0.5	4/17/2019 11:46:00 PM	SAT	EPA 8260C	
1,1-dichloropropene	ND	ug/L	0.5	4/17/2019 11:46:00 PM	SAT	EPA 8260C	
1,2,3-Trichlorobenzene	ND	ug/L	0.5	4/17/2019 11:46:00 PM	SAT	EPA 8260C	
1,2,3-Trichloropropane	ND	ug/L	0.5	4/17/2019 11:46:00 PM	SAT	EPA 8260C	
1,2,4-Trichlorobenzene	ND	ug/L	0.5	4/17/2019 11:46:00 PM	SAT	EPA 8260C	
1,2,4-Trimethylbenzene	ND	ug/L	0.5	4/17/2019 11:46:00 PM	SAT	EPA 8260C	
1,2-Dibromo-3-chloropropane(DBCP)	ND	ug/L	0.5	4/17/2019 11:46:00 PM	SAT	EPA 8260C	
1,2-Dibromoethane	ND	ug/L	0.5	4/17/2019 11:46:00 PM	SAT	EPA 8260C	
1,2-Dichlorobenzene	ND	ug/L	0.5	4/17/2019 11:46:00 PM	SAT	EPA 8260C	
1,2-Dichloroethane	ND	ug/L	0.5	4/17/2019 11:46:00 PM	SAT	EPA 8260C	
1,2-Dichloropropane	ND	ug/L	0.5	4/17/2019 11:46:00 PM	SAT	EPA 8260C	
1,3,5-Trimethylbenzene	ND	ug/L	0.5	4/17/2019 11:46:00 PM	SAT	EPA 8260C	
1,3-Dichlorobenzene	ND	ug/L	0.5	4/17/2019 11:46:00 PM	SAT	EPA 8260C	
1,3-Dichloropropane	ND	ug/L	0.5	4/17/2019 11:46:00 PM	SAT	EPA 8260C	
1,4-Dichlorobenzene	ND	ug/L	0.5	4/17/2019 11:46:00 PM	SAT	EPA 8260C	
2,2-Dichloropropane	ND	ug/L	0.5	4/17/2019 11:46:00 PM	SAT	EPA 8260C	
2-Chlorotoluene	ND	ug/L	0.5	4/17/2019 11:46:00 PM	SAT	EPA 8260C	
2-hexanone	ND	ug/L	2.5	4/17/2019 11:46:00 PM	SAT	EPA 8260C	
4-Chlorotoluene	ND	ug/L	0.5	4/17/2019 11:46:00 PM	SAT	EPA 8260C	
Acetone	ND	ug/L	2.5	4/17/2019 11:46:00 PM	SAT	EPA 8260C	
Acrylonitrile	ND	ug/L	0.5	4/17/2019 11:46:00 PM	SAT	EPA 8260C	
Benzene	ND	ug/L	0.5	4/17/2019 11:46:00 PM	SAT	EPA 8260C	
Bromobenzene	ND	ug/L	0.5	4/17/2019 11:46:00 PM	SAT	EPA 8260C	

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Client: SPOKANE COUNTY UTILITIES
Address: 22515 N. ELK CHATTAROY ROAD
COLBERT, WA 99005
Attn: SVL ANALYTICAL, INC.

Batch #: 190415012
Project Name: SVL #X9D0349

Analytical Results Report

Sample Number 190415012-009
Client Sample ID GWMW-019R-190410
Matrix Water
Comments

Sampling Date 4/10/2019
Sampling Time 2:00 PM
Sample Location X9D0349-09

Date/Time Received 4/12/201910:31 AM

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Bromochloromethane	ND	ug/L	0.5	4/17/2019 11:46:00 PM	SAT	EPA 8260C	
Bromodichloromethane	ND	ug/L	0.5	4/17/2019 11:46:00 PM	SAT	EPA 8260C	
Bromoform	ND	ug/L	0.5	4/17/2019 11:46:00 PM	SAT	EPA 8260C	
Bromomethane	ND	ug/L	0.5	4/17/2019 11:46:00 PM	SAT	EPA 8260C	
Carbon disulfide	ND	ug/L	0.5	4/17/2019 11:46:00 PM	SAT	EPA 8260C	
Carbon Tetrachloride	ND	ug/L	0.5	4/17/2019 11:46:00 PM	SAT	EPA 8260C	
Chlorobenzene	ND	ug/L	0.5	4/17/2019 11:46:00 PM	SAT	EPA 8260C	
Chloroethane	ND	ug/L	0.5	4/17/2019 11:46:00 PM	SAT	EPA 8260C	
Chloroform	ND	ug/L	0.5	4/17/2019 11:46:00 PM	SAT	EPA 8260C	
Chloromethane	ND	ug/L	0.5	4/17/2019 11:46:00 PM	SAT	EPA 8260C	
cis-1,2-dichloroethene	ND	ug/L	0.5	4/17/2019 11:46:00 PM	SAT	EPA 8260C	
cis-1,3-Dichloropropene	ND	ug/L	0.5	4/17/2019 11:46:00 PM	SAT	EPA 8260C	
Dibromochloromethane	ND	ug/L	0.5	4/17/2019 11:46:00 PM	SAT	EPA 8260C	
Dibromomethane	ND	ug/L	0.5	4/17/2019 11:46:00 PM	SAT	EPA 8260C	
Dichlorodifluoromethane	ND	ug/L	0.5	4/17/2019 11:46:00 PM	SAT	EPA 8260C	
Ethylbenzene	ND	ug/L	0.5	4/17/2019 11:46:00 PM	SAT	EPA 8260C	
Hexachlorobutadiene	ND	ug/L	0.5	4/17/2019 11:46:00 PM	SAT	EPA 8260C	
Isopropylbenzene	ND	ug/L	0.5	4/17/2019 11:46:00 PM	SAT	EPA 8260C	
m+p-Xylene	ND	ug/L	0.5	4/17/2019 11:46:00 PM	SAT	EPA 8260C	
Methyl ethyl ketone (MEK)	ND	ug/L	2.5	4/17/2019 11:46:00 PM	SAT	EPA 8260C	
Methyl isobutyl ketone (MIBK)	ND	ug/L	2.5	4/17/2019 11:46:00 PM	SAT	EPA 8260C	
Methylene chloride	ND	ug/L	2.5	4/17/2019 11:46:00 PM	SAT	EPA 8260C	
methyl-t-butyl ether (MTBE)	ND	ug/L	0.5	4/17/2019 11:46:00 PM	SAT	EPA 8260C	
Naphthalene	ND	ug/L	0.5	4/17/2019 11:46:00 PM	SAT	EPA 8260C	
n-Butylbenzene	ND	ug/L	0.5	4/17/2019 11:46:00 PM	SAT	EPA 8260C	
n-Propylbenzene	ND	ug/L	0.5	4/17/2019 11:46:00 PM	SAT	EPA 8260C	
o-Xylene	ND	ug/L	0.5	4/17/2019 11:46:00 PM	SAT	EPA 8260C	
p-isopropyltoluene	ND	ug/L	0.5	4/17/2019 11:46:00 PM	SAT	EPA 8260C	

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Client: SPOKANE COUNTY UTILITIES
Address: 22515 N. ELK CHATTAROY ROAD
COLBERT, WA 99005
Attn: SVL ANALYTICAL, INC.

Batch #: 190415012
Project Name: SVL #X9D0349

Analytical Results Report

Sample Number 190415012-009
Client Sample ID GWMW-019R-190410
Matrix Water
Comments

Sampling Date 4/10/2019
Sampling Time 2:00 PM
Sample Location X9D0349-09

Date/Time Received 4/12/201910:31 AM

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
sec-Butylbenzene	ND	ug/L	0.5	4/17/2019 11:46:00 PM	SAT	EPA 8260C	
Styrene	ND	ug/L	0.5	4/17/2019 11:46:00 PM	SAT	EPA 8260C	
tert-Butylbenzene	ND	ug/L	0.5	4/17/2019 11:46:00 PM	SAT	EPA 8260C	
Tetrachloroethene	ND	ug/L	0.5	4/17/2019 11:46:00 PM	SAT	EPA 8260C	
Toluene	ND	ug/L	0.5	4/17/2019 11:46:00 PM	SAT	EPA 8260C	
trans-1,2-Dichloroethene	ND	ug/L	0.5	4/17/2019 11:46:00 PM	SAT	EPA 8260C	
trans-1,3-Dichloropropene	ND	ug/L	0.5	4/17/2019 11:46:00 PM	SAT	EPA 8260C	
Trichloroethene	ND	ug/L	0.5	4/17/2019 11:46:00 PM	SAT	EPA 8260C	
Trichloroflouromethane	ND	ug/L	0.5	4/17/2019 11:46:00 PM	SAT	EPA 8260C	
Vinyl Chloride	ND	ug/L	0.5	4/17/2019 11:46:00 PM	SAT	EPA 8260C	

Surrogate Data

Sample Number 190415012-009

Surrogate Standard	Method	Percent Recovery	Control Limits
1,2-Dichlorobenzene-d4	EPA 8260C	103.6	70-130
4-Bromofluorobenzene	EPA 8260C	96.8	70-130
Toluene-d8	EPA 8260C	106.4	70-130

Anatek Labs, Inc.

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Client: SPOKANE COUNTY UTILITIES
Address: 22515 N. ELK CHATTAROY ROAD
COLBERT, WA 99005
Attn: SVL ANALYTICAL, INC.

Batch #: 190415012
Project Name: SVL #X9D0349

Analytical Results Report

Sample Number 190415012-010
Client Sample ID GWMW-029-190410
Matrix Water
Comments

Sampling Date 4/10/2019
Sampling Time 1:00 PM
Sample Location X9D0349-10

Date/Time Received 4/12/2019 10:31 AM

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
1,1,1,2-Tetrachloroethane	ND	ug/L	0.5	4/18/2019 12:17:00 AM	SAT	EPA 8260C	
1,1,1-Trichloroethane	ND	ug/L	0.5	4/18/2019 12:17:00 AM	SAT	EPA 8260C	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.5	4/18/2019 12:17:00 AM	SAT	EPA 8260C	
1,1,2-Trichloroethane	ND	ug/L	0.5	4/18/2019 12:17:00 AM	SAT	EPA 8260C	
1,1-Dichloroethane	ND	ug/L	0.5	4/18/2019 12:17:00 AM	SAT	EPA 8260C	
1,1-Dichloroethene	ND	ug/L	0.5	4/18/2019 12:17:00 AM	SAT	EPA 8260C	
1,1-dichloropropene	ND	ug/L	0.5	4/18/2019 12:17:00 AM	SAT	EPA 8260C	
1,2,3-Trichlorobenzene	ND	ug/L	0.5	4/18/2019 12:17:00 AM	SAT	EPA 8260C	
1,2,3-Trichloropropane	ND	ug/L	0.5	4/18/2019 12:17:00 AM	SAT	EPA 8260C	
1,2,4-Trichlorobenzene	ND	ug/L	0.5	4/18/2019 12:17:00 AM	SAT	EPA 8260C	
1,2,4-Trimethylbenzene	ND	ug/L	0.5	4/18/2019 12:17:00 AM	SAT	EPA 8260C	
1,2-Dibromo-3-chloropropane(DBCP)	ND	ug/L	0.5	4/18/2019 12:17:00 AM	SAT	EPA 8260C	
1,2-Dibromoethane	ND	ug/L	0.5	4/18/2019 12:17:00 AM	SAT	EPA 8260C	
1,2-Dichlorobenzene	ND	ug/L	0.5	4/18/2019 12:17:00 AM	SAT	EPA 8260C	
1,2-Dichloroethane	ND	ug/L	0.5	4/18/2019 12:17:00 AM	SAT	EPA 8260C	
1,2-Dichloropropane	ND	ug/L	0.5	4/18/2019 12:17:00 AM	SAT	EPA 8260C	
1,3,5-Trimethylbenzene	ND	ug/L	0.5	4/18/2019 12:17:00 AM	SAT	EPA 8260C	
1,3-Dichlorobenzene	ND	ug/L	0.5	4/18/2019 12:17:00 AM	SAT	EPA 8260C	
1,3-Dichloropropane	ND	ug/L	0.5	4/18/2019 12:17:00 AM	SAT	EPA 8260C	
1,4-Dichlorobenzene	ND	ug/L	0.5	4/18/2019 12:17:00 AM	SAT	EPA 8260C	
2,2-Dichloropropane	ND	ug/L	0.5	4/18/2019 12:17:00 AM	SAT	EPA 8260C	
2-Chlorotoluene	ND	ug/L	0.5	4/18/2019 12:17:00 AM	SAT	EPA 8260C	
2-hexanone	ND	ug/L	2.5	4/18/2019 12:17:00 AM	SAT	EPA 8260C	
4-Chlorotoluene	ND	ug/L	0.5	4/18/2019 12:17:00 AM	SAT	EPA 8260C	
Acetone	ND	ug/L	2.5	4/18/2019 12:17:00 AM	SAT	EPA 8260C	
Acrylonitrile	ND	ug/L	0.5	4/18/2019 12:17:00 AM	SAT	EPA 8260C	
Benzene	ND	ug/L	0.5	4/18/2019 12:17:00 AM	SAT	EPA 8260C	
Bromobenzene	ND	ug/L	0.5	4/18/2019 12:17:00 AM	SAT	EPA 8260C	

Certifications held by Anatek Labs ID: EPA:ID00013; AZ:0701; FL(NELAP):E87893; ID:ID00013; MT:CERT0028; NM: ID00013;NV:ID00013; OR:ID200001-002; WA:C595
Certifications held by Anatek Labs WA: EPA:WA00169; ID:WA00169; WA:C585; MT:Cert0095; FL(NELAP): E871099

Anatek Labs, Inc.

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Client: SPOKANE COUNTY UTILITIES
Address: 22515 N. ELK CHATTAROY ROAD
COLBERT, WA 99005
Attn: SVL ANALYTICAL, INC.

Batch #: 190415012
Project Name: SVL #X9D0349

Analytical Results Report

Sample Number 190415012-010
Client Sample ID GWMW-029-190410
Matrix Water
Comments

Sampling Date 4/10/2019
Sampling Time 1:00 PM
Sample Location X9D0349-10

Date/Time Received 4/12/2019 10:31 AM

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Bromochloromethane	ND	ug/L	0.5	4/18/2019 12:17:00 AM	SAT	EPA 8260C	
Bromodichloromethane	ND	ug/L	0.5	4/18/2019 12:17:00 AM	SAT	EPA 8260C	
Bromoform	ND	ug/L	0.5	4/18/2019 12:17:00 AM	SAT	EPA 8260C	
Bromomethane	ND	ug/L	0.5	4/18/2019 12:17:00 AM	SAT	EPA 8260C	
Carbon disulfide	ND	ug/L	0.5	4/18/2019 12:17:00 AM	SAT	EPA 8260C	
Carbon Tetrachloride	ND	ug/L	0.5	4/18/2019 12:17:00 AM	SAT	EPA 8260C	
Chlorobenzene	ND	ug/L	0.5	4/18/2019 12:17:00 AM	SAT	EPA 8260C	
Chloroethane	ND	ug/L	0.5	4/18/2019 12:17:00 AM	SAT	EPA 8260C	
Chloroform	ND	ug/L	0.5	4/18/2019 12:17:00 AM	SAT	EPA 8260C	
Chloromethane	ND	ug/L	0.5	4/18/2019 12:17:00 AM	SAT	EPA 8260C	
cis-1,2-dichloroethene	ND	ug/L	0.5	4/18/2019 12:17:00 AM	SAT	EPA 8260C	
cis-1,3-Dichloropropene	ND	ug/L	0.5	4/18/2019 12:17:00 AM	SAT	EPA 8260C	
Dibromochloromethane	ND	ug/L	0.5	4/18/2019 12:17:00 AM	SAT	EPA 8260C	
Dibromomethane	ND	ug/L	0.5	4/18/2019 12:17:00 AM	SAT	EPA 8260C	
Dichlorodifluoromethane	1.22	ug/L	0.5	4/18/2019 12:17:00 AM	SAT	EPA 8260C	
Ethylbenzene	ND	ug/L	0.5	4/18/2019 12:17:00 AM	SAT	EPA 8260C	
Hexachlorobutadiene	ND	ug/L	0.5	4/18/2019 12:17:00 AM	SAT	EPA 8260C	
Isopropylbenzene	ND	ug/L	0.5	4/18/2019 12:17:00 AM	SAT	EPA 8260C	
m+p-Xylene	ND	ug/L	0.5	4/18/2019 12:17:00 AM	SAT	EPA 8260C	
Methyl ethyl ketone (MEK)	ND	ug/L	2.5	4/18/2019 12:17:00 AM	SAT	EPA 8260C	
Methyl isobutyl ketone (MIBK)	ND	ug/L	2.5	4/18/2019 12:17:00 AM	SAT	EPA 8260C	
Methylene chloride	ND	ug/L	2.5	4/18/2019 12:17:00 AM	SAT	EPA 8260C	
methyl-t-butyl ether (MTBE)	ND	ug/L	0.5	4/18/2019 12:17:00 AM	SAT	EPA 8260C	
Naphthalene	ND	ug/L	0.5	4/18/2019 12:17:00 AM	SAT	EPA 8260C	
n-Butylbenzene	ND	ug/L	0.5	4/18/2019 12:17:00 AM	SAT	EPA 8260C	
n-Propylbenzene	ND	ug/L	0.5	4/18/2019 12:17:00 AM	SAT	EPA 8260C	
o-Xylene	ND	ug/L	0.5	4/18/2019 12:17:00 AM	SAT	EPA 8260C	
p-isopropyltoluene	ND	ug/L	0.5	4/18/2019 12:17:00 AM	SAT	EPA 8260C	

Certifications held by Anatek Labs ID: EPA:ID00013; AZ:0701; FL(NELAP):E87893; ID:ID00013; MT:CERT0028; NM: ID00013;NV:ID00013; OR:ID200001-002; WA:C595
Certifications held by Anatek Labs WA: EPA:WA00169; ID:WA00169; WA:C585; MT:Cert0095; FL(NELAP): E871099

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504 E Sprague Ste. D • Spokane WA 99202 • (509) 838-3999 • Fax (509) 838-4433 • email spokane@anateklabs.com

Client: SPOKANE COUNTY UTILITIES
Address: 22515 N. ELK CHATTAROY ROAD
COLBERT, WA 99005
Attn: SVL ANALYTICAL, INC.

Batch #: 190415012
Project Name: SVL #X9D0349

Analytical Results Report

Sample Number 190415012-010
Client Sample ID GWMW-029-190410
Matrix Water
Comments

Sampling Date 4/10/2019
Sampling Time 1:00 PM
Sample Location X9D0349-10

Date/Time Received 4/12/2019 10:31 AM

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
sec-Butylbenzene	ND	ug/L	0.5	4/18/2019 12:17:00 AM	SAT	EPA 8260C	
Styrene	ND	ug/L	0.5	4/18/2019 12:17:00 AM	SAT	EPA 8260C	
tert-Butylbenzene	ND	ug/L	0.5	4/18/2019 12:17:00 AM	SAT	EPA 8260C	
Tetrachloroethene	ND	ug/L	0.5	4/18/2019 12:17:00 AM	SAT	EPA 8260C	
Toluene	ND	ug/L	0.5	4/18/2019 12:17:00 AM	SAT	EPA 8260C	
trans-1,2-Dichloroethene	ND	ug/L	0.5	4/18/2019 12:17:00 AM	SAT	EPA 8260C	
trans-1,3-Dichloropropene	ND	ug/L	0.5	4/18/2019 12:17:00 AM	SAT	EPA 8260C	
Trichloroethene	ND	ug/L	0.5	4/18/2019 12:17:00 AM	SAT	EPA 8260C	
Trichloroflouromethane	ND	ug/L	0.5	4/18/2019 12:17:00 AM	SAT	EPA 8260C	
Vinyl Chloride	ND	ug/L	0.5	4/18/2019 12:17:00 AM	SAT	EPA 8260C	

Surrogate Data

Sample Number 190415012-010

Surrogate Standard	Method	Percent Recovery	Control Limits
1,2-Dichlorobenzene-d4	EPA 8260C	103.2	70-130
4-Bromofluorobenzene	EPA 8260C	96.0	70-130
Toluene-d8	EPA 8260C	116.8	70-130

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Client: SPOKANE COUNTY UTILITIES
Address: 22515 N. ELK CHATTAROY ROAD
COLBERT, WA 99005
Attn: SVL ANALYTICAL, INC.

Batch #: 190415012
Project Name: SVL #X9D0349

Analytical Results Report

Sample Number 190415012-011
Client Sample ID GWMW-031-190410
Matrix Water
Comments

Sampling Date 4/10/2019
Sampling Time 10:39 AM
Sample Location X9D0349-11

Date/Time Received 4/12/201910:31 AM

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
1,1,1,2-Tetrachloroethane	ND	ug/L	0.5	4/18/2019 1:48:00 AM	SAT	EPA 8260C	
1,1,1-Trichloroethane	ND	ug/L	0.5	4/18/2019 1:48:00 AM	SAT	EPA 8260C	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.5	4/18/2019 1:48:00 AM	SAT	EPA 8260C	
1,1,2-Trichloroethane	ND	ug/L	0.5	4/18/2019 1:48:00 AM	SAT	EPA 8260C	
1,1-Dichloroethane	ND	ug/L	0.5	4/18/2019 1:48:00 AM	SAT	EPA 8260C	
1,1-Dichloroethene	ND	ug/L	0.5	4/18/2019 1:48:00 AM	SAT	EPA 8260C	
1,1-dichloropropene	ND	ug/L	0.5	4/18/2019 1:48:00 AM	SAT	EPA 8260C	
1,2,3-Trichlorobenzene	ND	ug/L	0.5	4/18/2019 1:48:00 AM	SAT	EPA 8260C	
1,2,3-Trichloropropane	ND	ug/L	0.5	4/18/2019 1:48:00 AM	SAT	EPA 8260C	
1,2,4-Trichlorobenzene	ND	ug/L	0.5	4/18/2019 1:48:00 AM	SAT	EPA 8260C	
1,2,4-Trimethylbenzene	ND	ug/L	0.5	4/18/2019 1:48:00 AM	SAT	EPA 8260C	
1,2-Dibromo-3-chloropropane(DBCP)	ND	ug/L	0.5	4/18/2019 1:48:00 AM	SAT	EPA 8260C	
1,2-Dibromoethane	ND	ug/L	0.5	4/18/2019 1:48:00 AM	SAT	EPA 8260C	
1,2-Dichlorobenzene	ND	ug/L	0.5	4/18/2019 1:48:00 AM	SAT	EPA 8260C	
1,2-Dichloroethane	ND	ug/L	0.5	4/18/2019 1:48:00 AM	SAT	EPA 8260C	
1,2-Dichloropropane	ND	ug/L	0.5	4/18/2019 1:48:00 AM	SAT	EPA 8260C	
1,3,5-Trimethylbenzene	ND	ug/L	0.5	4/18/2019 1:48:00 AM	SAT	EPA 8260C	
1,3-Dichlorobenzene	ND	ug/L	0.5	4/18/2019 1:48:00 AM	SAT	EPA 8260C	
1,3-Dichloropropane	ND	ug/L	0.5	4/18/2019 1:48:00 AM	SAT	EPA 8260C	
1,4-Dichlorobenzene	ND	ug/L	0.5	4/18/2019 1:48:00 AM	SAT	EPA 8260C	
2,2-Dichloropropane	ND	ug/L	0.5	4/18/2019 1:48:00 AM	SAT	EPA 8260C	
2-Chlorotoluene	ND	ug/L	0.5	4/18/2019 1:48:00 AM	SAT	EPA 8260C	
2-hexanone	ND	ug/L	2.5	4/18/2019 1:48:00 AM	SAT	EPA 8260C	
4-Chlorotoluene	ND	ug/L	0.5	4/18/2019 1:48:00 AM	SAT	EPA 8260C	
Acetone	ND	ug/L	2.5	4/18/2019 1:48:00 AM	SAT	EPA 8260C	
Acrylonitrile	ND	ug/L	0.5	4/18/2019 1:48:00 AM	SAT	EPA 8260C	
Benzene	ND	ug/L	0.5	4/18/2019 1:48:00 AM	SAT	EPA 8260C	
Bromobenzene	ND	ug/L	0.5	4/18/2019 1:48:00 AM	SAT	EPA 8260C	

Anatek Labs, Inc.

