

**QUARTERLY GROUNDWATER MONITORING
REPORT- February 2021**

**Avista Service Center Garage
East 1411 Mission Avenue
Spokane, Washington 99220**

Prepared for
**Avista Corporation
East 1411 Mission Avenue
Spokane, Washington 99220**

SES PROJECT NO. 0200-017



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February 22, 2021

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PROJECT INFORMATION

Site Name/Location: Avista Service Center
East 1411 Mission Avenue, Spokane, Washington 99220

Sampling Date: February 1, 2021

Document Contents: Summary of February 2021 Quarterly Groundwater Sampling

Site Owner: Avista Corporation
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SES Project No.: 0200-017

INTRODUCTION

This report summarizes the results of quarterly groundwater sampling at the Avista Corporation's (Avista) Service Center site in Spokane, Washington (Mission Campus). The site is located on the northwest corner of East Mission Avenue and Upriver Drive adjacent to the Spokane River near downtown Spokane, Washington as shown on the Location Map, Figure 1. Groundwater monitoring is being conducted as an independent action under the Washington Department of Ecology (Ecology) Model Toxics Control Act¹ (MTCA).

The Service Center Garage building was located on the Avista Spokane campus which resides on an approximate 20 acre parcel in Spokane, Washington. The site is shown in Groundwater Elevation and Interpreted Flow Direction, February 1, 2021, Figure 2.

The Spokane River is located approximately 400 feet east of the former Service Center Garage building. Groundwater flows from southeast to northwest, away from the Spokane River, based on groundwater monitoring events conducted at the site. The Service Center Garage building was used from 1955 to July 2018 to service fleet vehicles. The Service Center Garage building contained sub-slab hydraulic lifts for servicing line trucks in Bay 1, Bay 2, Bay 5 and Bay 7. The high bay area contained portable hydraulic lifts that were not located beneath the floor slab. Avista demolished the Service Center Garage building in August 2018 and moved to a new facility located in the northern area of the campus.

Two groundwater monitoring wells (MW-1A and MW-5B) were installed at the site on July 26, 2019 as replacements for wells damaged or destroyed during construction of a parking structure in 2018-2019.

Currently, there are five monitoring wells on the site. SES measured top of casing elevations of monitoring wells MW-1A, MW-2, MW-3, MW-4 and MW-5B on February 1, 2021. Groundwater elevations are calculated from these general well elevations. Monitoring well locations are shown on Figure 2.

GROUNDWATER ELEVATION AND GRADIENT

The monitoring well elevations are used to identify the general groundwater gradient across the site. After removal of the caps and measuring the headspace in each well, groundwater was allowed to equilibrate to current atmospheric conditions prior to recording the depth to water. The depth to groundwater was measured in each monitoring well before it was sampled. Groundwater levels were measured from the monitoring well top of casing (TOC) using an electronic water level meter. The depth to groundwater ranged from 17.51 feet below TOC at MW-3 to 37.52 feet below

¹ Washington State Department of Ecology Toxics Cleanup Program. 2007. Model Toxics Control Act Cleanup Regulation Chapter 173-340 WAC. Publication No 94-06.

TOC at MW-1A. Groundwater elevations across the site ranged from 1,869.44 feet in MW-1A to 1,870.06 feet in MW-3. The February 2021 groundwater flow is west-northwesterly, which is consistent with previous groundwater monitoring events. Groundwater gradient as measured was approximately 0.0009ft/ft across the site. Groundwater gradient was determined based on the maximum difference in groundwater elevation over the 660 foot distance from MW-1A to MW-3. The depth to groundwater and groundwater elevations are summarized in Summary of Groundwater Level Measurements, Table 1 and are shown on Figure 2.

GROUNDWATER SAMPLING PROCEDURES

Groundwater samples were collected on February 1, 2021 from site groundwater monitoring wells MW-1A, MW-2, MW-3, MW-4 and MW-5B. Prior to sampling, groundwater monitoring wells were purged and sampled in accordance with U.S. Environmental Protection Agency (EPA) guidance for low-flow sampling. During purging, water levels were monitored and drawdown minimized. Wells were purged until field parameters (temperature, conductivity, pH, dissolved oxygen, and turbidity) were stable within ten percent for three consecutive measurements. Groundwater quality parameters are summarized in Summary of Groundwater Quality Measurements, Table 2.

SES typically measures headspace in each well as part of field screen parameters. However, this was not completed during the February 1, 2021 monitoring event due to a shipping delay for the rental photoionization detector. It is our opinion that this data is not critical to regulatory compliance and we sampled the wells as scheduled.

GROUNDWATER ANALYTICAL TESTING

Groundwater samples were placed into laboratory prepared containers and placed on ice upon collection pending same-day delivery to Eurofin's TestAmerica laboratory in Spokane, Washington. Samples were transported under chain-of-custody protocol.

Groundwater samples we analyzed for diesel- and lube oil-range petroleum hydrocarbons by Northwest Method NWTPH-Dx, for polychlorinated biphenyls (PCBs) by EPA Method 8082A and for poly-cyclic aromatic hydrocarbons (PAHs) by EPA Method 8270E. Groundwater samples were analyzed on a standard turn-around time of 10-business days.

One duplicate sample (Dup) was collected from monitoring well MW-1A for quality assurance purposes. The sample was analyzed for NWTPH-Dx. Analytical results for each sample are in accordance with quality control standards as SES's review of the analytical report did not find discrepancies in analytical data or in laboratory quality control samples. Therefore, it is SES's opinion that the analytical data is suitable for its intended purpose.

GROUNDWATER SAMPLING RESULTS

Monitoring well samples were analyzed for diesel- and lube oil-range petroleum, polychlorinated biphenyls (PCBs) and for poly-cyclic aromatic hydrocarbons (PAHs). Samples were transported to TestAmerica Analytical Laboratory, located in Spokane, Washington for analysis. Groundwater sampling results for this monitoring event is summarized below. Analytical results are also presented in Summary of Chemical Analytical Results, Table 3. Laboratory analytical reports are included in Appendix A.

- Diesel- and Lube Oil- Range petroleum hydrocarbons were not detected in samples at concentrations exceeding Method reporting limits in any sample.
- PCBs were not detected at a concentration exceeding Method reporting limits in any sample.
- PAHs were not detected at concentrations exceeding Method reporting levels in any sample.

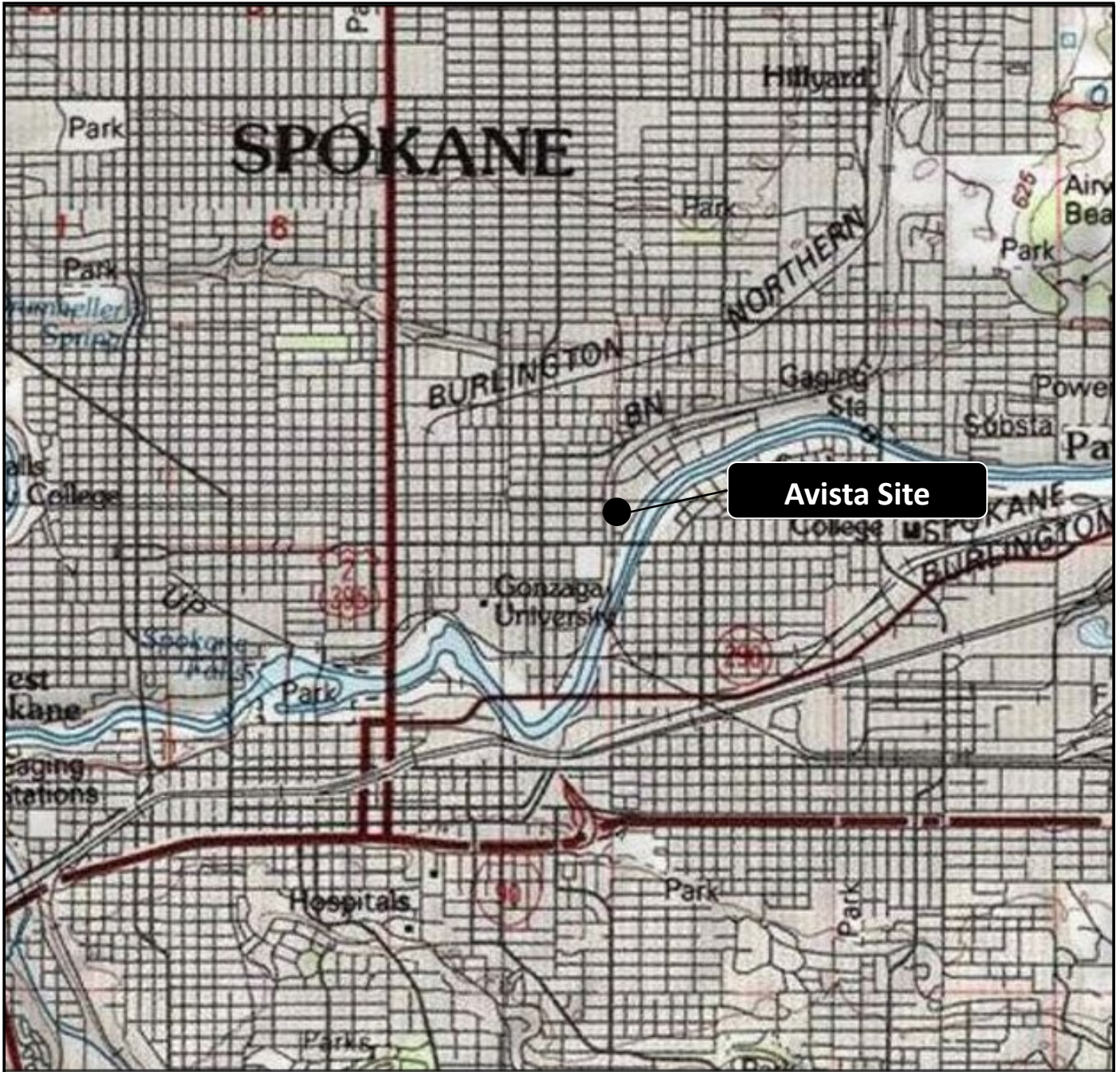
SUMMARY

Concentrations of contaminants of concern were not detected at concentrations exceeding Method reporting limits in samples collected from site monitoring wells during the February 1, 2021 sampling event. Method reporting limits are below applicable MTCA Method A cleanup criterion for unrestricted use.

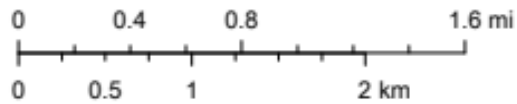
RECOMMENDATIONS

SES recommends that this site be considered for permanent closure as regular seasonal groundwater sampling since 12/20/2019 has consistently shown measured concentrations below laboratory method detection limits and MTCA Method A cleanup criterion for analytes of concern. Therefore, we respectfully request that Ecology review the existing data and provide the site with a no further action opinion in accordance with applicable Ecology guidelines.

