

**Public Review Draft
Remedial Investigation/Feasibility Study**

Go East Corp Landfill Site
Everett, Washington
Ecology Agreed Order No. DE 18121

for

**Washington State Department of Ecology
on Behalf of Century Communities**

December 1, 2023



1101 South Fawcett Avenue, Suite 200
Tacoma, Washington 98402
253.383.4940

**Public Review Draft
Remedial Investigation/Feasibility Study**

**Go East Landfill Site
Everett, Washington**

File No. 26410-001-01

December 1, 2023

Prepared for:

Century Communities
20000 North Creek Parkway, Suite 201
Bothell, Washington 98011

Prepared by:

GeoEngineers, Inc.
1101 South Fawcett Avenue, Suite 200
Tacoma, Washington 98402
253.383.4940

Garrett R. Leque, LG
Senior Geologist

Terry R. McPhetridge, LG, LHG
Principal

GRL:TRM:ch

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DRAFT

Project: July 2021 Sediment Sampling Results
Go East Landfill Site, Everett, Washington

GEI File: 6694-002-05

Date: May 26, 2023

This report documents the results of a United States Environmental Protection Agency (USEPA)-defined Stage 2A data validation (USEPA Document 540-R-08-005; USEPA 2009) of analytical data from the analyses of sediment samples collected as part of the July 2021 sampling event, and the associated laboratory quality control (QC) samples. The samples were obtained from the Go East Landfill Site located in Everett, Washington.

OBJECTIVE AND QUALITY CONTROL ELEMENTS

GeoEngineers, Inc. (GeoEngineers) completed the data validation consistent with the USEPA Contract Laboratory Program National Functional Guidelines for Organic Superfund Data Review (USEPA 2020a) and Inorganic Superfund Data Review (USEPA 2020b) to determine if the laboratory analytical results meet the project objectives and are usable for their intended purpose. Data usability was assessed by determining if:

- The samples were analyzed using well-defined and acceptable methods that provide reporting limits below applicable regulatory criteria;
- The precision and accuracy of the data are measured by well-defined control limits to provide defensible data; and
- The quality assurance/quality control (QA/QC) procedures utilized by the laboratory meet acceptable industry practices and standards.

The data validation included review of the following QC elements:

- Data Package Completeness
- Chain-of-Custody Documentation
- Holding Times and Sample Preservation
- Method Blanks
- Surrogates
- Matrix Spikes/Matrix Spike Duplicates
- Laboratory Control Samples/Laboratory Control Sample Duplicates
- Laboratory Duplicates
- Reporting Limits

VALIDATED SAMPLE DELIVERY GROUPS

This data validation included review of the sample delivery group (SDG) listed below in Table 1.

TABLE 1: SUMMARY OF VALIDATED SAMPLE DELIVERY GROUP

2107-103	SED-1-210713, SED-2-210713, SED-3-210713

CHEMICAL ANALYSIS PERFORMED

OnSite Environmental, Inc. (OnSite) of Redmond, Washington, performed laboratory analysis on the sediment samples using one or more of the following methods:

- Petroleum Hydrocarbons (NWTPH-Dx) by Method NWTPH-Dx;
- Low-level Polycyclic Aromatic Hydrocarbons (PAHs) by Method EPA 8270E/Selective Ion Monitoring (SIM);
- Polychlorinated Biphenyls (PCBs) by Method SW8082A;
- Organochlorine Pesticides by Method EPA 8081B;
- Chlorinated Acid Herbicides by Method EPA 8151A;
- Total Metals by Methods EPA 6010D, EPA 6020B, or EPA 7471B;
- Total Organic Carbon (TOC) by Method EPA 9060A; and
- Total Solids by Method SM2540G

DATA VALIDATION SUMMARY

The results for each of the QC elements are summarized below.

Data Package Completeness

OnSite provided the required deliverables for the data validation according to the National Functional Guidelines. The laboratory followed adequate corrective action processes and the identified anomalies were discussed in the relevant laboratory case narrative.

Chain-of-Custody Documentation

Chain-of-custody (COC) forms were provided with the laboratory analytical reports. The COCs were accurate and complete when submitted to the laboratory. The forms were appropriately signed and dated by both field collectors and laboratory personnel upon receipt.

Holding Times and Sample Preservation

The sample holding time is defined as the time that elapses between sample collection and sample analysis. Maximum holding time criteria exist for each analysis to help ensure that the analyte concentrations found at

the time of analysis reflect the concentration present at the time of sample collection. Established holding times were met for each analysis. The sample coolers arrived at the laboratory within the appropriate temperatures of between two and six degrees Celsius.

Method Blanks

Method blanks are analyzed to ensure that laboratory procedures and reagents do not introduce measurable concentrations of the analytes of interest. A method blank was analyzed with each batch of samples, at a frequency of 1 per 20 samples. For each sample batch, method blanks for the applicable methods were analyzed at the required frequency. None of the analytes of interest were detected above the reporting limits in the method blanks.

Surrogate Recoveries

A surrogate compound is a compound that is chemically similar to the organic analytes of interest, but unlikely to be found in an environmental sample. Surrogates are used for organic analyses and are added to the samples, standards, and blanks to serve as an accuracy and specificity check of each analysis. The surrogates are added to the samples at a known concentration and percent recoveries are calculated following analysis. The surrogate percent recoveries for field samples were within the laboratory control limits.

Matrix Spikes/Matrix Spike Duplicates

Since the actual analyte concentration in an environmental sample is not known, the accuracy of a particular analysis is usually inferred by performing a matrix spike (MS) analysis on one sample from the associated batch, known as the parent sample. One aliquot of the sample is analyzed in the normal manner and then a second aliquot of the sample is spiked with a known amount of analyte concentration and analyzed. From these analyses, a percent recovery is calculated. Matrix spike duplicate (MSD) analyses are generally performed for organic analyses as a precision check and analyzed in the same sequence as a matrix spike. Using the result values from the MS and MSD, the relative percent difference (RPD) is calculated. The percent recovery control limits for MS and MSD analyses are specified in the laboratory documents, as are the RPD control limits for MS/MSD sample sets.

For inorganic methods, the matrix spike is followed by a post-digestion spike sample if an element percent recovery was outside the control limits in the matrix spike. The percent recovery control limits for matrix spikes are 75% to 125%.

One MS/MSD analysis should be performed for every analytical batch or every 20 field samples, whichever is more frequent. The frequency requirements were met for each analysis and the percent recovery and RPD values were within the proper control limits, with the following exceptions:

SDG 2107-103: (Total Metals) The laboratory performed an MS/MSD sample set on Sample SED-2-210713. The percent recoveries for total iron and total manganese were less than the control limits in the MS/MSD digested on 7/19/2021. The positive results for these target analytes were qualified as estimated (J) in this sample.

Laboratory Control Samples/Laboratory Control Sample Duplicates

A Laboratory Control Sample (LCS) is a blank sample that is spiked with a known amount of analyte and then analyzed. An LCS is similar to an MS, but without the possibility of matrix interference. Given that matrix interference is not an issue, control limits for accuracy and precision in the LCS and its duplicate (LCSD) are usually more rigorous than for MS/MSD analyses. Additionally, data qualification based on LCS/LCSD analyses would apply to each sample in the associated batch, instead of just the parent sample. The percent recovery control limits for LCS and LCSD analyses are specified in the laboratory documents, as are the RPD control limits for LCS/LCSD sample sets.