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Client: SPOKANE COUNTY UTILITIES
Address: 22515 N. ELK CHATTAROY ROAD
COLBERT, WA 99005
Attn: SVL ANALYTICAL, INC.

Batch #: 190415012
Project Name: SVL #X9D0349

Analytical Results Report

Sample Number 190415012-011
Client Sample ID GWMW-031-190410
Matrix Water
Comments

Sampling Date 4/10/2019
Sampling Time 10:39 AM
Sample Location X9D0349-11

Date/Time Received 4/12/201910:31 AM

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Bromochloromethane	ND	ug/L	0.5	4/18/2019 1:48:00 AM	SAT	EPA 8260C	
Bromodichloromethane	ND	ug/L	0.5	4/18/2019 1:48:00 AM	SAT	EPA 8260C	
Bromoform	ND	ug/L	0.5	4/18/2019 1:48:00 AM	SAT	EPA 8260C	
Bromomethane	ND	ug/L	0.5	4/18/2019 1:48:00 AM	SAT	EPA 8260C	
Carbon disulfide	ND	ug/L	0.5	4/18/2019 1:48:00 AM	SAT	EPA 8260C	
Carbon Tetrachloride	ND	ug/L	0.5	4/18/2019 1:48:00 AM	SAT	EPA 8260C	
Chlorobenzene	ND	ug/L	0.5	4/18/2019 1:48:00 AM	SAT	EPA 8260C	
Chloroethane	ND	ug/L	0.5	4/18/2019 1:48:00 AM	SAT	EPA 8260C	
Chloroform	ND	ug/L	0.5	4/18/2019 1:48:00 AM	SAT	EPA 8260C	
Chloromethane	ND	ug/L	0.5	4/18/2019 1:48:00 AM	SAT	EPA 8260C	
cis-1,2-dichloroethene	ND	ug/L	0.5	4/18/2019 1:48:00 AM	SAT	EPA 8260C	
cis-1,3-Dichloropropene	ND	ug/L	0.5	4/18/2019 1:48:00 AM	SAT	EPA 8260C	
Dibromochloromethane	ND	ug/L	0.5	4/18/2019 1:48:00 AM	SAT	EPA 8260C	
Dibromomethane	ND	ug/L	0.5	4/18/2019 1:48:00 AM	SAT	EPA 8260C	
Dichlorodifluoromethane	ND	ug/L	0.5	4/18/2019 1:48:00 AM	SAT	EPA 8260C	
Ethylbenzene	ND	ug/L	0.5	4/18/2019 1:48:00 AM	SAT	EPA 8260C	
Hexachlorobutadiene	ND	ug/L	0.5	4/18/2019 1:48:00 AM	SAT	EPA 8260C	
Isopropylbenzene	ND	ug/L	0.5	4/18/2019 1:48:00 AM	SAT	EPA 8260C	
m+p-Xylene	ND	ug/L	0.5	4/18/2019 1:48:00 AM	SAT	EPA 8260C	
Methyl ethyl ketone (MEK)	ND	ug/L	2.5	4/18/2019 1:48:00 AM	SAT	EPA 8260C	
Methyl isobutyl ketone (MIBK)	ND	ug/L	2.5	4/18/2019 1:48:00 AM	SAT	EPA 8260C	
Methylene chloride	ND	ug/L	2.5	4/18/2019 1:48:00 AM	SAT	EPA 8260C	
methyl-t-butyl ether (MTBE)	ND	ug/L	0.5	4/18/2019 1:48:00 AM	SAT	EPA 8260C	
Naphthalene	ND	ug/L	0.5	4/18/2019 1:48:00 AM	SAT	EPA 8260C	
n-Butylbenzene	ND	ug/L	0.5	4/18/2019 1:48:00 AM	SAT	EPA 8260C	
n-Propylbenzene	ND	ug/L	0.5	4/18/2019 1:48:00 AM	SAT	EPA 8260C	
o-Xylene	ND	ug/L	0.5	4/18/2019 1:48:00 AM	SAT	EPA 8260C	
p-isopropyltoluene	ND	ug/L	0.5	4/18/2019 1:48:00 AM	SAT	EPA 8260C	

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Client: SPOKANE COUNTY UTILITIES
Address: 22515 N. ELK CHATTAROY ROAD
COLBERT, WA 99005
Attn: SVL ANALYTICAL, INC.

Batch #: 190415012
Project Name: SVL #X9D0349

Analytical Results Report

Sample Number 190415012-011
Client Sample ID GWMW-031-190410
Matrix Water
Comments

Sampling Date 4/10/2019
Sampling Time 10:39 AM
Sample Location X9D0349-11

Date/Time Received 4/12/201910:31 AM

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
sec-Butylbenzene	ND	ug/L	0.5	4/18/2019 1:48:00 AM	SAT	EPA 8260C	
Styrene	ND	ug/L	0.5	4/18/2019 1:48:00 AM	SAT	EPA 8260C	
tert-Butylbenzene	ND	ug/L	0.5	4/18/2019 1:48:00 AM	SAT	EPA 8260C	
Tetrachloroethene	ND	ug/L	0.5	4/18/2019 1:48:00 AM	SAT	EPA 8260C	
Toluene	ND	ug/L	0.5	4/18/2019 1:48:00 AM	SAT	EPA 8260C	
trans-1,2-Dichloroethene	ND	ug/L	0.5	4/18/2019 1:48:00 AM	SAT	EPA 8260C	
trans-1,3-Dichloropropene	ND	ug/L	0.5	4/18/2019 1:48:00 AM	SAT	EPA 8260C	
Trichloroethene	ND	ug/L	0.5	4/18/2019 1:48:00 AM	SAT	EPA 8260C	
Trichloroflouromethane	ND	ug/L	0.5	4/18/2019 1:48:00 AM	SAT	EPA 8260C	
Vinyl Chloride	ND	ug/L	0.5	4/18/2019 1:48:00 AM	SAT	EPA 8260C	

Surrogate Data

Sample Number 190415012-011

Surrogate Standard	Method	Percent Recovery	Control Limits
1,2-Dichlorobenzene-d4	EPA 8260C	102.8	70-130
4-Bromofluorobenzene	EPA 8260C	95.2	70-130
Toluene-d8	EPA 8260C	82.4	70-130

Anatek Labs, Inc.

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Client: SPOKANE COUNTY UTILITIES
Address: 22515 N. ELK CHATTAROY ROAD
COLBERT, WA 99005
Attn: SVL ANALYTICAL, INC.

Batch #: 190415012
Project Name: SVL #X9D0349

Analytical Results Report

Sample Number 190415012-012
Client Sample ID MWS-1-2-190410
Matrix Water
Comments

Sampling Date 4/11/2019
Sampling Time 1:30 PM
Sample Location X9D0349-12

Date/Time Received 4/12/201910:31 AM

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
1,1,1,2-Tetrachloroethane	ND	ug/L	0.5	4/18/2019 2:17:00 AM	SAT	EPA 8260C	
1,1,1-Trichloroethane	ND	ug/L	0.5	4/18/2019 2:17:00 AM	SAT	EPA 8260C	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.5	4/18/2019 2:17:00 AM	SAT	EPA 8260C	
1,1,2-Trichloroethane	ND	ug/L	0.5	4/18/2019 2:17:00 AM	SAT	EPA 8260C	
1,1-Dichloroethane	ND	ug/L	0.5	4/18/2019 2:17:00 AM	SAT	EPA 8260C	
1,1-Dichloroethene	ND	ug/L	0.5	4/18/2019 2:17:00 AM	SAT	EPA 8260C	
1,1-dichloropropene	ND	ug/L	0.5	4/18/2019 2:17:00 AM	SAT	EPA 8260C	
1,2,3-Trichlorobenzene	ND	ug/L	0.5	4/18/2019 2:17:00 AM	SAT	EPA 8260C	
1,2,3-Trichloropropane	ND	ug/L	0.5	4/18/2019 2:17:00 AM	SAT	EPA 8260C	
1,2,4-Trichlorobenzene	ND	ug/L	0.5	4/18/2019 2:17:00 AM	SAT	EPA 8260C	
1,2,4-Trimethylbenzene	ND	ug/L	0.5	4/18/2019 2:17:00 AM	SAT	EPA 8260C	
1,2-Dibromo-3-chloropropane(DBCP)	ND	ug/L	0.5	4/18/2019 2:17:00 AM	SAT	EPA 8260C	
1,2-Dibromoethane	ND	ug/L	0.5	4/18/2019 2:17:00 AM	SAT	EPA 8260C	
1,2-Dichlorobenzene	ND	ug/L	0.5	4/18/2019 2:17:00 AM	SAT	EPA 8260C	
1,2-Dichloroethane	ND	ug/L	0.5	4/18/2019 2:17:00 AM	SAT	EPA 8260C	
1,2-Dichloropropane	ND	ug/L	0.5	4/18/2019 2:17:00 AM	SAT	EPA 8260C	
1,3,5-Trimethylbenzene	ND	ug/L	0.5	4/18/2019 2:17:00 AM	SAT	EPA 8260C	
1,3-Dichlorobenzene	ND	ug/L	0.5	4/18/2019 2:17:00 AM	SAT	EPA 8260C	
1,3-Dichloropropane	ND	ug/L	0.5	4/18/2019 2:17:00 AM	SAT	EPA 8260C	
1,4-Dichlorobenzene	ND	ug/L	0.5	4/18/2019 2:17:00 AM	SAT	EPA 8260C	
2,2-Dichloropropane	ND	ug/L	0.5	4/18/2019 2:17:00 AM	SAT	EPA 8260C	
2-Chlorotoluene	ND	ug/L	0.5	4/18/2019 2:17:00 AM	SAT	EPA 8260C	
2-hexanone	ND	ug/L	2.5	4/18/2019 2:17:00 AM	SAT	EPA 8260C	
4-Chlorotoluene	ND	ug/L	0.5	4/18/2019 2:17:00 AM	SAT	EPA 8260C	
Acetone	ND	ug/L	2.5	4/18/2019 2:17:00 AM	SAT	EPA 8260C	
Acrylonitrile	ND	ug/L	0.5	4/18/2019 2:17:00 AM	SAT	EPA 8260C	
Benzene	ND	ug/L	0.5	4/18/2019 2:17:00 AM	SAT	EPA 8260C	
Bromobenzene	ND	ug/L	0.5	4/18/2019 2:17:00 AM	SAT	EPA 8260C	

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Client: SPOKANE COUNTY UTILITIES
Address: 22515 N. ELK CHATTAROY ROAD
COLBERT, WA 99005
Attn: SVL ANALYTICAL, INC.

Batch #: 190415012
Project Name: SVL #X9D0349

Analytical Results Report

Sample Number 190415012-012
Client Sample ID MWS-1-2-190410
Matrix Water
Comments

Sampling Date 4/11/2019
Sampling Time 1:30 PM
Sample Location X9D0349-12

Date/Time Received 4/12/201910:31 AM

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Bromochloromethane	ND	ug/L	0.5	4/18/2019 2:17:00 AM	SAT	EPA 8260C	
Bromodichloromethane	ND	ug/L	0.5	4/18/2019 2:17:00 AM	SAT	EPA 8260C	
Bromoform	ND	ug/L	0.5	4/18/2019 2:17:00 AM	SAT	EPA 8260C	
Bromomethane	ND	ug/L	0.5	4/18/2019 2:17:00 AM	SAT	EPA 8260C	
Carbon disulfide	ND	ug/L	0.5	4/18/2019 2:17:00 AM	SAT	EPA 8260C	
Carbon Tetrachloride	ND	ug/L	0.5	4/18/2019 2:17:00 AM	SAT	EPA 8260C	
Chlorobenzene	ND	ug/L	0.5	4/18/2019 2:17:00 AM	SAT	EPA 8260C	
Chloroethane	ND	ug/L	0.5	4/18/2019 2:17:00 AM	SAT	EPA 8260C	
Chloroform	ND	ug/L	0.5	4/18/2019 2:17:00 AM	SAT	EPA 8260C	
Chloromethane	ND	ug/L	0.5	4/18/2019 2:17:00 AM	SAT	EPA 8260C	
cis-1,2-dichloroethene	ND	ug/L	0.5	4/18/2019 2:17:00 AM	SAT	EPA 8260C	
cis-1,3-Dichloropropene	ND	ug/L	0.5	4/18/2019 2:17:00 AM	SAT	EPA 8260C	
Dibromochloromethane	ND	ug/L	0.5	4/18/2019 2:17:00 AM	SAT	EPA 8260C	
Dibromomethane	ND	ug/L	0.5	4/18/2019 2:17:00 AM	SAT	EPA 8260C	
Dichlorodifluoromethane	1.04	ug/L	0.5	4/18/2019 2:17:00 AM	SAT	EPA 8260C	
Ethylbenzene	ND	ug/L	0.5	4/18/2019 2:17:00 AM	SAT	EPA 8260C	
Hexachlorobutadiene	ND	ug/L	0.5	4/18/2019 2:17:00 AM	SAT	EPA 8260C	
Isopropylbenzene	ND	ug/L	0.5	4/18/2019 2:17:00 AM	SAT	EPA 8260C	
m+p-Xylene	ND	ug/L	0.5	4/18/2019 2:17:00 AM	SAT	EPA 8260C	
Methyl ethyl ketone (MEK)	ND	ug/L	2.5	4/18/2019 2:17:00 AM	SAT	EPA 8260C	
Methyl isobutyl ketone (MIBK)	ND	ug/L	2.5	4/18/2019 2:17:00 AM	SAT	EPA 8260C	
Methylene chloride	ND	ug/L	2.5	4/18/2019 2:17:00 AM	SAT	EPA 8260C	
methyl-t-butyl ether (MTBE)	ND	ug/L	0.5	4/18/2019 2:17:00 AM	SAT	EPA 8260C	
Naphthalene	ND	ug/L	0.5	4/18/2019 2:17:00 AM	SAT	EPA 8260C	
n-Butylbenzene	ND	ug/L	0.5	4/18/2019 2:17:00 AM	SAT	EPA 8260C	
n-Propylbenzene	ND	ug/L	0.5	4/18/2019 2:17:00 AM	SAT	EPA 8260C	
o-Xylene	ND	ug/L	0.5	4/18/2019 2:17:00 AM	SAT	EPA 8260C	
p-isopropyltoluene	ND	ug/L	0.5	4/18/2019 2:17:00 AM	SAT	EPA 8260C	

Certifications held by Anatek Labs ID: EPA:ID00013; AZ:0701; FL(NELAP):E87893; ID:ID00013; MT:CERT0028; NM: ID00013;NV:ID00013; OR:ID200001-002; WA:C595
Certifications held by Anatek Labs WA: EPA:WA00169; ID:WA00169; WA:C585; MT:Cert0095; FL(NELAP): E871099

Anatek Labs, Inc.

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Client: SPOKANE COUNTY UTILITIES
Address: 22515 N. ELK CHATTAROY ROAD
COLBERT, WA 99005
Attn: SVL ANALYTICAL, INC.

Batch #: 190415012
Project Name: SVL #X9D0349

Analytical Results Report

Sample Number 190415012-012
Client Sample ID MWS-1-2-190410
Matrix Water
Comments

Sampling Date 4/11/2019
Sampling Time 1:30 PM
Sample Location X9D0349-12

Date/Time Received 4/12/201910:31 AM

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
sec-Butylbenzene	ND	ug/L	0.5	4/18/2019 2:17:00 AM	SAT	EPA 8260C	
Styrene	ND	ug/L	0.5	4/18/2019 2:17:00 AM	SAT	EPA 8260C	
tert-Butylbenzene	ND	ug/L	0.5	4/18/2019 2:17:00 AM	SAT	EPA 8260C	
Tetrachloroethene	0.54	ug/L	0.5	4/18/2019 2:17:00 AM	SAT	EPA 8260C	
Toluene	ND	ug/L	0.5	4/18/2019 2:17:00 AM	SAT	EPA 8260C	
trans-1,2-Dichloroethene	ND	ug/L	0.5	4/18/2019 2:17:00 AM	SAT	EPA 8260C	
trans-1,3-Dichloropropene	ND	ug/L	0.5	4/18/2019 2:17:00 AM	SAT	EPA 8260C	
Trichloroethene	ND	ug/L	0.5	4/18/2019 2:17:00 AM	SAT	EPA 8260C	
Trichloroflouromethane	ND	ug/L	0.5	4/18/2019 2:17:00 AM	SAT	EPA 8260C	
Vinyl Chloride	ND	ug/L	0.5	4/18/2019 2:17:00 AM	SAT	EPA 8260C	

Surrogate Data

Sample Number 190415012-012

Surrogate Standard	Method	Percent Recovery	Control Limits
1,2-Dichlorobenzene-d4	EPA 8260C	104.0	70-130
4-Bromofluorobenzene	EPA 8260C	98.8	70-130
Toluene-d8	EPA 8260C	115.6	70-130

Anatek Labs, Inc.

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504 E Sprague Ste. D • Spokane WA 99202 • (509) 838-3999 • Fax (509) 838-4433 • email spokane@anateklabs.com

Client: SPOKANE COUNTY UTILITIES
Address: 22515 N. ELK CHATTAROY ROAD
COLBERT, WA 99005
Attn: SVL ANALYTICAL, INC.

Batch #: 190415012
Project Name: SVL #X9D0349

Analytical Results Report

Sample Number 190415012-013
Client Sample ID GWMS-005-140411
Matrix Water
Comments

Sampling Date 4/11/2019
Sampling Time 9:17 AM
Sample Location X9D0349-13

Date/Time Received 4/12/2019 10:31 AM

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
1,1,1,2-Tetrachloroethane	ND	ug/L	0.5	4/17/2019 7:20:00 PM	SAT	EPA 8260C	
1,1,1-Trichloroethane	ND	ug/L	0.5	4/17/2019 7:20:00 PM	SAT	EPA 8260C	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.5	4/17/2019 7:20:00 PM	SAT	EPA 8260C	
1,1,2-Trichloroethane	ND	ug/L	0.5	4/17/2019 7:20:00 PM	SAT	EPA 8260C	
1,1-Dichloroethane	ND	ug/L	0.5	4/17/2019 7:20:00 PM	SAT	EPA 8260C	
1,1-Dichloroethene	ND	ug/L	0.5	4/17/2019 7:20:00 PM	SAT	EPA 8260C	
1,1-dichloropropene	ND	ug/L	0.5	4/17/2019 7:20:00 PM	SAT	EPA 8260C	
1,2,3-Trichlorobenzene	ND	ug/L	0.5	4/17/2019 7:20:00 PM	SAT	EPA 8260C	
1,2,3-Trichloropropane	ND	ug/L	0.5	4/17/2019 7:20:00 PM	SAT	EPA 8260C	
1,2,4-Trichlorobenzene	ND	ug/L	0.5	4/17/2019 7:20:00 PM	SAT	EPA 8260C	
1,2,4-Trimethylbenzene	ND	ug/L	0.5	4/17/2019 7:20:00 PM	SAT	EPA 8260C	
1,2-Dibromo-3-chloropropane(DBCP)	ND	ug/L	0.5	4/17/2019 7:20:00 PM	SAT	EPA 8260C	
1,2-Dibromoethane	ND	ug/L	0.5	4/17/2019 7:20:00 PM	SAT	EPA 8260C	
1,2-Dichlorobenzene	ND	ug/L	0.5	4/17/2019 7:20:00 PM	SAT	EPA 8260C	
1,2-Dichloroethane	ND	ug/L	0.5	4/17/2019 7:20:00 PM	SAT	EPA 8260C	
1,2-Dichloropropane	ND	ug/L	0.5	4/17/2019 7:20:00 PM	SAT	EPA 8260C	
1,3,5-Trimethylbenzene	ND	ug/L	0.5	4/17/2019 7:20:00 PM	SAT	EPA 8260C	
1,3-Dichlorobenzene	ND	ug/L	0.5	4/17/2019 7:20:00 PM	SAT	EPA 8260C	
1,3-Dichloropropane	ND	ug/L	0.5	4/17/2019 7:20:00 PM	SAT	EPA 8260C	
1,4-Dichlorobenzene	ND	ug/L	0.5	4/17/2019 7:20:00 PM	SAT	EPA 8260C	
2,2-Dichloropropane	ND	ug/L	0.5	4/17/2019 7:20:00 PM	SAT	EPA 8260C	
2-Chlorotoluene	ND	ug/L	0.5	4/17/2019 7:20:00 PM	SAT	EPA 8260C	
2-hexanone	ND	ug/L	2.5	4/17/2019 7:20:00 PM	SAT	EPA 8260C	
4-Chlorotoluene	ND	ug/L	0.5	4/17/2019 7:20:00 PM	SAT	EPA 8260C	
Acetone	ND	ug/L	2.5	4/17/2019 7:20:00 PM	SAT	EPA 8260C	
Acrylonitrile	ND	ug/L	0.5	4/17/2019 7:20:00 PM	SAT	EPA 8260C	
Benzene	ND	ug/L	0.5	4/17/2019 7:20:00 PM	SAT	EPA 8260C	
Bromobenzene	ND	ug/L	0.5	4/17/2019 7:20:00 PM	SAT	EPA 8260C	

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Client: SPOKANE COUNTY UTILITIES
Address: 22515 N. ELK CHATTAROY ROAD
COLBERT, WA 99005
Attn: SVL ANALYTICAL, INC.