FIGURES



Spokane



Location Map

Avista – Service Center
Garage Groundwater
Monitoring Report

Spokane, WA



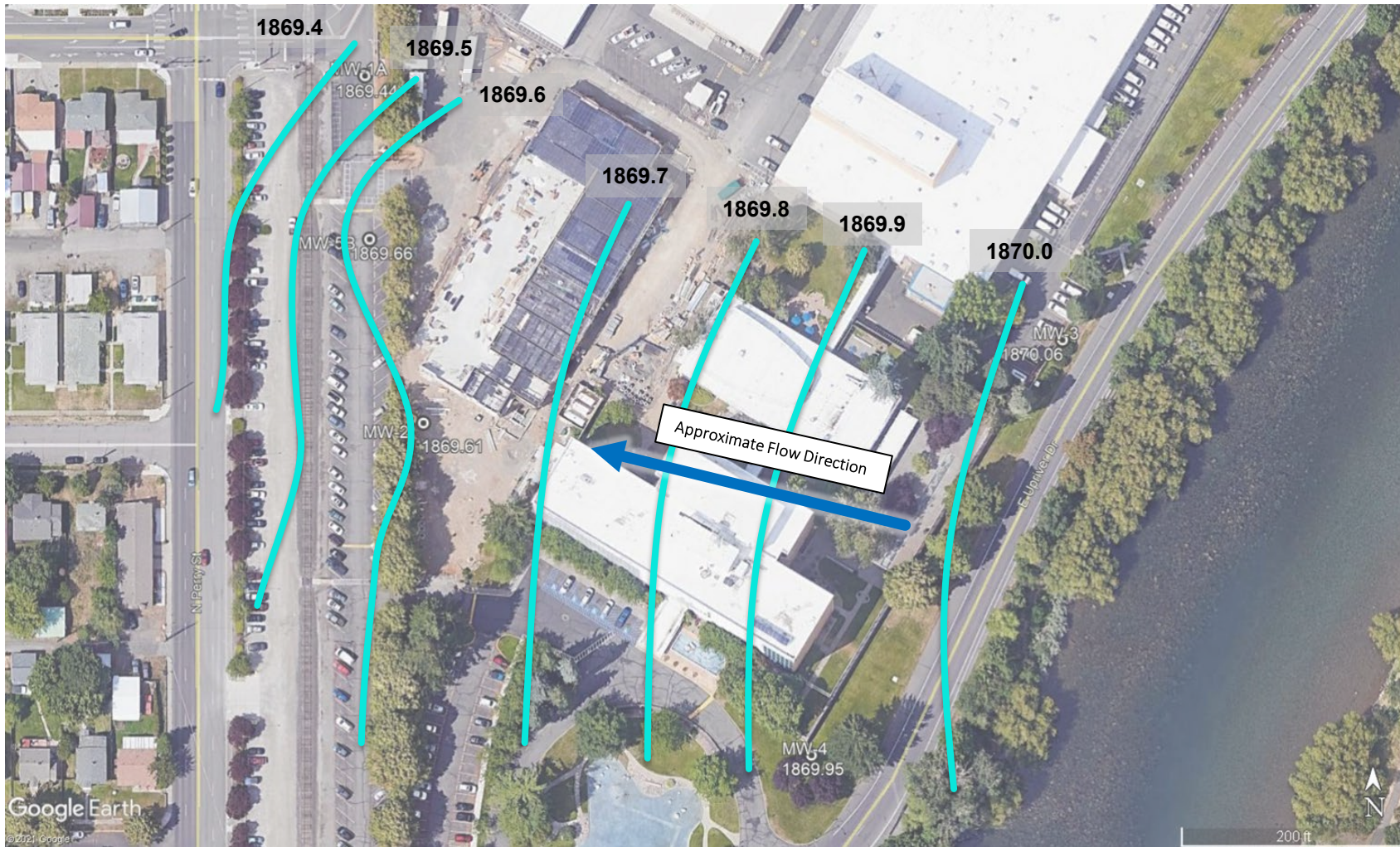
**Figure
1**

Notes:

1. Location of all features on map are approximate.
2. This drawing is for information purposes. It is intended to assist in showing features discussed in an attached document. Spokane Environmental Solutions, LLC cannot guarantee the accuracy and content of electronic files. The master file is stored by Spokane Environmental Solutions, LLC and will serve as the official record of this communication.

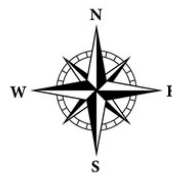
Data Source: Image from ESRI Online

Date Created: 2/11/2021



Legend

-  Monitoring Well
-  Approximate Ground Water Elevation Contour (0.1 ft)



Notes:

1. Location of all features on map are approximate.
2. This drawing is for information purposes. It is intended to support descriptions of features discussed in an associated document. Spokane Environmental Solutions, LLC cannot guarantee the accuracy and content of electronic files. The master file is stored by Spokane Environmental Solutions, LLC and will serve as the official record of this communication.
3. Groundwater contours interpreted from elevations measured 2/1/2020

Data Source: Image from Google Earth

Date Created: 2/11/2021

Groundwater Elevation and Interpreted Flow Direction – February 1, 2021

Avista – Service Center Garage
Groundwater Monitoring Report

Spokane, WA



Figure

2

TABLES

Table 1
Summary of Groundwater Level Measurements
 Avista - Spokane Service Center
 Spokane, Washington

Well Number	Top of Casing Elevation ¹ (feet)	Screen Elevation ¹ (feet)	Date Measured	Monitoring Well Headspace ² (ppm)	Depth to Groundwater ³ (feet)	Groundwater Elevation ¹ (feet)	Change in Groundwater Elevation ⁴ (feet)
MW-1A	1,906.96	1,872.0 to 1,862.0	12/20/19	0.4	39.09	1,867.87	NA
			01/03/20	0.0	39.16	1,867.80	-0.07
			01/16/20	0.0	38.76	1,868.20	0.40
			07/21/20	0.1	39.13	1,867.83	-0.37
			10/14/20	0.1	40.13	1,866.83	-1.00
			02/01/21	NA	37.52	1,869.44	2.61
MW-2	1,897.60	1,872.57 to 1,862.57	12/20/19	0.1	29.55	1,868.05	NA
			01/03/20	0.0	29.60	1,868.00	-0.05
			01/16/20	1.1	29.21	1,868.39	0.39
			07/21/20	0.1	29.57	1,868.03	-0.36
			10/14/20	0.1	30.59	1,867.01	-1.02
			02/01/21	NA	27.99	1,869.61	2.60
MW-3	1,887.57	1,872.44 to 1,862.44	12/20/19	0.0	19.10	1,868.47	NA
			01/03/20	0.1	19.15	1,868.42	-0.05
			01/16/20	0.0	18.72	1,868.85	0.43
			07/21/20	0.4	19.13	1,868.44	-0.41
			10/14/20	0.2	20.13	1,867.44	-1.00
			02/01/21	NA	17.51	1,870.06	2.62
MW-4	1,888.10	1,873.10 to 1,863.10	12/20/19	0.0	19.74	1,868.36	NA
			01/03/20	0.0	19.79	1,868.31	-0.05
			01/16/20	0.2	19.38	1,868.72	0.41
			07/21/20	0.0	19.79	1,868.31	-0.41
			10/14/20	0.0	20.78	1,867.32	-0.99
			02/01/21	NA	18.15	1,869.95	2.63
MW-5B	1901.72	1868.97 to 1858.97	12/20/19	0.7	33.65	1,868.07	NA
			01/03/20	0.0	33.71	1,868.01	-0.06
			01/16/20	2.9	33.32	1,868.40	0.39
			07/21/20	0.2	33.68	1,868.04	-0.36
			10/14/20	0.1	34.71	1,867.01	-1.03
			02/01/21	NA	32.06	1,869.66	2.65

Notes:

¹Elevations are referenced to the National Geodetic Vertical Datum of 1988 (NAVD88).

²Well headspace measurements were obtained using a photoionization detector immediately upon removal of the well's compression cap.

³Depth to water measurements obtained from the north side of the top of PVC well casing.

⁴Represents change in groundwater elevation from previous event, as measured in monitoring wells.

⁵Well screen length is unknown.

⁶Groundwater elevation is lower than the screened interval and might not represent actual groundwater elevation.

⁷Spokane River Stage provided by United States Geological Survey (USGS) gauge at Greene Street. Measured in feet.

NA = Not Applicable; NM = Not Measured

Table 2
Summary of Groundwater Quality Measurements
 Avista - Spokane Service Center
 Spokane, Washington

Well Number	Date Measured	pH (pH units)	Specific Conductivity (µS/cm)	Redox Potential (mv)	Dissolved Oxygen (mg/L)	Turbidity ¹ (NTU)	Temperature (degrees C)
MW-1A	12/20/19	6.99	267.4	91.4	8.91	18.6	10.80
	01/03/20	10.93	76.5	78.9	8.88	3.0	9.10
	01/16/20	7.16	189.0	144.6	8.43	0.0	8.50
	07/21/20	7.39	161.0	113.0	5.77	61.2	22.59
	10/14/20	7.57	207.0	88.7	10.78	27.5	12.60
	02/01/21	6.23	227.0	77.0	10.75	0.0	12.43
MW-2	12/20/19	7.33	240.8	99.9	7.51	4.9	10.80
	01/03/20	11.91	65.9	113.5	7.68	2.2	10.20
	01/16/20	7.32	197.0	113.4	7.53	2.2	10.40
	07/21/20	6.89	203.0	134.0	5.29	51.4	22.73
	10/14/20	7.60	196.0	91.7	10.82	0.0	12.70
	02/01/21	7.22	197.0	45.0	10.38	215.0	10.89
MW-3	12/20/19	6.41	158.2	97.7	4.67	6.9	8.00
	01/03/20	11.53	44.3	107.0	4.99	2.2	7.20
	01/16/20	6.69	91.0	144.7	8.58	0.0	7.00
	07/21/20	6.20	152.0	50.0	1.43	0.0	18.99
	10/14/20	6.65	154.0	104.6	2.85	0.0	13.50
	02/01/21	7.07	105.0	192.0	9.51	0.0	5.63
MW-4	12/20/19	6.73	240.4	96.8	5.67	6.7	10.00
	01/03/20	12.00	72.8	108.6	5.73	5.2	9.70
	01/16/20	6.81	185.0	130.8	6.10	0.3	9.10
	07/21/20	6.17	162.0	152.0	2.00	0.0	17.23
	10/14/20	6.57	179.0	112.7	2.75	0.0	13.90
	02/01/21	6.98	200.0	207.0	10.48	2.0	9.22
MW-5B	12/20/19	7.42	248.8	64.0	8.52	31.2	10.40
	01/03/20	10.72	71.1	92.6	8.55	23.5	10.10
	01/07/00	197.00	117.5	8.4	38.21	11.1	11.10
	07/21/20	7.58	220.0	118.0	7.13	46.5	18.14
	10/14/20	7.89	262.0	72.9	9.82	74.3	12.40
	02/01/21	7.23	247.0	43.0	10.49	0.0	11.53

Notes:

¹Turbidity is not a natural attenuation parameter but was measured in the field to evaluate groundwater stabilization

²MW-1 went dry before sampling on 8/17/18. The water quality parameters reflect measurements taken immediately prior to the water level dropping below the level of the pump.