One LCS/LCSD analysis should be performed for every analytical batch or every 20 field samples, whichever is more frequent. The frequency requirements were met for each analysis and the percent recovery and RPD values were within the proper control limits, with the following exception:

SDG 2107-103: (Herbicides) The RPD for dalapon was greater than the control limit in the LCS/LCSD extracted on 7/16/2021. There were no positive results for this target analyte in the associated field samples; therefore, no qualifications were required.

Laboratory Duplicates

Internal laboratory duplicate analyses are performed to monitor the precision of the analyses. Two separate aliquots of a sample are analyzed as distinct samples in the laboratory and the RPD between the two results is calculated. Duplicate analyses should be performed once per analytical batch. If one or more of the samples used has a concentration less than five times the reporting limit for that sample, the absolute difference is used instead of the RPD. For organic analyses, the RPD control limits are specified in the laboratory documents. For inorganic analyses, the RPD control limit for water samples is 20 percent. Laboratory duplicates were analyzed at the proper frequency and the specified acceptance criteria were met, with the following exception:

SDG 2107-103: (Total Metals) The laboratory performed a laboratory duplicate sample set on Sample SED-2-210713. The RPD for total copper was greater than the control limit in the laboratory duplicate digested on 7/19/2021. The positive result for this target analyte was qualified as estimated (J) in this sample.

Reporting Limits

The contract required quantitation limits (CRQL) were met by the laboratory for the target analytes throughout this sampling event, with some exceptions where the CRQL was elevated due to required sample dilution.

OVERALL ASSESSMENT

As was determined by this data validation, the laboratory followed the specified analytical methods. Accuracy was acceptable, as demonstrated by the surrogates, LCS/LCSD, and MS/MSD percent recovery values, with the exceptions noted above. Precision was also acceptable, as demonstrated by the LCS/LCSD, MS/MSD, and laboratory duplicate RPD values, with the exceptions noted above.

The data are acceptable for the intended use, with the following qualifications listed below in Table 2.

TABLE 2: SUMMARY OF QUALIFIED SAMPLES

Sample ID	Analyte	Qualifier	Reason
SED-2-210713	Total copper	J	Laboratory Duplicate Precision
	Total iron	J	MS/MSD Recovery
	Total manganese	J	MS/MSD Recovery

REFERENCES

GeoEngineers, Inc., "Interim Action Work Plan, Go East Corp Landfill Site, Everett, Washington, Ecology Agreed Order No. DE 18121 – prepared for Washington State Department of Ecology on Behalf of PG&E, LLC. GEI File No. 6694-002-03, April 23, 2020.

U.S. Environmental Protection Agency (USEPA). "Guidance for Labeling Externally Validated Laboratory Analytical Data for Superfund Use," EPA-540-R-08-005. January 2009.

U.S. Environmental Protection Agency (USEPA) 2020a. Contract Laboratory Program National Functional Guidelines for Organic Superfund Methods Data Review, EPA-540-R-20-005. November 2020.

U.S. Environmental Protection Agency (USEPA) 2020b. Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Methods Data Review, EPA-542-R-20-006. November 2020.



14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

July 28, 2021

Garrett Leque
GeoEngineers, Inc.
554 West Bakerview Road
Bellingham, WA 98226

Re: Analytical Data for Project 6694-002-05 T700
Laboratory Reference No. 2107-103

Dear Garrett:

Enclosed are the analytical results and associated quality control data for samples submitted on July 13, 2021.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

A handwritten signature in black ink, appearing to read "DB", with a horizontal line extending to the right.

David Baumeister
Project Manager

Enclosures



OnSite Environmental, Inc. 14648 NE 95th Street, Redmond, WA 98052 (425) 883-3881

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: July 28, 2021
Samples Submitted: July 13, 2021
Laboratory Reference: 2107-103
Project: 6694-002-05 T700

Case Narrative

Samples were collected on July 13, 2021 and received by the laboratory on July 13, 2021. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

Chlorinated Acid Herbicides EPA 8151A Analysis

The RPD for Dalapon was above the quality control limit between the spike blank and spike blank duplicate. All other quality control values were within control limits and no further action was performed.

Total Metals EPA 6010D/6020B/7471B Analysis

The sample SED-3-210713 (07-103-03) was air dried over night for Mercury.

Due to the high concentration of Iron and Manganese in the QC sample, the amount spiked was insufficient for meaningful MS/MSD recovery data. The Spike Blank recovery was 103% for Iron and 96 % for Manganese.

Please note that any other QA/QC issues associated with these extractions and analyses will be indicated with a footnote reference and discussed in detail on the Data Qualifier page.



Date of Report: July 28, 2021
Samples Submitted: July 13, 2021
Laboratory Reference: 2107-103
Project: 6694-002-05 T700

ANALYTICAL REPORT FOR SAMPLES

Client ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
SED-1-210713	07-103-01	Sediment	7-13-21	7-13-21	
SED-2-210713	07-103-02	Sediment	7-13-21	7-13-21	
SED-3-210713	07-103-03	Sediment	7-13-21	7-13-21	

DRAFT



Date of Report: July 28, 2021
 Samples Submitted: July 13, 2021
 Laboratory Reference: 2107-103
 Project: 6694-002-05 T700

**DIESEL AND HEAVY OIL RANGE ORGANICS
 NWTPH-Dx**

Matrix: Sediment
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SED-1-210713					
Laboratory ID:	07-103-01					
Diesel Range Organics	ND	56	NWTPH-Dx	7-14-21	7-19-21	
Lube Oil Range Organics	970	110	NWTPH-Dx	7-14-21	7-19-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	75	50-150				
Client ID:	SED-2-210713					
Laboratory ID:	07-103-02					
Diesel Range Organics	ND	43	NWTPH-Dx	7-14-21	7-19-21	
Lube Oil Range Organics	130	86	NWTPH-Dx	7-14-21	7-19-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	80	50-150				
Client ID:	SED-3-210713					
Laboratory ID:	07-103-03					
Diesel Range Organics	ND	130	NWTPH-Dx	7-14-21	7-19-21	
Lube Oil Range Organics	ND	260	NWTPH-Dx	7-14-21	7-19-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	70	50-150				



Date of Report: July 28, 2021
 Samples Submitted: July 13, 2021
 Laboratory Reference: 2107-103
 Project: 6694-002-05 T700