Batch #: 190415012
Project Name: SVL #X9D0349

Analytical Results Report

Sample Number 190415012-013
Client Sample ID GWMS-005-140411
Matrix Water
Comments

Sampling Date 4/11/2019
Sampling Time 9:17 AM
Sample Location X9D0349-13

Date/Time Received 4/12/2019 10:31 AM

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Bromochloromethane	ND	ug/L	0.5	4/17/2019 7:20:00 PM	SAT	EPA 8260C	
Bromodichloromethane	ND	ug/L	0.5	4/17/2019 7:20:00 PM	SAT	EPA 8260C	
Bromoform	ND	ug/L	0.5	4/17/2019 7:20:00 PM	SAT	EPA 8260C	
Bromomethane	ND	ug/L	0.5	4/17/2019 7:20:00 PM	SAT	EPA 8260C	
Carbon disulfide	ND	ug/L	0.5	4/17/2019 7:20:00 PM	SAT	EPA 8260C	
Carbon Tetrachloride	ND	ug/L	0.5	4/17/2019 7:20:00 PM	SAT	EPA 8260C	
Chlorobenzene	ND	ug/L	0.5	4/17/2019 7:20:00 PM	SAT	EPA 8260C	
Chloroethane	ND	ug/L	0.5	4/17/2019 7:20:00 PM	SAT	EPA 8260C	
Chloroform	ND	ug/L	0.5	4/17/2019 7:20:00 PM	SAT	EPA 8260C	
Chloromethane	ND	ug/L	0.5	4/17/2019 7:20:00 PM	SAT	EPA 8260C	
cis-1,2-dichloroethene	ND	ug/L	0.5	4/17/2019 7:20:00 PM	SAT	EPA 8260C	
cis-1,3-Dichloropropene	ND	ug/L	0.5	4/17/2019 7:20:00 PM	SAT	EPA 8260C	
Dibromochloromethane	ND	ug/L	0.5	4/17/2019 7:20:00 PM	SAT	EPA 8260C	
Dibromomethane	ND	ug/L	0.5	4/17/2019 7:20:00 PM	SAT	EPA 8260C	
Dichlorodifluoromethane	ND	ug/L	0.5	4/17/2019 7:20:00 PM	SAT	EPA 8260C	
Ethylbenzene	ND	ug/L	0.5	4/17/2019 7:20:00 PM	SAT	EPA 8260C	
Hexachlorobutadiene	ND	ug/L	0.5	4/17/2019 7:20:00 PM	SAT	EPA 8260C	
Isopropylbenzene	ND	ug/L	0.5	4/17/2019 7:20:00 PM	SAT	EPA 8260C	
m+p-Xylene	ND	ug/L	0.5	4/17/2019 7:20:00 PM	SAT	EPA 8260C	
Methyl ethyl ketone (MEK)	ND	ug/L	2.5	4/17/2019 7:20:00 PM	SAT	EPA 8260C	
Methyl isobutyl ketone (MIBK)	ND	ug/L	2.5	4/17/2019 7:20:00 PM	SAT	EPA 8260C	
Methylene chloride	ND	ug/L	2.5	4/17/2019 7:20:00 PM	SAT	EPA 8260C	
methyl-t-butyl ether (MTBE)	ND	ug/L	0.5	4/17/2019 7:20:00 PM	SAT	EPA 8260C	
Naphthalene	ND	ug/L	0.5	4/17/2019 7:20:00 PM	SAT	EPA 8260C	
n-Butylbenzene	ND	ug/L	0.5	4/17/2019 7:20:00 PM	SAT	EPA 8260C	
n-Propylbenzene	ND	ug/L	0.5	4/17/2019 7:20:00 PM	SAT	EPA 8260C	
o-Xylene	ND	ug/L	0.5	4/17/2019 7:20:00 PM	SAT	EPA 8260C	
p-isopropyltoluene	ND	ug/L	0.5	4/17/2019 7:20:00 PM	SAT	EPA 8260C	

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Client: SPOKANE COUNTY UTILITIES
Address: 22515 N. ELK CHATTAROY ROAD
COLBERT, WA 99005
Attn: SVL ANALYTICAL, INC.

Batch #: 190415012
Project Name: SVL #X9D0349

Analytical Results Report

Sample Number 190415012-013
Client Sample ID GWMS-005-140411
Matrix Water
Comments

Sampling Date 4/11/2019
Sampling Time 9:17 AM
Sample Location X9D0349-13

Date/Time Received 4/12/2019 10:31 AM

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
sec-Butylbenzene	ND	ug/L	0.5	4/17/2019 7:20:00 PM	SAT	EPA 8260C	
Styrene	ND	ug/L	0.5	4/17/2019 7:20:00 PM	SAT	EPA 8260C	
tert-Butylbenzene	ND	ug/L	0.5	4/17/2019 7:20:00 PM	SAT	EPA 8260C	
Tetrachloroethene	ND	ug/L	0.5	4/17/2019 7:20:00 PM	SAT	EPA 8260C	
Toluene	ND	ug/L	0.5	4/17/2019 7:20:00 PM	SAT	EPA 8260C	
trans-1,2-Dichloroethene	ND	ug/L	0.5	4/17/2019 7:20:00 PM	SAT	EPA 8260C	
trans-1,3-Dichloropropene	ND	ug/L	0.5	4/17/2019 7:20:00 PM	SAT	EPA 8260C	
Trichloroethene	ND	ug/L	0.5	4/17/2019 7:20:00 PM	SAT	EPA 8260C	
Trichloroflouromethane	ND	ug/L	0.5	4/17/2019 7:20:00 PM	SAT	EPA 8260C	
Vinyl Chloride	ND	ug/L	0.5	4/17/2019 7:20:00 PM	SAT	EPA 8260C	

Surrogate Data

Sample Number 190415012-013

Surrogate Standard	Method	Percent Recovery	Control Limits
1,2-Dichlorobenzene-d4	EPA 8260C	102.8	70-130
4-Bromofluorobenzene	EPA 8260C	95.6	70-130
Toluene-d8	EPA 8260C	100.8	70-130

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Client: SPOKANE COUNTY UTILITIES
Address: 22515 N. ELK CHATTAROY ROAD
COLBERT, WA 99005
Attn: SVL ANALYTICAL, INC.

Batch #: 190415012
Project Name: SVL #X9D0349

Analytical Results Report

Sample Number 190415012-013A
Client Sample ID GWMS-005-140411A
Matrix Water
Comments Sample Matrix Spike

Sampling Date 4/11/2019
Sampling Time 9:17 AM
Sample Location X9D0349-3A

Date/Time Received 4/12/2019 10:31 AM

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
1,1,1,2-Tetrachloroethane	9.44	ug/L	0.5	4/17/2019 5:23:00 PM	SAT	EPA 8260C	
1,1,1-Trichloroethane	11.7	ug/L	0.5	4/17/2019 5:23:00 PM	SAT	EPA 8260C	
1,1,2,2-Tetrachloroethane	9.18	ug/L	0.5	4/17/2019 5:23:00 PM	SAT	EPA 8260C	
1,1,2-Trichloroethane	8.63	ug/L	0.5	4/17/2019 5:23:00 PM	SAT	EPA 8260C	
1,1-Dichloroethane	12.0	ug/L	0.5	4/17/2019 5:23:00 PM	SAT	EPA 8260C	
1,1-Dichloroethene	11.7	ug/L	0.5	4/17/2019 5:23:00 PM	SAT	EPA 8260C	
1,1-dichloropropene	10.2	ug/L	0.5	4/17/2019 5:23:00 PM	SAT	EPA 8260C	
1,2,3-Trichlorobenzene	10.7	ug/L	0.5	4/17/2019 5:23:00 PM	SAT	EPA 8260C	
1,2,3-Trichloropropane	8.77	ug/L	0.5	4/17/2019 5:23:00 PM	SAT	EPA 8260C	
1,2,4-Trichlorobenzene	10.7	ug/L	0.5	4/17/2019 5:23:00 PM	SAT	EPA 8260C	
1,2,4-Trimethylbenzene	9.85	ug/L	0.5	4/17/2019 5:23:00 PM	SAT	EPA 8260C	
1,2-Dibromo-3-chloropropane(DBCP)	9.08	ug/L	0.5	4/17/2019 5:23:00 PM	SAT	EPA 8260C	
1,2-Dibromoethane	8.89	ug/L	0.5	4/17/2019 5:23:00 PM	SAT	EPA 8260C	
1,2-Dichlorobenzene	10.0	ug/L	0.5	4/17/2019 5:23:00 PM	SAT	EPA 8260C	
1,2-Dichloroethane	11.1	ug/L	0.5	4/17/2019 5:23:00 PM	SAT	EPA 8260C	
1,2-Dichloropropane	9.91	ug/L	0.5	4/17/2019 5:23:00 PM	SAT	EPA 8260C	
1,3,5-Trimethylbenzene	9.87	ug/L	0.5	4/17/2019 5:23:00 PM	SAT	EPA 8260C	
1,3-Dichlorobenzene	10.3	ug/L	0.5	4/17/2019 5:23:00 PM	SAT	EPA 8260C	
1,3-Dichloropropane	8.91	ug/L	0.5	4/17/2019 5:23:00 PM	SAT	EPA 8260C	
1,4-Dichlorobenzene	10.0	ug/L	0.5	4/17/2019 5:23:00 PM	SAT	EPA 8260C	
2,2-Dichloropropane	13.1	ug/L	0.5	4/17/2019 5:23:00 PM	SAT	EPA 8260C	
2-Chlorotoluene	10.5	ug/L	0.5	4/17/2019 5:23:00 PM	SAT	EPA 8260C	
2-hexanone	7.24	ug/L	2.5	4/17/2019 5:23:00 PM	SAT	EPA 8260C	
4-Chlorotoluene	10.6	ug/L	0.5	4/17/2019 5:23:00 PM	SAT	EPA 8260C	
Acetone	9.46	ug/L	2.5	4/17/2019 5:23:00 PM	SAT	EPA 8260C	
Acrylonitrile	9.55	ug/L	0.5	4/17/2019 5:23:00 PM	SAT	EPA 8260C	
Benzene	10.1	ug/L	0.5	4/17/2019 5:23:00 PM	SAT	EPA 8260C	
Bromobenzene	10.4	ug/L	0.5	4/17/2019 5:23:00 PM	SAT	EPA 8260C	

Anatek Labs, Inc.

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Client: SPOKANE COUNTY UTILITIES
Address: 22515 N. ELK CHATTAROY ROAD
COLBERT, WA 99005
Attn: SVL ANALYTICAL, INC.

Batch #: 190415012
Project Name: SVL #X9D0349

Analytical Results Report

Sample Number 190415012-013A
Client Sample ID GWMS-005-140411A
Matrix Water
Comments Sample Matrix Spike

Sampling Date 4/11/2019
Sampling Time 9:17 AM
Sample Location X9D0349-3A

Date/Time Received 4/12/2019 10:31 AM

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Bromochloromethane	11.3	ug/L	0.5	4/17/2019 5:23:00 PM	SAT	EPA 8260C	
Bromodichloromethane	10.8	ug/L	0.5	4/17/2019 5:23:00 PM	SAT	EPA 8260C	
Bromoform	10.1	ug/L	0.5	4/17/2019 5:23:00 PM	SAT	EPA 8260C	
Bromomethane	13.4	ug/L	0.5	4/17/2019 5:23:00 PM	SAT	EPA 8260C	
Carbon disulfide	10.1	ug/L	0.5	4/17/2019 5:23:00 PM	SAT	EPA 8260C	
Carbon Tetrachloride	12.0	ug/L	0.5	4/17/2019 5:23:00 PM	SAT	EPA 8260C	
Chlorobenzene	10.5	ug/L	0.5	4/17/2019 5:23:00 PM	SAT	EPA 8260C	
Chloroethane	11.5	ug/L	0.5	4/17/2019 5:23:00 PM	SAT	EPA 8260C	
Chloroform	11.4	ug/L	0.5	4/17/2019 5:23:00 PM	SAT	EPA 8260C	
Chloromethane	11.0	ug/L	0.5	4/17/2019 5:23:00 PM	SAT	EPA 8260C	
cis-1,2-dichloroethene	12.2	ug/L	0.5	4/17/2019 5:23:00 PM	SAT	EPA 8260C	
cis-1,3-Dichloropropene	9.80	ug/L	0.5	4/17/2019 5:23:00 PM	SAT	EPA 8260C	
Dibromochloromethane	9.31	ug/L	0.5	4/17/2019 5:23:00 PM	SAT	EPA 8260C	
Dibromomethane	11.2	ug/L	0.5	4/17/2019 5:23:00 PM	SAT	EPA 8260C	
Dichlorodifluoromethane	10.8	ug/L	0.5	4/17/2019 5:23:00 PM	SAT	EPA 8260C	
Ethylbenzene	10.2	ug/L	0.5	4/17/2019 5:23:00 PM	SAT	EPA 8260C	
Hexachlorobutadiene	10.8	ug/L	0.5	4/17/2019 5:23:00 PM	SAT	EPA 8260C	
Isopropylbenzene	10.6	ug/L	0.5	4/17/2019 5:23:00 PM	SAT	EPA 8260C	
m+p-Xylene	20.8	ug/L	0.5	4/17/2019 5:23:00 PM	SAT	EPA 8260C	
Methyl ethyl ketone (MEK)	8.22	ug/L	2.5	4/17/2019 5:23:00 PM	SAT	EPA 8260C	
Methyl isobutyl ketone (MIBK)	7.97	ug/L	2.5	4/17/2019 5:23:00 PM	SAT	EPA 8260C	
Methylene chloride	11.3	ug/L	2.5	4/17/2019 5:23:00 PM	SAT	EPA 8260C	
methyl-t-butyl ether (MTBE)	8.82	ug/L	0.5	4/17/2019 5:23:00 PM	SAT	EPA 8260C	
Naphthalene	10.2	ug/L	0.5	4/17/2019 5:23:00 PM	SAT	EPA 8260C	
n-Butylbenzene	10.2	ug/L	0.5	4/17/2019 5:23:00 PM	SAT	EPA 8260C	
n-Propylbenzene	10.6	ug/L	0.5	4/17/2019 5:23:00 PM	SAT	EPA 8260C	
o-Xylene	10.1	ug/L	0.5	4/17/2019 5:23:00 PM	SAT	EPA 8260C	
p-isopropyltoluene	10.5	ug/L	0.5	4/17/2019 5:23:00 PM	SAT	EPA 8260C	

Anatek Labs, Inc.

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Client: SPOKANE COUNTY UTILITIES
Address: 22515 N. ELK CHATTAROY ROAD
COLBERT, WA 99005
Attn: SVL ANALYTICAL, INC.

Batch #: 190415012
Project Name: SVL #X9D0349

Analytical Results Report

Sample Number 190415012-013A
Client Sample ID GWMS-005-140411A
Matrix Water
Comments Sample Matrix Spike

Sampling Date 4/11/2019
Sampling Time 9:17 AM
Sample Location X9D0349-3A

Date/Time Received 4/12/2019 10:31 AM

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
sec-Butylbenzene	10.7	ug/L	0.5	4/17/2019 5:23:00 PM	SAT	EPA 8260C	
Styrene	9.23	ug/L	0.5	4/17/2019 5:23:00 PM	SAT	EPA 8260C	
tert-Butylbenzene	10.8	ug/L	0.5	4/17/2019 5:23:00 PM	SAT	EPA 8260C	
Tetrachloroethene	9.71	ug/L	0.5	4/17/2019 5:23:00 PM	SAT	EPA 8260C	
Toluene	10.8	ug/L	0.5	4/17/2019 5:23:00 PM	SAT	EPA 8260C	
trans-1,2-Dichloroethene	11.7	ug/L	0.5	4/17/2019 5:23:00 PM	SAT	EPA 8260C	
trans-1,3-Dichloropropene	9.97	ug/L	0.5	4/17/2019 5:23:00 PM	SAT	EPA 8260C	
Trichloroethene	10.0	ug/L	0.5	4/17/2019 5:23:00 PM	SAT	EPA 8260C	
Trichloroflouromethane	11.0	ug/L	0.5	4/17/2019 5:23:00 PM	SAT	EPA 8260C	
Vinyl Chloride	10.1	ug/L	0.5	4/17/2019 5:23:00 PM	SAT	EPA 8260C	

Surrogate Data

Sample Number 190415012-013A

Surrogate Standard	Method	Percent Recovery	Control Limits
1,2-Dichlorobenzene-d4	EPA 8260C	100.0	70-130
4-Bromofluorobenzene	EPA 8260C	100.4	70-130
Toluene-d8	EPA 8260C	106.0	70-130

Anatek Labs, Inc.

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504 E Sprague Ste. D • Spokane WA 99202 • (509) 838-3999 • Fax (509) 838-4433 • email spokane@anateklabs.com

Client: SPOKANE COUNTY UTILITIES
Address: 22515 N. ELK CHATTAROY ROAD
COLBERT, WA 99005
Attn: SVL ANALYTICAL, INC.

Batch #: 190415012
Project Name: SVL #X9D0349

Analytical Results Report

Sample Number 190415012-013B
Client Sample ID GWMS-005-140411B
Matrix Water
Comments Sample Matrix Spike Duplicate

Sampling Date 4/11/2019
Sampling Time 9:17 AM
Sample Location X9D0349-3B

Date/Time Received 4/12/2019 10:31 AM

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
1,1,1,2-Tetrachloroethane	9.38	ug/L	0.5	4/17/2019 5:52:00 PM	SAT	EPA 8260C	
1,1,1-Trichloroethane	11.4	ug/L	0.5	4/17/2019 5:52:00 PM	SAT	EPA 8260C	
1,1,2,2-Tetrachloroethane	9.15	ug/L	0.5	4/17/2019 5:52:00 PM	SAT	EPA 8260C	
1,1,2-Trichloroethane	8.45	ug/L	0.5	4/17/2019 5:52:00 PM	SAT	EPA 8260C	
1,1-Dichloroethane	11.7	ug/L	0.5	4/17/2019 5:52:00 PM	SAT	EPA 8260C	
1,1-Dichloroethene	11.5	ug/L	0.5	4/17/2019 5:52:00 PM	SAT	EPA 8260C	
1,1-dichloropropene	10.1	ug/L	0.5	4/17/2019 5:52:00 PM	SAT	EPA 8260C	
1,2,3-Trichlorobenzene	10.5	ug/L	0.5	4/17/2019 5:52:00 PM	SAT	EPA 8260C	
1,2,3-Trichloropropane	9.13	ug/L	0.5	4/17/2019 5:52:00 PM	SAT	EPA 8260C	
1,2,4-Trichlorobenzene	10.3	ug/L	0.5	4/17/2019 5:52:00 PM	SAT	EPA 8260C	
1,2,4-Trimethylbenzene	9.54	ug/L	0.5	4/17/2019 5:52:00 PM	SAT	EPA 8260C	
1,2-Dibromo-3-chloropropane(DBCP)	9.10	ug/L	0.5	4/17/2019 5:52:00 PM	SAT	EPA 8260C	
1,2-Dibromoethane	8.82	ug/L	0.5	4/17/2019 5:52:00 PM	SAT	EPA 8260C	
1,2-Dichlorobenzene	9.81	ug/L	0.5	4/17/2019 5:52:00 PM	SAT	EPA 8260C	
1,2-Dichloroethane	10.8	ug/L	0.5	4/17/2019 5:52:00 PM	SAT	EPA 8260C	
1,2-Dichloropropane	9.92	ug/L	0.5	4/17/2019 5:52:00 PM	SAT	EPA 8260C	
1,3,5-Trimethylbenzene	9.20	ug/L	0.5	4/17/2019 5:52:00 PM	SAT	EPA 8260C	
1,3-Dichlorobenzene	9.96	ug/L	0.5	4/17/2019 5:52:00 PM	SAT	EPA 8260C	
1,3-Dichloropropane	8.81	ug/L	0.5	4/17/2019 5:52:00 PM	SAT	EPA 8260C	
1,4-Dichlorobenzene	9.90	ug/L	0.5	4/17/2019 5:52:00 PM	SAT	EPA 8260C	
2,2-Dichloropropane	12.9	ug/L	0.5	4/17/2019 5:52:00 PM	SAT	EPA 8260C	
2-Chlorotoluene	10.2	ug/L	0.5	4/17/2019 5:52:00 PM	SAT	EPA 8260C	
2-hexanone	7.71	ug/L	2.5	4/17/2019 5:52:00 PM	SAT	EPA 8260C	
4-Chlorotoluene	10.5	ug/L	0.5	4/17/2019 5:52:00 PM	SAT	EPA 8260C	
Acetone	9.41	ug/L	2.5	4/17/2019 5:52:00 PM	SAT	EPA 8260C	
Acrylonitrile	9.79	ug/L	0.5	4/17/2019 5:52:00 PM	SAT	EPA 8260C	
Benzene	9.83	ug/L	0.5	4/17/2019 5:52:00 PM	SAT	EPA 8260C	
Bromobenzene	10.1	ug/L	0.5	4/17/2019 5:52:00 PM	SAT	EPA 8260C	

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504 E Sprague Ste. D • Spokane WA 99202 • (509) 838-3999 • Fax (509) 838-4433 • email spokane@anateklabs.com

Client: SPOKANE COUNTY UTILITIES
Address: 22515 N. ELK CHATTAROY ROAD
COLBERT, WA 99005
Attn: SVL ANALYTICAL, INC.