µS/cm = micro-Siemens per centimeter; mV = millivolts; mg/L = milligrams per liter;

NTU = nephelometric turbidity unit; C = Celsius

Table 3

Summary of Chemical Analytical Results - Petroleum Hydrocarbons, PCBs and PAHs¹ - Groundwater
 Avista - Spokane Service Center
 Spokane, Washington

			Location ID	MW-1A												MW-2											
			Sample ID	MW-1A:122019	MW-1A:010320	MW-1A:011620	MW-1A		MW-1A		MW-1A		MW-1A		MW-2:122019	MW-2:010320	MW-2:011620	MW-2		MW-2		MW-2					
			Sample Date	12/20/2019	1/3/2020	1/16/2020	7/21/2020		10/14/2020		2/1/2021		12/20/2019		1/3/2020		1/16/2020		7/21/2020		10/14/2020		2/1/2021				
Method	Analyte	Cleanup Level ²	Units																								
NWTPH-DX ³	Diesel-range hydrocarbons	0.5	mg/L	0.13 ⁷	J	0.12 ⁷	J	0.114	U	0.092	U	0.22	U	.22	U	0.23	U	0.11 ⁴	U	0.114	U	0.24	U	0.23	U	0.23	U
	Lube Oil-range Hydrocarbons	0.5	mg/L	0.18 ⁷	J	0.12 ⁴	U	0.124	U	0.092	U	0.37	U	.37	U	0.38	U	0.12 ⁴	U	0.124	U	0.40	U	0.38	U	.38	U
PCB-Aroclors ⁵	PCB-Aroclor 1016	0.1	µg/L	0.095	U	0.94	U	0.097	U	0.092	U	0.095	U	0.093	U	0.097	U	0.096	U	0.097	U	0.010	U	0.093	U	0.092	U
	PCB-Aroclor 1221		µg/L	0.095	U	0.94	U	0.097	U	0.092	U	0.095	U	0.093	U	0.097	U	0.096	U	0.097	U	0.010	U	0.093	U	0.092	U
	PCB-Aroclor 1232		µg/L	0.095	U	0.94	U	0.097	U	0.092	U	0.095	U	0.093	U	0.097	U	0.096	U	0.097	U	0.010	U	0.093	U	0.092	U
	PCB-Aroclor 1242		µg/L	0.095	U	0.94	U	0.097	U	0.092	U	0.095	U	0.093	U	0.097	U	0.096	U	0.097	U	0.010	U	0.093	U	0.092	U
	PCB-Aroclor 1248		µg/L	0.095	U	0.94	U	0.097	U	0.092	U	0.095	U	0.093	U	0.097	U	0.096	U	0.097	U	0.010	U	0.093	U	0.092	U
	PCB-Aroclor 1254		µg/L	0.095	U	0.94	U	0.097	U	0.092	U	0.095	U	0.093	U	0.097	U	0.096	U	0.097	U	0.010	U	0.093	U	0.092	U
	PCB-Aroclor 1260		µg/L	0.095	U	0.94	U	0.097	U	0.092	U	0.095	U	0.093	U	0.097	U	0.096	U	0.097	U	0.010	U	0.093	U	0.092	U
	PCB-Aroclor 1262		µg/L	0.095	U	0.94	U	0.097	U	0.092	U	0.095	U	0.093	U	0.097	U	0.096	U	0.097	U	0.010	U	0.093	U	0.092	U
PCB-Aroclor 1268	µg/L	0.095	U	0.94	U	0.097	U	0.092	U	0.095	U	0.093	U	0.097	U	0.096	U	0.097	U	0.010	U	0.093	U	0.092	U		
PAHs ⁶	1-Methylnaphthalene	NE	µg/L	0.084	U	0.090	U	0.085	U	0.083	U	0.088	U	0.083	U	0.088	U	0.087	U	0.088	U	0.083	U	0.087	U	0.083	U
	2-Methylnaphthalene	NE	µg/L	0.084	U	0.090	U	0.085	U	0.083	U	0.088	U	0.083	U	0.088	U	0.087	U	0.088	U	0.083	U	0.087	U	0.083	U
	Acenaphthene	NE	µg/L	0.084	U	0.090	U	0.085	U	0.083	U	0.088	U	0.083	U	0.088	U	0.087	U	0.088	U	0.083	U	0.087	U	0.083	U
	Acenaphthylene	NE	µg/L	0.084	U	0.090	U	0.085	U	0.083	U	0.088	U	0.083	U	0.088	U	0.087	U	0.088	U	0.083	U	0.087	U	0.083	U
	Anthracene	NE	µg/L	0.084	U	0.090	U	0.085	U	0.083	U	0.088	U	0.083	U	0.088	U	0.087	U	0.088	U	0.083	U	0.087	U	0.083	U
	Benzo(a)anthracene	NE	µg/L	0.084	J	0.090	U	0.085	U	0.083	U	0.088	U	0.083	U	0.088	U	0.087	U	0.088	U	0.083	U	0.087	U	0.083	U
	Benzo(a)pyrene	0.1	µg/L	0.084	J	0.090	U	0.085	U	0.083	U	0.088	U	0.083	U	0.088	U	0.087	U	0.088	U	0.083	U	0.087	U	0.083	U
	Benzo(b)fluoranthene	NE	µg/L	0.084	U	0.090	U	0.085	U	0.083	U	0.088	U	0.083	U	0.088	U	0.087	U	0.088	U	0.083	U	0.087	U	0.083	U
	Benzo(g,h,i)perylene	NE	µg/L	0.084	U	0.090	U	0.085	U	0.083	U	0.088	U	0.083	U	0.088	U	0.087	U	0.088	U	0.083	U	0.087	U	0.083	U
	Benzo(k)fluoranthene	NE	µg/L	0.084	U	0.090	U	0.085	U	0.083	U	0.088	U	0.083	U	0.088	U	0.087	U	0.088	U	0.083	U	0.087	U	0.083	U
	Chrysene	NE	µg/L	0.084	J	0.090	U	0.085	U	0.083	U	0.088	U	0.083	U	0.088	U	0.087	U	0.088	U	0.083	U	0.087	U	0.083	U
	Dibenzo(a,h)anthracene	NE	µg/L	0.084	U	0.090	U	0.085	U	0.083	U	0.088	U	0.083	U	0.088	U	0.087	U	0.088	U	0.083	U	0.087	U	0.083	U
	Fluoranthene	NE	µg/L	0.084	J	0.090	U	0.085	U	0.083	U	0.088	U	0.083	U	0.088	U	0.087	U	0.088	U	0.083	U	0.087	U	0.083	U
	Fluorene	NE	µg/L	0.084	U	0.090	U	0.085	U	0.083	U	0.088	U	0.083	U	0.088	U	0.087	U	0.088	U	0.083	U	0.087	U	0.083	U
	Indeno(1,2,3-c,d)pyrene	NE	µg/L	0.084	U	0.090	U	0.085	U	0.083	U	0.088	U	0.083	U	0.088	U	0.087	U	0.088	U	0.083	U	0.087	U	0.083	U
	Naphthalene	160	µg/L	0.084	U	0.090	U	0.085	U	0.083	U	0.088	U	0.083	U	0.088	U	0.087	U	0.088	U	0.083	U	0.087	U	0.083	U
	Phenanthrene	NE	µg/L	0.084	U	0.090	U	0.085	U	0.083	U	0.088	U	0.083	U	0.088	U	0.087	U	0.088	U	0.083	U	0.087	U	0.083	U
	Pyrene	NE	µg/L	0.084	J	0.090	U	0.085	U	0.083	U	0.088	U	0.083	U	0.088	U	0.087	U	0.088	U	0.083	U	0.087	U	0.083	U
Total cPAH TEQ (ND=0.5RL)	0.1	µg/L	0.063	U	0.068	U	0.064175	U	0.062665	U	0.066	U	0.063	U	0.066	U	0.066	U	0.06644	U	0.06267	U	0.066	U	0.063	U	