SEMIVOLATILE ORGANICS EPA 8270E/SIM
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Matrix: Sediment
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SED-1-210713					
Laboratory ID:	07-103-01					
n-Nitrosodimethylamine	ND	0.045	EPA 8270E	7-15-21	7-15-21	
Pyridine	ND	0.45	EPA 8270E	7-15-21	7-15-21	
Phenol	ND	0.045	EPA 8270E	7-15-21	7-15-21	
Aniline	ND	0.22	EPA 8270E	7-15-21	7-15-21	
bis(2-Chloroethyl)ether	ND	0.045	EPA 8270E	7-15-21	7-15-21	
2-Chlorophenol	ND	0.045	EPA 8270E	7-15-21	7-15-21	
1,3-Dichlorobenzene	ND	0.045	EPA 8270E	7-15-21	7-15-21	
1,4-Dichlorobenzene	ND	0.045	EPA 8270E	7-15-21	7-15-21	
Benzyl alcohol	ND	0.045	EPA 8270E	7-15-21	7-15-21	
1,2-Dichlorobenzene	ND	0.045	EPA 8270E	7-15-21	7-15-21	
2-Methylphenol (o-Cresol)	ND	0.045	EPA 8270E	7-15-21	7-15-21	
bis(2-Chloroisopropyl)ether	ND	0.045	EPA 8270E	7-15-21	7-15-21	
(3+4)-Methylphenol (m,p-Cresol)	ND	0.045	EPA 8270E	7-15-21	7-15-21	
n-Nitroso-di-n-propylamine	ND	0.045	EPA 8270E	7-15-21	7-15-21	
Hexachloroethane	ND	0.045	EPA 8270E	7-15-21	7-15-21	
Nitrobenzene	ND	0.045	EPA 8270E	7-15-21	7-15-21	
Isophorone	ND	0.045	EPA 8270E	7-15-21	7-15-21	
2-Nitrophenol	ND	0.045	EPA 8270E	7-15-21	7-15-21	
2,4-Dimethylphenol	ND	0.045	EPA 8270E	7-15-21	7-15-21	
bis(2-Chloroethoxy)methane	ND	0.045	EPA 8270E	7-15-21	7-15-21	
2,4-Dichlorophenol	ND	0.045	EPA 8270E	7-15-21	7-15-21	
1,2,4-Trichlorobenzene	ND	0.045	EPA 8270E	7-15-21	7-15-21	
Naphthalene	ND	0.0090	EPA 8270E/SIM	7-15-21	7-15-21	
4-Chloroaniline	ND	0.22	EPA 8270E	7-15-21	7-15-21	
Hexachlorobutadiene	ND	0.045	EPA 8270E	7-15-21	7-15-21	
4-Chloro-3-methylphenol	ND	0.045	EPA 8270E	7-15-21	7-15-21	
2-Methylnaphthalene	ND	0.0090	EPA 8270E/SIM	7-15-21	7-15-21	
1-Methylnaphthalene	ND	0.0090	EPA 8270E/SIM	7-15-21	7-15-21	
Hexachlorocyclopentadiene	ND	0.045	EPA 8270E	7-15-21	7-15-21	
2,4,6-Trichlorophenol	ND	0.045	EPA 8270E	7-15-21	7-15-21	
2,3-Dichloroaniline	ND	0.045	EPA 8270E	7-15-21	7-15-21	
2,4,5-Trichlorophenol	ND	0.045	EPA 8270E	7-15-21	7-15-21	
2-Chloronaphthalene	ND	0.045	EPA 8270E	7-15-21	7-15-21	
2-Nitroaniline	ND	0.045	EPA 8270E	7-15-21	7-15-21	
1,4-Dinitrobenzene	ND	0.045	EPA 8270E	7-15-21	7-15-21	
Dimethylphthalate	ND	0.045	EPA 8270E	7-15-21	7-15-21	
1,3-Dinitrobenzene	ND	0.045	EPA 8270E	7-15-21	7-15-21	
2,6-Dinitrotoluene	ND	0.045	EPA 8270E	7-15-21	7-15-21	
1,2-Dinitrobenzene	ND	0.045	EPA 8270E	7-15-21	7-15-21	
Acenaphthylene	ND	0.0090	EPA 8270E/SIM	7-15-21	7-15-21	
3-Nitroaniline	ND	0.045	EPA 8270E	7-15-21	7-15-21	



Date of Report: July 28, 2021
 Samples Submitted: July 13, 2021
 Laboratory Reference: 2107-103
 Project: 6694-002-05 T700

SEMIVOLATILE ORGANICS EPA 8270E/SIM
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SED-1-210713					
Laboratory ID:	07-103-01					
2,4-Dinitrophenol	ND	0.22	EPA 8270E	7-15-21	7-15-21	
Acenaphthene	ND	0.0090	EPA 8270E/SIM	7-15-21	7-15-21	
4-Nitrophenol	ND	0.045	EPA 8270E	7-15-21	7-15-21	
2,4-Dinitrotoluene	ND	0.045	EPA 8270E	7-15-21	7-15-21	
Dibenzofuran	ND	0.045	EPA 8270E	7-15-21	7-15-21	
2,3,5,6-Tetrachlorophenol	ND	0.045	EPA 8270E	7-15-21	7-15-21	
2,3,4,6-Tetrachlorophenol	ND	0.045	EPA 8270E	7-15-21	7-15-21	
Diethylphthalate	ND	0.22	EPA 8270E	7-15-21	7-15-21	
4-Chlorophenyl-phenylether	ND	0.045	EPA 8270E	7-15-21	7-15-21	
4-Nitroaniline	ND	0.045	EPA 8270E	7-15-21	7-15-21	
Fluorene	ND	0.0090	EPA 8270E/SIM	7-15-21	7-15-21	
4,6-Dinitro-2-methylphenol	ND	0.22	EPA 8270E	7-15-21	7-15-21	
n-Nitrosodiphenylamine	ND	0.045	EPA 8270E	7-15-21	7-15-21	
1,2-Diphenylhydrazine	ND	0.045	EPA 8270E	7-15-21	7-15-21	
4-Bromophenyl-phenylether	ND	0.045	EPA 8270E	7-15-21	7-15-21	
Hexachlorobenzene	ND	0.045	EPA 8270E	7-15-21	7-15-21	
Pentachlorophenol	ND	0.22	EPA 8270E	7-15-21	7-15-21	
Phenanthrene	ND	0.0090	EPA 8270E/SIM	7-15-21	7-15-21	
Anthracene	ND	0.0090	EPA 8270E/SIM	7-15-21	7-15-21	
Carbazole	ND	0.045	EPA 8270E	7-15-21	7-15-21	
Di-n-butylphthalate	ND	0.22	EPA 8270E	7-15-21	7-15-21	
Fluoranthene	0.024	0.0090	EPA 8270E/SIM	7-15-21	7-15-21	
Pyrene	0.022	0.0090	EPA 8270E/SIM	7-15-21	7-15-21	
Butylbenzylphthalate	ND	0.22	EPA 8270E	7-15-21	7-15-21	
bis(2-Ethylhexyl)adipate	ND	0.22	EPA 8270E	7-15-21	7-15-21	
3,3'-Dichlorobenzidine	ND	0.22	EPA 8270E	7-15-21	7-15-21	
Benzo[a]anthracene	ND	0.0090	EPA 8270E/SIM	7-15-21	7-15-21	
Chrysene	ND	0.0090	EPA 8270E/SIM	7-15-21	7-15-21	
bis(2-Ethylhexyl)phthalate	ND	0.22	EPA 8270E	7-15-21	7-15-21	
Di-n-octylphthalate	ND	0.22	EPA 8270E	7-15-21	7-15-21	
Benzo[b]fluoranthene	0.011	0.0090	EPA 8270E/SIM	7-15-21	7-15-21	
Benzo(j,k)fluoranthene	ND	0.0090	EPA 8270E/SIM	7-15-21	7-15-21	
Benzo[a]pyrene	ND	0.0090	EPA 8270E/SIM	7-15-21	7-15-21	
Indeno[1,2,3-cd]pyrene	ND	0.0090	EPA 8270E/SIM	7-15-21	7-15-21	
Dibenz[a,h]anthracene	ND	0.0090	EPA 8270E/SIM	7-15-21	7-15-21	
Benzo[g,h,i]perylene	ND	0.0090	EPA 8270E/SIM	7-15-21	7-15-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
2-Fluorophenol	60	26 - 109				
Phenol-d6	77	33 - 113				
Nitrobenzene-d5	63	31 - 110				
2-Fluorobiphenyl	70	42 - 107				
2,4,6-Tribromophenol	97	42 - 123				
Terphenyl-d14	85	41 - 115				



