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May 2, 2024

HETI Project No. 200-150

State of Washington Department of Ecology 1250 W Alder Street Union Gap, WA 98903

Attention: Frosti Smith

Subject: February 2024 Quarterly Groundwater Monitoring Report, RH Smith Distributing Co. Inc., I-90, Exit 136, M.P. 137.5, Vantage, Washington Cleanup Site Identification #15108

Dear Ms. Smith:

On behalf of RH Smith Distributing Co. Inc. (RH Smith), HETI presents this report documenting groundwater monitoring well sampling for the above-referenced property (Site). The wells were installed to evaluate potential impacts to groundwater by a release of gasoline fuel from a RH Smith tanker incident which occurred at the Site on October 9, 2019. HETI conducted these activities on behalf of RH Smith.

If you should have any questions regarding this report, please feel free to contact the undersigned at <u>dsadoff@hetiservices.com</u> or (510) 499-1753.

Sincerely,

HETI SERVICES, INC.

Dave Sac

Dave Sadoff, P.G. (CA), C.P.G. Senior Professional Geologist Western Region



George Holt, P.G., L.H.G.

Distribution: (1) Addressee (via email) (1) Ms. Sue Smith, RH Smith



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EXECUTIVE SUMMARY

RH Smith authorized HETI to assess potential impact to groundwater related to a release of gasoline resulting from an RH Smith gasoline tanker spill, which occurred on October 9, 2019. Investigation of the potential impact is conducted under the regulatory oversight of the State of Washington Department of Ecology (DOE) under DOE's independent remedial action program. Four groundwater monitoring wells, designated MW-1, MW-2, MW-3, and MW-4 were previously installed, and groundwater samples were collected and analyzed in May 2020. Field activities and findings are documented in HETI's *Groundwater Monitoring Well Installation and Sampling Report, RH Smith Distributing Co. Inc., I-90, Exit 136, M.P. 137.5, Vantage, Washington* dated July 21, 2020. Due to the presence of contaminants of concern (gasoline, benzene, toluene, and xylenes) detected in elevated concentrations to the west/northwest, HETI recommended the installation of additional step-out wells in that direction, and an additional groundwater monitoring well in proximity to MW-4, all screened within the first water-bearing encounter.

Step-out wells MW-5 through MW-8 were installed, and groundwater samples collected in September 2020. Elevated levels of contaminants of concern exceeding the State of Washington Model Toxics Cleanup Act (MTCA) were detected in groundwater samples collected from MW-8 (screened in the first water-bearing zone in the source area), and in MW-5, located distal and northwest of previously installed well MW-2. Groundwater exceeding one or more MTCA contaminant level was also found in wells MW-1, MW-2, and MW-4.

MW-7 was screened in the deeper water-bearing zone (similar to previously installed MW-4). Contaminants of concern were not detected in groundwater above the MTCA reporting limits in this well. MW-6 was found to be dry and was not sampled.

The presence of several contaminants of concern (gasoline, benzene, ethylbenzene, and xylenes) exceeding MTCA levels were detected in groundwater collected from MW-5. Since the edge of the groundwater plume had not been defined to the west/northwest and to the south, HETI recommended additional step-out groundwater monitoring wells in those directions. Additional step-out wells MW-9 through MW-13 were installed in March 2021.

This report documents the quarterly groundwater sampling of Site wells MW-4, MW-5 and MW-8 in February 2024. Groundwater samples from the remainder of the Site wells were not collected due to the absence of gasoline or associated compounds for at least the previous four quarterly sampling events. Laboratory analysis of groundwater samples collected from wells MW-4, MW-5 and MW-8 did not detect gasoline exceeding MTCA Method A Cleanup Standards. The groundwater sample collected from MW-4 was found to contain benzene at 6.5 ug/L, slightly above the MTCA Method A Cleanup Standard of 5.0 ug/L. None of the other samples were found to contain gasoline-range organics or petroleum-related volatile organic compounds exceeding MTCA Method A Cleanup Standards. The current extent of the gasoline groundwater plume has been defined to the non-detectable level in the four compass directions distal from the spill area.

i



A groundwater remediation program was initiated in March 2021. RegenOx, a proprietary chemical oxidant, is mixed onsite and injected into a constructed injection gallery in the source area, and into select wells with elevated groundwater contamination. Multiple applications of injectate have occurred, and the remediation program is ongoing. As of July 26, 2023, 23,410 gallons of injectate (the full producer-engineered recommended volume) have been applied to the injection gallery and select wells. Concentrations of contaminants of concern in the source area groundwater have declined by one to two orders of magnitude or more since the groundwater remediation program was initiated in March 2021, indicating that the remedial injection program has been effective.

HETI recommends the continuation of quarterly groundwater sampling of monitoring wells MW-4, MW-5, and MW-8 until four consecutive monitoring events with acceptable regulatory results are achieved. The next quarterly groundwater sampling event should occur in May 2024. After the August 2024 groundwater sampling event, the necessity of additional groundwater monitoring should be evaluated.





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I. INTRODUCTION AND BACKGROUND

On October 9, 2019, a driver for RH Smith experienced a piping leak on the undercarriage of a fuel tanker on I-90 near exit 136, M.P. 137.5 near Vantage, Washington (Figure 1). The driver pulled over to the north shoulder of the westbound lane of I-90 immediately east of the exit for Vantage, Washington. Approximately 2,900 gallons of unleaded gasoline fuel spilled on and adjacent to the highway. Spilled gasoline covered approximately 210 linear feet and a maximum width of approximately 30 feet of the shoulder of I-90 at the spill location.

The Washington State Patrol and the local fire department were the first responders. RH Smith contracted Able Clean-up Technologies, Inc. (ACT) to conduct remedial activities. ACT responded on October 9, 2019 to contain and recover free liquid which remained on the surface of the roadway and shoulder. A small amount of gasoline was recovered utilizing absorbent material.

ACT returned to the Site to excavate contaminated soils on October 17 and 18, 2019. Soil was excavated to a depth of four to five feet below ground surface (bgs), where a hard, fractured, vesicular basalt was encountered and prohibited deeper excavation. A photo-ionization detector (PID) was utilized to guide field activities. The gasoline fuel was noted to have migrated approximately four feet south beneath the freeway shoulder, where a porous road base was observed. The excavation was extended to the south to remove the contaminated material beneath the asphalt-paved shoulder. The final extent of the excavation is depicted on Figure 2. Approximately 260 cubic yards of contaminated soils were excavated and stockpiled at a nearby Washington Department of Transportation (WDOT) yard pending profiling and subsequent disposal. Confirmatory excavation sidewall and bottom soil samples were collected. After receiving Washington Department of Ecology (DOE) approval, the excavation was backfilled with clean imported materials. Excavated materials were disposed at the Waste Management facility in Wenatchee, Washington as non-hazardous waste.

Details of the excavating, soil sampling, and backfilling activities may be found in ACT's *Spill Response Report,* dated October 24, 2019.

To evaluate potential impact to Site groundwater, HETI oversaw the installation of groundwater monitoring wells MW-1 through MW-4 in May 2020. Based upon the results of groundwater sampling, HETI recommended step-out well installations. Groundwater monitoring wells MW-5 through MW-8 were installed and sampled in September 2020. Based upon the results of groundwater sampling of the Site wells in September 2020, additional step-out well installation was recommended by HETI to define the extent of groundwater impact by the contaminants of concern. Groundwater monitoring wells MW-9 through MW-13 were installed in March 2021. Based upon groundwater sampling and analyses in March 2021, the distal impacts of groundwater impact by contaminants of concern have been established in the four compass directions from the spill source area. Well construction details are presented in Table 1.





II.

III. .000SAMPLING ACTIVITIES

A. GROUNDWATER SAMPLING

The quarterly groundwater sampling event occurred on February 21, 2024. The depth to groundwater was measured in groundwater monitoring wells MW-4, MW-5 and MW-8 using an interface probe. Separate phase petroleum liquid or free product was not detected in any of the wells during this monitoring event. Groundwater elevations are summarized in Table 2 and Figure 3.

All groundwater sampling was conducted in accordance with low-flow techniques as detailed by the United States Environmental Protection Agency (EPA) Low Stress (Low Flow) Purging and Sampling Procedure (2010). Pump intake was set at the midway depth between the bottom of the well and static groundwater elevation as measured prior to pumping commencement. Wells were purged at low-flow rates while continuously monitoring for changes in water pH, temperature, electrical conductivity, oxygen reduction potential, salinity, and dissolved oxygen using YSI ProDSS and PID meters. In general, purging at a low rate does not result in groundwater drawdown. Once groundwater parameters stabilized, groundwater samples were obtained from the low-flow pump outlet. Copies of the well sampling field forms are included in Appendix A; a summary of the groundwater quality parameters obtained during purging is presented in Table 3.