			Location ID	MW-3										MW-4													
			Sample ID	MW-3:122019	MW-3:010320	MW-3:011620	MW-3		MW-3		MW-3		MW-4:122019	MW-4:010320	MW-4:011620	MW-4		MW-4		MW-4							
			Sample Date	12/20/2019	1/3/2020	1/16/2020	7/21/2020	10/14/2020	2/1/2021	12/20/2019	1/3/2020	1/16/2020	7/21/2020	10/14/2020	2/1/2021												
Method	Analyte	Cleanup Level ²	Units																								
NWTPH-DX ³	Diesel-range hydrocarbons	0.5	mg/L	0.10 ⁴	U	0.11 ⁴	U	0.114	U	0.23	U	0.22	U	.1	U	0.11 ⁴	U	0.10 ⁴	U	0.114	U	0.23	U	0.23	U	.22	U
	Lube Oil-range Hydrocarbons	0.5	mg/L	0.11 ⁴	U	0.12 ⁴	U	0.124	U	0.38	U	0.37	U	.11	U	0.12 ⁴	U	0.11 ⁴	U	0.124	U	0.38	U	0.38	U	.37	U
PCB-Aroclors ⁵	PCB-Aroclor 1016	0.1	µg/L	0.097	U	0.096	U	0.095	U	0.092	U	0.094	U	0.092	U	0.097	U	0.095	U	0.10	U	0.094	U	0.095	U	0.093	U
	PCB-Aroclor 1221		µg/L	0.097	U	0.096	U	0.095	U	0.092	U	0.094	U	0.092	U	0.097	U	0.095	U	0.10	U	0.094	U	0.095	U	0.093	U
	PCB-Aroclor 1232		µg/L	0.097	U	0.096	U	0.095	U	0.092	U	0.094	U	0.092	U	0.097	U	0.095	U	0.10	U	0.094	U	0.095	U	0.093	U
	PCB-Aroclor 1242		µg/L	0.097	U	0.096	U	0.095	U	0.092	U	0.094	U	0.092	U	0.097	U	0.095	U	0.10	U	0.094	U	0.095	U	0.093	U
	PCB-Aroclor 1248		µg/L	0.097	U	0.096	U	0.095	U	0.092	U	0.094	U	0.092	U	0.097	U	0.095	U	0.10	U	0.094	U	0.095	U	0.093	U
	PCB-Aroclor 1254		µg/L	0.097	U	0.096	U	0.095	U	0.092	U	0.094	U	0.092	U	0.097	U	0.095	U	0.10	U	0.094	U	0.095	U	0.093	U
	PCB-Aroclor 1260		µg/L	0.097	U	0.096	U	0.095	U	0.092	U	0.094	U	0.092	U	0.097	U	0.095	U	0.10	U	0.094	U	0.095	U	0.093	U
	PCB-Aroclor 1262		µg/L	0.097	U	0.096	U	0.095	U	0.092	U	0.094	U	0.092	U	0.097	U	0.095	U	0.10	U	0.094	U	0.095	U	0.093	U
PCB-Aroclor 1268	µg/L	0.097	U	0.096	U	0.095	U	0.092	U	0.094	U	0.092	U	0.097	U	0.095	U	0.10	U	0.094	U	0.095	U	0.093	U		
PAHs ⁶	1-Methylnaphthalene	NE	µg/L	0.086	U	0.088	U	0.086	U	0.082	U	0.085	U	0.083	U	0.087	U	0.086	U	0.088	U	0.085	U	0.086	U	0.083	U
	2-Methylnaphthalene	NE	µg/L	0.086	U	0.088	U	0.086	U	0.082	U	0.085	U	0.083	U	0.087	U	0.086	U	0.088	U	0.085	U	0.086	U	0.083	U
	Acenaphthene	NE	µg/L	0.086	U	0.088	U	0.086	U	0.082	U	0.085	U	0.083	U	0.087	U	0.086	U	0.088	U	0.085	U	0.086	U	0.083	U
	Acenaphthylene	NE	µg/L	0.086	U	0.088	U	0.086	U	0.082	U	0.085	U	0.083	U	0.087	U	0.086	U	0.088	U	0.085	U	0.086	U	0.083	U
	Anthracene	NE	µg/L	0.086	U	0.088	U	0.086	U	0.082	U	0.085	U	0.083	U	0.087	U	0.086	U	0.088	U	0.085	U	0.086	U	0.083	U
	Benzo(a)anthracene	NE	µg/L	0.086	U	0.088	U	0.086	U	0.082	U	0.085	U	0.083	U	0.087	U	0.086	U	0.088	U	0.085	U	0.086	U	0.083	U
	Benzo(a)pyrene	0.1	µg/L	0.086	U	0.088	U	0.086	U	0.082	U	0.085	U	0.083	U	0.087	U	0.086	U	0.088	U	0.085	U	0.086	U	0.083	U
	Benzo(b)fluoranthene	NE	µg/L	0.086	U	0.088	U	0.086	U	0.082	U	0.085	U	0.083	U	0.087	U	0.086	U	0.088	U	0.085	U	0.086	U	0.083	U
	Benzo(g,h,i)perylene	NE	µg/L	0.086	U	0.088	U	0.086	U	0.082	U	0.085	U	0.083	U	0.087	U	0.086	U	0.088	U	0.085	U	0.086	U	0.083	U
	Benzo(k)fluoranthene	NE	µg/L	0.086	U	0.088	U	0.086	U	0.082	U	0.085	U	0.083	U	0.087	U	0.086	U	0.088	U	0.085	U	0.086	U	0.083	U
	Chrysene	NE	µg/L	0.086	U	0.088	U	0.086	U	0.082	U	0.085	U	0.083	U	0.087	U	0.086	U	0.088	U	0.085	U	0.086	U	0.083	U
	Dibenzo(a,h)anthracene	NE	µg/L	0.086	U	0.088	U	0.086	U	0.082	U	0.085	U	0.083	U	0.087	U	0.086	U	0.088	U	0.085	U	0.086	U	0.083	U
	Fluoranthene	NE	µg/L	0.086	U	0.088	U	0.086	U	0.082	U	0.085	U	0.083	U	0.087	U	0.086	U	0.088	U	0.085	U	0.086	U	0.083	U
	Fluorene	NE	µg/L	0.086	U	0.088	U	0.086	U	0.082	U	0.085	U	0.083	U	0.087	U	0.086	U	0.088	U	0.085	U	0.086	U	0.083	U
	Indeno(1,2,3-c,d)pyrene	NE	µg/L	0.086	U	0.088	U	0.086	U	0.082	U	0.085	U	0.083	U	0.087	U	0.086	U	0.088	U	0.085	U	0.086	U	0.083	U
	Naphthalene	160	µg/L	0.086	U	0.088	U	0.086	U	0.082	U	0.085	U	0.083	U	0.087	U	0.086	U	0.088	U	0.085	U	0.086	U	0.083	U
	Phenanthrene	NE	µg/L	0.086	U	0.088	U	0.086	U	0.082	U	0.085	U	0.083	U	0.087	U	0.086	U	0.088	U	0.085	U	0.086	U	0.083	U
	Pyrene	NE	µg/L	0.086	U	0.088	U	0.086	U	0.082	U	0.085	U	0.083	U	0.087	U	0.086	U	0.088	U	0.085	U	0.086	U	0.083	U
Total cPAH TEQ (ND=0.5RL)	0.1	µg/L	0.065	U	0.066	U	0.06493	U	0.06191	U	0.064	U	0.063	U	0.066	U	0.065	U	0.06644	U	0.064175	U	0.065	U	0.063	U	

			Location ID	MW-5B											
			Sample ID	MW-5B:122019	MW-5B:010320	MW-5B:011620	MW-5B		MW-5B		MW-5B				
			Sample Date	12/20/2019	1/3/2020	1/16/2020	7/21/2020	10/14/2020	2/1/2021						
Method	Analyte	Cleanup Level ²	Units												
NWTPH-DX ³	Diesel-range hydrocarbons	0.5	mg/L	0.10 ⁴	U	0.10 ⁴	U	0.114	U	0.23	U	0.23	U	.22	U
	Lube Oil-range Hydrocarbons	0.5	mg/L	0.11 ⁴	U	0.11 ⁴	U	0.124	U	0.38	U	0.38	U	.37	U
PCB-Aroclors ⁵	PCB-Aroclor 1016	0.1	µg/L	0.098	U	0.094	U	0.10	U	0.092	U	0.092	U	0.091	U
	PCB-Aroclor 1221		µg/L	0.098	U	0.094	U	0.10	U	0.092	U	0.092	U	0.091	U
	PCB-Aroclor 1232		µg/L	0.098	U	0.094	U	0.10	U	0.092	U	0.092	U	0.091	U
	PCB-Aroclor 1242		µg/L	0.098	U	0.094	U	0.10	U	0.092	U	0.092	U	0.091	U
	PCB-Aroclor 1248		µg/L	0.098	U	0.094	U	0.10	U	0.092	U	0.092	U	0.091	U
	PCB-Aroclor 1254		µg/L	0.098	U	0.094	U	0.10	U	0.092	U	0.092	U	0.091	U
	PCB-Aroclor 1260		µg/L	0.098	U	0.094	U	0.10	U	0.092	U	0.092	U	0.091	U
	PCB-Aroclor 1262		µg/L	0.098	U	0.094	U	0.10	U	0.092	U	0.092	U	0.091	U
	PCB-Aroclor 1268	µg/L	0.098	U	0.094	U	0.10	U	0.092	U	0.092	U	0.091	U	
PAHs ⁶	1-Methylnaphthalene	NE	µg/L	0.084	U	0.084	U	0.089	U	0.083	U	0.083	U	0.083	U
	2-Methylnaphthalene	NE	µg/L	0.084	U	0.084	U	0.089	U	0.083	U	0.083	U	0.083	U
	Acenaphthene	NE	µg/L	0.084	U	0.084	U	0.089	U	0.083	U	0.083	U	0.083	U
	Acenaphthylene	NE	µg/L	0.084	U	0.084	U	0.089	U	0.083	U	0.083	U	0.083	U
	Anthracene	NE	µg/L	0.084	U	0.084	U	0.089	U	0.083	U	0.083	U	0.083	U
	Benzo(a)anthracene	NE	µg/L	0.084	U	0.084	U	0.089	U	0.083	U	0.083	U	0.083	U
	Benzo(a)pyrene	0.1	µg/L	0.084	U	0.084	U	0.089	U	0.083	U	0.083	U	0.083	U
	Benzo(b)fluoranthene	NE	µg/L	0.084	U	0.084	U	0.089	U	0.083	U	0.083	U	0.083	U
	Benzo(g,h,i)perylene	NE	µg/L	0.084	U	0.084	U	0.089	U	0.083	U	0.083	U	0.083	U
	Benzo(k)fluoranthene	NE	µg/L	0.084	U	0.084	U	0.089	U	0.083	U	0.083	U	0.083	U
	Chrysene	NE	µg/L	0.084	U	0.084	U	0.089	U	0.083	U	0.083	U	0.083	U
	Dibenzo(a,h)anthracene	NE	µg/L	0.084	U	0.084	U	0.089	U	0.083	U	0.083	U	0.083	U
	Fluoranthene	NE	µg/L	0.084	U	0.084	U	0.089	U	0.083	U	0.083	U	0.083	U
	Fluorene	NE	µg/L	0.084	U	0.084	U	0.089	U	0.083	U	0.083	U	0.083	U
	Indeno(1,2,3-c,d)pyrene	NE	µg/L	0.084	U	0.084	U	0.089	U	0.083	U	0.083	U	0.083	U
	Naphthalene	160	µg/L	0.084	U	0.084	U	0.089	U	0.083	U	0.083	U	0.083	U
	Phenanthrene	NE	µg/L	0.084	U	0.084	U	0.089	U	0.083	U	0.083	U	0.083	U
Pyrene	NE	µg/L	0.084	U	0.084	U	0.089	U	0.083	U	0.083	U	0.083	U	
	Total cPAH TEQ (ND=0.5RL)	0.1	µg/L	0.063	U	0.063	U	0.067195	U	0.062665	U	0.063	U	0.063	U

Notes:

¹Laboratory testing provided by TestAmerica Laboratories, Inc. in Spokane Valley, Washington.

²Cleanup level refers to Model Toxics Control Act (MTCA) Method A Cleanup Level for Unrestricted Land Use

³Diesel- and Oil-range Petroleum Hydrocarbons (DRPH and ORPH) analyzed using Northwest Method NWTPH-DX.