Batch #: 190415012
Project Name: SVL #X9D0349

Analytical Results Report

Sample Number 190415012-013B
Client Sample ID GWMS-005-140411B
Matrix Water
Comments Sample Matrix Spike Duplicate

Sampling Date 4/11/2019
Sampling Time 9:17 AM
Sample Location X9D0349-3B

Date/Time Received 4/12/2019 10:31 AM

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Bromochloromethane	11.3	ug/L	0.5	4/17/2019 5:52:00 PM	SAT	EPA 8260C	
Bromodichloromethane	10.7	ug/L	0.5	4/17/2019 5:52:00 PM	SAT	EPA 8260C	
Bromoform	10.1	ug/L	0.5	4/17/2019 5:52:00 PM	SAT	EPA 8260C	
Bromomethane	13.2	ug/L	0.5	4/17/2019 5:52:00 PM	SAT	EPA 8260C	
Carbon disulfide	10.3	ug/L	0.5	4/17/2019 5:52:00 PM	SAT	EPA 8260C	
Carbon Tetrachloride	11.6	ug/L	0.5	4/17/2019 5:52:00 PM	SAT	EPA 8260C	
Chlorobenzene	9.71	ug/L	0.5	4/17/2019 5:52:00 PM	SAT	EPA 8260C	
Chloroethane	11.0	ug/L	0.5	4/17/2019 5:52:00 PM	SAT	EPA 8260C	
Chloroform	11.3	ug/L	0.5	4/17/2019 5:52:00 PM	SAT	EPA 8260C	
Chloromethane	10.6	ug/L	0.5	4/17/2019 5:52:00 PM	SAT	EPA 8260C	
cis-1,2-dichloroethene	11.6	ug/L	0.5	4/17/2019 5:52:00 PM	SAT	EPA 8260C	
cis-1,3-Dichloropropene	9.91	ug/L	0.5	4/17/2019 5:52:00 PM	SAT	EPA 8260C	
Dibromochloromethane	9.14	ug/L	0.5	4/17/2019 5:52:00 PM	SAT	EPA 8260C	
Dibromomethane	10.7	ug/L	0.5	4/17/2019 5:52:00 PM	SAT	EPA 8260C	
Dichlorodifluoromethane	10.5	ug/L	0.5	4/17/2019 5:52:00 PM	SAT	EPA 8260C	
Ethylbenzene	9.89	ug/L	0.5	4/17/2019 5:52:00 PM	SAT	EPA 8260C	
Hexachlorobutadiene	9.88	ug/L	0.5	4/17/2019 5:52:00 PM	SAT	EPA 8260C	
Isopropylbenzene	10.3	ug/L	0.5	4/17/2019 5:52:00 PM	SAT	EPA 8260C	
m+p-Xylene	20.0	ug/L	0.5	4/17/2019 5:52:00 PM	SAT	EPA 8260C	
Methyl ethyl ketone (MEK)	8.23	ug/L	2.5	4/17/2019 5:52:00 PM	SAT	EPA 8260C	
Methyl isobutyl ketone (MIBK)	8.52	ug/L	2.5	4/17/2019 5:52:00 PM	SAT	EPA 8260C	
Methylene chloride	11.3	ug/L	2.5	4/17/2019 5:52:00 PM	SAT	EPA 8260C	
methyl-t-butyl ether (MTBE)	8.98	ug/L	0.5	4/17/2019 5:52:00 PM	SAT	EPA 8260C	
Naphthalene	10.0	ug/L	0.5	4/17/2019 5:52:00 PM	SAT	EPA 8260C	
n-Butylbenzene	9.98	ug/L	0.5	4/17/2019 5:52:00 PM	SAT	EPA 8260C	
n-Propylbenzene	10.4	ug/L	0.5	4/17/2019 5:52:00 PM	SAT	EPA 8260C	
o-Xylene	9.90	ug/L	0.5	4/17/2019 5:52:00 PM	SAT	EPA 8260C	
p-isopropyltoluene	10.2	ug/L	0.5	4/17/2019 5:52:00 PM	SAT	EPA 8260C	

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Client: SPOKANE COUNTY UTILITIES
Address: 22515 N. ELK CHATTAROY ROAD
COLBERT, WA 99005
Attn: SVL ANALYTICAL, INC.

Batch #: 190415012
Project Name: SVL #X9D0349

Analytical Results Report

Sample Number 190415012-013B
Client Sample ID GWMS-005-140411B
Matrix Water
Comments Sample Matrix Spike Duplicate

Sampling Date 4/11/2019
Sampling Time 9:17 AM
Sample Location X9D0349-3B

Date/Time Received 4/12/2019 10:31 AM

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
sec-Butylbenzene	10.4	ug/L	0.5	4/17/2019 5:52:00 PM	SAT	EPA 8260C	
Styrene	8.32	ug/L	0.5	4/17/2019 5:52:00 PM	SAT	EPA 8260C	
tert-Butylbenzene	10.7	ug/L	0.5	4/17/2019 5:52:00 PM	SAT	EPA 8260C	
Tetrachloroethene	9.36	ug/L	0.5	4/17/2019 5:52:00 PM	SAT	EPA 8260C	
Toluene	10.6	ug/L	0.5	4/17/2019 5:52:00 PM	SAT	EPA 8260C	
trans-1,2-Dichloroethene	11.4	ug/L	0.5	4/17/2019 5:52:00 PM	SAT	EPA 8260C	
trans-1,3-Dichloropropene	9.76	ug/L	0.5	4/17/2019 5:52:00 PM	SAT	EPA 8260C	
Trichloroethene	10.2	ug/L	0.5	4/17/2019 5:52:00 PM	SAT	EPA 8260C	
Trichloroflouromethane	11.4	ug/L	0.5	4/17/2019 5:52:00 PM	SAT	EPA 8260C	
Vinyl Chloride	10.1	ug/L	0.5	4/17/2019 5:52:00 PM	SAT	EPA 8260C	

Surrogate Data

Sample Number 190415012-013B

Surrogate Standard	Method	Percent Recovery	Control Limits
1,2-Dichlorobenzene-d4	EPA 8260C	100.8	70-130
4-Bromofluorobenzene	EPA 8260C	101.6	70-130
Toluene-d8	EPA 8260C	108.0	70-130

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Client: SPOKANE COUNTY UTILITIES
Address: 22515 N. ELK CHATTAROY ROAD
COLBERT, WA 99005
Attn: SVL ANALYTICAL, INC.

Batch #: 190415012
Project Name: SVL #X9D0349

Analytical Results Report

Sample Number 190415012-014
Client Sample ID GWMW-016-190411
Matrix Water
Comments

Sampling Date 4/11/2019
Sampling Time 10:00 AM
Sample Location X9D0349-14

Date/Time Received 4/12/201910:31 AM

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
1,1,1,2-Tetrachloroethane	ND	ug/L	4	4/18/2019 4:13:00 AM	SAT	EPA 8260C	
1,1,1-Trichloroethane	ND	ug/L	4	4/18/2019 4:13:00 AM	SAT	EPA 8260C	
1,1,2,2-Tetrachloroethane	ND	ug/L	4	4/18/2019 4:13:00 AM	SAT	EPA 8260C	
1,1,2-Trichloroethane	ND	ug/L	4	4/18/2019 4:13:00 AM	SAT	EPA 8260C	
1,1-Dichloroethane	14.8	ug/L	4	4/18/2019 4:13:00 AM	SAT	EPA 8260C	
1,1-Dichloroethene	ND	ug/L	4	4/18/2019 4:13:00 AM	SAT	EPA 8260C	
1,1-dichloropropene	ND	ug/L	4	4/18/2019 4:13:00 AM	SAT	EPA 8260C	
1,2,3-Trichlorobenzene	ND	ug/L	4	4/18/2019 4:13:00 AM	SAT	EPA 8260C	
1,2,3-Trichloropropane	ND	ug/L	4	4/18/2019 4:13:00 AM	SAT	EPA 8260C	
1,2,4-Trichlorobenzene	ND	ug/L	4	4/18/2019 4:13:00 AM	SAT	EPA 8260C	
1,2,4-Trimethylbenzene	9.41	ug/L	4	4/18/2019 4:13:00 AM	SAT	EPA 8260C	
1,2-Dibromo-3-chloropropane(DBCP)	ND	ug/L	4	4/18/2019 4:13:00 AM	SAT	EPA 8260C	
1,2-Dibromoethane	ND	ug/L	4	4/18/2019 4:13:00 AM	SAT	EPA 8260C	
1,2-Dichlorobenzene	ND	ug/L	4	4/18/2019 4:13:00 AM	SAT	EPA 8260C	
1,2-Dichloroethane	ND	ug/L	4	4/18/2019 4:13:00 AM	SAT	EPA 8260C	
1,2-Dichloropropane	15.1	ug/L	4	4/18/2019 4:13:00 AM	SAT	EPA 8260C	
1,3,5-Trimethylbenzene	ND	ug/L	4	4/18/2019 4:13:00 AM	SAT	EPA 8260C	
1,3-Dichlorobenzene	ND	ug/L	4	4/18/2019 4:13:00 AM	SAT	EPA 8260C	
1,3-Dichloropropane	ND	ug/L	4	4/18/2019 4:13:00 AM	SAT	EPA 8260C	
1,4-Dichlorobenzene	ND	ug/L	4	4/18/2019 4:13:00 AM	SAT	EPA 8260C	
2,2-Dichloropropane	ND	ug/L	4	4/18/2019 4:13:00 AM	SAT	EPA 8260C	
2-Chlorotoluene	ND	ug/L	4	4/18/2019 4:13:00 AM	SAT	EPA 8260C	
2-hexanone	ND	ug/L	20	4/18/2019 4:13:00 AM	SAT	EPA 8260C	
4-Chlorotoluene	ND	ug/L	4	4/18/2019 4:13:00 AM	SAT	EPA 8260C	
Acetone	2690	ug/L	20	4/18/2019 4:13:00 AM	SAT	EPA 8260C	
Acrylonitrile	ND	ug/L	4	4/18/2019 4:13:00 AM	SAT	EPA 8260C	
Benzene	11.9	ug/L	4	4/18/2019 4:13:00 AM	SAT	EPA 8260C	
Bromobenzene	ND	ug/L	4	4/18/2019 4:13:00 AM	SAT	EPA 8260C	

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Client: SPOKANE COUNTY UTILITIES
Address: 22515 N. ELK CHATTAROY ROAD
COLBERT, WA 99005
Attn: SVL ANALYTICAL, INC.

Batch #: 190415012
Project Name: SVL #X9D0349

Analytical Results Report

Sample Number 190415012-014
Client Sample ID GWMW-016-190411
Matrix Water
Comments

Sampling Date 4/11/2019
Sampling Time 10:00 AM
Sample Location X9D0349-14

Date/Time Received 4/12/201910:31 AM

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Bromochloromethane	ND	ug/L	4	4/18/2019 4:13:00 AM	SAT	EPA 8260C	
Bromodichloromethane	ND	ug/L	4	4/18/2019 4:13:00 AM	SAT	EPA 8260C	
Bromoform	ND	ug/L	4	4/18/2019 4:13:00 AM	SAT	EPA 8260C	
Bromomethane	ND	ug/L	4	4/18/2019 4:13:00 AM	SAT	EPA 8260C	
Carbon disulfide	ND	ug/L	4	4/18/2019 4:13:00 AM	SAT	EPA 8260C	
Carbon Tetrachloride	ND	ug/L	4	4/18/2019 4:13:00 AM	SAT	EPA 8260C	
Chlorobenzene	ND	ug/L	4	4/18/2019 4:13:00 AM	SAT	EPA 8260C	
Chloroethane	ND	ug/L	4	4/18/2019 4:13:00 AM	SAT	EPA 8260C	
Chloroform	ND	ug/L	4	4/18/2019 4:13:00 AM	SAT	EPA 8260C	
Chloromethane	ND	ug/L	4	4/18/2019 4:13:00 AM	SAT	EPA 8260C	
cis-1,2-dichloroethene	40.1	ug/L	4	4/18/2019 4:13:00 AM	SAT	EPA 8260C	
cis-1,3-Dichloropropene	ND	ug/L	4	4/18/2019 4:13:00 AM	SAT	EPA 8260C	
Dibromochloromethane	ND	ug/L	4	4/18/2019 4:13:00 AM	SAT	EPA 8260C	
Dibromomethane	ND	ug/L	4	4/18/2019 4:13:00 AM	SAT	EPA 8260C	
Dichlorodifluoromethane	4.78	ug/L	4	4/18/2019 4:13:00 AM	SAT	EPA 8260C	
Ethylbenzene	61.6	ug/L	4	4/18/2019 4:13:00 AM	SAT	EPA 8260C	
Hexachlorobutadiene	ND	ug/L	4	4/18/2019 4:13:00 AM	SAT	EPA 8260C	
Isopropylbenzene	ND	ug/L	4	4/18/2019 4:13:00 AM	SAT	EPA 8260C	
m+p-Xylene	40.2	ug/L	4	4/18/2019 4:13:00 AM	SAT	EPA 8260C	
Methyl ethyl ketone (MEK)	1060	ug/L	20	4/18/2019 4:13:00 AM	SAT	EPA 8260C	
Methyl isobutyl ketone (MIBK)	168	ug/L	20	4/18/2019 4:13:00 AM	SAT	EPA 8260C	
Methylene chloride	ND	ug/L	20	4/18/2019 4:13:00 AM	SAT	EPA 8260C	
methyl-t-butyl ether (MTBE)	ND	ug/L	4	4/18/2019 4:13:00 AM	SAT	EPA 8260C	
Naphthalene	ND	ug/L	20	4/18/2019 4:13:00 AM	SAT	EPA 8260C	
n-Butylbenzene	ND	ug/L	4	4/18/2019 4:13:00 AM	SAT	EPA 8260C	
n-Propylbenzene	ND	ug/L	4	4/18/2019 4:13:00 AM	SAT	EPA 8260C	
o-Xylene	17.7	ug/L	4	4/18/2019 4:13:00 AM	SAT	EPA 8260C	
p-isopropyltoluene	9.19	ug/L	4	4/18/2019 4:13:00 AM	SAT	EPA 8260C	

Certifications held by Anatek Labs ID: EPA:ID00013; AZ:0701; FL(NELAP):E87893; ID:ID00013; MT:CERT0028; NM: ID00013;NV:ID00013; OR:ID200001-002; WA:C595
Certifications held by Anatek Labs WA: EPA:WA00169; ID:WA00169; WA:C585; MT:Cert0095; FL(NELAP): E871099

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Client: SPOKANE COUNTY UTILITIES
Address: 22515 N. ELK CHATTAROY ROAD
COLBERT, WA 99005
Attn: SVL ANALYTICAL, INC.

Batch #: 190415012
Project Name: SVL #X9D0349

Analytical Results Report

Sample Number 190415012-014
Client Sample ID GWMW-016-190411
Matrix Water
Comments

Sampling Date 4/11/2019
Sampling Time 10:00 AM
Sample Location X9D0349-14

Date/Time Received 4/12/201910:31 AM

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
sec-Butylbenzene	ND	ug/L	4	4/18/2019 4:13:00 AM	SAT	EPA 8260C	
Styrene	ND	ug/L	4	4/18/2019 4:13:00 AM	SAT	EPA 8260C	
tert-Butylbenzene	9.44	ug/L	4	4/18/2019 4:13:00 AM	SAT	EPA 8260C	
Tetrachloroethene	ND	ug/L	4	4/18/2019 4:13:00 AM	SAT	EPA 8260C	
Toluene	75.2	ug/L	4	4/18/2019 4:13:00 AM	SAT	EPA 8260C	
trans-1,2-Dichloroethene	7.84	ug/L	4	4/18/2019 4:13:00 AM	SAT	EPA 8260C	
trans-1,3-Dichloropropene	ND	ug/L	4	4/18/2019 4:13:00 AM	SAT	EPA 8260C	
Trichloroethene	ND	ug/L	4	4/18/2019 4:13:00 AM	SAT	EPA 8260C	
Trichloroflouromethane	ND	ug/L	4	4/18/2019 4:13:00 AM	SAT	EPA 8260C	
Vinyl Chloride	5.44	ug/L	4	4/18/2019 4:13:00 AM	SAT	EPA 8260C	

Surrogate Data

Sample Number 190415012-014

Surrogate Standard	Method	Percent Recovery	Control Limits
1,2-Dichlorobenzene-d4	EPA 8260C	103.2	70-130
4-Bromofluorobenzene	EPA 8260C	94.8	70-130
Toluene-d8	EPA 8260C	102.4	70-130

Anatek Labs, Inc.

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Client: SPOKANE COUNTY UTILITIES
Address: 22515 N. ELK CHATTAROY ROAD
COLBERT, WA 99005
Attn: SVL ANALYTICAL, INC.

Batch #: 190415012
Project Name: SVL #X9D0349

Analytical Results Report

Sample Number 190415012-015
Client Sample ID GWMW-020-190411
Matrix Water
Comments

Sampling Date 4/11/2019
Sampling Time 10:07 AM
Sample Location X9D0349-15

Date/Time Received 4/12/201910:31 AM

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
1,1,1,2-Tetrachloroethane	ND	ug/L	0.5	4/18/2019 2:46:00 AM	SAT	EPA 8260C	
1,1,1-Trichloroethane	ND	ug/L	0.5	4/18/2019 2:46:00 AM	SAT	EPA 8260C	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.5	4/18/2019 2:46:00 AM	SAT	EPA 8260C	
1,1,2-Trichloroethane	ND	ug/L	0.5	4/18/2019 2:46:00 AM	SAT	EPA 8260C	
1,1-Dichloroethane	1.31	ug/L	0.5	4/18/2019 2:46:00 AM	SAT	EPA 8260C	
1,1-Dichloroethene	ND	ug/L	0.5	4/18/2019 2:46:00 AM	SAT	EPA 8260C	
1,1-dichloropropene	ND	ug/L	0.5	4/18/2019 2:46:00 AM	SAT	EPA 8260C	
1,2,3-Trichlorobenzene	ND	ug/L	0.5	4/18/2019 2:46:00 AM	SAT	EPA 8260C	
1,2,3-Trichloropropane	ND	ug/L	0.5	4/18/2019 2:46:00 AM	SAT	EPA 8260C	
1,2,4-Trichlorobenzene	ND	ug/L	0.5	4/18/2019 2:46:00 AM	SAT	EPA 8260C	
1,2,4-Trimethylbenzene	ND	ug/L	0.5	4/18/2019 2:46:00 AM	SAT	EPA 8260C	
1,2-Dibromo-3-chloropropane(DBCP)	ND	ug/L	0.5	4/18/2019 2:46:00 AM	SAT	EPA 8260C	
1,2-Dibromoethane	ND	ug/L	0.5	4/18/2019 2:46:00 AM	SAT	EPA 8260C	
1,2-Dichlorobenzene	ND	ug/L	0.5	4/18/2019 2:46:00 AM	SAT	EPA 8260C	
1,2-Dichloroethane	ND	ug/L	0.5	4/18/2019 2:46:00 AM	SAT	EPA 8260C	
1,2-Dichloropropane	ND	ug/L	0.5	4/18/2019 2:46:00 AM	SAT	EPA 8260C	
1,3,5-Trimethylbenzene	ND	ug/L	0.5	4/18/2019 2:46:00 AM	SAT	EPA 8260C	
1,3-Dichlorobenzene	ND	ug/L	0.5	4/18/2019 2:46:00 AM	SAT	EPA 8260C	
1,3-Dichloropropane	ND	ug/L	0.5	4/18/2019 2:46:00 AM	SAT	EPA 8260C	
1,4-Dichlorobenzene	ND	ug/L	0.5	4/18/2019 2:46:00 AM	SAT	EPA 8260C	
2,2-Dichloropropane	ND	ug/L	0.5	4/18/2019 2:46:00 AM	SAT	EPA 8260C	
2-Chlorotoluene	ND	ug/L	0.5	4/18/2019 2:46:00 AM	SAT	EPA 8260C	
2-hexanone	ND	ug/L	2.5	4/18/2019 2:46:00 AM	SAT	EPA 8260C	
4-Chlorotoluene	ND	ug/L	0.5	4/18/2019 2:46:00 AM	SAT	EPA 8260C	
Acetone	ND	ug/L	2.5	4/18/2019 2:46:00 AM	SAT	EPA 8260C	
Acrylonitrile	ND	ug/L	0.5	4/18/2019 2:46:00 AM	SAT	EPA 8260C	
Benzene	ND	ug/L	0.5	4/18/2019 2:46:00 AM	SAT	EPA 8260C	
Bromobenzene	ND	ug/L	0.5	4/18/2019 2:46:00 AM	SAT	EPA 8260C	

Anatek Labs, Inc.

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504 E Sprague Ste. D • Spokane WA 99202 • (509) 838-3999 • Fax (509) 838-4433 • email spokane@anateklabs.com

Client: SPOKANE COUNTY UTILITIES
Address: 22515 N. ELK CHATTAROY ROAD
COLBERT, WA 99005
Attn: SVL ANALYTICAL, INC.

Batch #: 190415012
Project Name: SVL #X9D0349

Analytical Results Report

Sample Number 190415012-015
Client Sample ID GWMW-020-190411
Matrix Water
Comments

Sampling Date 4/11/2019
Sampling Time 10:07 AM
Sample Location X9D0349-15

Date/Time Received 4/12/201910:31 AM

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Bromochloromethane	ND	ug/L	0.5	4/18/2019 2:46:00 AM	SAT	EPA 8260C	
Bromodichloromethane	ND	ug/L	0.5	4/18/2019 2:46:00 AM	SAT	EPA 8260C	
Bromoform	ND	ug/L	0.5	4/18/2019 2:46:00 AM	SAT	EPA 8260C	
Bromomethane	ND	ug/L	0.5	4/18/2019 2:46:00 AM	SAT	EPA 8260C	
Carbon disulfide	ND	ug/L	0.5	4/18/2019 2:46:00 AM	SAT	EPA 8260C	
Carbon Tetrachloride	ND	ug/L	0.5	4/18/2019 2:46:00 AM	SAT	EPA 8260C	
Chlorobenzene	ND	ug/L	0.5	4/18/2019 2:46:00 AM	SAT	EPA 8260C	
Chloroethane	ND	ug/L	0.5	4/18/2019 2:46:00 AM	SAT	EPA 8260C	
Chloroform	ND	ug/L	0.5	4/18/2019 2:46:00 AM	SAT	EPA 8260C	
Chloromethane	ND	ug/L	0.5	4/18/2019 2:46:00 AM	SAT	EPA 8260C	
cis-1,2-dichloroethene	ND	ug/L	0.5	4/18/2019 2:46:00 AM	SAT	EPA 8260C	
cis-1,3-Dichloropropene	ND	ug/L	0.5	4/18/2019 2:46:00 AM	SAT	EPA 8260C	
Dibromochloromethane	ND	ug/L	0.5	4/18/2019 2:46:00 AM	SAT	EPA 8260C	
Dibromomethane	ND	ug/L	0.5	4/18/2019 2:46:00 AM	SAT	EPA 8260C	
Dichlorodifluoromethane	1.67	ug/L	0.5	4/18/2019 2:46:00 AM	SAT	EPA 8260C	
Ethylbenzene	ND	ug/L	0.5	4/18/2019 2:46:00 AM	SAT	EPA 8260C	
Hexachlorobutadiene	ND	ug/L	0.5	4/18/2019 2:46:00 AM	SAT	EPA 8260C	
Isopropylbenzene	ND	ug/L	0.5	4/18/2019 2:46:00 AM	SAT	EPA 8260C	
m+p-Xylene	ND	ug/L	0.5	4/18/2019 2:46:00 AM	SAT	EPA 8260C	
Methyl ethyl ketone (MEK)	ND	ug/L	2.5	4/18/2019 2:46:00 AM	SAT	EPA 8260C	
Methyl isobutyl ketone (MIBK)	ND	ug/L	2.5	4/18/2019 2:46:00 AM	SAT	EPA 8260C	
Methylene chloride	ND	ug/L	2.5	4/18/2019 2:46:00 AM	SAT	EPA 8260C	
methyl-t-butyl ether (MTBE)	ND	ug/L	0.5	4/18/2019 2:46:00 AM	SAT	EPA 8260C	
Naphthalene	ND	ug/L	0.5	4/18/2019 2:46:00 AM	SAT	EPA 8260C	
n-Butylbenzene	ND	ug/L	0.5	4/18/2019 2:46:00 AM	SAT	EPA 8260C	
n-Propylbenzene	ND	ug/L	0.5	4/18/2019 2:46:00 AM	SAT	EPA 8260C	
o-Xylene	ND	ug/L	0.5	4/18/2019 2:46:00 AM	SAT	EPA 8260C	
p-isopropyltoluene	ND	ug/L	0.5	4/18/2019 2:46:00 AM	SAT	EPA 8260C	

Certifications held by Anatek Labs ID: EPA:ID00013; AZ:0701; FL(NELAP):E87893; ID:ID00013; MT:CERT0028; NM: ID00013;NV:ID00013; OR:ID200001-002; WA:C595
Certifications held by Anatek Labs WA: EPA:WA00169; ID:WA00169; WA:C585; MT:Cert0095; FL(NELAP): E871099

Anatek Labs, Inc.