Date of Report: July 28, 2021
 Samples Submitted: July 13, 2021
 Laboratory Reference: 2107-103
 Project: 6694-002-05 T700

SEMIVOLATILE ORGANICS EPA 8270E/SIM
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Matrix: Sediment
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SED-2-210713					
Laboratory ID:	07-103-02					
n-Nitrosodimethylamine	ND	0.034	EPA 8270E	7-15-21	7-15-21	
Pyridine	ND	0.34	EPA 8270E	7-15-21	7-15-21	
Phenol	ND	0.034	EPA 8270E	7-15-21	7-15-21	
Aniline	ND	0.17	EPA 8270E	7-15-21	7-15-21	
bis(2-Chloroethyl)ether	ND	0.034	EPA 8270E	7-15-21	7-15-21	
2-Chlorophenol	ND	0.034	EPA 8270E	7-15-21	7-15-21	
1,3-Dichlorobenzene	ND	0.034	EPA 8270E	7-15-21	7-15-21	
1,4-Dichlorobenzene	ND	0.034	EPA 8270E	7-15-21	7-15-21	
Benzyl alcohol	ND	0.034	EPA 8270E	7-15-21	7-15-21	
1,2-Dichlorobenzene	ND	0.034	EPA 8270E	7-15-21	7-15-21	
2-Methylphenol (o-Cresol)	ND	0.034	EPA 8270E	7-15-21	7-15-21	
bis(2-Chloroisopropyl)ether	ND	0.034	EPA 8270E	7-15-21	7-15-21	
(3+4)-Methylphenol (m,p-Cresol)	ND	0.034	EPA 8270E	7-15-21	7-15-21	
n-Nitroso-di-n-propylamine	ND	0.034	EPA 8270E	7-15-21	7-15-21	
Hexachloroethane	ND	0.034	EPA 8270E	7-15-21	7-15-21	
Nitrobenzene	ND	0.034	EPA 8270E	7-15-21	7-15-21	
Isophorone	ND	0.034	EPA 8270E	7-15-21	7-15-21	
2-Nitrophenol	ND	0.034	EPA 8270E	7-15-21	7-15-21	
2,4-Dimethylphenol	ND	0.034	EPA 8270E	7-15-21	7-15-21	
bis(2-Chloroethoxy)methane	ND	0.034	EPA 8270E	7-15-21	7-15-21	
2,4-Dichlorophenol	ND	0.034	EPA 8270E	7-15-21	7-15-21	
1,2,4-Trichlorobenzene	ND	0.034	EPA 8270E	7-15-21	7-15-21	
Naphthalene	ND	0.0068	EPA 8270E/SIM	7-15-21	7-15-21	
4-Chloroaniline	ND	0.17	EPA 8270E	7-15-21	7-15-21	
Hexachlorobutadiene	ND	0.034	EPA 8270E	7-15-21	7-15-21	
4-Chloro-3-methylphenol	ND	0.034	EPA 8270E	7-15-21	7-15-21	
2-Methylnaphthalene	ND	0.0068	EPA 8270E/SIM	7-15-21	7-15-21	
1-Methylnaphthalene	ND	0.0068	EPA 8270E/SIM	7-15-21	7-15-21	
Hexachlorocyclopentadiene	ND	0.034	EPA 8270E	7-15-21	7-15-21	
2,4,6-Trichlorophenol	ND	0.034	EPA 8270E	7-15-21	7-15-21	
2,3-Dichloroaniline	ND	0.034	EPA 8270E	7-15-21	7-15-21	
2,4,5-Trichlorophenol	ND	0.034	EPA 8270E	7-15-21	7-15-21	
2-Chloronaphthalene	ND	0.034	EPA 8270E	7-15-21	7-15-21	
2-Nitroaniline	ND	0.034	EPA 8270E	7-15-21	7-15-21	
1,4-Dinitrobenzene	ND	0.034	EPA 8270E	7-15-21	7-15-21	
Dimethylphthalate	ND	0.034	EPA 8270E	7-15-21	7-15-21	
1,3-Dinitrobenzene	ND	0.034	EPA 8270E	7-15-21	7-15-21	
2,6-Dinitrotoluene	ND	0.034	EPA 8270E	7-15-21	7-15-21	
1,2-Dinitrobenzene	ND	0.034	EPA 8270E	7-15-21	7-15-21	
Acenaphthylene	ND	0.0068	EPA 8270E/SIM	7-15-21	7-15-21	
3-Nitroaniline	ND	0.034	EPA 8270E	7-15-21	7-15-21	



Date of Report: July 28, 2021
 Samples Submitted: July 13, 2021
 Laboratory Reference: 2107-103
 Project: 6694-002-05 T700