Groundwater samples were collected in pre-cleaned containers provided by the laboratory in accordance with EPA protocols. All sampling containers were uniquely labeled and placed in an ice-filled cooler, pending delivery to the testing laboratory under chain of custody documentation. A field duplicate was collected from MW-8 and was designated as MW-8 DUP. All samples were sent to the Eurofins TestAmerica facility in Spokane, Washington. Analytical results of the groundwater sampling program are discussed in Section 5 below.

B. INVESTIGATION DERIVED WASTE HANDLING

Purged groundwater and decontamination water were placed in DOT-approved and labelled 55gallon drums and transported by Able Cleanup Technologies (ACT) to their yard pending final transportation and disposal. The drums were subsequently transported by ACT to the Waste Management Graham Road Landfill in Medical Lake, Washington for treatment/disposal as nonhazardous waste. The Straight Bill of Lading is included in Appendix B.



IV. SUBSURFACE CONDITIONS

A. SOIL AND GEOLOGY

In general, the Site and surrounding area is underlain by a thin layer of poorly sorted dry silt and sand with vegetative matter to approximately 5 feet bgs. Vesicular, fractured basalt was encountered at that depth, and extended to the deepest drilled depth, except in the boring advanced for MW-13. This boring encountered poorly sorted dry silt and sand with vegetative matter to approximately 5 feet bgs, at which depth sand and gravel was encountered to approximately 36 feet bgs, where vesicular fractured basalt was encountered. It is inferred that this boring was installed within the Ryegrass Coulee, therefore resulting in the differing lithology encountered in all of the other drilled borings.

The basalt encountered at the Site is part of the Wanapum Unit of the Columbia River Basalt flows, which occurred between approximately 15.5 and 14.5 million years ago (mya)¹. The Wanapum Unit is underlain by the Vantage Interbed, which is comprised of up to 30 feet of fluvial deposits that represent a weathering zone (unconformity) between the Wanapum Unit and the underlying Grande Ronde Basalts². The Wanapum Interbed is reported to be a regionally important groundwater source. In the Site vicinity, the Vantage Interbed is anticipated to be located approximately 200 to 241 feet bgs based on nearby water well records.

The nearest mapped fault is located approximately 4,500 feet west of the Site. The Site area is geologically mapped as Pleistocene outburst-flood deposits (Qf).

B. GROUNDWATER

Static depth to groundwater ranged between 23.50 and 44.50 feet below top of casing as measured on February 21, 2024. Groundwater elevations ranged between 584.91 and 601.54 feet above mean sea level. Groundwater measurements and elevations are tabulated in Table 2.

Localized first-encountered groundwater flow appears to be controlled by preferential movement through fractures, moving to the west/northwest. First-encountered groundwater appears to be unconfined, with the deeper water-bearing zone appears to be a non-flowing artesian zone. Groundwater elevations vary significantly throughout the well network, an indication of fracture-controlled hydraulic heads. It is not anticipated that significant groundwater flow will occur within the vesicles, due to the limited interconnection relationship between these lithological features.

¹ Carlson, Robert J., Tolan, Terry L., and Reidel, Stephen P., 1987, Geology of the Vantage area, southcentral Washington: an introduction to Miocene flood basalts, Yakima Fold Belt, and the Channeled Scabland, Geological Society of America Centennial Field Guide Cordilleran Section.

² Vaccaro, J.J., Kahle, S.C., Ely, D.M., Burns, E.R., Snyder, D.T., Haynes, J.V., Olsen, T.D., Welch, W.B., and Morgan, D.S., 2015, Groundwater availability of the Columbia Plateau Regional Aquifer System, Washington, Oregon, and Idaho: U.S. Geological Survey Professional Paper 1817, 87 p., <u>http://dx.doi.org/10.3133/pp1817</u>.



V. CHEMICAL TESTING PROGRAM

A total of 4 groundwater samples were submitted to Eurofins TestAmerica, a Washington State-certified laboratory, and analyzed for the following analytical suite:

- Gasoline range organics using Method NWTPH-Gx
- Petroleum-related volatile organic compounds using EPA Method 8260D

Laboratory test results are presented in Appendix C. Results of the laboratory testing program for this investigation are shown in Table 4.

VI. RESULTS OF GROUNDWATER SAMPLING

Three groundwater samples (designated MW-4, MW-5 MW-8 and MW-8), and one field duplicate (designated MW-8 DUP) were submitted for laboratory chemical testing. Groundwater samples from the remainder of the Site wells were not collected due to the absence of gasoline or associated compounds for at least the previous four quarterly sampling events.

Laboratory analysis data reports of groundwater samples MW-1, MW-5 and MW-8 show benzene at concentrations ranging from non-detect to 6.5 μ g/L and total xylenes ranging from non-detect to 4.5 μ g/L. None of the groundwater samples were found to contain detectable concentrations of toluene, ethylbenzene or methyl-tert butyl ether (MTBE). Groundwater sampling analytical data is tabulated in Table 4 and graphically on Figures 4A, 4B and 5. Benzene trends in groundwater samples is graphically presented in Table 5.

Analytical results were compared to the State of Washington DOE Model Toxics Cleanup Act (MTCA) Method A Cleanup Standards. Only groundwater sample MW-4 was found to contain an analyte above the MTCA Standard (benzene at 6.5 μ g/L, slightly exceeding the standard of 5.0 μ g/L). None of the other submitted groundwater samples were found to exceed the respective MTCA Standards for the chosen analytical suite.

A series of cross sections (Figures 6 through 9) show well locations, geological features, shallow and deep groundwater features, and laboratory analytical data for the most recent sampling event. The following key findings were identified from HETI's review of contaminant distribution depicted on the Site cross sections:

- 1. Contaminant migration is generally confined to the release area.
- 2. Lateral groundwater contaminant migration is not indicated in the downgradient direction and down-topographic direction to the east and south based on the historical absence of contaminants of concern shown at downgradient monitoring well MW-3 in Sections B-B' and C-C'.



3. The bulk of remaining contaminant mass appears to be present in a perched, upper unconfined water bearing zone and has not significantly migrated to the deeper water bearing zone, as represented by samples collected from MW-2, MW-5, and MW-8 on Section A-A', and MW-5 and MW-8 on Section C-C' during the course of the groundwater sampling program.

VII. NEARBY PRODUCTION WELLS

HETI has identified two deep, bedrock water supply wells, designated SO1 and SO2, which supply certain end-users in Vantage, a census-designated place with a population of 74 as of the 2010 census. These wells are graphically depicted in relation to the spill location and groundwater monitoring wells MW-1 through MW-13 on Figure 10.

Production Well SO1 is located approximately 1,040 feet northwest of the spill location. This well was installed in 1960 to a total depth of 275 feet bgs. The well log, as provided by the driller, describes an interflow zone from 230 feet to 270 feet bgs.

Production Well SO2 is located approximately 900 feet northeast of the spill location. This well was installed in 1968 to a total depth of 440 feet bgs. The well log, as produced by the driller, states that water was encountered at 200 feet bgs.

It appears that both SO1 and SO2 encountered the Vantage interflow zone at depths of approximately 230 feet and 200 feet bgs, respectively. HETI is also aware of another production well located approximately 1,300 feet south of the spill location, which reportedly encountered the Vantage interflow zone at approximately 241 feet bgs.

Groundwater samples were not collected during this groundwater monitoring event due to the fact that production well groundwater samples were not found to contain the site contaminants of concern above the laboratory reporting limits since the commencement of the production well groundwater sampling program. Laboratory test results are presented in Appendix G.

VIII. REMEDIATION PROGRAM

HETI initiated a remedial program by installing four trenches in the source (spill) area to facilitate application of an injectate. On March 1st, 2021, the four trenches were excavated. Three of the trenches were excavated to approximately dimensions of 75 feet long, 4 feet wide, and 3 feet deep. The fourth trench was excavated to an approximate dimension of 50 feet long, 4 feet wide and 3 feet deep. Figure 2 depicts the site infiltration trench locations.

Subsequent to trench construction, a proprietary remedial product, RegenOx (a chemical oxidation material), was mixed onsite and introduced to the open trenches. Injections were conducted in accordance with an approved Washington Department of Ecology Underground Injection Control (UIC) Program registration. On March 1st, 2021, approximately 3,000 gallons of the liquid were injected. The



material did not noticeably percolate into the subsurface. On March 2nd, 2021, the Site was revisited, and significant drawdown of the liquid was not observed. On March 3rd, very little drawdown was observed; however, another 1,000 gallons of injectate was added to the topographically highest trench. On March 4th, another 500 gallons of injectate was added to the topographically highest trench.

On March 22nd, 2021, perforated piping (6' diameter) was placed within each trench with an approximately 5-feet-high riser to enable placement of the injectate into the bottom of the trench. The lower portion of the trenches were backfilled with imported clean pea gravel; the upper portion of the trenches were backfilled with clean trench excavated materials. On March 23rd, approximately 1,250 gallons of injectate was introduced into the injection gallery.