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Client: SPOKANE COUNTY UTILITIES
Address: 22515 N. ELK CHATTAROY ROAD
COLBERT, WA 99005
Attn: SVL ANALYTICAL, INC.

Batch #: 190415012
Project Name: SVL #X9D0349

Analytical Results Report

Sample Number 190415012-015
Client Sample ID GWMW-020-190411
Matrix Water
Comments

Sampling Date 4/11/2019
Sampling Time 10:07 AM
Sample Location X9D0349-15

Date/Time Received 4/12/201910:31 AM

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
sec-Butylbenzene	ND	ug/L	0.5	4/18/2019 2:46:00 AM	SAT	EPA 8260C	
Styrene	ND	ug/L	0.5	4/18/2019 2:46:00 AM	SAT	EPA 8260C	
tert-Butylbenzene	ND	ug/L	0.5	4/18/2019 2:46:00 AM	SAT	EPA 8260C	
Tetrachloroethene	ND	ug/L	0.5	4/18/2019 2:46:00 AM	SAT	EPA 8260C	
Toluene	ND	ug/L	0.5	4/18/2019 2:46:00 AM	SAT	EPA 8260C	
trans-1,2-Dichloroethene	ND	ug/L	0.5	4/18/2019 2:46:00 AM	SAT	EPA 8260C	
trans-1,3-Dichloropropene	ND	ug/L	0.5	4/18/2019 2:46:00 AM	SAT	EPA 8260C	
Trichloroethene	ND	ug/L	0.5	4/18/2019 2:46:00 AM	SAT	EPA 8260C	
Trichloroflouromethane	ND	ug/L	0.5	4/18/2019 2:46:00 AM	SAT	EPA 8260C	
Vinyl Chloride	ND	ug/L	0.5	4/18/2019 2:46:00 AM	SAT	EPA 8260C	

Surrogate Data

Sample Number 190415012-015

Surrogate Standard	Method	Percent Recovery	Control Limits
1,2-Dichlorobenzene-d4	EPA 8260C	104.8	70-130
4-Bromofluorobenzene	EPA 8260C	96.4	70-130
Toluene-d8	EPA 8260C	126.8	70-130

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Client: SPOKANE COUNTY UTILITIES
Address: 22515 N. ELK CHATTAROY ROAD
COLBERT, WA 99005
Attn: SVL ANALYTICAL, INC.

Batch #: 190415012
Project Name: SVL #X9D0349

Analytical Results Report

Sample Number 190415012-016
Client Sample ID GWMW-023-190411
Matrix Water
Comments

Sampling Date 4/11/2019
Sampling Time 11:17 AM
Sample Location X9D0349-16

Date/Time Received 4/12/201910:31 AM

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
1,1,1,2-Tetrachloroethane	ND	ug/L	0.5	4/18/2019 3:15:00 AM	SAT	EPA 8260C	
1,1,1-Trichloroethane	ND	ug/L	0.5	4/18/2019 3:15:00 AM	SAT	EPA 8260C	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.5	4/18/2019 3:15:00 AM	SAT	EPA 8260C	
1,1,2-Trichloroethane	ND	ug/L	0.5	4/18/2019 3:15:00 AM	SAT	EPA 8260C	
1,1-Dichloroethane	3.97	ug/L	0.5	4/18/2019 3:15:00 AM	SAT	EPA 8260C	
1,1-Dichloroethene	ND	ug/L	0.5	4/18/2019 3:15:00 AM	SAT	EPA 8260C	
1,1-dichloropropene	ND	ug/L	0.5	4/18/2019 3:15:00 AM	SAT	EPA 8260C	
1,2,3-Trichlorobenzene	ND	ug/L	0.5	4/18/2019 3:15:00 AM	SAT	EPA 8260C	
1,2,3-Trichloropropane	ND	ug/L	0.5	4/18/2019 3:15:00 AM	SAT	EPA 8260C	
1,2,4-Trichlorobenzene	ND	ug/L	0.5	4/18/2019 3:15:00 AM	SAT	EPA 8260C	
1,2,4-Trimethylbenzene	ND	ug/L	0.5	4/18/2019 3:15:00 AM	SAT	EPA 8260C	
1,2-Dibromo-3-chloropropane(DBCP)	ND	ug/L	0.5	4/18/2019 3:15:00 AM	SAT	EPA 8260C	
1,2-Dibromoethane	ND	ug/L	0.5	4/18/2019 3:15:00 AM	SAT	EPA 8260C	
1,2-Dichlorobenzene	ND	ug/L	0.5	4/18/2019 3:15:00 AM	SAT	EPA 8260C	
1,2-Dichloroethane	ND	ug/L	0.5	4/18/2019 3:15:00 AM	SAT	EPA 8260C	
1,2-Dichloropropane	ND	ug/L	0.5	4/18/2019 3:15:00 AM	SAT	EPA 8260C	
1,3,5-Trimethylbenzene	ND	ug/L	0.5	4/18/2019 3:15:00 AM	SAT	EPA 8260C	
1,3-Dichlorobenzene	ND	ug/L	0.5	4/18/2019 3:15:00 AM	SAT	EPA 8260C	
1,3-Dichloropropane	ND	ug/L	0.5	4/18/2019 3:15:00 AM	SAT	EPA 8260C	
1,4-Dichlorobenzene	ND	ug/L	0.5	4/18/2019 3:15:00 AM	SAT	EPA 8260C	
2,2-Dichloropropane	ND	ug/L	0.5	4/18/2019 3:15:00 AM	SAT	EPA 8260C	
2-Chlorotoluene	ND	ug/L	0.5	4/18/2019 3:15:00 AM	SAT	EPA 8260C	
2-hexanone	ND	ug/L	2.5	4/18/2019 3:15:00 AM	SAT	EPA 8260C	
4-Chlorotoluene	ND	ug/L	0.5	4/18/2019 3:15:00 AM	SAT	EPA 8260C	
Acetone	ND	ug/L	2.5	4/18/2019 3:15:00 AM	SAT	EPA 8260C	
Acrylonitrile	ND	ug/L	0.5	4/18/2019 3:15:00 AM	SAT	EPA 8260C	
Benzene	0.53	ug/L	0.5	4/18/2019 3:15:00 AM	SAT	EPA 8260C	
Bromobenzene	ND	ug/L	0.5	4/18/2019 3:15:00 AM	SAT	EPA 8260C	

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Client: SPOKANE COUNTY UTILITIES
Address: 22515 N. ELK CHATTAROY ROAD
COLBERT, WA 99005
Attn: SVL ANALYTICAL, INC.

Batch #: 190415012
Project Name: SVL #X9D0349

Analytical Results Report

Sample Number 190415012-016
Client Sample ID GWMW-023-190411
Matrix Water
Comments

Sampling Date 4/11/2019
Sampling Time 11:17 AM
Sample Location X9D0349-16

Date/Time Received 4/12/201910:31 AM

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Bromochloromethane	ND	ug/L	0.5	4/18/2019 3:15:00 AM	SAT	EPA 8260C	
Bromodichloromethane	ND	ug/L	0.5	4/18/2019 3:15:00 AM	SAT	EPA 8260C	
Bromoform	ND	ug/L	0.5	4/18/2019 3:15:00 AM	SAT	EPA 8260C	
Bromomethane	ND	ug/L	0.5	4/18/2019 3:15:00 AM	SAT	EPA 8260C	
Carbon disulfide	ND	ug/L	0.5	4/18/2019 3:15:00 AM	SAT	EPA 8260C	
Carbon Tetrachloride	ND	ug/L	0.5	4/18/2019 3:15:00 AM	SAT	EPA 8260C	
Chlorobenzene	ND	ug/L	0.5	4/18/2019 3:15:00 AM	SAT	EPA 8260C	
Chloroethane	ND	ug/L	0.5	4/18/2019 3:15:00 AM	SAT	EPA 8260C	
Chloroform	ND	ug/L	0.5	4/18/2019 3:15:00 AM	SAT	EPA 8260C	
Chloromethane	ND	ug/L	0.5	4/18/2019 3:15:00 AM	SAT	EPA 8260C	
cis-1,2-dichloroethene	0.68	ug/L	0.5	4/18/2019 3:15:00 AM	SAT	EPA 8260C	
cis-1,3-Dichloropropene	ND	ug/L	0.5	4/18/2019 3:15:00 AM	SAT	EPA 8260C	
Dibromochloromethane	ND	ug/L	0.5	4/18/2019 3:15:00 AM	SAT	EPA 8260C	
Dibromomethane	ND	ug/L	0.5	4/18/2019 3:15:00 AM	SAT	EPA 8260C	
Dichlorodifluoromethane	1.59	ug/L	0.5	4/18/2019 3:15:00 AM	SAT	EPA 8260C	
Ethylbenzene	ND	ug/L	0.5	4/18/2019 3:15:00 AM	SAT	EPA 8260C	
Hexachlorobutadiene	ND	ug/L	0.5	4/18/2019 3:15:00 AM	SAT	EPA 8260C	
Isopropylbenzene	ND	ug/L	0.5	4/18/2019 3:15:00 AM	SAT	EPA 8260C	
m+p-Xylene	ND	ug/L	0.5	4/18/2019 3:15:00 AM	SAT	EPA 8260C	
Methyl ethyl ketone (MEK)	ND	ug/L	2.5	4/18/2019 3:15:00 AM	SAT	EPA 8260C	
Methyl isobutyl ketone (MIBK)	ND	ug/L	2.5	4/18/2019 3:15:00 AM	SAT	EPA 8260C	
Methylene chloride	ND	ug/L	2.5	4/18/2019 3:15:00 AM	SAT	EPA 8260C	
methyl-t-butyl ether (MTBE)	ND	ug/L	0.5	4/18/2019 3:15:00 AM	SAT	EPA 8260C	
Naphthalene	ND	ug/L	0.5	4/18/2019 3:15:00 AM	SAT	EPA 8260C	
n-Butylbenzene	ND	ug/L	0.5	4/18/2019 3:15:00 AM	SAT	EPA 8260C	
n-Propylbenzene	ND	ug/L	0.5	4/18/2019 3:15:00 AM	SAT	EPA 8260C	
o-Xylene	ND	ug/L	0.5	4/18/2019 3:15:00 AM	SAT	EPA 8260C	
p-isopropyltoluene	ND	ug/L	0.5	4/18/2019 3:15:00 AM	SAT	EPA 8260C	

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Client: SPOKANE COUNTY UTILITIES
Address: 22515 N. ELK CHATTAROY ROAD
COLBERT, WA 99005
Attn: SVL ANALYTICAL, INC.

Batch #: 190415012
Project Name: SVL #X9D0349

Analytical Results Report

Sample Number 190415012-016
Client Sample ID GWMW-023-190411
Matrix Water
Comments

Sampling Date 4/11/2019
Sampling Time 11:17 AM
Sample Location X9D0349-16

Date/Time Received 4/12/201910:31 AM

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
sec-Butylbenzene	ND	ug/L	0.5	4/18/2019 3:15:00 AM	SAT	EPA 8260C	
Styrene	ND	ug/L	0.5	4/18/2019 3:15:00 AM	SAT	EPA 8260C	
tert-Butylbenzene	ND	ug/L	0.5	4/18/2019 3:15:00 AM	SAT	EPA 8260C	
Tetrachloroethene	ND	ug/L	0.5	4/18/2019 3:15:00 AM	SAT	EPA 8260C	
Toluene	ND	ug/L	0.5	4/18/2019 3:15:00 AM	SAT	EPA 8260C	
trans-1,2-Dichloroethene	ND	ug/L	0.5	4/18/2019 3:15:00 AM	SAT	EPA 8260C	
trans-1,3-Dichloropropene	ND	ug/L	0.5	4/18/2019 3:15:00 AM	SAT	EPA 8260C	
Trichloroethene	ND	ug/L	0.5	4/18/2019 3:15:00 AM	SAT	EPA 8260C	
Trichloroflouromethane	ND	ug/L	0.5	4/18/2019 3:15:00 AM	SAT	EPA 8260C	
Vinyl Chloride	ND	ug/L	0.5	4/18/2019 3:15:00 AM	SAT	EPA 8260C	

Surrogate Data

Sample Number 190415012-016

Surrogate Standard	Method	Percent Recovery	Control Limits
1,2-Dichlorobenzene-d4	EPA 8260C	104.4	70-130
4-Bromofluorobenzene	EPA 8260C	98.4	70-130
Toluene-d8	EPA 8260C	125.2	70-130

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Client: SPOKANE COUNTY UTILITIES
Address: 22515 N. ELK CHATTAROY ROAD
COLBERT, WA 99005
Attn: SVL ANALYTICAL, INC.

Batch #: 190415012
Project Name: SVL #X9D0349

Analytical Results Report

Sample Number 190415012-017
Client Sample ID MWS-1-1-1490411
Matrix Water
Comments

Sampling Date 4/11/2019
Sampling Time 11:23 AM
Sample Location X9D0349-17

Date/Time Received 4/12/201910:31 AM

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
1,1,1,2-Tetrachloroethane	ND	ug/L	0.5	4/18/2019 3:44:00 AM	SAT	EPA 8260C	
1,1,1-Trichloroethane	ND	ug/L	0.5	4/18/2019 3:44:00 AM	SAT	EPA 8260C	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.5	4/18/2019 3:44:00 AM	SAT	EPA 8260C	
1,1,2-Trichloroethane	ND	ug/L	0.5	4/18/2019 3:44:00 AM	SAT	EPA 8260C	
1,1-Dichloroethane	2.61	ug/L	0.5	4/18/2019 3:44:00 AM	SAT	EPA 8260C	
1,1-Dichloroethene	ND	ug/L	0.5	4/18/2019 3:44:00 AM	SAT	EPA 8260C	
1,1-dichloropropene	ND	ug/L	0.5	4/18/2019 3:44:00 AM	SAT	EPA 8260C	
1,2,3-Trichlorobenzene	ND	ug/L	0.5	4/18/2019 3:44:00 AM	SAT	EPA 8260C	
1,2,3-Trichloropropane	ND	ug/L	0.5	4/18/2019 3:44:00 AM	SAT	EPA 8260C	
1,2,4-Trichlorobenzene	ND	ug/L	0.5	4/18/2019 3:44:00 AM	SAT	EPA 8260C	
1,2,4-Trimethylbenzene	ND	ug/L	0.5	4/18/2019 3:44:00 AM	SAT	EPA 8260C	
1,2-Dibromo-3-chloropropane(DBCP)	ND	ug/L	0.5	4/18/2019 3:44:00 AM	SAT	EPA 8260C	
1,2-Dibromoethane	ND	ug/L	0.5	4/18/2019 3:44:00 AM	SAT	EPA 8260C	
1,2-Dichlorobenzene	ND	ug/L	0.5	4/18/2019 3:44:00 AM	SAT	EPA 8260C	
1,2-Dichloroethane	ND	ug/L	0.5	4/18/2019 3:44:00 AM	SAT	EPA 8260C	
1,2-Dichloropropane	ND	ug/L	0.5	4/18/2019 3:44:00 AM	SAT	EPA 8260C	
1,3,5-Trimethylbenzene	ND	ug/L	0.5	4/18/2019 3:44:00 AM	SAT	EPA 8260C	
1,3-Dichlorobenzene	ND	ug/L	0.5	4/18/2019 3:44:00 AM	SAT	EPA 8260C	
1,3-Dichloropropane	ND	ug/L	0.5	4/18/2019 3:44:00 AM	SAT	EPA 8260C	
1,4-Dichlorobenzene	ND	ug/L	0.5	4/18/2019 3:44:00 AM	SAT	EPA 8260C	
2,2-Dichloropropane	ND	ug/L	0.5	4/18/2019 3:44:00 AM	SAT	EPA 8260C	
2-Chlorotoluene	ND	ug/L	0.5	4/18/2019 3:44:00 AM	SAT	EPA 8260C	
2-hexanone	ND	ug/L	2.5	4/18/2019 3:44:00 AM	SAT	EPA 8260C	
4-Chlorotoluene	ND	ug/L	0.5	4/18/2019 3:44:00 AM	SAT	EPA 8260C	
Acetone	ND	ug/L	2.5	4/18/2019 3:44:00 AM	SAT	EPA 8260C	
Acrylonitrile	ND	ug/L	0.5	4/18/2019 3:44:00 AM	SAT	EPA 8260C	
Benzene	0.56	ug/L	0.5	4/18/2019 3:44:00 AM	SAT	EPA 8260C	
Bromobenzene	ND	ug/L	0.5	4/18/2019 3:44:00 AM	SAT	EPA 8260C	

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Client: SPOKANE COUNTY UTILITIES
Address: 22515 N. ELK CHATTAROY ROAD
COLBERT, WA 99005
Attn: SVL ANALYTICAL, INC.

Batch #: 190415012
Project Name: SVL #X9D0349

Analytical Results Report

Sample Number 190415012-017
Client Sample ID MWS-1-1-1490411
Matrix Water
Comments

Sampling Date 4/11/2019
Sampling Time 11:23 AM
Sample Location X9D0349-17

Date/Time Received 4/12/201910:31 AM

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Bromochloromethane	ND	ug/L	0.5	4/18/2019 3:44:00 AM	SAT	EPA 8260C	
Bromodichloromethane	ND	ug/L	0.5	4/18/2019 3:44:00 AM	SAT	EPA 8260C	
Bromoform	ND	ug/L	0.5	4/18/2019 3:44:00 AM	SAT	EPA 8260C	
Bromomethane	ND	ug/L	0.5	4/18/2019 3:44:00 AM	SAT	EPA 8260C	
Carbon disulfide	ND	ug/L	0.5	4/18/2019 3:44:00 AM	SAT	EPA 8260C	
Carbon Tetrachloride	ND	ug/L	0.5	4/18/2019 3:44:00 AM	SAT	EPA 8260C	
Chlorobenzene	ND	ug/L	0.5	4/18/2019 3:44:00 AM	SAT	EPA 8260C	
Chloroethane	ND	ug/L	0.5	4/18/2019 3:44:00 AM	SAT	EPA 8260C	
Chloroform	ND	ug/L	0.5	4/18/2019 3:44:00 AM	SAT	EPA 8260C	
Chloromethane	ND	ug/L	0.5	4/18/2019 3:44:00 AM	SAT	EPA 8260C	
cis-1,2-dichloroethene	ND	ug/L	0.5	4/18/2019 3:44:00 AM	SAT	EPA 8260C	
cis-1,3-Dichloropropene	ND	ug/L	0.5	4/18/2019 3:44:00 AM	SAT	EPA 8260C	
Dibromochloromethane	ND	ug/L	0.5	4/18/2019 3:44:00 AM	SAT	EPA 8260C	
Dibromomethane	ND	ug/L	0.5	4/18/2019 3:44:00 AM	SAT	EPA 8260C	
Dichlorodifluoromethane	1.57	ug/L	0.5	4/18/2019 3:44:00 AM	SAT	EPA 8260C	
Ethylbenzene	ND	ug/L	0.5	4/18/2019 3:44:00 AM	SAT	EPA 8260C	
Hexachlorobutadiene	ND	ug/L	0.5	4/18/2019 3:44:00 AM	SAT	EPA 8260C	
Isopropylbenzene	ND	ug/L	0.5	4/18/2019 3:44:00 AM	SAT	EPA 8260C	
m+p-Xylene	ND	ug/L	0.5	4/18/2019 3:44:00 AM	SAT	EPA 8260C	
Methyl ethyl ketone (MEK)	ND	ug/L	2.5	4/18/2019 3:44:00 AM	SAT	EPA 8260C	
Methyl isobutyl ketone (MIBK)	ND	ug/L	2.5	4/18/2019 3:44:00 AM	SAT	EPA 8260C	
Methylene chloride	ND	ug/L	2.5	4/18/2019 3:44:00 AM	SAT	EPA 8260C	
methyl-t-butyl ether (MTBE)	ND	ug/L	0.5	4/18/2019 3:44:00 AM	SAT	EPA 8260C	
Naphthalene	ND	ug/L	0.5	4/18/2019 3:44:00 AM	SAT	EPA 8260C	
n-Butylbenzene	ND	ug/L	0.5	4/18/2019 3:44:00 AM	SAT	EPA 8260C	
n-Propylbenzene	ND	ug/L	0.5	4/18/2019 3:44:00 AM	SAT	EPA 8260C	
o-Xylene	ND	ug/L	0.5	4/18/2019 3:44:00 AM	SAT	EPA 8260C	
p-isopropyltoluene	ND	ug/L	0.5	4/18/2019 3:44:00 AM	SAT	EPA 8260C	

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Client: SPOKANE COUNTY UTILITIES
Address: 22515 N. ELK CHATTAROY ROAD
COLBERT, WA 99005
Attn: SVL ANALYTICAL, INC.

Batch #: 190415012
Project Name: SVL #X9D0349

Analytical Results Report

Sample Number 190415012-017
Client Sample ID MWS-1-1-1490411
Matrix Water
Comments

Sampling Date 4/11/2019
Sampling Time 11:23 AM
Sample Location X9D0349-17

Date/Time Received 4/12/201910:31 AM

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
sec-Butylbenzene	ND	ug/L	0.5	4/18/2019 3:44:00 AM	SAT	EPA 8260C	
Styrene	ND	ug/L	0.5	4/18/2019 3:44:00 AM	SAT	EPA 8260C	
tert-Butylbenzene	ND	ug/L	0.5	4/18/2019 3:44:00 AM	SAT	EPA 8260C	
Tetrachloroethene	ND	ug/L	0.5	4/18/2019 3:44:00 AM	SAT	EPA 8260C	
Toluene	ND	ug/L	0.5	4/18/2019 3:44:00 AM	SAT	EPA 8260C	
trans-1,2-Dichloroethene	ND	ug/L	0.5	4/18/2019 3:44:00 AM	SAT	EPA 8260C	
trans-1,3-Dichloropropene	ND	ug/L	0.5	4/18/2019 3:44:00 AM	SAT	EPA 8260C	
Trichloroethene	ND	ug/L	0.5	4/18/2019 3:44:00 AM	SAT	EPA 8260C	
Trichloroflouromethane	ND	ug/L	0.5	4/18/2019 3:44:00 AM	SAT	EPA 8260C	
Vinyl Chloride	0.75	ug/L	0.5	4/18/2019 3:44:00 AM	SAT	EPA 8260C	

Surrogate Data

Sample Number 190415012-017

Surrogate Standard	Method	Percent Recovery	Control Limits
1,2-Dichlorobenzene-d4	EPA 8260C	105.2	70-130
4-Bromofluorobenzene	EPA 8260C	94.8	70-130
Toluene-d8	EPA 8260C	101.6	70-130

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COLBERT, WA 99005
Attn: SVL ANALYTICAL, INC.