SEMIVOLATILE ORGANICS EPA 8270E/SIM
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SED-2-210713					
Laboratory ID:	07-103-02					
2,4-Dinitrophenol	ND	0.17	EPA 8270E	7-15-21	7-15-21	
Acenaphthene	ND	0.0068	EPA 8270E/SIM	7-15-21	7-15-21	
4-Nitrophenol	ND	0.034	EPA 8270E	7-15-21	7-15-21	
2,4-Dinitrotoluene	ND	0.034	EPA 8270E	7-15-21	7-15-21	
Dibenzofuran	ND	0.034	EPA 8270E	7-15-21	7-15-21	
2,3,5,6-Tetrachlorophenol	ND	0.034	EPA 8270E	7-15-21	7-15-21	
2,3,4,6-Tetrachlorophenol	ND	0.034	EPA 8270E	7-15-21	7-15-21	
Diethylphthalate	ND	0.17	EPA 8270E	7-15-21	7-15-21	
4-Chlorophenyl-phenylether	ND	0.034	EPA 8270E	7-15-21	7-15-21	
4-Nitroaniline	ND	0.034	EPA 8270E	7-15-21	7-15-21	
Fluorene	ND	0.0068	EPA 8270E/SIM	7-15-21	7-15-21	
4,6-Dinitro-2-methylphenol	ND	0.17	EPA 8270E	7-15-21	7-15-21	
n-Nitrosodiphenylamine	ND	0.034	EPA 8270E	7-15-21	7-15-21	
1,2-Diphenylhydrazine	ND	0.034	EPA 8270E	7-15-21	7-15-21	
4-Bromophenyl-phenylether	ND	0.034	EPA 8270E	7-15-21	7-15-21	
Hexachlorobenzene	ND	0.034	EPA 8270E	7-15-21	7-15-21	
Pentachlorophenol	ND	0.17	EPA 8270E	7-15-21	7-15-21	
Phenanthrene	ND	0.0068	EPA 8270E/SIM	7-15-21	7-15-21	
Anthracene	ND	0.0068	EPA 8270E/SIM	7-15-21	7-15-21	
Carbazole	ND	0.034	EPA 8270E	7-15-21	7-15-21	
Di-n-butylphthalate	ND	0.17	EPA 8270E	7-15-21	7-15-21	
Fluoranthene	0.031	0.0068	EPA 8270E/SIM	7-15-21	7-15-21	
Pyrene	0.023	0.0068	EPA 8270E/SIM	7-15-21	7-15-21	
Butylbenzylphthalate	ND	0.17	EPA 8270E	7-15-21	7-15-21	
bis(2-Ethylhexyl)adipate	ND	0.17	EPA 8270E	7-15-21	7-15-21	
3,3'-Dichlorobenzidine	ND	0.17	EPA 8270E	7-15-21	7-15-21	
Benzo[a]anthracene	ND	0.0068	EPA 8270E/SIM	7-15-21	7-15-21	
Chrysene	0.0081	0.0068	EPA 8270E/SIM	7-15-21	7-15-21	
bis(2-Ethylhexyl)phthalate	ND	0.17	EPA 8270E	7-15-21	7-15-21	
Di-n-octylphthalate	ND	0.17	EPA 8270E	7-15-21	7-15-21	
Benzo[b]fluoranthene	0.0084	0.0068	EPA 8270E/SIM	7-15-21	7-15-21	
Benzo(j,k)fluoranthene	ND	0.0068	EPA 8270E/SIM	7-15-21	7-15-21	
Benzo[a]pyrene	ND	0.0068	EPA 8270E/SIM	7-15-21	7-15-21	
Indeno[1,2,3-cd]pyrene	ND	0.0068	EPA 8270E/SIM	7-15-21	7-15-21	
Dibenz[a,h]anthracene	ND	0.0068	EPA 8270E/SIM	7-15-21	7-15-21	
Benzo[g,h,i]perylene	ND	0.0068	EPA 8270E/SIM	7-15-21	7-15-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
2-Fluorophenol	58	26 - 109				
Phenol-d6	72	33 - 113				
Nitrobenzene-d5	63	31 - 110				
2-Fluorobiphenyl	73	42 - 107				
2,4,6-Tribromophenol	100	42 - 123				
Terphenyl-d14	88	41 - 115				



Date of Report: July 28, 2021
 Samples Submitted: July 13, 2021
 Laboratory Reference: 2107-103
 Project: 6694-002-05 T700

SEMIVOLATILE ORGANICS EPA 8270E/SIM
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Matrix: Sediment
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SED-3-210713					
Laboratory ID:	07-103-03					
n-Nitrosodimethylamine	ND	0.11	EPA 8270E	7-15-21	7-15-21	
Pyridine	ND	1.1	EPA 8270E	7-15-21	7-15-21	
Phenol	ND	0.11	EPA 8270E	7-15-21	7-15-21	
Aniline	ND	0.53	EPA 8270E	7-15-21	7-15-21	
bis(2-Chloroethyl)ether	ND	0.11	EPA 8270E	7-15-21	7-15-21	
2-Chlorophenol	ND	0.11	EPA 8270E	7-15-21	7-15-21	
1,3-Dichlorobenzene	ND	0.11	EPA 8270E	7-15-21	7-15-21	
1,4-Dichlorobenzene	ND	0.11	EPA 8270E	7-15-21	7-15-21	
Benzyl alcohol	ND	0.11	EPA 8270E	7-15-21	7-15-21	
1,2-Dichlorobenzene	ND	0.11	EPA 8270E	7-15-21	7-15-21	
2-Methylphenol (o-Cresol)	ND	0.11	EPA 8270E	7-15-21	7-15-21	
bis(2-Chloroisopropyl)ether	ND	0.11	EPA 8270E	7-15-21	7-15-21	
(3+4)-Methylphenol (m,p-Cresol)	ND	0.11	EPA 8270E	7-15-21	7-15-21	
n-Nitroso-di-n-propylamine	ND	0.11	EPA 8270E	7-15-21	7-15-21	
Hexachloroethane	ND	0.11	EPA 8270E	7-15-21	7-15-21	
Nitrobenzene	ND	0.11	EPA 8270E	7-15-21	7-15-21	
Isophorone	ND	0.11	EPA 8270E	7-15-21	7-15-21	
2-Nitrophenol	ND	0.11	EPA 8270E	7-15-21	7-15-21	
2,4-Dimethylphenol	ND	0.11	EPA 8270E	7-15-21	7-15-21	
bis(2-Chloroethoxy)methane	ND	0.11	EPA 8270E	7-15-21	7-15-21	
2,4-Dichlorophenol	ND	0.11	EPA 8270E	7-15-21	7-15-21	
1,2,4-Trichlorobenzene	ND	0.11	EPA 8270E	7-15-21	7-15-21	
Naphthalene	ND	0.021	EPA 8270E/SIM	7-15-21	7-15-21	
4-Chloroaniline	ND	0.53	EPA 8270E	7-15-21	7-15-21	
Hexachlorobutadiene	ND	0.11	EPA 8270E	7-15-21	7-15-21	
4-Chloro-3-methylphenol	ND	0.11	EPA 8270E	7-15-21	7-15-21	
2-Methylnaphthalene	ND	0.021	EPA 8270E/SIM	7-15-21	7-15-21	
1-Methylnaphthalene	ND	0.021	EPA 8270E/SIM	7-15-21	7-15-21	
Hexachlorocyclopentadiene	ND	0.11	EPA 8270E	7-15-21	7-15-21	
2,4,6-Trichlorophenol	ND	0.11	EPA 8270E	7-15-21	7-15-21	
2,3-Dichloroaniline	ND	0.11	EPA 8270E	7-15-21	7-15-21	
2,4,5-Trichlorophenol	ND	0.11	EPA 8270E	7-15-21	7-15-21	
2-Chloronaphthalene	ND	0.11	EPA 8270E	7-15-21	7-15-21	
2-Nitroaniline	ND	0.11	EPA 8270E	7-15-21	7-15-21	
1,4-Dinitrobenzene	ND	0.11	EPA 8270E	7-15-21	7-15-21	
Dimethylphthalate	ND	0.11	EPA 8270E	7-15-21	7-15-21	
1,3-Dinitrobenzene	ND	0.11	EPA 8270E	7-15-21	7-15-21	
2,6-Dinitrotoluene	ND	0.11	EPA 8270E	7-15-21	7-15-21	
1,2-Dinitrobenzene	ND	0.11	EPA 8270E	7-15-21	7-15-21	
Acenaphthylene	ND	0.021	EPA 8270E/SIM	7-15-21	7-15-21	
3-Nitroaniline	ND	0.11	EPA 8270E	7-15-21	7-15-21	