On April 27th, 2021, 1,250 gallons of injectate were placed into the injection gallery piping, as well as at MW-5. Approximately 920 gallons of injectate were introduced to the injection gallery, and approximately 80 gallons were placed into MW-5 under low pressure.

On May 24th, 2021, approximately 390 gallons of injectate were placed into the injection gallery piping. An additional 300, 60, and 250 gallons of injectate were placed into wells MW-2, MW-5, and MW-8, respectively under low pressure.

On July 13th, 2021, approximately 435 gallons of injectate were placed into the injection gallery and an additional 50, 15, and 1,000 gallons of injectate were placed into wells MW-2, MW-5, and MW-8, respectively.

On August 18th, 2021, approximately 230 gallons of injectate were placed into the injection gallery and an additional 110, 105, 15, and 1,020 gallons of injectate were placed into wells MW-1, MW-2, MW-5, and MW-8, respectively.

On October 5th, 2021, approximately 205 gallons of injectate were placed into the injection gallery and an additional 165, 90, 40, and 1,000 gallons were placed into wells MW-1, MW-2, MW-5, and MW-8, respectively.

On November 11th, 2021, approximately 155 gallons of injectate were placed into the injection gallery and an additional 10, 140, 25, and 1,170 gallons were placed into wells MW-1, MW-2, MW-5, and MW-8, respectively.

On January 4th, 2022, approximately 150 gallons of injectate were placed into the injection gallery, and an additional 10, 100, 50, and 790 gallons were placed into well MW-1, MW-2, MW-5, and MW-8, respectively.

On April 13th, 2022, approximately 140 gallons were placed into the injection gallery, and an additional 5, 90, 15 and 750 gallons was placed into wells MW-1, MW-2, MW-5, and MW-8, respectively.





On May 17th, 2022, approximately 380 gallons of injectate were placed into the injection gallery. An additional 10, 75, 10, 250 gallons were placed into wells MW-1, MW-2, MW-5, and MW-4, respectively.

On June 30th, 2022, approximately 150 gallons of injectate were placed into the injection gallery. An additional 10, 125, 15, and 200 gallons were placed into wells MW-1, MW-2, MW-5, and MW-4, respectively.

On September 9, 2022, approximately 85 gallons of injectate were placed into the injection gallery. An additional 10, 90, 20 and 45 gallons of injectate were placed into wells MW-1, MW-2, MW-5. MW-4, respectively.

On December 29, 2022, approximately 25 gallons of injectate were placed into the injection gallery. An additional15,110, 30, and 50 gallons of injectate were placed into wells MW-1, MW-2, MW-4 and MW-5, respectively.

On March 22, 2023, approximately 85 gallons of injectate were placed into the injection gallery. An additional 10, 100, 35, and 20 gallons of injectate were placed into wells MW-1, MW-2, MW-4 and MW-5, respectively.

On April 26, 2023, approximately 105 gallons of injectate were placed into the injection gallery. An additional 10, 90, 25 and 20 gallons of injectate were placed into wells MW-1, MW-2, MW-4 and MW-5, respectively.

On June 26 and 27, 2023, approximately 345 gallons of injectate were placed into the injection gallery. An additional 15, 90, 30, and 20 gallons of injectate were placed into wells MW-1, MW-2, MW-4, and MW-5, respectively.

On July 25 and 26, 2023, approximately 290 gallons of injectate were placed into the injection gallery. An additional 5, 130, 50, and 25 gallons of injectate were placed into wells MW-1, MW-2, MW-4, and MW-5, respectively.

On August 30 and 31, 2023, approximately 220 gallons of injectate were placed into the injection gallery. An additional 10, 200, 50 and 20 gallons of injectate were placed into wells MW-1, MW-2, MW-4 and MW-5, respectively.

On September 28, 2023, approximately 195 gallons of injectate were placed into the injection gallery. An additional 10, 90, 50, 5 and 150 gallons of injectate were placed into wells MW-1, MW-2, MW-4, MW-5, and MW-8, respectively.

On November 7 and 8, 2023, approximately 265 gallons of injectate were placed into the injection gallery. An additional 10, 65, 35, 15, and 110 gallons of injectate were placed into wells MW-1, MW-2, MW-4, MW-5, and MW-8, respectively.





Approximately 24,910 gallons of remediation injectate have been applied to date. Results of the remediation program to date show significant reductions in contaminants at the spill location, ranging up to greater than 99% at Site sampling locations. A trend chart displaying benzene concentration versus time is included as Table 5.

As of the November 2023 injection event, all of the producer (Regenesis) recommended injectate, as engineered for the subject spill area, have been applied to the spill area. No further injection events are currently scheduled. Results of the remedial program will continue to be monitored and reported in subsequent groundwater monitoring event reports.

IX. CONCLUSIONS

Three groundwater monitoring well samples and one field duplicate were submitted for chemical testing. One of the of the three submitted groundwater samples was found to contain a compound above a regulatory threshold (MW-4, benzene at 6.5 ag/L). Significant (greater than 99%) reduction in contaminants in source area wells have been observed since commencement of the remedial injection program.

Available groundwater elevation and contaminant distribution data suggest that the gasoline release impacts are generally limited to shallow groundwater in the vicinity of the release area. Laboratory analysis of water samples collected during the multi-year groundwater monitoring program have shown a steady decrease in contamination. In fact, only one groundwater sample collected during the most recent sampling event showed an analyte slightly above the MTCA Level A Standard.

X. RECOMMENDATIONS

The lack of reportable concentrations of contaminants of concern in groundwater samples collected over the course of at least four consecutive quarterly sampling events has been observed in wells MW-1, MW-2, MW-3, MW-6, MW-7, and MW-9 through MW-13. Therefore, HETI recommends the proper decommissioning of those wells.

HETI recommends continuation of the groundwater monitoring program to continue monitoring impact trends at the locations of groundwater wells MW-4, MW-5 and MW-8 until acceptable regulatory thresholds are met. The next quarterly sampling event would be scheduled for May 2024.

The remedial program injections have been successfully implemented. HETI recommends the decommissioning of the injection gallery structure.





TABLES



			Well	Table 1 Construction D	etails							
Well ID Number	Installation Date	Latitude	Longitude	TOC Elevation (Feet AMSL)	Nominal BH Diameter (Inches)	BH TD (Feet BGS)	Casing Diameter (Inches)	Screen Interval (Feet BGS)	Initial GW Encounter (Feet BGS)			
MW-1	5/18/2020	N46°56'25.4382"	W119°59"20.4335"	628.19	6	47	2	36 to 46	33			
MW-2	5/18/2020	N46°56'25.6316"	W119°59'19.2161"	624.60	6	38	2	28 to 38	29			
MW-3	5/19/2020	N46°56'25.1062"	W119°59'15.9737"	614.40	6	35	2	15 to 35	28			
MW-4	5/19/2020	N46°56'25.2846"	W119°59'19.1755"	624.99	6	75	2	65 to 75	72			
MW-5	9/8/2020	N46°56'26.2165"	W119°59'19.9003"	630.11	6	55	2	40 to 55	49			
MW-6	9/8/2020	N46°56'26.6960"	W119°59'19.6590"	631.83	6	37	2	27 to 37	N/A			
MW-7	9/9/2020	N46°56'26.3932"	W119°59'16.6813"	627.54	6	75	2	65 to 75	73			
MW-8	9/9/2020	N46°56'25.4167"	W119°59'19.2043"	625.04	6	50	2	20 to 50	N/A			
MW-9	3/22/2021	N46°56'29.3712"	W119°59'24.1904"	651.61	6	52	2	32 to 52	47			
MW-10	3/22/2021	N46°56'28.1033"	W119°59'24.6604"	647.69	6	52	2	32 to 52	47			
MW-11	3/22/2021	N46°56'25.9501"	W119°59'24.0949"	641.27	6	53	2	33 to 53	47			
MW-12	3/23/2021	N46°56'26.8384"	W119°59'22.9156"	642.39	6	69	2	59 to 69	58			
MW-13	3/23-24/2021	N46°56'23.0113"	W119°59'19.5787"	614.10	6	45	2	25 to 45	37			
lotes: OC: Top of casing MSL: Above mean H: Borehole OC: Top of casing D: Total depth	sea level (NAVD 88)											
GS: Below ground												
TOC: Below top of	casing											