Batch #: 190415012
Project Name: SVL #X9D0349

Analytical Results Report

Sample Number 190415012-018
Client Sample ID MWS-2-1-190411
Matrix Water
Comments

Sampling Date 4/11/2019
Sampling Time
Sample Location X9D0349-18

Date/Time Received 4/12/201910:31 AM

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
1,1,1,2-Tetrachloroethane	ND	ug/L	0.5	4/17/2019 6:51:00 PM	SAT	EPA 8260C	
1,1,1-Trichloroethane	ND	ug/L	0.5	4/17/2019 6:51:00 PM	SAT	EPA 8260C	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.5	4/17/2019 6:51:00 PM	SAT	EPA 8260C	
1,1,2-Trichloroethane	ND	ug/L	0.5	4/17/2019 6:51:00 PM	SAT	EPA 8260C	
1,1-Dichloroethane	ND	ug/L	0.5	4/17/2019 6:51:00 PM	SAT	EPA 8260C	
1,1-Dichloroethene	ND	ug/L	0.5	4/17/2019 6:51:00 PM	SAT	EPA 8260C	
1,1-dichloropropene	ND	ug/L	0.5	4/17/2019 6:51:00 PM	SAT	EPA 8260C	
1,2,3-Trichlorobenzene	ND	ug/L	0.5	4/17/2019 6:51:00 PM	SAT	EPA 8260C	
1,2,3-Trichloropropane	ND	ug/L	0.5	4/17/2019 6:51:00 PM	SAT	EPA 8260C	
1,2,4-Trichlorobenzene	ND	ug/L	0.5	4/17/2019 6:51:00 PM	SAT	EPA 8260C	
1,2,4-Trimethylbenzene	ND	ug/L	0.5	4/17/2019 6:51:00 PM	SAT	EPA 8260C	
1,2-Dibromo-3-chloropropane(DBCP)	ND	ug/L	0.5	4/17/2019 6:51:00 PM	SAT	EPA 8260C	
1,2-Dibromoethane	ND	ug/L	0.5	4/17/2019 6:51:00 PM	SAT	EPA 8260C	
1,2-Dichlorobenzene	ND	ug/L	0.5	4/17/2019 6:51:00 PM	SAT	EPA 8260C	
1,2-Dichloroethane	ND	ug/L	0.5	4/17/2019 6:51:00 PM	SAT	EPA 8260C	
1,2-Dichloropropane	ND	ug/L	0.5	4/17/2019 6:51:00 PM	SAT	EPA 8260C	
1,3,5-Trimethylbenzene	ND	ug/L	0.5	4/17/2019 6:51:00 PM	SAT	EPA 8260C	
1,3-Dichlorobenzene	ND	ug/L	0.5	4/17/2019 6:51:00 PM	SAT	EPA 8260C	
1,3-Dichloropropane	ND	ug/L	0.5	4/17/2019 6:51:00 PM	SAT	EPA 8260C	
1,4-Dichlorobenzene	ND	ug/L	0.5	4/17/2019 6:51:00 PM	SAT	EPA 8260C	
2,2-Dichloropropane	ND	ug/L	0.5	4/17/2019 6:51:00 PM	SAT	EPA 8260C	
2-Chlorotoluene	ND	ug/L	0.5	4/17/2019 6:51:00 PM	SAT	EPA 8260C	
2-hexanone	ND	ug/L	2.5	4/17/2019 6:51:00 PM	SAT	EPA 8260C	
4-Chlorotoluene	ND	ug/L	0.5	4/17/2019 6:51:00 PM	SAT	EPA 8260C	
Acetone	ND	ug/L	2.5	4/17/2019 6:51:00 PM	SAT	EPA 8260C	
Acrylonitrile	ND	ug/L	0.5	4/17/2019 6:51:00 PM	SAT	EPA 8260C	
Benzene	ND	ug/L	0.5	4/17/2019 6:51:00 PM	SAT	EPA 8260C	
Bromobenzene	ND	ug/L	0.5	4/17/2019 6:51:00 PM	SAT	EPA 8260C	

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Client: SPOKANE COUNTY UTILITIES
Address: 22515 N. ELK CHATTAROY ROAD
COLBERT, WA 99005
Attn: SVL ANALYTICAL, INC.

Batch #: 190415012
Project Name: SVL #X9D0349

Analytical Results Report

Sample Number 190415012-018
Client Sample ID MWS-2-1-190411
Matrix Water
Comments

Sampling Date 4/11/2019
Sampling Time
Sample Location X9D0349-18

Date/Time Received 4/12/201910:31 AM

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Bromochloromethane	ND	ug/L	0.5	4/17/2019 6:51:00 PM	SAT	EPA 8260C	
Bromodichloromethane	ND	ug/L	0.5	4/17/2019 6:51:00 PM	SAT	EPA 8260C	
Bromoform	ND	ug/L	0.5	4/17/2019 6:51:00 PM	SAT	EPA 8260C	
Bromomethane	ND	ug/L	0.5	4/17/2019 6:51:00 PM	SAT	EPA 8260C	
Carbon disulfide	ND	ug/L	0.5	4/17/2019 6:51:00 PM	SAT	EPA 8260C	
Carbon Tetrachloride	ND	ug/L	0.5	4/17/2019 6:51:00 PM	SAT	EPA 8260C	
Chlorobenzene	ND	ug/L	0.5	4/17/2019 6:51:00 PM	SAT	EPA 8260C	
Chloroethane	ND	ug/L	0.5	4/17/2019 6:51:00 PM	SAT	EPA 8260C	
Chloroform	ND	ug/L	0.5	4/17/2019 6:51:00 PM	SAT	EPA 8260C	
Chloromethane	ND	ug/L	0.5	4/17/2019 6:51:00 PM	SAT	EPA 8260C	
cis-1,2-dichloroethene	ND	ug/L	0.5	4/17/2019 6:51:00 PM	SAT	EPA 8260C	
cis-1,3-Dichloropropene	ND	ug/L	0.5	4/17/2019 6:51:00 PM	SAT	EPA 8260C	
Dibromochloromethane	ND	ug/L	0.5	4/17/2019 6:51:00 PM	SAT	EPA 8260C	
Dibromomethane	ND	ug/L	0.5	4/17/2019 6:51:00 PM	SAT	EPA 8260C	
Dichlorodifluoromethane	ND	ug/L	0.5	4/17/2019 6:51:00 PM	SAT	EPA 8260C	
Ethylbenzene	ND	ug/L	0.5	4/17/2019 6:51:00 PM	SAT	EPA 8260C	
Hexachlorobutadiene	ND	ug/L	0.5	4/17/2019 6:51:00 PM	SAT	EPA 8260C	
Isopropylbenzene	ND	ug/L	0.5	4/17/2019 6:51:00 PM	SAT	EPA 8260C	
m+p-Xylene	ND	ug/L	0.5	4/17/2019 6:51:00 PM	SAT	EPA 8260C	
Methyl ethyl ketone (MEK)	ND	ug/L	2.5	4/17/2019 6:51:00 PM	SAT	EPA 8260C	
Methyl isobutyl ketone (MIBK)	ND	ug/L	2.5	4/17/2019 6:51:00 PM	SAT	EPA 8260C	
Methylene chloride	ND	ug/L	2.5	4/17/2019 6:51:00 PM	SAT	EPA 8260C	
methyl-t-butyl ether (MTBE)	ND	ug/L	0.5	4/17/2019 6:51:00 PM	SAT	EPA 8260C	
Naphthalene	ND	ug/L	0.5	4/17/2019 6:51:00 PM	SAT	EPA 8260C	
n-Butylbenzene	ND	ug/L	0.5	4/17/2019 6:51:00 PM	SAT	EPA 8260C	
n-Propylbenzene	ND	ug/L	0.5	4/17/2019 6:51:00 PM	SAT	EPA 8260C	
o-Xylene	ND	ug/L	0.5	4/17/2019 6:51:00 PM	SAT	EPA 8260C	
p-isopropyltoluene	ND	ug/L	0.5	4/17/2019 6:51:00 PM	SAT	EPA 8260C	

Anatek Labs, Inc.

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Client: SPOKANE COUNTY UTILITIES
Address: 22515 N. ELK CHATTAROY ROAD
COLBERT, WA 99005
Attn: SVL ANALYTICAL, INC.

Batch #: 190415012
Project Name: SVL #X9D0349

Analytical Results Report

Sample Number 190415012-018
Client Sample ID MWS-2-1-190411
Matrix Water
Comments

Sampling Date 4/11/2019
Sampling Time
Sample Location X9D0349-18

Date/Time Received 4/12/201910:31 AM

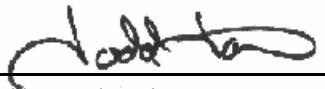
Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
sec-Butylbenzene	ND	ug/L	0.5	4/17/2019 6:51:00 PM	SAT	EPA 8260C	
Styrene	ND	ug/L	0.5	4/17/2019 6:51:00 PM	SAT	EPA 8260C	
tert-Butylbenzene	ND	ug/L	0.5	4/17/2019 6:51:00 PM	SAT	EPA 8260C	
Tetrachloroethene	ND	ug/L	0.5	4/17/2019 6:51:00 PM	SAT	EPA 8260C	
Toluene	ND	ug/L	0.5	4/17/2019 6:51:00 PM	SAT	EPA 8260C	
trans-1,2-Dichloroethene	ND	ug/L	0.5	4/17/2019 6:51:00 PM	SAT	EPA 8260C	
trans-1,3-Dichloropropene	ND	ug/L	0.5	4/17/2019 6:51:00 PM	SAT	EPA 8260C	
Trichloroethene	ND	ug/L	0.5	4/17/2019 6:51:00 PM	SAT	EPA 8260C	
Trichloroflouromethane	ND	ug/L	0.5	4/17/2019 6:51:00 PM	SAT	EPA 8260C	
Vinyl Chloride	ND	ug/L	0.5	4/17/2019 6:51:00 PM	SAT	EPA 8260C	

Surrogate Data

Sample Number 190415012-018

Surrogate Standard	Method	Percent Recovery	Control Limits
1,2-Dichlorobenzene-d4	EPA 8260C	103.2	70-130
4-Bromofluorobenzene	EPA 8260C	96.8	70-130
Toluene-d8	EPA 8260C	98.0	70-130

Authorized Signature



Todd Taruscio, Lab Manager

MCL EPA's Maximum Contaminant Level
ND Not Detected
PQL Practical Quantitation Limit

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Attn: SVL ANALYTICAL, INC.

Batch #: 190415012
Project Name: SVL #X9D0349

Analytical Results Report

Quality Control Data

Lab Control Sample

Parameter	LCS Result	Units	LCS Spike	%Rec	AR %Rec	Prep Date	Analysis Date
1,1-Dichloroethene	10.4	ug/L	10	104.0	80-120	4/17/2019	4/18/2019
Benzene	9.62	ug/L	10	96.2	80-120	4/17/2019	4/17/2019
Chlorobenzene	9.41	ug/L	10	94.1	80-120	4/17/2019	4/17/2019
Chloroform	10.2	ug/L	10	102.0	80-120	4/17/2019	4/17/2019
cis-1,2-dichloroethene	10.7	ug/L	10	107.0	80-120	4/17/2019	4/17/2019
Ethylbenzene	9.93	ug/L	10	99.3	80-120	4/17/2019	4/17/2019
o-Xylene	9.88	ug/L	10	98.8	80-120	4/17/2019	4/17/2019
Tetrachloroethene	9.08	ug/L	10	90.8	80-120	4/17/2019	4/17/2019
1,1-Dichloroethene	10.3	ug/L	10	103.0	80-120	4/17/2019	4/17/2019
Trichloroethene	9.53	ug/L	10	95.3	80-120	4/17/2019	4/17/2019
Trichloroethene	9.87	ug/L	10	98.7	80-120	4/17/2019	4/18/2019
Benzene	9.88	ug/L	10	98.8	80-120	4/17/2019	4/18/2019
Chlorobenzene	10.1	ug/L	10	101.0	80-120	4/17/2019	4/18/2019
Chloroform	11.9	ug/L	10	119.0	80-120	4/17/2019	4/18/2019
cis-1,2-dichloroethene	11.9	ug/L	10	119.0	80-120	4/17/2019	4/18/2019
Ethylbenzene	10.0	ug/L	10	100.0	80-120	4/17/2019	4/18/2019
o-Xylene	10.1	ug/L	10	101.0	80-120	4/17/2019	4/18/2019
Tetrachloroethene	9.78	ug/L	10	97.8	80-120	4/17/2019	4/18/2019
Toluene	10.9	ug/L	10	109.0	80-120	4/17/2019	4/18/2019
Toluene	10.0	ug/L	10	100.0	80-120	4/17/2019	4/17/2019

Lab Control Sample Duplicate

Parameter	LCSD Result	Units	LCSD Spike	%Rec	%RPD	AR %RPD	Prep Date	Analysis Date
Vinyl Chloride	8.37	ug/L	10	83.7	21.6	0-25	4/17/2019	4/18/2019
Trichloroethene	10.0	ug/L	10	100.0	1.3	0-25	4/17/2019	4/18/2019
Toluene	9.91	ug/L	10	99.1	9.5	0-25	4/17/2019	4/18/2019
Tetrachloroethene	10.5	ug/L	10	105.0	7.1	0-25	4/17/2019	4/18/2019
o-Xylene	9.71	ug/L	10	97.1	3.9	0-25	4/17/2019	4/18/2019
Ethylbenzene	10.0	ug/L	10	100.0	0.0	0-25	4/17/2019	4/18/2019
cis-1,2-dichloroethene	9.34	ug/L	10	93.4	24.1	0-25	4/17/2019	4/18/2019
Chlorobenzene	9.76	ug/L	10	97.6	3.4	0-25	4/17/2019	4/18/2019
Benzene	9.63	ug/L	10	96.3	2.6	0-25	4/17/2019	4/18/2019
1,1-Dichloroethene	9.16	ug/L	10	91.6	12.7	0-25	4/17/2019	4/18/2019

Comments:

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Attn: SVL ANALYTICAL, INC.

Batch #: 190415012
Project Name: SVL #X9D0349

Analytical Results Report

Quality Control Data

Matrix Spike

Sample Number	Parameter	Sample Result	MS Result	Units	MS Spike	%Rec	AR %Rec	Prep Date	Analysis Date
190415012-013	Trichloroethene	ND	10.0	ug/L	10	100.0	70-130	4/17/2019	4/17/2019
190415012-013	Toluene	ND	10.8	ug/L	10	108.0	70-130	4/17/2019	4/17/2019
190415012-013	Tetrachloroethene	ND	9.71	ug/L	10	97.1	70-130	4/17/2019	4/17/2019
190415012-013	o-Xylene	ND	10.1	ug/L	10	101.0	70-130	4/17/2019	4/17/2019
190415012-013	Ethylbenzene	ND	10.2	ug/L	10	102.0	70-130	4/17/2019	4/17/2019
190415012-013	cis-1,2-dichloroethene	ND	12.2	ug/L	10	122.0	70-130	4/17/2019	4/17/2019
190415012-013	Chloroform	ND	11.4	ug/L	10	114.0	70-130	4/17/2019	4/17/2019
190415012-013	Chlorobenzene	ND	10.5	ug/L	10	105.0	70-130	4/17/2019	4/17/2019
190415012-013	Benzene	ND	10.1	ug/L	10	101.0	70-130	4/17/2019	4/17/2019
190415012-013	1,1-Dichloroethene	ND	11.7	ug/L	10	117.0	70-130	4/17/2019	4/17/2019

Matrix Spike Duplicate

Parameter	MSD Result	Units	MSD Spike	%Rec	%RPD	AR %RPD	Prep Date	Analysis Date
Trichloroethene	10.2	ug/L	10	102.0	2.0	0-25	4/17/2019	4/17/2019
Toluene	10.6	ug/L	10	106.0	1.9	0-25	4/17/2019	4/17/2019
Tetrachloroethene	9.36	ug/L	10	93.6	3.7	0-25	4/17/2019	4/17/2019
o-Xylene	9.90	ug/L	10	99.0	2.0	0-25	4/17/2019	4/17/2019
Ethylbenzene	9.89	ug/L	10	98.9	3.1	0-25	4/17/2019	4/17/2019
cis-1,2-dichloroethene	11.6	ug/L	10	116.0	16.8	0-25	4/17/2019	4/17/2019
Chloroform	11.3	ug/L	10	113.0	0.9	0-25	4/17/2019	4/17/2019
Chlorobenzene	9.71	ug/L	10	97.1	7.8	0-25	4/17/2019	4/17/2019
Benzene	9.83	ug/L	10	98.3	2.7	0-25	4/17/2019	4/17/2019
1,1-Dichloroethene	11.5	ug/L	10	115.0	1.7	0-25	4/17/2019	4/17/2019

Method Blank

Parameter	Result	Units	PQL	Prep Date	Analysis Date
1,1,1,2-Tetrachloroethane	ND	ug/L	0.5	4/17/2019	4/18/2019
1,1,1,2-Tetrachloroethane	ND	ug/L	0.5	4/17/2019	4/17/2019
1,1,1-Trichloroethane	ND	ug/L	0.5	4/17/2019	4/17/2019
1,1,1-Trichloroethane	ND	ug/L	0.5	4/17/2019	4/18/2019
1,1,2,2-Tetrachloroethane	ND	ug/L	0.5	4/17/2019	4/17/2019
1,1,2,2-Tetrachloroethane	ND	ug/L	0.5	4/17/2019	4/18/2019
1,1,2-Trichloroethane	ND	ug/L	0.5	4/17/2019	4/18/2019
1,1,2-Trichloroethane	ND	ug/L	0.5	4/17/2019	4/17/2019
1,1-Dichloroethane	ND	ug/L	0.5	4/17/2019	4/17/2019

Comments:

Certifications held by Anatek Labs ID: EPA:ID00013; AZ:0701; FL(NELAP):E87893; ID:ID00013; MT:CERT0028; NM: ID00013;NV:ID00013; OR:ID200001-002; WA:C595
Certifications held by Anatek Labs WA: EPA:WA00169; ID:WA00169; WA:C585; MT:Cert0095; FL(NELAP): E871099

Anatek Labs, Inc.

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Client: SPOKANE COUNTY UTILITIES
Address: 22515 N. ELK CHATTAROY ROAD
COLBERT, WA 99005
Attn: SVL ANALYTICAL, INC.

Batch #: 190415012
Project Name: SVL #X9D0349

Analytical Results Report

Quality Control Data

Method Blank

Parameter	Result	Units	PQL	Prep Date	Analysis Date
1,1-Dichloroethane	ND	ug/L	0.5	4/17/2019	4/18/2019
1,1-Dichloroethene	ND	ug/L	0.5	4/17/2019	4/17/2019
1,1-Dichloroethene	ND	ug/L	0.5	4/17/2019	4/18/2019
1,1-dichloropropene	ND	ug/L	0.5	4/17/2019	4/17/2019
1,1-dichloropropene	ND	ug/L	0.5	4/17/2019	4/18/2019
1,2,3-Trichlorobenzene	ND	ug/L	0.5	4/17/2019	4/18/2019
1,2,3-Trichlorobenzene	ND	ug/L	0.5	4/17/2019	4/17/2019
1,2,3-Trichloropropane	ND	ug/L	0.5	4/17/2019	4/18/2019
1,2,3-Trichloropropane	ND	ug/L	0.5	4/17/2019	4/17/2019
1,2,4-Trichlorobenzene	ND	ug/L	0.5	4/17/2019	4/17/2019
1,2,4-Trichlorobenzene	ND	ug/L	0.5	4/17/2019	4/18/2019
1,2,4-Trimethylbenzene	ND	ug/L	0.5	4/17/2019	4/17/2019
1,2,4-Trimethylbenzene	ND	ug/L	0.5	4/17/2019	4/18/2019
1,2-Dibromo-3-chloropropane(DBCP)	ND	ug/L	0.5	4/17/2019	4/18/2019
1,2-Dibromo-3-chloropropane(DBCP)	ND	ug/L	0.5	4/17/2019	4/17/2019
1,2-Dibromoethane	ND	ug/L	0.5	4/17/2019	4/17/2019
1,2-Dibromoethane	ND	ug/L	0.5	4/17/2019	4/18/2019
1,2-Dichlorobenzene	ND	ug/L	0.5	4/17/2019	4/17/2019
1,2-Dichlorobenzene	ND	ug/L	0.5	4/17/2019	4/18/2019
1,2-Dichloroethane	ND	ug/L	0.5	4/17/2019	4/17/2019
1,2-Dichloroethane	ND	ug/L	0.5	4/17/2019	4/18/2019
1,2-Dichloropropane	ND	ug/L	0.5	4/17/2019	4/17/2019
1,2-Dichloropropane	ND	ug/L	0.5	4/17/2019	4/18/2019
1,3,5-Trimethylbenzene	ND	ug/L	0.5	4/17/2019	4/17/2019
1,3,5-Trimethylbenzene	ND	ug/L	0.5	4/17/2019	4/18/2019
1,3-Dichlorobenzene	ND	ug/L	0.5	4/17/2019	4/17/2019
1,3-Dichlorobenzene	ND	ug/L	0.5	4/17/2019	4/18/2019
1,3-Dichloropropane	ND	ug/L	0.5	4/17/2019	4/17/2019
1,3-Dichloropropane	ND	ug/L	0.5	4/17/2019	4/18/2019
1,4-Dichlorobenzene	ND	ug/L	0.5	4/17/2019	4/17/2019
1,4-Dichlorobenzene	ND	ug/L	0.5	4/17/2019	4/18/2019
2,2-Dichloropropane	ND	ug/L	0.5	4/17/2019	4/17/2019
2,2-Dichloropropane	ND	ug/L	0.5	4/17/2019	4/18/2019
2-Chlorotoluene	ND	ug/L	0.5	4/17/2019	4/18/2019
2-Chlorotoluene	ND	ug/L	0.5	4/17/2019	4/17/2019
2-hexanone	ND	ug/L	2.5	4/17/2019	4/17/2019
2-hexanone	ND	ug/L	2.5	4/17/2019	4/18/2019

Comments:

Certifications held by Anatek Labs ID: EPA:ID00013; AZ:0701; FL(NELAP):E87893; ID:ID00013; MT:CERT0028; NM: ID00013;NV:ID00013; OR:ID200001-002; WA:C595
Certifications held by Anatek Labs WA: EPA:WA00169; ID:WA00169; WA:C585; MT:Cert0095; FL(NELAP): E871099

Anatek Labs, Inc.

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Client: SPOKANE COUNTY UTILITIES
Address: 22515 N. ELK CHATTAROY ROAD
COLBERT, WA 99005
Attn: SVL ANALYTICAL, INC.