Date of Report: July 28, 2021
 Samples Submitted: July 13, 2021
 Laboratory Reference: 2107-103
 Project: 6694-002-05 T700

SEMIVOLATILE ORGANICS EPA 8270E/SIM
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SED-3-210713					
Laboratory ID:	07-103-03					
2,4-Dinitrophenol	ND	0.53	EPA 8270E	7-15-21	7-15-21	
Acenaphthene	ND	0.021	EPA 8270E/SIM	7-15-21	7-15-21	
4-Nitrophenol	ND	0.11	EPA 8270E	7-15-21	7-15-21	
2,4-Dinitrotoluene	ND	0.11	EPA 8270E	7-15-21	7-15-21	
Dibenzofuran	ND	0.11	EPA 8270E	7-15-21	7-15-21	
2,3,5,6-Tetrachlorophenol	ND	0.11	EPA 8270E	7-15-21	7-15-21	
2,3,4,6-Tetrachlorophenol	ND	0.11	EPA 8270E	7-15-21	7-15-21	
Diethylphthalate	ND	0.53	EPA 8270E	7-15-21	7-15-21	
4-Chlorophenyl-phenylether	ND	0.11	EPA 8270E	7-15-21	7-15-21	
4-Nitroaniline	ND	0.11	EPA 8270E	7-15-21	7-15-21	
Fluorene	ND	0.021	EPA 8270E/SIM	7-15-21	7-15-21	
4,6-Dinitro-2-methylphenol	ND	0.53	EPA 8270E	7-15-21	7-15-21	
n-Nitrosodiphenylamine	ND	0.11	EPA 8270E	7-15-21	7-15-21	
1,2-Diphenylhydrazine	ND	0.11	EPA 8270E	7-15-21	7-15-21	
4-Bromophenyl-phenylether	ND	0.11	EPA 8270E	7-15-21	7-15-21	
Hexachlorobenzene	ND	0.11	EPA 8270E	7-15-21	7-15-21	
Pentachlorophenol	ND	0.53	EPA 8270E	7-15-21	7-15-21	
Phenanthrene	ND	0.021	EPA 8270E/SIM	7-15-21	7-15-21	
Anthracene	ND	0.021	EPA 8270E/SIM	7-15-21	7-15-21	
Carbazole	ND	0.11	EPA 8270E	7-15-21	7-15-21	
Di-n-butylphthalate	ND	0.53	EPA 8270E	7-15-21	7-15-21	
Fluoranthene	ND	0.021	EPA 8270E/SIM	7-15-21	7-15-21	
Pyrene	ND	0.021	EPA 8270E/SIM	7-15-21	7-15-21	
Butylbenzylphthalate	ND	0.53	EPA 8270E	7-15-21	7-15-21	
bis-2-Ethylhexyladipate	ND	0.53	EPA 8270E	7-15-21	7-15-21	
3,3'-Dichlorobenzidine	ND	0.53	EPA 8270E	7-15-21	7-15-21	
Benzo[a]anthracene	ND	0.021	EPA 8270E/SIM	7-15-21	7-15-21	
Chrysene	ND	0.021	EPA 8270E/SIM	7-15-21	7-15-21	
bis(2-Ethylhexyl)phthalate	ND	0.53	EPA 8270E	7-15-21	7-15-21	
Di-n-octylphthalate	ND	0.53	EPA 8270E	7-15-21	7-15-21	
Benzo[b]fluoranthene	ND	0.021	EPA 8270E/SIM	7-15-21	7-15-21	
Benzo(j,k)fluoranthene	ND	0.021	EPA 8270E/SIM	7-15-21	7-15-21	
Benzo[a]pyrene	ND	0.021	EPA 8270E/SIM	7-15-21	7-15-21	
Indeno[1,2,3-cd]pyrene	ND	0.021	EPA 8270E/SIM	7-15-21	7-15-21	
Dibenz[a,h]anthracene	ND	0.021	EPA 8270E/SIM	7-15-21	7-15-21	
Benzo[g,h,i]perylene	ND	0.021	EPA 8270E/SIM	7-15-21	7-15-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
2-Fluorophenol	60	26 - 109				
Phenol-d6	72	33 - 113				
Nitrobenzene-d5	63	31 - 110				
2-Fluorobiphenyl	63	42 - 107				
2,4,6-Tribromophenol	86	42 - 123				
Terphenyl-d14	68	41 - 115				



Date of Report: July 28, 2021
 Samples Submitted: July 13, 2021
 Laboratory Reference: 2107-103
 Project: 6694-002-05 T700

PCBs EPA 8082A

Matrix: Sediment
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SED-1-210713					
Laboratory ID:	07-103-01					
Aroclor 1016	ND	0.11	EPA 8082A	7-14-21	7-15-21	
Aroclor 1221	ND	0.11	EPA 8082A	7-14-21	7-15-21	
Aroclor 1232	ND	0.11	EPA 8082A	7-14-21	7-15-21	
Aroclor 1242	ND	0.11	EPA 8082A	7-14-21	7-15-21	
Aroclor 1248	ND	0.11	EPA 8082A	7-14-21	7-15-21	
Aroclor 1254	ND	0.11	EPA 8082A	7-14-21	7-15-21	
Aroclor 1260	ND	0.11	EPA 8082A	7-14-21	7-15-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
DCB	78	54-135				
Client ID:	SED-2-210713					
Laboratory ID:	07-103-02					
Aroclor 1016	ND	0.085	EPA 8082A	7-14-21	7-15-21	
Aroclor 1221	ND	0.085	EPA 8082A	7-14-21	7-15-21	
Aroclor 1232	ND	0.085	EPA 8082A	7-14-21	7-15-21	
Aroclor 1242	ND	0.085	EPA 8082A	7-14-21	7-15-21	
Aroclor 1248	ND	0.085	EPA 8082A	7-14-21	7-15-21	
Aroclor 1254	ND	0.085	EPA 8082A	7-14-21	7-15-21	
Aroclor 1260	ND	0.085	EPA 8082A	7-14-21	7-15-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
DCB	89	54-135				
Client ID:	SED-3-210713					
Laboratory ID:	07-103-03					
Aroclor 1016	ND	0.26	EPA 8082A	7-14-21	7-15-21	
Aroclor 1221	ND	0.26	EPA 8082A	7-14-21	7-15-21	
Aroclor 1232	ND	0.26	EPA 8082A	7-14-21	7-15-21	
Aroclor 1242	ND	0.26	EPA 8082A	7-14-21	7-15-21	
Aroclor 1248	ND	0.26	EPA 8082A	7-14-21	7-15-21	
Aroclor 1254	ND	0.26	EPA 8082A	7-14-21	7-15-21	
Aroclor 1260	ND	0.26	EPA 8082A	7-14-21	7-15-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
DCB	68	54-135				