⁴Result is reported to the method detection limit (MDL).

⁵Polychlorinated biphenyls (PCBs) analyzed using Environmental Protection Agency (EPA) Method 8082A.

⁶Polycyclic aromatic hydrocarbons (PAHs) analyzed using EPA Method 8270D.

⁷Detection is J flagged as estimated result and reported to the MDL.

µg/L = micrograms per Liter; mg/L = milligrams per Liter; U = analyte was not detected at concentrations greater than the laboratory reporting limit; J = estimated result; "-" = not analyzed

Bold = indicates the analyte was detected above the laboratory reporting limit.

Bold Red = indicates the analyte was detected above the respective cleanup level.

APPENDIX A
LABORATORY REPORT

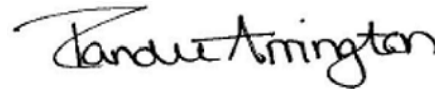
ANALYTICAL REPORT

Eurofins TestAmerica, Spokane
11922 East 1st Ave
Spokane, WA 99206
Tel: (509)924-9200

Laboratory Job ID: 590-14590-1
Client Project/Site: Avista GW Monitoring

For:
Spokane Environmental Solutions LLC
3810 E. Boone Avenue
Suite #101
Spokane, Washington 99202

Attn: Gary Panther



*Authorized for release by:
2/10/2021 3:50:47 PM*

Randee Arrington, Project Manager II
(509)924-9200
Randee.Arrington@Eurofinset.com

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.



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Case Narrative

Client: Spokane Environmental Solutions LLC
Project/Site: Avista GW Monitoring

Job ID: 590-14590-1

Job ID: 590-14590-1

Laboratory: Eurofins TestAmerica, Spokane

Narrative

Receipt

The samples were received on 2/1/2021 2:09 PM; the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 11.3° C.

Receipt Exceptions

The following samples were received at the laboratory outside the required temperature criteria: MW-1A (590-14590-1), MW-2 (590-14590-2), MW-3 (590-14590-3), MW-4 (590-14590-4), MW-5B (590-14590-5) and MW-DUP (590-14590-6). The samples ARE considered acceptable since they were collected and submitted to the laboratory on the same day and there is evidence that the chilling process has begun.

GC/MS Semi VOA

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

GC Semi VOA

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Sample Summary

Client: Spokane Environmental Solutions LLC
Project/Site: Avista GW Monitoring

Job ID: 590-14590-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
590-14590-1	MW-1A	Water	02/01/21 10:00	02/01/21 14:09	
590-14590-2	MW-2	Water	02/01/21 11:40	02/01/21 14:09	
590-14590-3	MW-3	Water	02/01/21 12:45	02/01/21 14:09	
590-14590-4	MW-4	Water	02/01/21 13:30	02/01/21 14:09	
590-14590-5	MW-5B	Water	02/01/21 11:00	02/01/21 14:09	
590-14590-6	MW-DUP	Water	02/01/21 10:00	02/01/21 14:09	

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Definitions/Glossary

Client: Spokane Environmental Solutions LLC
Project/Site: Avista GW Monitoring

Job ID: 590-14590-1

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Client Sample Results

Client: Spokane Environmental Solutions LLC
 Project/Site: Avista GW Monitoring

Job ID: 590-14590-1

Client Sample ID: MW-1A

Lab Sample ID: 590-14590-1

Date Collected: 02/01/21 10:00

Matrix: Water

Date Received: 02/01/21 14:09

Method: 8270E SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		0.083		ug/L		02/03/21 13:24	02/03/21 15:52	1
2-Methylnaphthalene	ND		0.083		ug/L		02/03/21 13:24	02/03/21 15:52	1
1-Methylnaphthalene	ND		0.083		ug/L		02/03/21 13:24	02/03/21 15:52	1
Acenaphthylene	ND		0.083		ug/L		02/03/21 13:24	02/03/21 15:52	1
Acenaphthene	ND		0.083		ug/L		02/03/21 13:24	02/03/21 15:52	1
Fluorene	ND		0.083		ug/L		02/03/21 13:24	02/03/21 15:52	1
Phenanthrene	ND		0.083		ug/L		02/03/21 13:24	02/03/21 15:52	1
Anthracene	ND		0.083		ug/L		02/03/21 13:24	02/03/21 15:52	1
Fluoranthene	ND		0.083		ug/L		02/03/21 13:24	02/03/21 15:52	1
Pyrene	ND		0.083		ug/L		02/03/21 13:24	02/03/21 15:52	1
Benzo[a]anthracene	ND		0.083		ug/L		02/03/21 13:24	02/03/21 15:52	1
Chrysene	ND		0.083		ug/L		02/03/21 13:24	02/03/21 15:52	1
Benzo[b]fluoranthene	ND		0.083		ug/L		02/03/21 13:24	02/03/21 15:52	1
Benzo[k]fluoranthene	ND		0.083		ug/L		02/03/21 13:24	02/03/21 15:52	1
Benzo[a]pyrene	ND		0.083		ug/L		02/03/21 13:24	02/03/21 15:52	1
Indeno[1,2,3-cd]pyrene	ND		0.083		ug/L		02/03/21 13:24	02/03/21 15:52	1
Dibenz(a,h)anthracene	ND		0.083		ug/L		02/03/21 13:24	02/03/21 15:52	1
Benzo[g,h,i]perylene	ND		0.083		ug/L		02/03/21 13:24	02/03/21 15:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	63		29 - 121	02/03/21 13:24	02/03/21 15:52	1
2-Fluorobiphenyl (Surr)	66		36 - 120	02/03/21 13:24	02/03/21 15:52	1
p-Terphenyl-d14	70		51 - 121	02/03/21 13:24	02/03/21 15:52	1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.093		ug/L		02/09/21 11:05	02/09/21 14:30	1
PCB-1221	ND		0.093		ug/L		02/09/21 11:05	02/09/21 14:30	1
PCB-1232	ND		0.093		ug/L		02/09/21 11:05	02/09/21 14:30	1
PCB-1242	ND		0.093		ug/L		02/09/21 11:05	02/09/21 14:30	1
PCB-1248	ND		0.093		ug/L		02/09/21 11:05	02/09/21 14:30	1
PCB-1254	ND		0.093		ug/L		02/09/21 11:05	02/09/21 14:30	1
PCB-1260	ND		0.093		ug/L		02/09/21 11:05	02/09/21 14:30	1
PCB-1268	ND		0.093		ug/L		02/09/21 11:05	02/09/21 14:30	1
PCB-1262	ND		0.093		ug/L		02/09/21 11:05	02/09/21 14:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	52		20 - 120	02/09/21 11:05	02/09/21 14:30	1
DCB Decachlorobiphenyl (Surr)	82		39 - 120	02/09/21 11:05	02/09/21 14:30	1

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO) (C10-C25)	ND		0.22		mg/L		02/09/21 14:58	02/09/21 20:50	1
Residual Range Organics (RRO) (C25-C36)	ND		0.37		mg/L		02/09/21 14:58	02/09/21 20:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	82		50 - 150	02/09/21 14:58	02/09/21 20:50	1
n-Triacontane-d62	83		50 - 150	02/09/21 14:58	02/09/21 20:50	1

Eurofins TestAmerica, Spokane

Client Sample Results

Client: Spokane Environmental Solutions LLC
 Project/Site: Avista GW Monitoring

Job ID: 590-14590-1

Client Sample ID: MW-2

Lab Sample ID: 590-14590-2

Date Collected: 02/01/21 11:40

Matrix: Water

Date Received: 02/01/21 14:09

Method: 8270E SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		0.083		ug/L		02/03/21 13:24	02/03/21 16:16	1
2-Methylnaphthalene	ND		0.083		ug/L		02/03/21 13:24	02/03/21 16:16	1
1-Methylnaphthalene	ND		0.083		ug/L		02/03/21 13:24	02/03/21 16:16	1
Acenaphthylene	ND		0.083		ug/L		02/03/21 13:24	02/03/21 16:16	1
Acenaphthene	ND		0.083		ug/L		02/03/21 13:24	02/03/21 16:16	1
Fluorene	ND		0.083		ug/L		02/03/21 13:24	02/03/21 16:16	1
Phenanthrene	ND		0.083		ug/L		02/03/21 13:24	02/03/21 16:16	1
Anthracene	ND		0.083		ug/L		02/03/21 13:24	02/03/21 16:16	1
Fluoranthene	ND		0.083		ug/L		02/03/21 13:24	02/03/21 16:16	1
Pyrene	ND		0.083		ug/L		02/03/21 13:24	02/03/21 16:16	1
Benzo[a]anthracene	ND		0.083		ug/L		02/03/21 13:24	02/03/21 16:16	1
Chrysene	ND		0.083		ug/L		02/03/21 13:24	02/03/21 16:16	1
Benzo[b]fluoranthene	ND		0.083		ug/L		02/03/21 13:24	02/03/21 16:16	1
Benzo[k]fluoranthene	ND		0.083		ug/L		02/03/21 13:24	02/03/21 16:16	1
Benzo[a]pyrene	ND		0.083		ug/L		02/03/21 13:24	02/03/21 16:16	1
Indeno[1,2,3-cd]pyrene	ND		0.083		ug/L		02/03/21 13:24	02/03/21 16:16	1
Dibenz(a,h)anthracene	ND		0.083		ug/L		02/03/21 13:24	02/03/21 16:16	1
Benzo[g,h,i]perylene	ND		0.083		ug/L		02/03/21 13:24	02/03/21 16:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	75		29 - 121	02/03/21 13:24	02/03/21 16:16	1
2-Fluorobiphenyl (Surr)	73		36 - 120	02/03/21 13:24	02/03/21 16:16	1
p-Terphenyl-d14	71		51 - 121	02/03/21 13:24	02/03/21 16:16	1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.092		ug/L		02/09/21 11:05	02/09/21 14:51	1
PCB-1221	ND		0.092		ug/L		02/09/21 11:05	02/09/21 14:51	1
PCB-1232	ND		0.092		ug/L		02/09/21 11:05	02/09/21 14:51	1
PCB-1242	ND		0.092		ug/L		02/09/21 11:05	02/09/21 14:51	1
PCB-1248	ND		0.092		ug/L		02/09/21 11:05	02/09/21 14:51	1
PCB-1254	ND		0.092		ug/L		02/09/21 11:05	02/09/21 14:51	1
PCB-1260	ND		0.092		ug/L		02/09/21 11:05	02/09/21 14:51	1
PCB-1268	ND		0.092		ug/L		02/09/21 11:05	02/09/21 14:51	1
PCB-1262	ND		0.092		ug/L		02/09/21 11:05	02/09/21 14:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	52		20 - 120	02/09/21 11:05	02/09/21 14:51	1
DCB Decachlorobiphenyl (Surr)	76		39 - 120	02/09/21 11:05	02/09/21 14:51	1