Batch #: 190415012
Project Name: SVL #X9D0349

Analytical Results Report

Quality Control Data

Method Blank

Parameter	Result	Units	PQL	Prep Date	Analysis Date
4-Chlorotoluene	ND	ug/L	0.5	4/17/2019	4/17/2019
4-Chlorotoluene	ND	ug/L	0.5	4/17/2019	4/18/2019
Acetone	ND	ug/L	2.5	4/17/2019	4/17/2019
Acetone	ND	ug/L	2.5	4/17/2019	4/18/2019
Acrylonitrile	ND	ug/L	0.5	4/17/2019	4/17/2019
Acrylonitrile	ND	ug/L	0.5	4/17/2019	4/18/2019
Benzene	ND	ug/L	0.5	4/17/2019	4/17/2019
Benzene	ND	ug/L	0.5	4/17/2019	4/18/2019
Bromobenzene	ND	ug/L	0.5	4/17/2019	4/17/2019
Bromobenzene	ND	ug/L	0.5	4/17/2019	4/18/2019
Bromochloromethane	ND	ug/L	0.5	4/17/2019	4/17/2019
Bromochloromethane	ND	ug/L	0.5	4/17/2019	4/18/2019
Bromodichloromethane	ND	ug/L	0.5	4/17/2019	4/18/2019
Bromodichloromethane	ND	ug/L	0.5	4/17/2019	4/17/2019
Bromoform	ND	ug/L	0.5	4/17/2019	4/17/2019
Bromoform	ND	ug/L	0.5	4/17/2019	4/18/2019
Bromomethane	ND	ug/L	0.5	4/17/2019	4/17/2019
Bromomethane	ND	ug/L	0.5	4/17/2019	4/18/2019
Carbon disulfide	ND	ug/L	0.5	4/17/2019	4/17/2019
Carbon disulfide	ND	ug/L	0.5	4/17/2019	4/18/2019
Carbon Tetrachloride	ND	ug/L	0.5	4/17/2019	4/18/2019
Carbon Tetrachloride	ND	ug/L	0.5	4/17/2019	4/17/2019
Chlorobenzene	ND	ug/L	0.5	4/17/2019	4/17/2019
Chlorobenzene	ND	ug/L	0.5	4/17/2019	4/18/2019
Chloroethane	ND	ug/L	0.5	4/17/2019	4/17/2019
Chloroethane	ND	ug/L	0.5	4/17/2019	4/18/2019
Chloroform	ND	ug/L	0.5	4/17/2019	4/18/2019
Chloroform	ND	ug/L	0.5	4/17/2019	4/17/2019
Chloromethane	ND	ug/L	0.5	4/17/2019	4/17/2019
Chloromethane	ND	ug/L	0.5	4/17/2019	4/18/2019
cis-1,2-dichloroethene	ND	ug/L	0.5	4/17/2019	4/17/2019
cis-1,2-dichloroethene	ND	ug/L	0.5	4/17/2019	4/18/2019
cis-1,3-Dichloropropene	ND	ug/L	0.5	4/17/2019	4/17/2019
cis-1,3-Dichloropropene	ND	ug/L	0.5	4/17/2019	4/18/2019
Dibromochloromethane	ND	ug/L	0.5	4/17/2019	4/17/2019
Dibromochloromethane	ND	ug/L	0.5	4/17/2019	4/18/2019
Dibromomethane	ND	ug/L	0.5	4/17/2019	4/17/2019

Comments:

Certifications held by Anatek Labs ID: EPA:ID00013; AZ:0701; FL(NELAP):E87893; ID:ID00013; MT:CERT0028; NM: ID00013;NV:ID00013; OR:ID200001-002; WA:C595
Certifications held by Anatek Labs WA: EPA:WA00169; ID:WA00169; WA:C585; MT:Cert0095; FL(NELAP): E871099

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Client: SPOKANE COUNTY UTILITIES
Address: 22515 N. ELK CHATTAROY ROAD
COLBERT, WA 99005
Attn: SVL ANALYTICAL, INC.

Batch #: 190415012
Project Name: SVL #X9D0349

Analytical Results Report

Quality Control Data

Method Blank

Parameter	Result	Units	PQL	Prep Date	Analysis Date
Dibromomethane	ND	ug/L	0.5	4/17/2019	4/18/2019
Dichlorodifluoromethane	ND	ug/L	0.5	4/17/2019	4/17/2019
Dichlorodifluoromethane	ND	ug/L	0.5	4/17/2019	4/18/2019
Ethylbenzene	ND	ug/L	0.5	4/17/2019	4/17/2019
Ethylbenzene	ND	ug/L	0.5	4/17/2019	4/18/2019
Hexachlorobutadiene	ND	ug/L	0.5	4/17/2019	4/17/2019
Hexachlorobutadiene	ND	ug/L	0.5	4/17/2019	4/18/2019
Isopropylbenzene	ND	ug/L	0.5	4/17/2019	4/17/2019
Isopropylbenzene	ND	ug/L	0.5	4/17/2019	4/18/2019
m+p-Xylene	ND	ug/L	0.5	4/17/2019	4/18/2019
m+p-Xylene	ND	ug/L	0.5	4/17/2019	4/17/2019
Methyl ethyl ketone (MEK)	ND	ug/L	2.5	4/17/2019	4/17/2019
Methyl ethyl ketone (MEK)	ND	ug/L	2.5	4/17/2019	4/18/2019
Methyl isobutyl ketone (MIBK)	ND	ug/L	2.5	4/17/2019	4/17/2019
Methyl isobutyl ketone (MIBK)	ND	ug/L	2.5	4/17/2019	4/18/2019
Methylene chloride	ND	ug/L	2.5	4/17/2019	4/17/2019
Methylene chloride	ND	ug/L	2.5	4/17/2019	4/18/2019
methyl-t-butyl ether (MTBE)	ND	ug/L	0.5	4/17/2019	4/18/2019
methyl-t-butyl ether (MTBE)	ND	ug/L	0.5	4/17/2019	4/17/2019
Naphthalene	ND	ug/L	0.5	4/17/2019	4/18/2019
Naphthalene	ND	ug/L	0.5	4/17/2019	4/17/2019
n-Butylbenzene	ND	ug/L	0.5	4/17/2019	4/17/2019
n-Butylbenzene	ND	ug/L	0.5	4/17/2019	4/18/2019
n-Propylbenzene	ND	ug/L	0.5	4/17/2019	4/17/2019
n-Propylbenzene	ND	ug/L	0.5	4/17/2019	4/18/2019
o-Xylene	ND	ug/L	0.5	4/17/2019	4/17/2019
o-Xylene	ND	ug/L	0.5	4/17/2019	4/18/2019
p-isopropyltoluene	ND	ug/L	0.5	4/17/2019	4/17/2019
p-isopropyltoluene	ND	ug/L	0.5	4/17/2019	4/18/2019
sec-Butylbenzene	ND	ug/L	0.5	4/17/2019	4/17/2019
sec-Butylbenzene	ND	ug/L	0.5	4/17/2019	4/18/2019
Styrene	ND	ug/L	0.5	4/17/2019	4/18/2019
Styrene	ND	ug/L	0.5	4/17/2019	4/17/2019
tert-Butylbenzene	ND	ug/L	0.5	4/17/2019	4/18/2019
tert-Butylbenzene	ND	ug/L	0.5	4/17/2019	4/17/2019
Tetrachloroethene	ND	ug/L	0.5	4/17/2019	4/17/2019
Tetrachloroethene	ND	ug/L	0.5	4/17/2019	4/18/2019

Comments:

Certifications held by Anatek Labs ID: EPA:ID00013; AZ:0701; FL(NELAP):E87893; ID:ID00013; MT:CERT0028; NM: ID00013;NV:ID00013; OR:ID200001-002; WA:C595
Certifications held by Anatek Labs WA: EPA:WA00169; ID:WA00169; WA:C585; MT:Cert0095; FL(NELAP): E871099

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Client: SPOKANE COUNTY UTILITIES
Address: 22515 N. ELK CHATTAROY ROAD
COLBERT, WA 99005
Attn: SVL ANALYTICAL, INC.

Batch #: 190415012
Project Name: SVL #X9D0349

Analytical Results Report

Quality Control Data

Method Blank

Parameter	Result	Units	PQL	Prep Date	Analysis Date
Toluene	ND	ug/L	0.5	4/17/2019	4/17/2019
Toluene	ND	ug/L	0.5	4/17/2019	4/18/2019
trans-1,2-Dichloroethene	ND	ug/L	0.5	4/17/2019	4/18/2019
trans-1,2-Dichloroethene	ND	ug/L	0.5	4/17/2019	4/17/2019
trans-1,3-Dichloropropene	ND	ug/L	0.5	4/17/2019	4/17/2019
trans-1,3-Dichloropropene	ND	ug/L	0.5	4/17/2019	4/18/2019
Trichloroethene	ND	ug/L	0.5	4/17/2019	4/17/2019
Trichloroethene	ND	ug/L	0.5	4/17/2019	4/18/2019
Trichloroflouromethane	ND	ug/L	0.5	4/17/2019	4/17/2019
Trichloroflouromethane	ND	ug/L	0.5	4/17/2019	4/18/2019
Vinyl Chloride	ND	ug/L	0.5	4/17/2019	4/18/2019
Vinyl Chloride	ND	ug/L	0.5	4/17/2019	4/17/2019

AR	Acceptable Range
ND	Not Detected
PQL	Practical Quantitation Limit
RPD	Relative Percentage Difference

Comments:

Certifications held by Anatek Labs ID: EPA:ID00013; AZ:0701; FL(NELAP):E87893; ID:ID00013; MT:CERT0028; NM: ID00013;NV:ID00013; OR:ID200001-002; WA:C595
Certifications held by Anatek Labs WA: EPA:WA00169; ID:WA00169; WA:C585; MT:Cert0095; FL(NELAP): E871099

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Login Report

Customer Name: SPOKANE COUNTY UTILITIES
22515 N. ELK CHATTAROY ROAD
COLBERT WA 99005

Order ID: 190415012
Order Date: 4/15/2019

Contact Name: SVL ANALYTICAL, INC.

Project Name: SVL #X9D0349

Comment:

Sample #: 190415012-001 **Customer Sample #:** GWDW-001-190410

Recv'd: ☑ **Matrix:** Water **Collector:** **Date Collected:** 4/10/2019
Quantity: 4 **Date Received:** 4/12/2019 10:31:00 AM **Time Collected:** 8:31 AM
Comment:

Test	Lab	Method	Due Date	Priority
SVOC 8270D MOSC	M	EPA 8270D	4/24/2019	***Normal (~10 Days)***
VOC 8260 MOSC	M	EPA 8260C	4/24/2019	***Normal (~10 Days)***

Sample #: 190415012-002 **Customer Sample #:** GWDW-002-190410

Recv'd: ☑ **Matrix:** Water **Collector:** **Date Collected:** 4/10/2019
Quantity: 4 **Date Received:** 4/12/2019 10:31:00 AM **Time Collected:** 10:51 AM
Comment:

Test	Lab	Method	Due Date	Priority
SVOC 8270D MOSC	M	EPA 8270D	4/24/2019	***Normal (~10 Days)***
VOC 8260 MOSC	M	EPA 8260C	4/24/2019	***Normal (~10 Days)***

Sample #: 190415012-003 **Customer Sample #:** GWDW-003-190410

Recv'd: ☑ **Matrix:** Water **Collector:** **Date Collected:** 4/10/2019
Quantity: 4 **Date Received:** 4/12/2019 10:31:00 AM **Time Collected:** 9:46 AM
Comment:

Test	Lab	Method	Due Date	Priority
SVOC 8270D MOSC	M	EPA 8270D	4/24/2019	***Normal (~10 Days)***
VOC 8260 MOSC	M	EPA 8260C	4/24/2019	***Normal (~10 Days)***

Customer Name: SPOKANE COUNTY UTILITIES
22515 N. ELK CHATTAROY ROAD
COLBERT WA 99005

Order ID: 190415012
Order Date: 4/15/2019

Contact Name: SVL ANALYTICAL, INC.

Project Name: SVL #X9D0349

Comment:

Sample #: 190415012-004 **Customer Sample #:** GWMS-004-190410

Recv'd: ☑ **Matrix:** Water **Collector:** **Date Collected:** 4/10/2019
Quantity: 4 **Date Received:** 4/12/2019 10:31:00 AM **Time Collected:** 1:27 PM
Comment:

Test	Lab	Method	Due Date	Priority
SVOC 8270D MOSC	M	EPA 8270D	4/24/2019	***Normal (~10 Days)***
VOC 8260 MOSC	M	EPA 8260C	4/24/2019	***Normal (~10 Days)***

Sample #: 190415012-005 **Customer Sample #:** GWMW-009-190410

Recv'd: ☑ **Matrix:** Water **Collector:** **Date Collected:** 4/10/2019
Quantity: 4 **Date Received:** 4/12/2019 10:31:00 AM **Time Collected:** 11:00 AM
Comment:

Test	Lab	Method	Due Date	Priority
SVOC 8270D MOSC	M	EPA 8270D	4/24/2019	***Normal (~10 Days)***
VOC 8260 MOSC	M	EPA 8260C	4/24/2019	***Normal (~10 Days)***

Sample #: 190415012-006 **Customer Sample #:** GWMW-010-190410

Recv'd: ☑ **Matrix:** Water **Collector:** **Date Collected:** 4/10/2019
Quantity: 3 **Date Received:** 4/12/2019 10:31:00 AM **Time Collected:** 10:00 AM
Comment:

Test	Lab	Method	Due Date	Priority
VOC 8260 MOSC	M	EPA 8260C	4/24/2019	***Normal (~10 Days)***

Sample #: 190415012-007 **Customer Sample #:** GWMW-013-190410

Recv'd: ☑ **Matrix:** Water **Collector:** **Date Collected:** 4/10/2019
Quantity: 3 **Date Received:** 4/12/2019 10:31:00 AM **Time Collected:** 1:11 PM
Comment:

Test	Lab	Method	Due Date	Priority
VOC 8260 MOSC	M	EPA 8260C	4/24/2019	***Normal (~10 Days)***

Customer Name: SPOKANE COUNTY UTILITIES
22515 N. ELK CHATTAROY ROAD
COLBERT WA 99005

Order ID: 190415012
Order Date: 4/15/2019

Contact Name: SVL ANALYTICAL, INC.

Project Name: SVL #X9D0349

Comment:

Sample #: 190415012-008 **Customer Sample #:** GWMW-014-190410

Recv'd: ☑ **Matrix:** Water **Collector:** **Date Collected:** 4/10/2019
Quantity: 3 **Date Received:** 4/12/2019 10:31:00 AM **Time Collected:** 9:27 AM
Comment:

Test	Lab	Method	Due Date	Priority
VOC 8260 MOSC	M	EPA 8260C	4/24/2019	***Normal (~10 Days)***

Sample #: 190415012-009 **Customer Sample #:** GWMW-019R-190410

Recv'd: ☑ **Matrix:** Water **Collector:** **Date Collected:** 4/10/2019
Quantity: 1 **Date Received:** 4/12/2019 10:31:00 AM **Time Collected:** 2:00 PM
Comment:

Test	Lab	Method	Due Date	Priority
VOC 8260 MOSC	M	EPA 8260C	4/24/2019	***Normal (~10 Days)***

Sample #: 190415012-010 **Customer Sample #:** GWMW-029-190410

Recv'd: ☑ **Matrix:** Water **Collector:** **Date Collected:** 4/10/2019
Quantity: 4 **Date Received:** 4/12/2019 10:31:00 AM **Time Collected:** 1:00 PM
Comment:

Test	Lab	Method	Due Date	Priority
SVOC 8270D MOSC	M	EPA 8270D	4/24/2019	***Normal (~10 Days)***
VOC 8260 MOSC	M	EPA 8260C	4/24/2019	***Normal (~10 Days)***

Sample #: 190415012-011 **Customer Sample #:** GWMW-031-190410

Recv'd: ☑ **Matrix:** Water **Collector:** **Date Collected:** 4/10/2019
Quantity: 3 **Date Received:** 4/12/2019 10:31:00 AM **Time Collected:** 10:39 AM
Comment:

Test	Lab	Method	Due Date	Priority
VOC 8260 MOSC	M	EPA 8260C	4/24/2019	***Normal (~10 Days)***

Customer Name: SPOKANE COUNTY UTILITIES
22515 N. ELK CHATTAROY ROAD
COLBERT WA 99005

Order ID: 190415012
Order Date: 4/15/2019

Contact Name: SVL ANALYTICAL, INC.

Project Name: SVL #X9D0349

Comment:

Sample #: 190415012-012 **Customer Sample #:** MWS-1-2-190410

Recv'd: ☑ **Matrix:** Water **Collector:** **Date Collected:** 4/11/2019
Quantity: 4 **Date Received:** 4/12/2019 10:31:00 AM **Time Collected:** 1:30 PM
Comment:

Test	Lab	Method	Due Date	Priority
SVOC 8270D MOSC	M	EPA 8270D	4/24/2019	***Normal (~10 Days)***
VOC 8260 MOSC	M	EPA 8260C	4/24/2019	***Normal (~10 Days)***

Sample #: 190415012-013 **Customer Sample #:** GWMS-005-140411

Recv'd: ☑ **Matrix:** Water **Collector:** **Date Collected:** 4/11/2019
Quantity: 4 **Date Received:** 4/12/2019 10:31:00 AM **Time Collected:** 9:17 AM
Comment:

Test	Lab	Method	Due Date	Priority
SVOC 8270D MOSC	M	EPA 8270D	4/24/2019	***Normal (~10 Days)***
VOC 8260 MOSC	M	EPA 8260C	4/24/2019	***Normal (~10 Days)***

Sample #: 190415012-013A **Customer Sample #:** GWMS-005-140411A

Recv'd: ☑ **Matrix:** Water **Collector:** **Date Collected:** 4/11/2019
Quantity: 4 **Date Received:** 4/12/2019 10:31:00 AM **Time Collected:** 9:17 AM
Comment:

Test	Lab	Method	Due Date	Priority
SVOC 8270D MOSC	M	EPA 8270D	4/24/2019	***Normal (~10 Days)***
VOC 8260 MOSC	M	EPA 8260C	4/24/2019	***Normal (~10 Days)***

Sample #: 190415012-013B **Customer Sample #:** GWMS-005-140411B

Recv'd: ☑ **Matrix:** Water **Collector:** **Date Collected:** 4/11/2019
Quantity: 4 **Date Received:** 4/12/2019 10:31:00 AM **Time Collected:** 9:17 AM
Comment:

Test	Lab	Method	Due Date	Priority
SVOC 8270D MOSC	M	EPA 8270D	4/24/2019	***Normal (~10 Days)***
VOC 8260 MOSC	M	EPA 8260C	4/24/2019	***Normal (~10 Days)***

Customer Name: SPOKANE COUNTY UTILITIES
22515 N. ELK CHATTAROY ROAD
COLBERT WA 99005

Order ID: 190415012
Order Date: 4/15/2019

Contact Name: SVL ANALYTICAL, INC.

Project Name: SVL #X9D0349

Comment:

Sample #: 190415012-014 **Customer Sample #:** GWMW-016-190411

Recv'd: ☑ **Matrix:** Water **Collector:** **Date Collected:** 4/11/2019
Quantity: 3 **Date Received:** 4/12/2019 10:31:00 AM **Time Collected:** 10:00 AM
Comment:

Test	Lab	Method	Due Date	Priority
VOC 8260 MOSC	M	EPA 8260C	4/24/2019	***Normal (~10 Days)***

Sample #: 190415012-015 **Customer Sample #:** GWMW-020-190411

Recv'd: ☑ **Matrix:** Water **Collector:** **Date Collected:** 4/11/2019
Quantity: 3 **Date Received:** 4/12/2019 10:31:00 AM **Time Collected:** 10:07 AM
Comment:

Test	Lab	Method	Due Date	Priority
VOC 8260 MOSC	M	EPA 8260C	4/24/2019	***Normal (~10 Days)***

Sample #: 190415012-016 **Customer Sample #:** GWMW-023-190411

Recv'd: ☑ **Matrix:** Water **Collector:** **Date Collected:** 4/11/2019
Quantity: 3 **Date Received:** 4/12/2019 10:31:00 AM **Time Collected:** 11:17 AM
Comment:

Test	Lab	Method	Due Date	Priority
VOC 8260 MOSC	M	EPA 8260C	4/24/2019	***Normal (~10 Days)***

Sample #: 190415012-017 **Customer Sample #:** MWS-1-1-1490411

Recv'd: ☑ **Matrix:** Water **Collector:** **Date Collected:** 4/11/2019
Quantity: 3 **Date Received:** 4/12/2019 10:31:00 AM **Time Collected:** 11:23 AM
Comment:

Test	Lab	Method	Due Date	Priority
VOC 8260 MOSC	M	EPA 8260C	4/24/2019	***Normal (~10 Days)***

Customer Name: SPOKANE COUNTY UTILITIES
22515 N. ELK CHATTAROY ROAD
COLBERT WA 99005

Order ID: 190415012
Order Date: 4/15/2019

Contact Name: SVL ANALYTICAL, INC.