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 Project: 6694-002-05 T700

**ORGANOCHLORINE
 PESTICIDES EPA 8081B**

Matrix: Sediment
 Units: ug/Kg (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SED-1-210713					
Laboratory ID:	07-103-01					
alpha-BHC	ND	11	EPA 8081B	7-14-21	7-22-21	
gamma-BHC (Lindane)	ND	11	EPA 8081B	7-14-21	7-22-21	
beta-BHC	ND	11	EPA 8081B	7-14-21	7-22-21	
delta-BHC	ND	11	EPA 8081B	7-14-21	7-22-21	
Heptachlor	ND	11	EPA 8081B	7-14-21	7-22-21	
Aldrin	ND	11	EPA 8081B	7-14-21	7-22-21	
Heptachlor Epoxide	ND	11	EPA 8081B	7-14-21	7-22-21	
gamma-Chlordane	ND	11	EPA 8081B	7-14-21	7-22-21	
alpha-Chlordane	ND	22	EPA 8081B	7-14-21	7-22-21	
4,4'-DDE	ND	22	EPA 8081B	7-14-21	7-22-21	
Endosulfan I	ND	11	EPA 8081B	7-14-21	7-22-21	
Dieldrin	ND	22	EPA 8081B	7-14-21	7-22-21	
Endrin	ND	11	EPA 8081B	7-14-21	7-22-21	
4,4'-DDD	ND	22	EPA 8081B	7-14-21	7-22-21	
Endosulfan II	ND	22	EPA 8081B	7-14-21	7-22-21	
4,4'-DDT	ND	22	EPA 8081B	7-14-21	7-22-21	
Endrin Aldehyde	ND	22	EPA 8081B	7-14-21	7-22-21	
Methoxychlor	ND	22	EPA 8081B	7-14-21	7-22-21	
Endosulfan Sulfate	ND	22	EPA 8081B	7-14-21	7-22-21	
Endrin Ketone	ND	22	EPA 8081B	7-14-21	7-22-21	
Toxaphene	ND	110	EPA 8081B	7-14-21	7-22-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
TCMX	67	30-110				
DCB	79	40-117				



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**ORGANOCHLORINE
 PESTICIDES EPA 8081B**

Matrix: Sediment
 Units: ug/Kg (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SED-2-210713					
Laboratory ID:	07-103-02					
alpha-BHC	ND	8.5	EPA 8081B	7-14-21	7-22-21	
gamma-BHC (Lindane)	ND	8.5	EPA 8081B	7-14-21	7-22-21	
beta-BHC	ND	8.5	EPA 8081B	7-14-21	7-22-21	
delta-BHC	ND	8.5	EPA 8081B	7-14-21	7-22-21	
Heptachlor	ND	8.5	EPA 8081B	7-14-21	7-22-21	
Aldrin	ND	8.5	EPA 8081B	7-14-21	7-22-21	
Heptachlor Epoxide	ND	8.5	EPA 8081B	7-14-21	7-22-21	
gamma-Chlordane	ND	8.5	EPA 8081B	7-14-21	7-22-21	
alpha-Chlordane	ND	17	EPA 8081B	7-14-21	7-22-21	
4,4'-DDE	ND	17	EPA 8081B	7-14-21	7-22-21	
Endosulfan I	ND	8.5	EPA 8081B	7-14-21	7-22-21	
Dieldrin	ND	17	EPA 8081B	7-14-21	7-22-21	
Endrin	ND	8.5	EPA 8081B	7-14-21	7-22-21	
4,4'-DDD	ND	17	EPA 8081B	7-14-21	7-22-21	
Endosulfan II	ND	17	EPA 8081B	7-14-21	7-22-21	
4,4'-DDT	ND	17	EPA 8081B	7-14-21	7-22-21	
Endrin Aldehyde	ND	17	EPA 8081B	7-14-21	7-22-21	
Methoxychlor	ND	17	EPA 8081B	7-14-21	7-22-21	
Endosulfan Sulfate	ND	17	EPA 8081B	7-14-21	7-22-21	
Endrin Ketone	ND	17	EPA 8081B	7-14-21	7-22-21	
Toxaphene	ND	85	EPA 8081B	7-14-21	7-22-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
TCMX	61	30-110				
DCB	76	40-117				



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**ORGANOCHLORINE
 PESTICIDES EPA 8081B**

Matrix: Sediment
 Units: ug/Kg (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SED-3-210713					
Laboratory ID:	07-103-03					
alpha-BHC	ND	26	EPA 8081B	7-14-21	7-22-21	
gamma-BHC (Lindane)	ND	26	EPA 8081B	7-14-21	7-22-21	
beta-BHC	ND	26	EPA 8081B	7-14-21	7-22-21	
delta-BHC	ND	26	EPA 8081B	7-14-21	7-22-21	
Heptachlor	1800	260	EPA 8081B	7-14-21	7-22-21	
Aldrin	ND	26	EPA 8081B	7-14-21	7-22-21	
Heptachlor Epoxide	ND	26	EPA 8081B	7-14-21	7-22-21	
gamma-Chlordane	ND	26	EPA 8081B	7-14-21	7-22-21	
alpha-Chlordane	65	53	EPA 8081B	7-14-21	7-22-21	
4,4'-DDE	ND	53	EPA 8081B	7-14-21	7-22-21	
Endosulfan I	ND	26	EPA 8081B	7-14-21	7-22-21	
Dieldrin	ND	53	EPA 8081B	7-14-21	7-22-21	
Endrin	ND	26	EPA 8081B	7-14-21	7-22-21	
4,4'-DDD	ND	53	EPA 8081B	7-14-21	7-22-21	
Endosulfan II	ND	53	EPA 8081B	7-14-21	7-22-21	
4,4'-DDT	ND	53	EPA 8081B	7-14-21	7-22-21	
Endrin Aldehyde	ND	53	EPA 8081B	7-14-21	7-22-21	
Methoxychlor	ND	53	EPA 8081B	7-14-21	7-22-21	
Endosulfan Sulfate	ND	53	EPA 8081B	7-14-21	7-22-21	
Endrin Ketone	ND	53	EPA 8081B	7-14-21	7-22-21	
Toxaphene	ND	260	EPA 8081B	7-14-21	7-22-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
TCMX	54	30-110				
DCB	62	40-117				



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**CHLORINATED ACID
 HERBICIDES EPA 8151A**

Matrix: Sediment
 Units: ug/Kg (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SED-1-210713					
Laboratory ID:	07-103-01					
Dalapon	ND	410	EPA 8151A	7-16-21	7-21-21	
Dicamba	ND	21	EPA 8151A	7-16-21	7-21-21	
MCPD	ND	5300	EPA 8151A	7-16-21	7-21-21	
MCPA	ND	5300	EPA 8151A	7-16-21	7-21-21	
Dichlorprop	ND	160	EPA 8151A	7-16-21	7-21-21	
2,4-D	ND	21	EPA 8151A	7-16-21	7-21-21	
Pentachlorophenol	ND	11	EPA 8151A	7-16-21	7-21-21	
2,4,5-TP (Silvex)	ND	21	EPA 8151A	7-16-21	7-21-21	
2,4,5-T	ND	21	EPA 8151A	7-16-21	7-21-21	
2,4-DB	ND	21	EPA 8151A	7-16-21	7-21-21	
Dinoseb	ND	21	EPA 8151A	7-16-21	7-21-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
DCAA	72	27-134				
Client ID:	SED-2-210713					
Laboratory ID:	07-103-02					
Dalapon	ND	310	EPA 8151A	7-16-21	7-21-21	
Dicamba	ND	16	EPA 8151A	7-16-21	7-21-21	
MCPD	ND	4000	EPA 8151A	7-16-21	7-21-21	
MCPA	ND	4000	EPA 8151A	7-16-21	7-21-21	
Dichlorprop	ND	120	EPA 8151A	7-16-21	7-21-21	
2,4-D	ND	16	EPA 8151A	7-16-21	7-21-21	
Pentachlorophenol	ND	8.1	EPA 8151A	7-16-21	7-21-21	
2,4,5-TP (Silvex)	ND	16	EPA 8151A	7-16-21	7-21-21	
2,4,5-T	ND	16	EPA 8151A	7-16-21	7-21-21	
2,4-DB	ND	16	EPA 8151A	7-16-21	7-21-21	
Dinoseb	ND	16	EPA 8151A	7-16-21	7-21-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
DCAA	66	27-134				