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO) (C10-C25)	ND		0.23		mg/L		02/09/21 14:58	02/09/21 21:10	1
Residual Range Organics (RRO) (C25-C36)	ND		0.38		mg/L		02/09/21 14:58	02/09/21 21:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	83		50 - 150	02/09/21 14:58	02/09/21 21:10	1
n-Triacontane-d62	83		50 - 150	02/09/21 14:58	02/09/21 21:10	1

Eurofins TestAmerica, Spokane

Client Sample Results

Client: Spokane Environmental Solutions LLC
 Project/Site: Avista GW Monitoring

Job ID: 590-14590-1

Client Sample ID: MW-3

Lab Sample ID: 590-14590-3

Date Collected: 02/01/21 12:45

Matrix: Water

Date Received: 02/01/21 14:09

Method: 8270E SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		0.083		ug/L		02/03/21 13:24	02/03/21 16:39	1
2-Methylnaphthalene	ND		0.083		ug/L		02/03/21 13:24	02/03/21 16:39	1
1-Methylnaphthalene	ND		0.083		ug/L		02/03/21 13:24	02/03/21 16:39	1
Acenaphthylene	ND		0.083		ug/L		02/03/21 13:24	02/03/21 16:39	1
Acenaphthene	ND		0.083		ug/L		02/03/21 13:24	02/03/21 16:39	1
Fluorene	ND		0.083		ug/L		02/03/21 13:24	02/03/21 16:39	1
Phenanthrene	ND		0.083		ug/L		02/03/21 13:24	02/03/21 16:39	1
Anthracene	ND		0.083		ug/L		02/03/21 13:24	02/03/21 16:39	1
Fluoranthene	ND		0.083		ug/L		02/03/21 13:24	02/03/21 16:39	1
Pyrene	ND		0.083		ug/L		02/03/21 13:24	02/03/21 16:39	1
Benzo[a]anthracene	ND		0.083		ug/L		02/03/21 13:24	02/03/21 16:39	1
Chrysene	ND		0.083		ug/L		02/03/21 13:24	02/03/21 16:39	1
Benzo[b]fluoranthene	ND		0.083		ug/L		02/03/21 13:24	02/03/21 16:39	1
Benzo[k]fluoranthene	ND		0.083		ug/L		02/03/21 13:24	02/03/21 16:39	1
Benzo[a]pyrene	ND		0.083		ug/L		02/03/21 13:24	02/03/21 16:39	1
Indeno[1,2,3-cd]pyrene	ND		0.083		ug/L		02/03/21 13:24	02/03/21 16:39	1
Dibenz(a,h)anthracene	ND		0.083		ug/L		02/03/21 13:24	02/03/21 16:39	1
Benzo[g,h,i]perylene	ND		0.083		ug/L		02/03/21 13:24	02/03/21 16:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	72		29 - 121	02/03/21 13:24	02/03/21 16:39	1
2-Fluorobiphenyl (Surr)	70		36 - 120	02/03/21 13:24	02/03/21 16:39	1
p-Terphenyl-d14	73		51 - 121	02/03/21 13:24	02/03/21 16:39	1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.092		ug/L		02/09/21 11:05	02/09/21 15:12	1
PCB-1221	ND		0.092		ug/L		02/09/21 11:05	02/09/21 15:12	1
PCB-1232	ND		0.092		ug/L		02/09/21 11:05	02/09/21 15:12	1
PCB-1242	ND		0.092		ug/L		02/09/21 11:05	02/09/21 15:12	1
PCB-1248	ND		0.092		ug/L		02/09/21 11:05	02/09/21 15:12	1
PCB-1254	ND		0.092		ug/L		02/09/21 11:05	02/09/21 15:12	1
PCB-1260	ND		0.092		ug/L		02/09/21 11:05	02/09/21 15:12	1
PCB-1268	ND		0.092		ug/L		02/09/21 11:05	02/09/21 15:12	1
PCB-1262	ND		0.092		ug/L		02/09/21 11:05	02/09/21 15:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	48		20 - 120	02/09/21 11:05	02/09/21 15:12	1
DCB Decachlorobiphenyl (Surr)	76		39 - 120	02/09/21 11:05	02/09/21 15:12	1

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO) (C10-C25)	ND		0.22		mg/L		02/09/21 14:58	02/09/21 21:30	1
Residual Range Organics (RRO) (C25-C36)	ND		0.37		mg/L		02/09/21 14:58	02/09/21 21:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	91		50 - 150	02/09/21 14:58	02/09/21 21:30	1
n-Triacontane-d62	91		50 - 150	02/09/21 14:58	02/09/21 21:30	1

Eurofins TestAmerica, Spokane

Client Sample Results

Client: Spokane Environmental Solutions LLC
 Project/Site: Avista GW Monitoring

Job ID: 590-14590-1

Client Sample ID: MW-4

Lab Sample ID: 590-14590-4

Date Collected: 02/01/21 13:30

Matrix: Water

Date Received: 02/01/21 14:09

Method: 8270E SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		0.083		ug/L		02/03/21 13:24	02/03/21 17:02	1
2-Methylnaphthalene	ND		0.083		ug/L		02/03/21 13:24	02/03/21 17:02	1
1-Methylnaphthalene	ND		0.083		ug/L		02/03/21 13:24	02/03/21 17:02	1
Acenaphthylene	ND		0.083		ug/L		02/03/21 13:24	02/03/21 17:02	1
Acenaphthene	ND		0.083		ug/L		02/03/21 13:24	02/03/21 17:02	1
Fluorene	ND		0.083		ug/L		02/03/21 13:24	02/03/21 17:02	1
Phenanthrene	ND		0.083		ug/L		02/03/21 13:24	02/03/21 17:02	1
Anthracene	ND		0.083		ug/L		02/03/21 13:24	02/03/21 17:02	1
Fluoranthene	ND		0.083		ug/L		02/03/21 13:24	02/03/21 17:02	1
Pyrene	ND		0.083		ug/L		02/03/21 13:24	02/03/21 17:02	1
Benzo[a]anthracene	ND		0.083		ug/L		02/03/21 13:24	02/03/21 17:02	1
Chrysene	ND		0.083		ug/L		02/03/21 13:24	02/03/21 17:02	1
Benzo[b]fluoranthene	ND		0.083		ug/L		02/03/21 13:24	02/03/21 17:02	1
Benzo[k]fluoranthene	ND		0.083		ug/L		02/03/21 13:24	02/03/21 17:02	1
Benzo[a]pyrene	ND		0.083		ug/L		02/03/21 13:24	02/03/21 17:02	1
Indeno[1,2,3-cd]pyrene	ND		0.083		ug/L		02/03/21 13:24	02/03/21 17:02	1
Dibenz(a,h)anthracene	ND		0.083		ug/L		02/03/21 13:24	02/03/21 17:02	1
Benzo[g,h,i]perylene	ND		0.083		ug/L		02/03/21 13:24	02/03/21 17:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	73		29 - 121	02/03/21 13:24	02/03/21 17:02	1
2-Fluorobiphenyl (Surr)	72		36 - 120	02/03/21 13:24	02/03/21 17:02	1
p-Terphenyl-d14	75		51 - 121	02/03/21 13:24	02/03/21 17:02	1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.093		ug/L		02/09/21 11:05	02/09/21 15:33	1
PCB-1221	ND		0.093		ug/L		02/09/21 11:05	02/09/21 15:33	1
PCB-1232	ND		0.093		ug/L		02/09/21 11:05	02/09/21 15:33	1
PCB-1242	ND		0.093		ug/L		02/09/21 11:05	02/09/21 15:33	1
PCB-1248	ND		0.093		ug/L		02/09/21 11:05	02/09/21 15:33	1
PCB-1254	ND		0.093		ug/L		02/09/21 11:05	02/09/21 15:33	1
PCB-1260	ND		0.093		ug/L		02/09/21 11:05	02/09/21 15:33	1
PCB-1268	ND		0.093		ug/L		02/09/21 11:05	02/09/21 15:33	1
PCB-1262	ND		0.093		ug/L		02/09/21 11:05	02/09/21 15:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	51		20 - 120	02/09/21 11:05	02/09/21 15:33	1
DCB Decachlorobiphenyl (Surr)	75		39 - 120	02/09/21 11:05	02/09/21 15:33	1

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO) (C10-C25)	ND		0.22		mg/L		02/09/21 14:58	02/09/21 21:50	1
Residual Range Organics (RRO) (C25-C36)	ND		0.37		mg/L		02/09/21 14:58	02/09/21 21:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	85		50 - 150	02/09/21 14:58	02/09/21 21:50	1
n-Triacontane-d62	82		50 - 150	02/09/21 14:58	02/09/21 21:50	1