GW: Groundwater N/A: Not applicable



FIGURES

















Date: 10/2021 | Project: 200-150 | Drawn: GM



Date: 12/2023 | Project: 200-150 | Drawn: GM, LL



Date: 10/2022 | Project: 200-150 | Drawn: GM, LL



Date: 10/2022 | Project: 200-150 | Drawn: GM,LL



Date:06/2021 | Project: 200-150 | Drawn: GM

APPENDIX A WELL SAMPLING FIELD FORMS



	Die Clean-up Technolo N. Myrtle St., Spokane, WA 99217/P.O. B Telephone: 509-466-5255 Fax: 50	ox 6185 Spokane, WA 99217 9-487-9810		Job #_74045	, ,
Project Name: RH Site Address: MP Field Personnel: S Equipment Used:	Smith Dist. 137.5 I-90 WB	d Water Sampling M	1	Form Head Space (ppm):O.C Sample Collection Time (24 hr	
Well ID:	MW-4	Well Depth (ft):	75	Well Diameter (in):	2"
Surface Water Lo	evel (ft): 39.16	Purge Rate (L/min):	0.2	Total Volume Removed (L): <u>6.5</u>
Min.Time $(24hr)$ 0 $9:2:3$ 3 $9:2:6$ 6 $9:2:6$ 9 $9:3:3$ 12 $9:3:3$ 15 $9:3:2$ 15 $9:3:2$ 18 $9:4$ 21 $9:4$ 24 $9:4$ 27 $9:5$ 30 $0:5$		ume (red (L) $pH +/-$ 0.1 Temperature $+/-3\%$ 5 $ V, U $ 15.8 6 $ V, G $ 15.8 7 $ V, G $ 15.8 10.75 15.9 10.75 15.9 10.77 15.8 10.74 15.8 10.74 15.8 5.9 $ V, G $ 15.8 6.5 $ V, T $ 15.8	e (C) Conductivity (µS/cm) +/-3% 7681 7689 767658 7573 7442 7377 7230 7066 6930 6827	$\begin{array}{c c} & & & & & & \\ \hline Salinity (ppt) & & & & \\ \hline Oxygen (mg/L) \\ +/-10\% ar \\ <5x3 \\ \hline 4.27 & 37.12 \\ \hline 4.28 & 37.78 \\ \hline 4.27 & 37.60 \\ \hline 4.25 & 38.75 \\ \hline 4.20 & 39.82 \\ \hline 4.13 & 39.74 \\ \hline 4.09 & 40.55 \\ \hline 4.00 & 41.36 \\ \hline 3.91 & 42.13 \\ \hline 3.82 & 42.63 \\ \hline 3.76 & 43.00 \\ \hline \end{array}$	$\begin{array}{c c} 0 \mbox{RP} & Turbidi \\ (mV) +/-10 & (NTU) + 10% au \\ -3.6 & 18.74 \\ -3.6 & 18.74 \\ -3.6 & 18.74 \\ -3.6 & 18.74 \\ -3.6 & 13.74 \\ -4.5 & 13.14 \\ -4.5 & 13.14 \\ -7.$
Comments:					
FP Signatures:					
		Page of	2		

Environmental S	5308 N. M	Clean-up Te yrtle St., Spokane, WA 9 Telephone: 509-466-5		okane, WA 99217	-		Job	# 24 043	Date 3	121
Project Na	me RH Sm	ith Dist. Co.	round Wa	nter Sam	pling Mea	surements l	Form lead Space (p)	m): 5.0		
Site Addre Field Pers	ess: MP 137 onnel: Stefa		erface Probe					ion Time (24 hi	1: 15:30	3
Well ID:		MW	- 5	Well Depth	(ft):	55FF	Well Diam	eter (in):	2	h
Surface V	Vater Level	(ft): <u>44</u>	5	Purge Rate		0.2	Total Volu	me Removed ((L): <u>5</u>	0
Min.	Time (24hr)	SWL (Ř)	Volume Removed (L)	рН +/- 0.1	Temperature (C) +/- 3%	Conductivity (µS/em) +/-3%	Salinity (ppt)	Dissolved Oxygen (mg/L.) +/-10% or <.5x3	ORP (mV) +/-10	Tui (N1 10
0	1514	44.5	0.5	10.38	15.7	27369	16.88	11.85	-66.9	23
6	15:11	44.75	1.1	10.41	16.0	27422	16.09	1,72	-68.0	24
9	13 23	45 12	2.3	10.66	16.1	07601	19 86	13.89	-570	24
12	15 26	45 22	29	10.56	16.1	28111	17.40	16.15	-48.5	23
15	15.29	4534	3.2	10.68	16.1	29239	18.12	16.03	-38.7	12.
18	13:31	45 45	3.8	10.83	16.(30007	18.69	23.97	-307	7
21	15:35	45 57	4.4	10.90	16.	30876	19.22	26.52	-26.3	6,3
24	13:39	4569	5.0	10,78	16.1	31550	19.12	87.61	-24.4	01.0
27										
30					a a contrad	huglour in		IC LOCI L	resta	
Comments:	ZU Min	while re-	setting up	but h	Jakr Was	Nater in disturbed	well we	sampling		-
FP Signatur		while ic	00000000000000	1 001 1			1.00	C)	-

Environmensal	5308 N. M	Clean-up Te vrtle St., Spokane, WA 99 Telephone: 509-466-5;		okane, WA 99217	DUP	icate	Job ‡	24045	Date Z	21/29
Site Addr Field Pers	ame: RH Sm ess: MP 137 sonnel: Stefa nt Used: YSI	ith Dist. Co. .5 I-90 WB		ater Sam	pling Meas		ead Space (pp	om): <u>0.0</u>		
Well ID:		MN	- 8	Well Depth (ft):	50	Well Diam	eter (in):	2	
Surface	Water Level	(ft): <u>23</u>		Purge Rate (0.2	Total Volu	me Removed ()	L): 5	6
Min.	Time (24hr)	SWL (ft)	Volume Removed (L)	pH +/- 0,1	Temperature (C) +/- 3%	Conductivity (µS/cm) +/-3%	Salinity (ppt)	Dissolved Oxygen (mg/L) +/-10% or <5x3	ORP (mV) +/-10	Turbidity (NTI) +/- 10% or <5x3
0	11:06	23:48	0.5	11.77	15.8	39897	25,48	33.65	-13.0	18 63
3	11.09	23,51	1,1	11.12	15:8	39201	24.49	39.78	-17.5	10 01
9	11:16	23 51	3 3	11.87	12.9	20017	24.6	34 07	-159	8.56
12	1:18	23:52	2 9	11.73	16 0	37666	23.93	33.41	-16.1	1250
15	11:21	23 52	3:2	11.71	16 1	37408	23.75	3302	-15.9	8.95
18	11:24	23 52	3.8	11.64	16.2	36871	23.39	38.59	-15.7	6.43
21	11:27	23.52	84.4	11.69	16.0	36345	23.00	32,41	< 15.1	4.32
24	11:30	23.52	9.0	11.64	16.0	3.5220	22.96	32.01	-15.8	3,56
27	4:33	23,52	7.6	1.62	* 0 . /	34679	44.01	31,61	-16-0	9175
Comments	5:									
FP Signatu	ires:									

APPENDIX B INVESTIGATION DERIVED WASTE STRAIGHT VILL OF LADING AND DISPOSAL FACILITY TICKETS



the Property dea	IU MIN	1136.5	Vantage	writing between the carrier and ship <u>Children</u> 2/2/ contents of packages uniscount, mar- contents of packages uniscount, mar- contents of packages uniscount, mar-	124 1	rom RH S	mith	
	ontained, including the			contents of packages unknown), mar carry to delivery at said destination. If y time interested in all or any of said if by the shipper and accepted for himse		to deliver to another carrier on the local performed hereunder shi	id company (the w route to asid dea dl tre subject to all	ord company being understood throughout this contract tenation. It is mutually agreed as to each carrier of all or this conditions not prohibited by taw, whether printed or
ACT	Shop	Graho		andfill				
Spoke			State	Spokane	99217	Address 5	308 N	Myrtle
louite I-90	1 Pre	19						l
elivering arrier	NWes	tco				Vehicle Number	LTI	02
lumber of Packages			Description of Ar	rticles		Weight (sub. to correction)	Class or Rate	Subject to Section 7 of conditions, if this shipment is to be delivered to the consignce without recourse on the consignor, the consignor
1	IDN	Purge	Water 5	is-gal st	cel.	200	P	 shall aign the following statement. The carrier shall not make delivery of this shipment without payment of freight and all other lewful charges.
		1		0				(Signature of Consignor)
			2 - 48 geb					FREIGHT CHARGES: Prepaid
			1000					Collect
								COD AMT:
				- 24 MIL				\$
Collect Or	Delivery a	and remit to			COD FE		Prepaid Collect	S
DTE: When	e the rate is	dependent on	value, shippers are	required to state spe	+			lue of the property. The agreed or
				the shipper to be not ment may be applica		S.C. 14706(c)(1)(A)		er
	und an a	101 101	- RH Smit	-h	Carrier:N	Nestco		

(

Graham Road 1820 Ticket# 717969 MediaastiadayadWagen09022 Ph: (509)244-0151 Customer Name NWESTCO NWESTCO LLC Carrier ABLECLEANUP ABLE CLEANUP TECHNOLOGIE Ticket Date 03/22/2024 Payment Type Credit Account Vehicle# favio Container Job # 24045 - RH Smith -Manual Ticket# Driver Route Check# Billing# 0002032 Approved: _____. Hauling Ticket# Paid [] Destination Grid Check#_ Manifest 116999wa Profile 116999WA (IDW) Generator 133-NWESTCO 5308 NWESTCO 5308 N MYRTLE ST SPOKANE WA 99217 PO# 24045 Time 12340 lb Scale Operator Inbound Gross ZRICHARD In 03/22/2024 09:12:32 Scale1 Tare 12120 lb

ZRICHARD

Original

Comments

Gra

Facility

Out 03/22/2024 09:21:40 Scale1

Pro	duct	LD%	Qty	UOM	Rate	Tax/Fee	Amount Origin
1 2 3 4	Cont Soil Pet-RGC-Tons- ENERGY-Energy Surcharge WWM-P-Waste Water Manag SRHD1-Spokane Regional	e 100 100	0.11	00 00			SPOKANE SPOKANE SPOKANE SPOKANE

Total Tax/Fees Total Ticket

Net

Tons

Driver`s Signature

The total amount includes fees and taxes that may not all be listed on this ticket due to technic limitation.