Project Name: SVL #X9D0349

Comment:

Sample #: 190415012-018 **Customer Sample #:** MWS-2-1-190411

Recv'd: ☑ **Matrix:** Water **Collector:** **Date Collected:** 4/11/2019

Quantity: 2 **Date Received:** 4/12/2019 10:31:00 AM **Time Collected:**

Comment:

Test	Lab	Method	Due Date	Priority
VOC 8260 MOSC	M	EPA 8260C	4/24/2019	***Normal (~10 Days)***

SAMPLE CONDITION RECORD

Samples received in a cooler?	Yes
Samples received intact?	Yes
What is the temperature of the sample(s)? (°C)	2.8
Samples received with a COC?	Yes
Samples received within holding time?	Yes
Are all sample bottles properly preserved?	Yes
Are VOC samples free of headspace?	No
Is there a trip blank to accompany VOC samples?	Yes
Labels and chain agree?	Yes
Total number of containers?	67

SPOKANE COUNTY CHAIN OF CUSTODY FOR GROUNDWATER SAMPLE
MICA LANDFILL COMPLIANCE MONITORING PROGRAM
2019

190415 012 SCOU Last Due 4/24/2019
1st SAMP 4/10/2019 1st RCVD 4/12/2019
SVL #X9D0349

LABORATORY: *
ANATEK LAB-MOSCOW
1282 ALTURAS DR
MOSCOW, IDAHO 83843
(208) 883-2839
ATTENTION: JOHN CODDINGTON

CLIENT:
SPOKANE COUNTY UTILITIES
22515 N. ELK CHATTAROY RD.
COLBERT, WASHINGTON 99005
(509) 238-6607 FAX (509) 238-6812
MICA (509) 924-5223

SHIPPING CO: UPS
SHIPPING #
OF COOLERS: 2

PAGE 1 OF 2

PARAMETERS:			VOLATILES	SEMI VOLATILES BEHP	SAMPLERS: KEVAN MCCLARTY, GORDIE FISETTE, MIKE TERRIS		
METHOD:			8260B	8270C			
BOTTLES:			3-40 ml. VOA'S	1 LITER AMBER GLASS			
LAB:			ANATEK LAB	ANATEK LAB			
PRESERVATION:			HCl pH<2	UNPRESERVED	NUMBER OF BOTTLES	COOLER NUMBER	COMMENTS
SAMPLE IDENTIFICATION	DATE	TIME					
GWDW-001-190410	4-10-19	0831	X	X	4	5/19	
GWDW-002-190410		1051	X	X	4	5/19	
GWDW-003-190410		0946	X	X	4	5/19	
GWMS-004-190410		1327	X	X	4	5/19	
GWMW-009-190410		1100	X	X	4	5/19	
GWMW-010-190410		1000	X		3	19	
GWMW-013-190410		1311	X		3	19	
GWMW-014-190410		0927	X		3	19	
GWMW-019R-190410		1400	X		3	19	
GWMW-029-190410		1300	X	X	4	19	
GWMW-031-190410	↓	1039	X		3	19	

COMMENTS: Please e-mail a sample condition report to Austin and Mike ASAP; astewart@spokancounty.org & mterris@spokanecounty.org

RELINQUISHED BY:		RECEIVED BY:	
SIGNATURE:	DATE: 4-11-19	SIGNATURE:	DATE:
PRINT NAME: MIKE S TERRIS	TIME: 1430	PRINT NAME:	TIME:
COMPANY: SPOKANE COUNTY UTILITIES LANDFILL CLOSURE		COMPANY:	

* ALL VOC'S ARE IN COOLER #19

SPOKANE COUNTY CHAIN OF CUSTODY FOR GROUNDWATER SAMPLE
MICA LANDFILL COMPLIANCE MONITORING PROGRAM
2019

190415 012 SCOU Last Due 4/24/2019
1st SAMP 4/10/2019 1st RCVD 4/12/2019
SVL #X9D0349

LABORATORY: *
ANATEK LAB-MOSCOW
1282 ALTURAS DR
MOSCOW, IDAHO 83843
(208) 883-2839
ATTENTION: JOHN CODDINGTON

CLIENT:
SPOKANE COUNTY UTILITIES
22515 N. ELK CHATTAROY RD.
COLBERT, WASHINGTON 99005
(509) 238-6607 FAX (509) 238-6812
MICA (509) 924-5223

SHIPPING CO: UPS
SHIPPING #
OF COOLERS: 2

DATE: 4-11-2019
PAGE 2 OF 2

PARAMETERS:			VOLATILES	SEMI VOLATILES BEHP	SAMPLERS: KEVAN MCCLARTY, GORDIE FISETTE, MIKE TERRIS		
METHOD:			8260B	8270C			
BOTTLES:			3-40 ml. VOA'S	1 LITER AMBER GLASS			
LAB:			ANATEK LAB	ANATEK LAB			
PRESERVATION:			HCl pH<2	UNPRESERVED	NUMBER OF BOTTLES	COOLER NUMBER	COMMENTS
SAMPLE IDENTIFICATION	DATE	TIME					
MWS-1-2-190410	4-10-19	1330	X	X	4	19	
GWMS-005-190411	4-11-19	0917	X	X	12	5/19	MS/MSD
GWMW-016-190411	4-11-19	1000	X		3	19	
GWMW-020-190411	"	1007	X		3	19	
GWMW-023-190411	"	1117	X		3	19	
MWS-1-1-190411	"	1123	X		3	19	
MWS-2-1-190411	"	—	X		2	19	TRIP-BLANKS

COMMENTS: Please e-mail a sample condition report to Austin and Mike ASAP; astewart@spokancounty.org & mterris@spokanecounty.org

RELINQUISHED BY:		RECEIVED BY:	
SIGNATURE: [signature]	DATE: 4/11/19	SIGNATURE:	DATE:
PRINT NAME: MIKE S TERRIS	TIME: 1430	PRINT NAME:	TIME:
COMPANY: SPOKANE COUNTY UTILITIES LANDFILL CLOSURE		COMPANY:	

* ALL VOC'S ARE IN COOLER #19

Anatek Labs, Inc.

Sample Receipt and Preservation Form

190415 012 SCOU Last Due 4/24/2019

1st SAMP 4/10/2019 1st RCVD 4/12/2019

SVL #X9D0349

Client Name: SCOU Project: e)

TAT: (Normal) RUSH: _____ days

Samples Received From: FedEx (UPS) USPS Client Courier Other: _____

Custody Seal on Cooler/Box: (Yes) No Custody Seals Intact: (Yes) No N/A

Number of Coolers/Boxes: 2 Type of Ice: (Ice/Ice Packs) Blue Ice Dry Ice None

Packing Material: (Bubble Wrap) (Bags) Foam/Peanuts None Other: _____

Cooler Temp As Read (°C): 2.8 Cooler Temp Corrected (°C): 2.8 Thermometer Used: IR3

				Comments:
Samples Received Intact?	(Yes)	No	N/A	
Chain of Custody Present?	(Yes)	No	N/A	
Samples Received Within Hold Time?	(Yes)	No	N/A	
Samples Properly Preserved?	(Yes)	No	N/A	
VOC Vials Free of Headspace (<6mm)?	Yes	(No)	N/A	
VOC Trip Blanks Present?	(Yes)	No	N/A	
Labels and Chains Agree?	(Yes)	No	N/A	
Total Number of Sample Bottles Received: 69				

Chain of Custody Fully Completed?	(Yes)	No	N/A	
Correct Containers Received?	(Yes)	No	N/A	
Anatek Bottles Used?	Yes	No	(Unknown)	

Record preservatives (and lot numbers, if known) for containers below:

HCl (1805)

Notes, comments, etc. (also use this space if contacting the client - record names and date/time)

2 of 3 vials for GNMW-019R-190410 rejected → headspace >6mm

Received/Inspected By: KHK Date/Time: 4-12-19 10:31

APPENDIX D DISCHARGE MONITORING REPORTS

SPOKANE COUNTY REGIONAL WATER RECLAMATION FACILITY
DISCHARGE MONITORING REPORT

Company Name:	**Spokane County Utilities Division, Mica Landfill**			**Permit #:**	**SIU-4953-0-A**
Discharge Adress:	**7810 S Hidden Hollow Drive Mica, WA 99023**			**Reporting Month:**	**October**
				Year:	2018
Sample Point:	**Wet well at the NW pond**		**Date/Time:**	10/9/2018	
Sampled By:					
Parameter	**Reporting Limit**	**Result**	**Permit Limit**	**Frequency**	**Sample Type**
Arsenic			**0.41 mg/lL**	N/A	
BTEX	3.0 ug/L	< 3.0 ug/L	**<1.4 mg/L**	Two/year	4 grab samples
Cadmium			**0.07 mg/L**	N/A	
Total Chromium			**5.0 mg/L**	N/A	
Copper			**1.7 mg/L**	N/A	
Cyanide			**1.9 mg/L**	N/A	
Lead			**0.32 mg/L**	N/A	
Mercury			**0.05 mg/L**	N/A	
Molybdenum			**1.5 mg/L**	N/A	
Nickel			**3.98 mg/L**	N/A	
Non-polar material (TPH)			**100 mg/L**	N/A	
Selenium			**1.0 mg/L**	N/A	
Silver			**1.7 mg/L**	N/A	
Zinc			**5.6 mg/L**	N/A	

I certify under penalty of perjury of the laws of the State of Washington: that I am authorized to sign this statement on behalf of the person or entity for which it is submitted. That this document and all attachments are reliable and were prepared based upon my personal knowledge or under my direction or supervision after a diligent inquiry in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my knowledge or inquiry of the person or persons who manage the system or those persons directly responsible for gathering information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment.

Facility Representative Signature:	Austin Stewart
Printed Name and Title:	Austin Stewart, Water Resources Specialist
Date:	11/6/2018

Date	Flow (gpd)	pH
1	939	7.66
2	923	
3	1617	
4	1300	
5	281	7.66
6	1330	
7	768	
8	1337	7.78
9	1497	7.85
10	201	
11	246	
12	277	7.75
13	247	
14	235	
15	267	7.71
16	260	
17	240	
18	272	7.62
19	256	
20	228	
21	222	
22	212	
23	229	7.6
24	219	
25	256	7.7
26	502	
27	218	
28	419	
29	256	7.67
30	163	
31	417	
Total Flow	15834	
Maximum	1617	7.85
Minimum	163	7.6
Average Flow	510.7741935	
Permit Limit	**78,000**	**5.0-11.0**

Comments:

SPOKANE COUNTY REGIONAL WATER RECLAMATION FACILITY
DISCHARGE MONITORING REPORT

Company Name:	**Spokane County Utilities Division, Mica Landfill**	**Permit #:**	**SIU-4953-0-A**
Discharge Adress:	**7810 S Hidden Hollow Drive Mica, WA 99023**	**Reporting Month:**	**November**
		Year:	2018
Sample Point:	**Wet well at the NW pond**	**Date/Time:**	
Sampled By:			

Parameter	Reporting Limit	Result	Permit Limit	Frequency	Sample Type
Arsenic			**0.41 mg/IL**	N/A	
BTEX			**<1.4 mg/L**	Two/year	
Cadmium			**0.07 mg/L**	N/A	
Total Chromium			**5.0 mg/L**	N/A	
Copper			**1.7 mg/L**	N/A	
Cyanide			**1.9 mg/L**	N/A	
Lead			**0.32 mg/L**	N/A	
Mercury			**0.05 mg/L**	N/A	
Molybdenum			**1.5 mg/L**	N/A	
Nickel			**3.98 mg/L**	N/A	
Non-polar material (TPH)			**100 mg/L**	N/A	
Selenium			**1.0 mg/L**	N/A	
Silver			**1.7 mg/L**	N/A	
Zinc			**5.6 mg/L**	N/A	

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Facility Representative Signature:	Austin Stewart
Printed Name and Title:	Austin Stewart, Water Resources Specialist
Date:	12/3/2018

Date	Flow (gpd)	pH
1	462	7.79
2	366	
3	224	
4	937	
5	854	7.73
6	919	
7	894	
8	830	
9	500	7.66
10	61	
11	60	
12	73	
13	82	7.65
14	58	
15	113	7.69
16	103	
17	14	
18	39	
19	50	7.62
20	55	
21	87	7.60
22	281	
23	215	
24	1304	
25	1070	
26	2059	7.49
27	16620	
28	16995	
29	13592	7.40
30	11136	
31		
Total Flow	70053	
Maximum	16995	7.79
Minimum	14	7.4
Average Flow	2335.1	
Permit Limit	**78,000**	**5.0-11.0**

Comments:

SPOKANE COUNTY REGIONAL WATER RECLAMATION FACILITY
DISCHARGE MONITORING REPORT

Company Name:	**Spokane County Utilities Division, Mica Landfill**	**Permit #:**	**SIU-4953-0-A**
Discharge Adress:	**7810 S Hidden Hollow Drive Mica, WA 99023**	**Reporting Month:**	**December**
		Year:	2018

Sample Point:	**Wet well at the NW pond**		**Date/Time:**		
Sampled By:					
Parameter	**Reporting Limit**	**Result**	**Permit Limit**	**Frequency**	**Sample Type**
Arsenic			**0.41 mg/lL**	N/A	
BTEX			**<1.4 mg/L**	Two/year	
Cadmium			**0.07 mg/L**	N/A	
Total Chromium			**5.0 mg/L**	N/A	
Copper			**1.7 mg/L**	N/A	
Cyanide			**1.9 mg/L**	N/A	
Lead			**0.32 mg/L**	N/A	
Mercury			**0.05 mg/L**	N/A	
Molybdenum			**1.5 mg/L**	N/A	
Nickel			**3.98 mg/L**	N/A	
Non-polar material (TPH)			**100 mg/L**	N/A	
Selenium			**1.0 mg/L**	N/A	
Silver			**1.7 mg/L**	N/A	
Zinc			**5.6 mg/L**	N/A	

I certify under penalty of perjury of the laws of the State of Washington: that I am authorized to sign this statement on behalf of the person or entity for which it is submitted. That this document and all attachments are reliable and were prepared based upon my personal knowledge or under my direction or supervision after a diligent inquiry in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my knowledge or inquiry of the person or persons who manage the system or those persons directly responsible for gathering information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment.

Facility Representative Signature:	Austin Stewart
Printed Name and Title:	Austin Stewart, Water Resources Specialist
Date:	1/8/2019

Date	Flow (gpd)	pH
1	11310	
2	9924	
3	8546	7.16
4	31589	
5	8714	
6	25497	7.09
7	14357	
8	3149	
9	2728	
10	3780	7.15
11	23910	
12	5397	
13	3558	7.28
14	3498	
15	4355	
16	8250	
17	64412	7.21
18	55898	
19	69071	7.29
20	36193	
21	34580	
22	10764	
23	9050	
24	8962	
25	36202	
26	37211	7.19
27	10306	7.24
28	5059	
29	5699	
30	38634	
31	46293	7.12
Total Flow	636896	
Maximum	69071	7.29
Minimum	2728	7.09
Average Flow	20545.03226	
Permit Limit	**78,000**	**5.0-11.0**

Comments:

SPOKANE COUNTY REGIONAL WATER RECLAMATION FACILITY
DISCHARGE MONITORING REPORT

Company Name:	**Spokane County Utilities Division, Mica Landfill**	**Permit #:**	**SIU-4953-0-A**
Discharge Adress:	**7810 S Hidden Hollow Drive Mica, WA 99023**	**Reporting Month:**	**January**
		Year:	2019
Sample Point:	**Wet well at the NW pond**	**Date/Time:**	
Sampled By:			

Parameter	Reporting Limit	Result	Permit Limit	Frequency	Sample Type
Arsenic			**0.41 mg/lL**	N/A	
BTEX			**<1.4 mg/L**	Two/year	
Cadmium			**0.07 mg/L**	N/A	
Total Chromium			**5.0 mg/L**	N/A	
Copper			**1.7 mg/L**	N/A	
Cyanide			**1.9 mg/L**	N/A	
Lead			**0.32 mg/L**	N/A	
Mercury			**0.05 mg/L**	N/A	
Molybdenum			**1.5 mg/L**	N/A	
Nickel			**3.98 mg/L**	N/A	
Non-polar material (TPH)			**100 mg/L**	N/A	
Selenium			**1.0 mg/L**	N/A	
Silver			**1.7 mg/L**	N/A	
Zinc			**5.6 mg/L**	N/A	

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Facility Representative Signature:	Austin Stewart
Printed Name and Title:	Austin Stewart, Water Resources Specialist
Date:	2/6/2019

Date	Flow (gpd)	pH
1	16406	
2	9284	6.98
3	48478	
4	14168	7.12
5	10483	
6	11485	
7	49377	7.13
8	12206	
9	33454	
10	32742	7.16
11	46952	
12	28426	
13	17294	
14	54901	7.08
15	32677	
16	9183	
17	36982	7.1
18	12524	
19	12269	
20	12654	
21	58750	7.06
22	21495	
23	14479	
24	52269	7.2
25	19842	
26	13667	
27	22756	
28	49196	7.12
29	11704	
30	6021	
31	5285	7.07
Total Flow	777409	
Maximum	58750	7.2
Minimum	5285	6.98
Average Flow	25077.70968	
Permit Limit	**78,000**	**5.0-11.0**

Comments:

SPOKANE COUNTY REGIONAL WATER RECLAMATION FACILITY
DISCHARGE MONITORING REPORT

Company Name:	**Spokane County Utilities Division, Mica Landfill**	**Permit #:**	**SIU-4953-0-A**
Discharge Adress:	**7810 S Hidden Hollow Drive Mica, WA 99023**	**Reporting Month:**	**February**
		Year:	2019

Sample Point:	**Wet well at the NW pond**	**Date/Time:**	
Sampled By:			

Parameter	**Reporting Limit**	**Result**	**Permit Limit**	**Frequency**	**Sample Type**
Arsenic			**0.41 mg/lL**	N/A	
BTEX			**<1.4 mg/L**	Two/year	
Cadmium			**0.07 mg/L**	N/A	
Total Chromium			**5.0 mg/L**	N/A	
Copper			**1.7 mg/L**	N/A	
Cyanide			**1.9 mg/L**	N/A	
Lead			**0.32 mg/L**	N/A	
Mercury			**0.05 mg/L**	N/A	
Molybdenum			**1.5 mg/L**	N/A	
Nickel			**3.98 mg/L**	N/A	
Non-polar material (TPH)			**100 mg/L**	N/A	
Selenium			**1.0 mg/L**	N/A	
Silver			**1.7 mg/L**	N/A	
Zinc			**5.6 mg/L**	N/A	

I certify under penalty of perjury of the laws of the State of Washington: that I am authorized to sign this statement on behalf of the person or entity for which it is submitted. That this document and all attachments are reliable and were prepared based upon my personal knowledge or under my direction or supervision after a diligent inquiry in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my knowledge or inquiry of the person or persons who manage the system or those persons directly responsible for gathering information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment.

Facility Representative Signature:	Austin Stewart
Printed Name and Title:	Austin Stewart, Water Resources Specialist
Date:	3/4/2019

Date	Flow (gpd)	pH
1	27944	
2	11250	
3	41471	
4	44911	7.02
5	40425	
6	12338	
7	37046	7.21
8	13391	
9	35308	
10	9856	
11	8528	7.15
12	35362	
13	11570	
14	6820	6.98
15	6519	
16	5597	
17	5061	
18	4232	
19	38913	7.23
20	5831	
21	3610	7.37
22	3932	
23	3830	
24	3282	
25	2828	7.19
26	24572	
27	2940	
28	3116	
29		
30		
31		
Total Flow	450483	
Maximum	44911	7.37
Minimum	2828	6.98
Average Flow	16088.67857	
Permit Limit	**78,000**	**5.0-11.0**

Comments: 2nd PH reading for the last week of February/March was taken on 3/1/2019 (PH = 7.29).

SPOKANE COUNTY REGIONAL WATER RECLAMATION FACILITY
DISCHARGE MONITORING REPORT

Company Name:	**Spokane County Utilities Division, Mica Landfill**	**Permit #:**	**SIU-4953-0-A**
Discharge Adress:	**7810 S Hidden Hollow Drive Mica, WA 99023**	**Reporting Month:**	**March**
		Year:	2019

Sample Point:	**Wet well at the NW pond**	**Date/Time:**	
Sampled By:			

Parameter	**Reporting Limit**	**Result**	**Permit Limit**	**Frequency**	**Sample Type**
Arsenic			**0.41 mg/lL**	N/A	
BTEX			**<1.4 mg/L**	Two/year	
Cadmium			**0.07 mg/L**	N/A	
Total Chromium			**5.0 mg/L**	N/A	
Copper			**1.7 mg/L**	N/A	
Cyanide			**1.9 mg/L**	N/A	
Lead			**0.32 mg/L**	N/A	
Mercury			**0.05 mg/L**	N/A	
Molybdenum			**1.5 mg/L**	N/A	
Nickel			**3.98 mg/L**	N/A	
Non-polar material (TPH)			**100 mg/L**	N/A	
Selenium			**1.0 mg/L**	N/A	
Silver			**1.7 mg/L**	N/A	
Zinc			**5.6 mg/L**	N/A	

I certify under penalty of perjury of the laws of the State of Washington: that I am authorized to sign this statement on behalf of the person or entity for which it is submitted. That this document and all attachments are reliable and were prepared based upon my personal knowledge or under my direction or supervision after a diligent inquiry in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my knowledge or inquiry of the person or persons who manage the system or those persons directly responsible for gathering information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment.

Facility Representative Signature:	Austin Stewart
Printed Name and Title:	Austin Stewart, Water Resources Specialist
Date:	4/2/2019

Date	**Flow (gpd)**	**pH**
1	4266	7.29
2	2666	
3	2328	
4	2137	7.31
5	2107	
6	2119	
7	23006	7.39
8	2431	
9	2185	
10	2231	
11	3441	7.30
12	4999	
13	5259	
14	5177	
15	26432	7.22
16	4885	
17	6224	
18	32500	7.15
19	33229	
20	69603	
21	68761	7.02
22	60047	
23	69513	
24	63608	
25	96745	6.93
26	74552	
27	42233	
28	75874	7.08
29	47508	
30	28945	
31	26089	
Total Flow	891100	
Maximum	96745	7.39
Minimum	2107	6.93
Average Flow	28745.16	
Permit Limit	**78,000**	**5.0-11.0**

SPOKANE COUNTY REGIONAL WATER RECLAMATION FACILITY
DISCHARGE MONITORING REPORT

Company Name:	**Spokane County Utilities Division, Mica Landfill**	**Permit #:**	**SIU-4953-0-A**
Discharge Adress:	**7810 S Hidden Hollow Drive Mica, WA 99023**	**Reporting Month:**	**April**
		Year:	2019

Sample Point:	**Wet well at the NW pond**		**Date/Time:**	4/8/2019	
Sampled By:					
Parameter	**Reporting Limit**	**Result**	**Permit Limit**	**Frequency**	**Sample Type**
Arsenic			**0.41 mg/lL**	N/A	
BTEX	3.0 ug/L	< 3.0 ug/L	**<1.4 mg/L**	Two/year	4 grab samples
Cadmium			**0.07 mg/L**	N/A	
Total Chromium			**5.0 mg/L**	N/A	
Copper			**1.7 mg/L**	N/A	
Cyanide			**1.9 mg/L**	N/A	
Lead			**0.32 mg/L**	N/A	
Mercury			**0.05 mg/L**	N/A	
Molybdenum			**1.5 mg/L**	N/A	
Nickel			**3.98 mg/L**	N/A	
Non-polar material (TPH)			**100 mg/L**	N/A	
Selenium			**1.0 mg/L**	N/A	
Silver			**1.7 mg/L**	N/A	
Zinc			**5.6 mg/L**	N/A	

I certify under penalty of perjury of the laws of the State of Washington: that I am authorized to sign this statement on behalf of the person or entity for which it is submitted. That this document and all attachments are reliable and were prepared based upon my personal knowledge or under my direction or supervision after a diligent inquiry in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my knowledge or inquiry of the person or persons who manage the system or those persons directly responsible for gathering information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment.

Facility Representative Signature:	Austin Stewart
Printed Name and Title:	Austin Stewart, Water Resources Specialist
Date:	5/1/2019

Date	**Flow (gpd)**	**pH**
1	75,606	7.03
2	33,760	
3	22,975	
4	64,896	7.39
5	30,284	
6	23,558	
7	25,138	
8	32,326	6.94
9	55,232	
10	40,397	
11	55,779	
12	58,899	6.98
13	37,863	
14	47,358	
15	61,822	6.95
16	45,015	
17	22,947	
18	39,080	6.93
19	25,133	
20	17,552	
21	16,204	
22	36,331	6.87
23	16,996	
24	11,981	
25	10,451	
26	33,560	7.00
27	13,791	
28	7,839	
29	6,793	7.16
30	29,991	
31		
Total Flow	999,557.00	
Maximum	75,606.00	7.39
Minimum	6,793.00	6.87
Average Flow	33,318.57	
Permit Limit	**78,000**	**5.0-11.0**

See attached laboratory report - all results for all BTEX analytes are non-detect.