Eurofins TestAmerica, Spokane

Client Sample Results

Client: Spokane Environmental Solutions LLC
 Project/Site: Avista GW Monitoring

Job ID: 590-14590-1

Client Sample ID: MW-5B

Lab Sample ID: 590-14590-5

Date Collected: 02/01/21 11:00

Matrix: Water

Date Received: 02/01/21 14:09

Method: 8270E SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		0.083		ug/L		02/03/21 13:24	02/03/21 17:25	1
2-Methylnaphthalene	ND		0.083		ug/L		02/03/21 13:24	02/03/21 17:25	1
1-Methylnaphthalene	ND		0.083		ug/L		02/03/21 13:24	02/03/21 17:25	1
Acenaphthylene	ND		0.083		ug/L		02/03/21 13:24	02/03/21 17:25	1
Acenaphthene	ND		0.083		ug/L		02/03/21 13:24	02/03/21 17:25	1
Fluorene	ND		0.083		ug/L		02/03/21 13:24	02/03/21 17:25	1
Phenanthrene	ND		0.083		ug/L		02/03/21 13:24	02/03/21 17:25	1
Anthracene	ND		0.083		ug/L		02/03/21 13:24	02/03/21 17:25	1
Fluoranthene	ND		0.083		ug/L		02/03/21 13:24	02/03/21 17:25	1
Pyrene	ND		0.083		ug/L		02/03/21 13:24	02/03/21 17:25	1
Benzo[a]anthracene	ND		0.083		ug/L		02/03/21 13:24	02/03/21 17:25	1
Chrysene	ND		0.083		ug/L		02/03/21 13:24	02/03/21 17:25	1
Benzo[b]fluoranthene	ND		0.083		ug/L		02/03/21 13:24	02/03/21 17:25	1
Benzo[k]fluoranthene	ND		0.083		ug/L		02/03/21 13:24	02/03/21 17:25	1
Benzo[a]pyrene	ND		0.083		ug/L		02/03/21 13:24	02/03/21 17:25	1
Indeno[1,2,3-cd]pyrene	ND		0.083		ug/L		02/03/21 13:24	02/03/21 17:25	1
Dibenz(a,h)anthracene	ND		0.083		ug/L		02/03/21 13:24	02/03/21 17:25	1
Benzo[g,h,i]perylene	ND		0.083		ug/L		02/03/21 13:24	02/03/21 17:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	85		29 - 121	02/03/21 13:24	02/03/21 17:25	1
2-Fluorobiphenyl (Surr)	78		36 - 120	02/03/21 13:24	02/03/21 17:25	1
p-Terphenyl-d14	76		51 - 121	02/03/21 13:24	02/03/21 17:25	1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.091		ug/L		02/09/21 11:05	02/09/21 15:54	1
PCB-1221	ND		0.091		ug/L		02/09/21 11:05	02/09/21 15:54	1
PCB-1232	ND		0.091		ug/L		02/09/21 11:05	02/09/21 15:54	1
PCB-1242	ND		0.091		ug/L		02/09/21 11:05	02/09/21 15:54	1
PCB-1248	ND		0.091		ug/L		02/09/21 11:05	02/09/21 15:54	1
PCB-1254	ND		0.091		ug/L		02/09/21 11:05	02/09/21 15:54	1
PCB-1260	ND		0.091		ug/L		02/09/21 11:05	02/09/21 15:54	1
PCB-1268	ND		0.091		ug/L		02/09/21 11:05	02/09/21 15:54	1
PCB-1262	ND		0.091		ug/L		02/09/21 11:05	02/09/21 15:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	49		20 - 120	02/09/21 11:05	02/09/21 15:54	1
DCB Decachlorobiphenyl (Surr)	72		39 - 120	02/09/21 11:05	02/09/21 15:54	1

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO) (C10-C25)	ND		0.22		mg/L		02/09/21 14:58	02/09/21 22:10	1
Residual Range Organics (RRO) (C25-C36)	ND		0.37		mg/L		02/09/21 14:58	02/09/21 22:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	90		50 - 150	02/09/21 14:58	02/09/21 22:10	1
n-Triacontane-d62	87		50 - 150	02/09/21 14:58	02/09/21 22:10	1

Eurofins TestAmerica, Spokane

Client Sample Results

Client: Spokane Environmental Solutions LLC
 Project/Site: Avista GW Monitoring

Job ID: 590-14590-1

Client Sample ID: MW-DUP

Lab Sample ID: 590-14590-6

Date Collected: 02/01/21 10:00

Matrix: Water

Date Received: 02/01/21 14:09

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO) (C10-C25)	ND		0.22		mg/L		02/09/21 14:58	02/09/21 22:30	1
Residual Range Organics (RRO) (C25-C36)	ND		0.37		mg/L		02/09/21 14:58	02/09/21 22:30	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	87		50 - 150				02/09/21 14:58	02/09/21 22:30	1
<i>n</i> -Triacontane-d62	85		50 - 150				02/09/21 14:58	02/09/21 22:30	1



QC Sample Results

Client: Spokane Environmental Solutions LLC
 Project/Site: Avista GW Monitoring

Job ID: 590-14590-1

Method: 8270E SIM - Semivolatile Organic Compounds (GC/MS SIM)

Lab Sample ID: MB 590-30460/1-A
Matrix: Water
Analysis Batch: 30457

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 30460

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Naphthalene	ND		0.090		ug/L		02/03/21 13:24	02/03/21 14:43	1
2-Methylnaphthalene	ND		0.090		ug/L		02/03/21 13:24	02/03/21 14:43	1
1-Methylnaphthalene	ND		0.090		ug/L		02/03/21 13:24	02/03/21 14:43	1
Acenaphthylene	ND		0.090		ug/L		02/03/21 13:24	02/03/21 14:43	1
Acenaphthene	ND		0.090		ug/L		02/03/21 13:24	02/03/21 14:43	1
Fluorene	ND		0.090		ug/L		02/03/21 13:24	02/03/21 14:43	1
Phenanthrene	ND		0.090		ug/L		02/03/21 13:24	02/03/21 14:43	1
Anthracene	ND		0.090		ug/L		02/03/21 13:24	02/03/21 14:43	1
Fluoranthene	ND		0.090		ug/L		02/03/21 13:24	02/03/21 14:43	1
Pyrene	ND		0.090		ug/L		02/03/21 13:24	02/03/21 14:43	1
Benzo[a]anthracene	ND		0.090		ug/L		02/03/21 13:24	02/03/21 14:43	1
Chrysene	ND		0.090		ug/L		02/03/21 13:24	02/03/21 14:43	1
Benzo[b]fluoranthene	ND		0.090		ug/L		02/03/21 13:24	02/03/21 14:43	1
Benzo[k]fluoranthene	ND		0.090		ug/L		02/03/21 13:24	02/03/21 14:43	1
Benzo[a]pyrene	ND		0.090		ug/L		02/03/21 13:24	02/03/21 14:43	1
Indeno[1,2,3-cd]pyrene	ND		0.090		ug/L		02/03/21 13:24	02/03/21 14:43	1
Dibenz(a,h)anthracene	ND		0.090		ug/L		02/03/21 13:24	02/03/21 14:43	1
Benzo[g,h,i]perylene	ND		0.090		ug/L		02/03/21 13:24	02/03/21 14:43	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
Nitrobenzene-d5	71		29 - 121	02/03/21 13:24	02/03/21 14:43	1
2-Fluorobiphenyl (Surr)	63		36 - 120	02/03/21 13:24	02/03/21 14:43	1
p-Terphenyl-d14	90		51 - 121	02/03/21 13:24	02/03/21 14:43	1

Lab Sample ID: LCS 590-30460/2-A
Matrix: Water
Analysis Batch: 30457

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 30460

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Methylnaphthalene	1.60	1.27		ug/L		79	44 - 120
1-Methylnaphthalene	1.60	1.27		ug/L		79	49 - 120
Acenaphthylene	1.60	1.30		ug/L		81	50 - 120
Acenaphthene	1.60	1.26		ug/L		79	54 - 120
Fluorene	1.60	1.39		ug/L		87	53 - 120
Phenanthrene	1.60	1.45		ug/L		91	55 - 120
Anthracene	1.60	1.44		ug/L		90	59 - 120
Fluoranthene	1.60	1.53		ug/L		96	53 - 120
Pyrene	1.60	1.54		ug/L		96	61 - 126
Benzo[a]anthracene	1.60	1.61		ug/L		101	51 - 128
Chrysene	1.60	1.60		ug/L		100	58 - 126
Benzo[b]fluoranthene	1.60	1.55		ug/L		97	51 - 137
Benzo[k]fluoranthene	1.60	1.64		ug/L		102	58 - 120
Benzo[a]pyrene	1.60	1.56		ug/L		98	54 - 120
Indeno[1,2,3-cd]pyrene	1.60	1.47		ug/L		92	46 - 120
Dibenz(a,h)anthracene	1.60	1.49		ug/L		93	51 - 120
Benzo[g,h,i]perylene	1.60	1.53		ug/L		96	55 - 120

QC Sample Results

Client: Spokane Environmental Solutions LLC
 Project/Site: Avista GW Monitoring

Job ID: 590-14590-1

Method: 8270E SIM - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Lab Sample ID: LCS 590-30460/2-A
Matrix: Water
Analysis Batch: 30457

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 30460

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
Nitrobenzene-d5	82		29 - 121
2-Fluorobiphenyl (Surr)	67		36 - 120
p-Terphenyl-d14	86		51 - 121

Lab Sample ID: LCSD 590-30460/3-A
Matrix: Water
Analysis Batch: 30457

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 30460

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec.		RPD	Limit
							Limits	RPD		
Naphthalene	1.60	1.38		ug/L		87	52 - 120	5	21	
2-Methylnaphthalene	1.60	1.31		ug/L		82	44 - 120	3	16	
1-Methylnaphthalene	1.60	1.29		ug/L		81	49 - 120	2	15	
Acenaphthylene	1.60	1.37		ug/L		86	50 - 120	6	15	
Acenaphthene	1.60	1.36		ug/L		85	54 - 120	8	15	
Fluorene	1.60	1.49		ug/L		93	53 - 120	7	15	
Phenanthrene	1.60	1.52		ug/L		95	55 - 120	5	16	
Anthracene	1.60	1.53		ug/L		96	59 - 120	7	15	
Fluoranthene	1.60	1.66		ug/L		104	53 - 120	8	15	
Pyrene	1.60	1.64		ug/L		102	61 - 126	6	15	
Benzo[a]anthracene	1.60	1.74		ug/L		109	51 - 128	8	15	
Chrysene	1.60	1.75		ug/L		109	58 - 126	9	15	
Benzo[b]fluoranthene	1.60	1.66		ug/L		104	51 - 137	7	15	
Benzo[k]fluoranthene	1.60	1.70		ug/L		106	58 - 120	4	15	
Benzo[a]pyrene	1.60	1.67		ug/L		104	54 - 120	7	15	
Indeno[1,2,3-cd]pyrene	1.60	1.57		ug/L		98	46 - 120	7	18	
Dibenz(a,h)anthracene	1.60	1.60		ug/L		100	51 - 120	7	18	
Benzo[g,h,i]perylene	1.60	1.46		ug/L		91	55 - 120	5	17	

Surrogate	LCSD LCSD		Limits
	%Recovery	Qualifier	
Nitrobenzene-d5	87		29 - 121
2-Fluorobiphenyl (Surr)	71		36 - 120
p-Terphenyl-d14	93		51 - 121

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 590-30505/1-A
Matrix: Water
Analysis Batch: 30499

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 30505

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
PCB-1016	ND		0.10		ug/L		02/09/21 11:05	02/09/21 12:03	1
PCB-1221	ND		0.10		ug/L		02/09/21 11:05	02/09/21 12:03	1
PCB-1232	ND		0.10		ug/L		02/09/21 11:05	02/09/21 12:03	1
PCB-1242	ND		0.10		ug/L		02/09/21 11:05	02/09/21 12:03	1
PCB-1248	ND		0.10		ug/L		02/09/21 11:05	02/09/21 12:03	1
PCB-1254	ND		0.10		ug/L		02/09/21 11:05	02/09/21 12:03	1
PCB-1260	ND		0.10		ug/L		02/09/21 11:05	02/09/21 12:03	1
PCB-1268	ND		0.10		ug/L		02/09/21 11:05	02/09/21 12:03	1

Eurofins TestAmerica, Spokane

QC Sample Results

Client: Spokane Environmental Solutions LLC
 Project/Site: Avista GW Monitoring

Job ID: 590-14590-1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: MB 590-30505/1-A
Matrix: Water
Analysis Batch: 30499