220 lb

0.11

M

APPENDIX C LABORATORY ANALYTICAL REPORTS





Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Kipp E Silver Able Clean-Up Technologies, Inc 5308 N Myrtle St. PO BOX 6185 Spokane, Washington 99217 Generated 2/29/2024 11:28:55 AM

JOB DESCRIPTION

RH Smith

JOB NUMBER

590-23369-1

Eurofins Spokane 11922 East 1st Ave Spokane WA 99206





Eurofins Spokane

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Northwest, LLC Project Manager.

Authorization

Generated 2/29/2024 11:28:55 AM

5 6 7

Authorized for release by Madison Vaughan, Analyst I <u>Madison.Vaughan@et.eurofinsus.com</u> Designee for Randee Arrington, Business Unit Manager <u>Randee.Arrington@et.eurofinsus.com</u> (509)924-9200
Table of Contents

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Table of Contents	3
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Client Sample Results	7
QC Sample Results	10
Chronicle	13
Certification Summary	14
Method Summary	15
Chain of Custody	16
Receipt Checklists	17

Job ID: 590-23369-1

Eurofins Spokane

Job Narrative 590-23369-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to
 demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the
 method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The samples were received on 2/22/2024 1:00 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 3.5°C.

GC/MS VOA

Method 8260D: The continuing calibration verification (CCV) associated with batch 590-46017 recovered outside acceptance criteria, low biased, for Methyl tert-butyl ether. A reporting limit (RL) standard was analyzed, and the target analytes are detected. Since the associated samples were non-detect for the analyte(s), the data are reported.

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

GC Semi VOA

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

HPLC/IC

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

Sample Summary

Client: Able Clean-Up Technologies, Inc Project/Site: RH Smith

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
590-23369-1	MW-4	Water	02/21/24 09:53	02/22/24 13:00
590-23369-2	MW-5	Water	02/21/24 11:33	02/22/24 13:00
590-23369-3	MW-8	Water	02/21/24 15:38	02/22/24 13:00
590-23369-4	MW-8-DUP	Water	02/21/24 15:38	02/22/24 13:00

Definitions/Glossary

Client: Able Clean-Up Technologies, Inc Project/Site: RH Smith

Glossary

0-23369-1	
20000 1	
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Ciccoury	
Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	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 ID: MW-4

o-Xylene

Toluene

Xylenes, Total

Toluene-d8 (Surr)

1,2-Dichloroethane-d4 (Surr)

4-Bromofluorobenzene (Surr)

Dibromofluoromethane (Surr)

Surrogate

5

6

Lab Sample ID: 590-23369-1 Matrix: Water

Date Collected: 02/21/24 09:53 Date Received: 02/22/24 13:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane	ND		1.0		ug/L			02/27/24 16:31	1
Benzene	6.5		0.40		ug/L			02/27/24 16:31	1
Ethylbenzene	ND		1.0		ug/L			02/27/24 16:31	1
m-Xylene & p-Xylene	ND		2.0		ug/L			02/27/24 16:31	1
Methyl tert-butyl ether	ND		1.0		ug/L			02/27/24 16:31	1
o-Xylene	2.8		1.0		ug/L			02/27/24 16:31	1
Toluene	ND		1.0		ug/L			02/27/24 16:31	• • • • • • •
Xylenes, Total	4.5		3.0		ug/L			02/27/24 16:31	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
1,2-Dichloroethane-d4 (Surr)	100		80 - 120					02/27/24 16:31	
4-Bromofluorobenzene (Surr)	105		76 - 120					02/27/24 16:31	·
Dibromofluoromethane (Surr)	111		80 - 123					02/27/24 16:31	1
Toluene-d8 (Surr)	95		80 - 120					02/27/24 16:31	1
Method: NWTPH-Gx - Nort	hwest - Volatile	e Petroleu	m Products (C	GC/MS)					
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Gasoline	ND		150		ug/L			02/27/24 16:31	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
			68.7 - 141					02/27/24 16:31	
4-Bromofluorobenzene (Surr)	105		00.7 - 141					02/21/24 10:01	
Method: SW846 8011 - EDE	B, DBCP, and 1		GC)	МП	Unit	Р	Proparod		
Method: SW846 8011 - EDE Analyte	B, DBCP, and 1	,2,3-TCP (Qualifier	GC)	MDL	Unit ug/L	<u>D</u>	Prepared 02/27/24 09:41	Analyzed	Dil Fac
Method: SW846 8011 - EDE Analyte Ethylene Dibromide Method: EPA 300.0 - Anion	3, DBCP, and 1 Result ND	Qualifier tography	GC) <u>RL</u> 0.010		ug/L		02/27/24 09:41	Analyzed 02/27/24 23:48	Dil Fac
Method: SW846 8011 - EDE Analyte Ethylene Dibromide Method: EPA 300.0 - Anion Analyte	B, DBCP, and 1 Result ND Res, Ion Chroma Result	Qualifier	GC) <u>RL</u> 0.010 <u>RL</u>		ug/L Unit	D	·	Analyzed 02/27/24 23:48 Analyzed	Dil Fac
Method: SW846 8011 - EDE Analyte Ethylene Dibromide Method: EPA 300.0 - Anion Analyte	3, DBCP, and 1 Result ND	Qualifier tography	GC) <u>RL</u> 0.010		ug/L		02/27/24 09:41	Analyzed 02/27/24 23:48	Dil Fa
Method: SW846 8011 - EDE Analyte Ethylene Dibromide Method: EPA 300.0 - Anion Analyte Sulfate Iient Sample ID: MW-5	B, DBCP, and 1 Result ND as, Ion Chroma Result 160	Qualifier tography	GC) <u>RL</u> 0.010 <u>RL</u>		ug/L Unit	D	02/27/24 09:41 Prepared	Analyzed 02/27/24 23:48 Analyzed 02/23/24 12:33 ID: 590-23	Dil Fa Dil Fa 50 369-2
Method: SW846 8011 - EDE Analyte Ethylene Dibromide Method: EPA 300.0 - Anion Analyte Sulfate lient Sample ID: MW-5 ate Collected: 02/21/24 11:	B, DBCP, and 1 Result ND as, Ion Chroma Result 160 33	Qualifier tography	GC) <u>RL</u> 0.010 <u>RL</u>		ug/L Unit	D	02/27/24 09:41 Prepared	Analyzed 02/27/24 23:48 Analyzed 02/23/24 12:33	Dil Fa Dil Fa 5 369-2
Method: SW846 8011 - EDE Analyte Ethylene Dibromide Method: EPA 300.0 - Anion Analyte Sulfate lient Sample ID: MW-5 ate Collected: 02/21/24 11: ate Received: 02/22/24 13:	3, DBCP, and 1 Result ND as, Ion Chroma Result 160 5 33 00	Qualifier tography Qualifier	GC) <u>RL</u> <u>RL</u> <u>25</u>		ug/L Unit	D	02/27/24 09:41 Prepared	Analyzed 02/27/24 23:48 Analyzed 02/23/24 12:33 ID: 590-23	Dil Fa Dil Fa 5 369-2
Method: SW846 8011 - EDE Analyte Ethylene Dibromide Method: EPA 300.0 - Anion Analyte Sulfate lient Sample ID: MW-5 ate Collected: 02/21/24 11: ate Received: 02/22/24 13: Method: SW846 8260D - Vo	3, DBCP, and 1 Result ND as, Ion Chroma Result 160 5 33 00 Diatile Organic	Qualifier tography Qualifier	GC) <u>RL</u> <u>RL</u> <u>25</u>	MDL	ug/L Unit	D	02/27/24 09:41 Prepared	Analyzed 02/27/24 23:48 Analyzed 02/23/24 12:33 ID: 590-23	Dil Fa Dil Fa 50 369-2 : Wate
Method: SW846 8011 - EDE Analyte Ethylene Dibromide Method: EPA 300.0 - Anion Analyte Sulfate lient Sample ID: MW-5 ate Collected: 02/21/24 11: ate Received: 02/22/24 13: Method: SW846 8260D - Vo Analyte	3, DBCP, and 1 Result ND as, Ion Chroma Result 160 5 33 00 Diatile Organic	Qualifier tography Qualifier Compoun	GC) <u>RL</u> 0.010 <u>RL</u> 25 ds by GC/MS	MDL	Unit mg/L	D	02/27/24 09:41 Prepared .ab Sample	Analyzed 02/27/24 23:48 Analyzed 02/23/24 12:33 DI: 590-23 Matrix	Dil Fac Dil Fac 50 369-2
Method: SW846 8011 - EDE Analyte Ethylene Dibromide Method: EPA 300.0 - Anion Analyte Bulfate lient Sample ID: MW-5 ate Collected: 02/21/24 11: ate Received: 02/22/24 13: Method: SW846 8260D - Vo Analyte 1,2-Dichloroethane	3, DBCP, and 1 Result ND as, Ion Chroma Result 160 5 33 00 Diatile Organic Result	Qualifier tography Qualifier Compoun	GC) <u>RL</u> 0.010 <u>RL</u> 25 ds by GC/MS <u>RL</u>	MDL	Unit mg/L	D	02/27/24 09:41 Prepared .ab Sample	Analyzed 02/27/24 23:48 Analyzed 02/23/24 12:33 DI: 590-23 Matrix Analyzed	Dil Fa Dil Fa 369-2 Wate
Method: SW846 8011 - EDE Analyte Ethylene Dibromide Method: EPA 300.0 - Anion Analyte Sulfate lient Sample ID: MW-5 ate Collected: 02/21/24 11: ate Received: 02/22/24 13: Method: SW846 8260D - Vo Analyte I,2-Dichloroethane Benzene	3, DBCP, and 1 Result ND as, Ion Chroma Result 160 5 33 00 blatile Organic Result ND	Qualifier tography Qualifier Compoun	GC) <u>RL</u> 0.010 <u>RL</u> 25 ds by GC/MS <u>RL</u> 1.0	MDL	Unit mg/L Unit ug/L ug/L ug/L	D	02/27/24 09:41 Prepared .ab Sample	Analyzed 02/27/24 23:48 Analyzed 02/23/24 12:33 DI: 590-23 Matrix Analyzed 02/27/24 16:52	Dil Fa Dil Fa 3369-2 Wate Dil Fa
Method: SW846 8011 - EDE Analyte Ethylene Dibromide Method: EPA 300.0 - Anion Analyte Sulfate Ilient Sample ID: MW-5 ate Collected: 02/21/24 11: ate Received: 02/22/24 13: Method: SW846 8260D - Vo Analyte 1,2-Dichloroethane Benzene Ethylbenzene	3, DBCP, and 1 Result ND as, Ion Chroma Result 160 5 33 00 Diatile Organic Result ND ND ND	Qualifier tography Qualifier Compoun	GC) <u>RL</u> 0.010 <u>RL</u> 25 ds by GC/MS <u>RL</u> 1.0 0.40	MDL	Unit mg/L Unit ug/L ug/L ug/L ug/L	D	02/27/24 09:41 Prepared .ab Sample	Analyzed 02/27/24 23:48 Analyzed 02/23/24 12:33 ID: 590-23 Matrix Analyzed 02/27/24 16:52 02/27/24 16:52	Dil Fa Dil Fa 5 3369-2 : Wate Dil Fa
4-Bromofluorobenzene (Surr) Method: SW846 8011 - EDE Analyte Ethylene Dibromide Method: EPA 300.0 - Anion Analyte Sulfate Sulfate Sulfate Sulfate Collected: 02/21/24 11: ate Received: 02/22/24 13: Method: SW846 8260D - Voc Analyte 1,2-Dichloroethane Benzene Ethylbenzene m-Xylene & p-Xylene Methyl tert-butyl ether	3, DBCP, and 1 Result ND as, Ion Chroma Result 160 5 33 00 Diatile Organic Result ND ND ND ND ND	Qualifier tography Qualifier Compoun	GC) <u>RL</u> 0.010 <u>RL</u> 25 ds by GC/MS <u>RL</u> 1.0 0.40 1.0	MDL	Unit mg/L Unit ug/L ug/L ug/L	D	02/27/24 09:41 Prepared .ab Sample	Analyzed 02/27/24 23:48 Analyzed 02/23/24 12:33 DID: 590-23 Matrix Analyzed 02/27/24 16:52 02/27/24 16:52 02/27/24 16:52	Dil Fa Dil Fa 369-2 Wate

02/27/24 16:52

02/27/24 16:52

02/27/24 16:52

Analyzed

02/27/24 16:52

02/27/24 16:52

02/27/24 16:52

02/27/24 16:52

Prepared

1.0

1.0

3.0

Limits

80 - 120

76 - 120

80 - 123

80 - 120

ug/L

ug/L

ug/L

ND

ND

ND

101

100

99

97

%Recovery Qualifier

1

1

1

1

1

1

1

Dil Fac

RL

150

RL

RL

25

0.010

Limits

68.7 - 141

MDL Unit

MDL Unit

MDL Unit

ug/L

mg/L

ug/L

D

D

D

Prepared

Prepared

Prepared

Prepared

Job ID: 590-23369-1

Client Sample ID: MW-5 Date Collected: 02/21/24 11:33 Date Received: 02/22/24 13:00

4-Bromofluorobenzene (Surr)

Analyte

Gasoline

Surrogate

Analyte

Analyte

Sulfate

Ethylene Dibromide

Lab Sample ID: 590-23369-2 Matrix: Water

Analyzed

02/27/24 16:52

Analyzed

02/27/24 16:52

Analyzed

Analyzed

02/23/24 12:43

Matrix: Water

Dil Fac

Dil Fac

Dil Fac

Dil Fac

50

1

Lab Sample ID: 590-23369-3 Matrix: Water

02/27/24 09:41 02/28/24 00:04

Date Collected: 02/21/24 15:38 Date Received: 02/22/24 13:00

Client Sample ID: MW-8

Method: SW846 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Method: EPA 300.0 - Anions, Ion Chromatography

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

%Recovery

Result Qualifier

Result Qualifier

Result Qualifier

Qualifier

ND

100

ND

980

Analyte	Result Qualifier	RL	MDL Unit	D Prepared	Analyzed	Dil Fac
1,2-Dichloroethane	ND	1.0	ug/L		02/27/24 17:13	1
Benzene	ND	0.40	ug/L		02/27/24 17:13	1
Ethylbenzene	ND	1.0	ug/L		02/27/24 17:13	1
m-Xylene & p-Xylene	ND	2.0	ug/L		02/27/24 17:13	1
Methyl tert-butyl ether	ND	1.0	ug/L		02/27/24 17:13	1
o-Xylene	ND	1.0	ug/L		02/27/24 17:13	1
Toluene	ND	1.0	ug/L		02/27/24 17:13	1
Xylenes, Total	ND	3.0	ug/L		02/27/24 17:13	1
Current and the		l insite		Duo u o uo d	Amelyneed	

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac	
1,2-Dichloroethane-d4 (Surr)	97		80 - 120		02/27/24 17:13	1	
4-Bromofluorobenzene (Surr)	98		76 - 120		02/27/24 17:13	1	
Dibromofluoromethane (Surr)	95		80 - 123		02/27/24 17:13	1	
Toluene-d8 (Surr)	97		80 - 120		02/27/24 17:13	1	

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDĹ	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	250		150		ug/L			02/27/24 17:13	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		68.7 - 141					02/27/24 17:13	1
Method: SW846 8011 - EDB	3, DBCP, and 1	,2,3-TCP	(GC)						
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylene Dibromide	ND		0.010		ug/L		02/27/24 09:42	02/28/24 00:21	1
Method: EPA 300.0 - Anion	is, Ion Chroma	tography							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	1100		10		mg/L			02/23/24 12:53	20

RL

MDL Unit

D

Prepared

Job ID: 590-23369-1

Lab Sample ID: 590-23369-4 Matrix: Water

Analyzed Dil Fac 02/27/24 17:34 1 6

Client Sample ID: MW-8-DUP Date Collected: 02/21/24 15:38 Date Received: 02/22/24 13:00