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 30505

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1262	ND		0.10		ug/L		02/09/21 11:05	02/09/21 12:03	1
Surrogate	%Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	78		20 - 120				02/09/21 11:05	02/09/21 12:03	1
DCB Decachlorobiphenyl (Surr)	104		39 - 120				02/09/21 11:05	02/09/21 12:03	1

Lab Sample ID: LCS 590-30505/2-A
Matrix: Water
Analysis Batch: 30499

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 30505

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
PCB-1016	1.60	1.18		ug/L		74	44 - 120
PCB-1260	1.60	1.11		ug/L		69	48 - 120
Surrogate	%Recovery	LCS Qualifier	Limits				
Tetrachloro-m-xylene	59		20 - 120				
DCB Decachlorobiphenyl (Surr)	86		39 - 120				

Lab Sample ID: LCSD 590-30505/3-A
Matrix: Water
Analysis Batch: 30499

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 30505

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
PCB-1016	1.60	1.11		ug/L		69	44 - 120	6	17
PCB-1260	1.60	1.08		ug/L		68	48 - 120	2	21
Surrogate	%Recovery	LCSD Qualifier	Limits						
Tetrachloro-m-xylene	49		20 - 120						
DCB Decachlorobiphenyl (Surr)	88		39 - 120						

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Lab Sample ID: MB 590-30513/1-A
Matrix: Water
Analysis Batch: 30508

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 30513

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO) (C10-C25)	ND		0.24		mg/L		02/09/21 14:58	02/09/21 19:51	1
Residual Range Organics (RRO) (C25-C36)	ND		0.40		mg/L		02/09/21 14:58	02/09/21 19:51	1
Surrogate	%Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	89		50 - 150				02/09/21 14:58	02/09/21 19:51	1
n-Triacontane-d62	85		50 - 150				02/09/21 14:58	02/09/21 19:51	1

Eurofins TestAmerica, Spokane

Lab Chronicle

Client: Spokane Environmental Solutions LLC
 Project/Site: Avista GW Monitoring

Job ID: 590-14590-1

Client Sample ID: MW-1A
Date Collected: 02/01/21 10:00
Date Received: 02/01/21 14:09

Lab Sample ID: 590-14590-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			271.3 mL	2 mL	30460	02/03/21 13:24	NMI	TAL SPK
Total/NA	Analysis	8270E SIM		1			30457	02/03/21 15:52	NMI	TAL SPK
Total/NA	Prep	3510C			269.6 mL	2 mL	30505	02/09/21 11:05	NMI	TAL SPK
Total/NA	Analysis	8082A		1			30499	02/09/21 14:30	NMI	TAL SPK
Total/NA	Prep	3510C			273.1 mL	2 mL	30513	02/09/21 14:58	NMI	TAL SPK
Total/NA	Analysis	NWTPH-Dx		1			30508	02/09/21 20:50	NMI	TAL SPK

Client Sample ID: MW-2
Date Collected: 02/01/21 11:40
Date Received: 02/01/21 14:09

Lab Sample ID: 590-14590-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			270.9 mL	2 mL	30460	02/03/21 13:24	NMI	TAL SPK
Total/NA	Analysis	8270E SIM		1			30457	02/03/21 16:16	NMI	TAL SPK
Total/NA	Prep	3510C			271.7 mL	2 mL	30505	02/09/21 11:05	NMI	TAL SPK
Total/NA	Analysis	8082A		1			30499	02/09/21 14:51	NMI	TAL SPK
Total/NA	Prep	3510C			265.7 mL	2 mL	30513	02/09/21 14:58	NMI	TAL SPK
Total/NA	Analysis	NWTPH-Dx		1			30508	02/09/21 21:10	NMI	TAL SPK

Client Sample ID: MW-3
Date Collected: 02/01/21 12:45
Date Received: 02/01/21 14:09

Lab Sample ID: 590-14590-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			271.4 mL	2 mL	30460	02/03/21 13:24	NMI	TAL SPK
Total/NA	Analysis	8270E SIM		1			30457	02/03/21 16:39	NMI	TAL SPK
Total/NA	Prep	3510C			271.8 mL	2 mL	30505	02/09/21 11:05	NMI	TAL SPK
Total/NA	Analysis	8082A		1			30499	02/09/21 15:12	NMI	TAL SPK
Total/NA	Prep	3510C			267.2 mL	2 mL	30513	02/09/21 14:58	NMI	TAL SPK
Total/NA	Analysis	NWTPH-Dx		1			30508	02/09/21 21:30	NMI	TAL SPK

Client Sample ID: MW-4
Date Collected: 02/01/21 13:30
Date Received: 02/01/21 14:09

Lab Sample ID: 590-14590-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			270.8 mL	2 mL	30460	02/03/21 13:24	NMI	TAL SPK
Total/NA	Analysis	8270E SIM		1			30457	02/03/21 17:02	NMI	TAL SPK
Total/NA	Prep	3510C			270.1 mL	2 mL	30505	02/09/21 11:05	NMI	TAL SPK
Total/NA	Analysis	8082A		1			30499	02/09/21 15:33	NMI	TAL SPK
Total/NA	Prep	3510C			271.7 mL	2 mL	30513	02/09/21 14:58	NMI	TAL SPK
Total/NA	Analysis	NWTPH-Dx		1			30508	02/09/21 21:50	NMI	TAL SPK

Lab Chronicle

Client: Spokane Environmental Solutions LLC
 Project/Site: Avista GW Monitoring

Job ID: 590-14590-1

Client Sample ID: MW-5B

Lab Sample ID: 590-14590-5

Date Collected: 02/01/21 11:00

Matrix: Water

Date Received: 02/01/21 14:09

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			272.1 mL	2 mL	30460	02/03/21 13:24	NMI	TAL SPK
Total/NA	Analysis	8270E SIM		1			30457	02/03/21 17:25	NMI	TAL SPK
Total/NA	Prep	3510C			273.6 mL	2 mL	30505	02/09/21 11:05	NMI	TAL SPK
Total/NA	Analysis	8082A		1			30499	02/09/21 15:54	NMI	TAL SPK
Total/NA	Prep	3510C			267.1 mL	2 mL	30513	02/09/21 14:58	NMI	TAL SPK
Total/NA	Analysis	NWTPH-Dx		1			30508	02/09/21 22:10	NMI	TAL SPK

Client Sample ID: MW-DUP

Lab Sample ID: 590-14590-6

Date Collected: 02/01/21 10:00

Matrix: Water

Date Received: 02/01/21 14:09

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			272.5 mL	2 mL	30513	02/09/21 14:58	NMI	TAL SPK
Total/NA	Analysis	NWTPH-Dx		1			30508	02/09/21 22:30	NMI	TAL SPK

Laboratory References:

TAL SPK = Eurofins TestAmerica, Spokane, 11922 East 1st Ave, Spokane, WA 99206, TEL (509)924-9200

Accreditation/Certification Summary

Client: Spokane Environmental Solutions LLC
Project/Site: Avista GW Monitoring

Job ID: 590-14590-1

Laboratory: Eurofins TestAmerica, Spokane

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Washington	State	C569	01-06-22

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8082A	3510C	Water	PCB-1262
8082A	3510C	Water	PCB-1268
NWTPH-Dx	3510C	Water	Residual Range Organics (RRO) (C25-C36)

Method Summary

Client: Spokane Environmental Solutions LLC
Project/Site: Avista GW Monitoring

Job ID: 590-14590-1

Method	Method Description	Protocol	Laboratory
8270E SIM	Semivolatile Organic Compounds (GC/MS SIM)	SW846	TAL SPK
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL SPK
NWTPH-Dx	Northwest - Semi-Volatile Petroleum Products (GC)	NWTPH	TAL SPK
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	TAL SPK

Protocol References:

NWTPH = Northwest Total Petroleum Hydrocarbon

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL SPK = Eurofins TestAmerica, Spokane, 11922 East 1st Ave, Spokane, WA 99206, TEL (509)924-9200



Chain of Custody Record

Spokane, WA 99206
Phone: 509.924.9200 Fax:

Regulatory Program: DW NPDES RCRA Other:

014094

Company Name: Spokane Environmental Solutions		Project Manager: Gary Paulsen		Site Contact:		Date:		COC No.:	
Address: 928 1D E Bannock Ave #161		Tel/Fax: 509-954-5090		Lab Contact:		Carrier:		of COCs	
City/State/Zip: Spokane, WA 99202		Analysis Turnaround Time		Filtered Sample (Y/N)		Perform MS/MSD (Y/N)		Sampler:	
Phone: 509-954-5090		<input type="checkbox"/> CALENDAR DAYS <input type="checkbox"/> WORKING DAYS TAT if different from Below: <u>Standard</u>		<input type="checkbox"/> 2 weeks <input type="checkbox"/> 1 week <input type="checkbox"/> 2 days <input type="checkbox"/> 1 day		B082A-PCB B270E-SM PAH NWPH D&DRO RPO		For Lab Use Only:	
Project Name: <u>Avista Aqu monitoring</u>								Walk-in Client:	
Site: <u>Missoula Campus</u>								Lab Sampling:	
P O #: <u>0200-017</u>								Job / SDG No.:	
Sample Identification		Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Sample Specific Notes:		
MW-1A	2.1.21	10:00	G		water				
MW-2		11:40							
MW-3		12:45							
MW-4		13:30							
MW-5b		11:00							
MW-DUP		24:00							



Preservation Used: 1= Ice, 2= HCl, 3= H2SO4, 4= HNO3, 5= NaOH, 6= Other

Possible Hazard Identification: Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

Special Instructions/QC Requirements & Comments:

Non-Hazard
 Flammable
 Skin Irritant
 Poison B
 Unknown

Return to Client
 Disposal by Lab
 Archive for _____ Months

Relinquished by: Brandon Kertman
 Relinquished by: _____
 Relinquished by: _____

Custody Seal Intact: Yes No
 Custody Seal No.: _____
 Cooler Temp. (°C): Obs'd: 11.1 Cor'd: 11.3 Therm ID No.: 11008

Received by: MAURICE COLE
 Received by: _____
 Received in Laboratory by: _____

Date/Time: 2/1/21 09:09
 Date/Time: _____
 Date/Time: _____

Login Sample Receipt Checklist

Client: Spokane Environmental Solutions LLC

Job Number: 590-14590-1

Login Number: 14590

List Number: 1

Creator: O'Toole, Maria C

List Source: Eurofins TestAmerica, Spokane

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	N/A	Lab does not accept radioactive samples.
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	N/A	Received same day of collection; chilling process has begun.
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	Not present
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	No analysis requiring residual chlorine check assigned.