Analyte

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Result Qualifier

1,2-Dichloroethane	ND		1.0		ug/L			02/27/24 17:34	1
Benzene	ND		0.40		ug/L			02/27/24 17:34	1
Ethylbenzene	ND		1.0		ug/L			02/27/24 17:34	1
m-Xylene & p-Xylene	ND		2.0		ug/L			02/27/24 17:34	1
Methyl tert-butyl ether	ND		1.0		ug/L			02/27/24 17:34	1
o-Xylene	ND		1.0		ug/L			02/27/24 17:34	1
Toluene	ND		1.0		ug/L			02/27/24 17:34	1
Xylenes, Total	ND		3.0		ug/L			02/27/24 17:34	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	116		80 - 120					02/27/24 17:34	1
4-Bromofluorobenzene (Surr)	96		76 - 120					02/27/24 17:34	1
	111		80 - 123					02/27/24 17:34	1
Dibromofluoromethane (Surr)									
Dibromofluoromethane (Surr) Toluene-d8 (Surr)	97		80 - 120					02/27/24 17:34	1
Toluene-d8 (Surr)	97	Potrolou		CC/MS)				02/27/24 17:34	1
Toluene-d8 (Surr) Method: NWTPH-Gx - Nort	₉₇ hwest - Volatile		m Products (Unit	П	Prenared		
Toluene-d8 (Surr) Method: NWTPH-Gx - Nort Analyte	97 hwest - Volatile Result	e Petroleu Qualifier	m Products ((GC/MS) MDL		<u>D</u>	Prepared	Analyzed	1 Dil Fac
Toluene-d8 (Surr) Method: NWTPH-Gx - Nort	₉₇ hwest - Volatile		m Products (Unit ug/L	<u>D</u>	Prepared		
Toluene-d8 (Surr) Method: NWTPH-Gx - Nort Analyte	97 hwest - Volatile Result	Qualifier	m Products ((<u> </u>	Prepared Prepared	Analyzed	
Toluene-d8 (Surr) Method: NWTPH-Gx - Nort Analyte Gasoline	97 hwest - Volatile Result 300	Qualifier	m Products (0 			<u> </u>		Analyzed 02/27/24 17:34	Dil Fac
Toluene-d8 (Surr) Method: NWTPH-Gx - Nort Analyte Gasoline Surrogate 4-Bromofluorobenzene (Surr)	97 hwest - Volatile Result 300 %Recovery 96	Qualifier Qualifier	m Products (6 <u>RL</u> 150 <u>Limits</u> 68.7 - 141			<u> </u>		Analyzed 02/27/24 17:34 Analyzed	Dil Fac 1 Dil Fac
Toluene-d8 (Surr) Method: NWTPH-Gx - Nort Analyte Gasoline Surrogate	97 hwest - Volatile Result 300 <u>%Recovery</u> 96 3, DBCP, and 1	Qualifier Qualifier	m Products (6 <u>RL</u> 150 <u>Limits</u> 68.7 - 141		ug/L	<u>D</u>		Analyzed 02/27/24 17:34 Analyzed	Dil Fac 1 Dil Fac
Toluene-d8 (Surr) Method: NWTPH-Gx - Nort Analyte Gasoline Surrogate 4-Bromofluorobenzene (Surr) Method: SW846 8011 - EDE	97 hwest - Volatile Result 300 <u>%Recovery</u> 96 3, DBCP, and 1	Qualifier Qualifier ,2,3-TCP (m Products ((MDL	ug/L		Prepared Prepared	Analyzed 02/27/24 17:34 Analyzed 02/27/24 17:34	Dil Fac 1 Dil Fac 1
Toluene-d8 (Surr) Method: NWTPH-Gx - Nort Analyte Gasoline Surrogate 4-Bromofluorobenzene (Surr) Method: SW846 8011 - EDE Analyte	97 hwest - Volatile Result 300 %Recovery 96 3, DBCP, and 1 Result ND	Qualifier Qualifier ,2,3-TCP (Qualifier	m Products ((MDL	ug/L		Prepared Prepared	Analyzed 02/27/24 17:34 Analyzed 02/27/24 17:34 Analyzed	Dil Fac 1 Dil Fac 1
Toluene-d8 (Surr) Method: NWTPH-Gx - Nort Analyte Gasoline Surrogate 4-Bromofluorobenzene (Surr) Method: SW846 8011 - EDE Analyte Ethylene Dibromide	97 hwest - Volatile Result 300 %Recovery 96 3, DBCP, and 1 Result ND ss, Ion Chromatic	Qualifier Qualifier ,2,3-TCP (Qualifier	m Products ((MDL	ug/L Unit ug/L		Prepared Prepared	Analyzed 02/27/24 17:34 Analyzed 02/27/24 17:34 Analyzed	Dil Fac 1 Dil Fac 1

Method: 8260D - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 590-46017/10 Matrix: Water Analysis Batch: 46017

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

02/27/24 15:27

Prep Type: Total/NA

Client Sample ID: Lab Control Sample

1

MB MB **Result Qualifier** RL MDL Unit D Prepared Analyzed Dil Fac Analyte 1,2-Dichloroethane ND 1.0 ug/L 02/27/24 15:27 1 Benzene ND 0.40 ug/L 02/27/24 15:27 1 Ethylbenzene ND 1.0 ug/L 02/27/24 15:27 1 m-Xylene & p-Xylene ND 2.0 ug/L 02/27/24 15:27 1 Methyl tert-butyl ether ND 1.0 ug/L 02/27/24 15:27 1 o-Xylene ND 1.0 ug/L 02/27/24 15:27 1 Toluene ND 1.0 ug/L 02/27/24 15:27 1 Xylenes, Total ND 3.0 ug/L 02/27/24 15:27 1 MB MB Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 80 - 120 02/27/24 15:27 1,2-Dichloroethane-d4 (Surr) 100 1 4-Bromofluorobenzene (Surr) 102 76 - 120 02/27/24 15:27 1 Dibromofluoromethane (Surr) 114 80 - 123 02/27/24 15:27 1

Lab Sample ID: LCS 590-46017/1005 Matrix: Water Analysis Batch: 46017

Toluene-d8 (Surr)

	Spike	LCS	LCS				%Rec
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits
1,2-Dichloroethane	10.0	9.74		ug/L		97	80 - 120
Benzene	10.0	10.1		ug/L		101	80 - 120
Ethylbenzene	10.0	10.5		ug/L		105	80 - 122
m-Xylene & p-Xylene	10.0	11.8		ug/L		118	80 - 125
Methyl tert-butyl ether	10.0	6.87		ug/L		69	68 - 134
o-Xylene	10.0	11.4		ug/L		114	80 - 130
Toluene	10.0	10.2		ug/L		102	80 - 129

80 - 120

96

. . .

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	99		80 - 120
4-Bromofluorobenzene (Surr)	104		76 - 120
Dibromofluoromethane (Surr)	110		80 - 123
Toluene-d8 (Surr)	98		80 - 120

Lab Sample ID: LCSD 590-46017/6 Matrix: Water Analysis Batch: 46017

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

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
1,2-Dichloroethane	10.0	9.45		ug/L		95	80 - 120	3	14
Benzene	10.0	9.75		ug/L		97	80 - 120	4	15
Ethylbenzene	10.0	10.5		ug/L		105	80 - 122	1	35
m-Xylene & p-Xylene	10.0	11.6		ug/L		116	80 - 125	2	35
Methyl tert-butyl ether	10.0	6.75		ug/L		68	68 - 134	2	18
o-Xylene	10.0	11.2		ug/L		112	80 - 130	1	35
Toluene	10.0	9.91		ug/L		99	80 - 129	3	35

Eurofins Spokane

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued) Lab Sample ID: LCSD 590-46017/6 **Client Sample ID: Lab Control Sample Dup** Matrix: Water Prep Type: Total/NA Analysis Batch: 46017 LCSD LCSD %Recovery Qualifier Limits Surrogate 1,2-Dichloroethane-d4 (Surr) 99 80 - 120 4-Bromofluorobenzene (Surr) 102 76 - 120 Dibromofluoromethane (Surr) 108 80 - 123 Toluene-d8 (Surr) 97 80 - 120 Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS) Lab Sample ID: MB 590-46018/10 **Client Sample ID: Method Blank Matrix: Water** Prep Type: Total/NA Analysis Batch: 46018 MB MB Analyte **Result Qualifier** RL MDL Unit D Prepared Analyzed Dil Fac Gasoline ND 150 02/27/24 15:27 ug/L MB MB Qualifier Surrogate Limits Dil Fac %Recovery Prepared Analyzed 4-Bromofluorobenzene (Surr) 68.7 - 141 02/27/24 15:27 102 1 Lab Sample ID: LCS 590-46018/1009 **Client Sample ID: Lab Control Sample Matrix: Water** Prep Type: Total/NA Analysis Batch: 46018 Spike LCS LCS %Rec Added Analyte Result Qualifier Unit D %Rec Limits Gasoline 1000 1040 ug/L 104 80 - 120 LCS LCS Surrogate %Recovery Qualifier Limits 4-Bromofluorobenzene (Surr) 97 68.7 - 141 Lab Sample ID: LCSD 590-46018/1021 Client Sample ID: Lab Control Sample Dup Matrix: Water Prep Type: Total/NA Analysis Batch: 46018 Spike LCSD LCSD %Rec RPD Analyte Added **Result Qualifier** Unit %Rec Limits RPD Limit D 1000 98 80 - 120 Gasoline 984 ug/L 6 20 LCSD LCSD Surrogate %Recovery Qualifier Limits 4-Bromofluorobenzene (Surr) 100 68.7 - 141 Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC) Lab Sample ID: MB 590-46010/2-A **Client Sample ID: Method Blank Matrix: Water Prep Type: Total/NA** Analysis Batch: 46016 Prep Batch: 46010 MB MB Analyte **Result Qualifier** RL MDL Unit D Prepared Analyzed Dil Fac 0.010 Ethylene Dibromide ND ug/L 02/27/24 09:41 02/27/24 22:26 1

Job ID: 590-23369-1

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC) (Continued)

Lab Sample ID: LCS 590-460	10/3-A						Clie	nt Sai	mple ID	: Lab Cor	ntrol Sa	ample
Matrix: Water										Prep Ty	pe: Tot	al/NA
Analysis Batch: 46016										Prep E	Batch:	46010
-			Spike	LC	S LCS					%Rec		
Analyte			Added	Resu	lt Qualifi	ier	Unit	D	%Rec	Limits		
Ethylene Dibromide			0.125	0.096	6		ug/L		77	60 - 140		
Lab Sample ID: LCSD 590-46	6010/4-A					С	lient Sa	mple	ID: Lab	Control	Sample	e Dup
Matrix: Water								- C		Prep Ty		
Analysis Batch: 46016											Batch: 4	
			Spike	LCS	D LCSD					%Rec		RPD
Analyte			Added	Resu	lt Qualifi	ier	Unit	D	%Rec	Limits	RPD	Limi
Ethylene Dibromide			0.125	0.098	9		ug/L		79	60 - 140	2	20
		atograp	hy									
Lab Sample ID: MB 590-4596 Matrix: Water		atograp	hy					Clie	ent Sam	iple ID: M Prep Ty		
Lab Sample ID: MB 590-4596 Matrix: Water	8/1003		hy					Clie	ent Sam	-		
Lab Sample ID: MB 590-4596 Matrix: Water Analysis Batch: 45968	8/1003 MB		hy	RL	MDL U	nit			ent Sarr	-	pe: Tot	
Lab Sample ID: MB 590-4596 Matrix: Water Analysis Batch: 45968 Analyte	8/1003 MB	мв	hy 	RL 0.50		nit ıg/L	!			Prep Ty	pe: Tot	t <mark>al/NA</mark> Dil Fac
Lab Sample ID: MB 590-4596 Matrix: Water Analysis Batch: 45968 Analyte	68/1003 MB Result ND	мв	hy			-		DP	repared	Prep Ty Analyz	pe: Tot zed 10:25	Dil Fa
Lab Sample ID: MB 590-4596 Matrix: Water Analysis Batch: 45968 Analyte Sulfate	68/1003 MB Result ND	мв	hy			-		DP	repared	Prep Ty 	pe: Tot zed 10:25	Dil Fac
Lab Sample ID: MB 590-4596 Matrix: Water Analysis Batch: 45968 Analyte Sulfate Lab Sample ID: LCS 590-459	68/1003 MB Result ND	мв	hy			-		DP	repared	Prep Ty <u>Analy</u> 02/23/24 : Lab Cor	pe: Tot zed 10:25	Dil Fac
Lab Sample ID: MB 590-4596 Matrix: Water Analysis Batch: 45968 Analyte Sulfate Lab Sample ID: LCS 590-459 Matrix: Water	68/1003 MB Result ND	мв	by	0.50		-		DP	repared	Prep Ty <u>Analy</u> 02/23/24 : Lab Cor	pe: Tot zed 10:25	Dil Fac
Matrix: Water Analysis Batch: 45968 Analyte Sulfate Lab Sample ID: LCS 590-459 Matrix: Water	68/1003 MB Result ND	мв		0.50 LC	m	ig/L		DP	repared	Prep Ty Analy: 02/23/24 : Lab Cor Prep Ty	pe: Tot zed 10:25	Dil Fac

Lab Sample ID: 590-23369-1 **Matrix: Water**

Date Collected: 02/21/24 09:53 Date Received: 02/22/24 13:00

Client Sample ID: MW-4

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	43 mL	43 mL	46017	02/27/24 16:31	JSP	EET SPK
Total/NA	Analysis	NWTPH-Gx		1	43 mL	43 mL	46018	02/27/24 16:31	JSP	EET SPK
Total/NA	Prep	8011			80 mL	2 mL	46010	02/27/24 09:41	MRV	EET SPK
Total/NA	Analysis	8011		1	1 mL	1 mL	46016	02/27/24 23:48	NMI	EET SPK
Total/NA	Analysis	300.0		50	5 mL	5 mL	45968	02/23/24 12:33	NMI	EET SPK

Client Sample ID: MW-5 Date Collected: 02/21/24 11:33 Date Received: 02/22/24 13:00

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	43 mL	43 mL	46017	02/27/24 16:52	JSP	EET SPK
Total/NA	Analysis	NWTPH-Gx		1	43 mL	43 mL	46018	02/27/24 16:52	JSP	EET SPK
Total/NA	Prep	8011			80 mL	2 mL	46010	02/27/24 09:41	MRV	EET SPK
Total/NA	Analysis	8011		1	1 mL	1 mL	46016	02/28/24 00:04	NMI	EET SPK
Total/NA	Analysis	300.0		50	5 mL	5 mL	45968	02/23/24 12:43	NMI	EET SPK

Client Sample ID: MW-8 Date Collected: 02/21/24 15:38

Date Received: 02/22/24 13:00

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	43 mL	43 mL	46017	02/27/24 17:13	JSP	EET SPK
Total/NA	Analysis	NWTPH-Gx		1	43 mL	43 mL	46018	02/27/24 17:13	JSP	EET SPK
Total/NA	Prep	8011			80 mL	2 mL	46010	02/27/24 09:42	MRV	EET SPK
Total/NA	Analysis	8011		1	1 mL	1 mL	46016	02/28/24 00:21	NMI	EET SPK
Total/NA	Analysis	300.0		20	5 mL	5 mL	45968	02/23/24 12:53	NMI	EET SPK

Client Sample ID: MW-8-DUP Date Collected: 02/21/24 15:38

Date Received: 02/22/24 13:00

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	43 mL	43 mL	46017	02/27/24 17:34	JSP	EET SPK
Total/NA	Analysis	NWTPH-Gx		1	43 mL	43 mL	46018	02/27/24 17:34	JSP	EET SPK
Total/NA	Prep	8011			80 mL	2 mL	46010	02/27/24 09:42	MRV	EET SPK
Total/NA	Analysis	8011		1	1 mL	1 mL	46016	02/28/24 00:37	NMI	EET SPK
Total/NA	Analysis	300.0		20	5 mL	5 mL	45968	02/23/24 13:23	NMI	EET SPK

Laboratory References:

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

Lab Sample ID: 590-23369-3 Matrix: Water

Lab Sample ID: 590-23369-4 Matrix: Water

Laboratory: Eurofins Spokane

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Washington	State	C569	01-07-25

Method Summary

Client: Able Clean-Up Technologies, Inc Project/Site: RH Smith

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	EET SPK
NWTPH-Gx	Northwest - Volatile Petroleum Products (GC/MS)	NWTPH	EET SPK
8011	EDB, DBCP, and 1,2,3-TCP (GC)	SW846	EET SPK
300.0	Anions, Ion Chromatography	EPA	EET SPK
5030C	Purge and Trap	SW846	EET SPK
8011	Microextraction	SW846	EET SPK
Protocol Re	ferences:		
EPA = U	S Environmental Protection Agency		
NWTPH	= Northwest Total Petroleum Hydrocarbon		
SW846 =	"Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third	Edition. November 1986 And Its Update	es.

Laboratory References:

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

Eurofins Spokane

TestAmerica Spokane

11922 E 1st Avenue

Chain of Custody Record



THE LEADER IN ENVIRONMENTAL TESTING

Spokane WA 99206-5302

phone 509.924.9200 fax 509.924 9290	Destronation of the second			Regulatory Program Dw NF Project Manager' Stefanle Marikis								dikana mana			an and a second	<u>Second</u>	-						TestAmerica Laboratories, Inc	÷ /
Client Contact		·····		<u>, (is</u>				ontact		efani	ie Ma	ariki	<u>s</u>	1					50	/946/	652/	<u>55</u> (COC No:	-
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Login Sample Receipt Checklist

Client: Able Clean-Up Technologies, Inc

Login Number: 23369 List Number: 1 Creator: Morris, Mackenzie 1

Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>N/A</td> <td></td>	N/A	
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.	True	
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?	True	
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 <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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List Source: Eurofins Spokane