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**CHLORINATED ACID
 HERBICIDES EPA 8151A**

Matrix: Sediment
 Units: ug/Kg (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SED-3-210713					
Laboratory ID:	07-103-03					
Dalapon	ND	970	EPA 8151A	7-16-21	7-21-21	
Dicamba	ND	50	EPA 8151A	7-16-21	7-21-21	
MCPD	ND	12000	EPA 8151A	7-16-21	7-21-21	
MCPA	ND	12000	EPA 8151A	7-16-21	7-21-21	
Dichlorprop	ND	370	EPA 8151A	7-16-21	7-21-21	
2,4-D	ND	50	EPA 8151A	7-16-21	7-21-21	
Pentachlorophenol	ND	25	EPA 8151A	7-16-21	7-21-21	
2,4,5-TP (Silvex)	ND	50	EPA 8151A	7-16-21	7-21-21	
2,4,5-T	ND	50	EPA 8151A	7-16-21	7-21-21	
2,4-DB	ND	50	EPA 8151A	7-16-21	7-21-21	
Dinoseb	ND	50	EPA 8151A	7-16-21	7-21-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
DCAA	66	27-134				



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TOTAL METALS
EPA 6010D/6020B/7471B

Matrix: Sediment
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SED-1-210713					
Laboratory ID:	07-103-01					
Arsenic	ND	5.6	EPA 6010D	7-19-21	7-19-21	
Cadmium	ND	0.56	EPA 6010D	7-19-21	7-19-21	
Chromium	27	1.1	EPA 6010D	7-19-21	7-19-21	
Copper	4.4	2.2	EPA 6010D	7-19-21	7-19-21	
Iron	110000	11000	EPA 6010D	7-19-21	7-19-21	
Lead	ND	11	EPA 6010D	7-19-21	7-19-21	
Manganese	510	1.1	EPA 6010D	7-19-21	7-19-21	
Mercury	0.025	0.022	EPA 7471B	7-21-21	7-21-21	
Nickel	24	17	EPA 6010D	7-19-21	7-22-21	
Selenium	ND	0.28	EPA 6020B	7-21-21	7-21-21	
Zinc	38	17	EPA 6010D	7-19-21	7-22-21	

Client ID:	SED-2-210713					
Laboratory ID:	07-103-02					
Arsenic	ND	8.5	EPA 6010D	7-19-21	7-19-21	
Cadmium	ND	0.85	EPA 6010D	7-19-21	7-19-21	
Chromium	28	0.85	EPA 6010D	7-19-21	7-19-21	
Copper	8.4	1.7	EPA 6010D	7-19-21	7-19-21	
Iron	51000	8500	EPA 6010D	7-19-21	7-21-21	
Lead	ND	8.5	EPA 6010D	7-19-21	7-19-21	
Manganese	340	1.7	EPA 6010D	7-19-21	7-19-21	
Mercury	0.020	0.017	EPA 7471B	7-21-21	7-21-21	
Nickel	36	8.5	EPA 6010D	7-19-21	7-19-21	
Selenium	ND	0.21	EPA 6020B	7-21-21	7-21-21	
Zinc	37	8.5	EPA 6010D	7-19-21	7-19-21	



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TOTAL METALS
EPA 6010D/6020B/7471B

Matrix: Sediment
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SED-3-210713					
Laboratory ID:	07-103-03					
Arsenic	ND	13	EPA 6010D	7-19-21	7-19-21	
Cadmium	ND	1.3	EPA 6010D	7-19-21	7-19-21	
Chromium	27	2.6	EPA 6010D	7-19-21	7-19-21	
Copper	ND	5.3	EPA 6010D	7-19-21	7-19-21	
Iron	270000	26000	EPA 6010D	7-19-21	7-19-21	
Lead	ND	26	EPA 6010D	7-19-21	7-19-21	
Manganese	20000	260	EPA 6010D	7-19-21	7-19-21	
Mercury	ND	0.025	EPA 7471B	7-22-21	7-22-21	
Nickel	ND	16	EPA 6010D	7-19-21	7-19-21	
Selenium	ND	0.66	EPA 6020B	7-21-21	7-21-21	
Zinc	40	40	EPA 6010D	7-19-21	7-22-21	



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**TOTAL ORGANIC CARBON
 EPA 9060A**

Matrix: Sediment
 Units: % Carbon

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SED-1-210713					
Laboratory ID:	07-103-01					
Total Organic Carbon	2.4	0.20	EPA 9060A	7-21-21	7-21-21	
Client ID:	SED-2-210713					
Laboratory ID:	07-103-02					
Total Organic Carbon	1.2	0.21	EPA 9060A	7-21-21	7-21-21	
Client ID:	SED-3-210713					
Laboratory ID:	07-103-03					
Total Organic Carbon	6.7	0.24	EPA 9060A	7-21-21	7-21-21	



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**TOTAL SOLIDS
 SM 2540G**

Matrix: Sediment
 Units: % Solids

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SED-1-210713					
Laboratory ID:	07-103-01					
Total Solids	44	0.50	SM 2540G	7-15-21	7-16-21	
Client ID:	SED-2-210713					
Laboratory ID:	07-103-02					
Total Solids	59	0.50	SM 2540G	7-15-21	7-16-21	
Client ID:	SED-3-210713					
Laboratory ID:	07-103-03					
Total Solids	19	0.50	SM 2540G	7-15-21	7-16-21	



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DIESEL AND HEAVY OIL RANGE ORGANICS
NWTPH-Dx

Matrix: Sediment
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SED-1-210713					
Laboratory ID:	07-103-01					
Diesel Range Organics	ND	56	NWTPH-Dx	7-14-21	7-26-21	X1
Lube Oil Range Organics	ND	110	NWTPH-Dx	7-14-21	7-26-21	X1
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	<i>81</i>	<i>50-150</i>				



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**DIESEL AND HEAVY OIL RANGE ORGANICS
 NWTPH-Dx
 QUALITY CONTROL**

Matrix: Solid
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0714S2					
Diesel Range Organics	ND	25	NWTPH-Dx	7-14-21	7-14-21	
Lube Oil Range Organics	ND	50	NWTPH-Dx	7-14-21	7-14-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	93	50-150				

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	SB0714S2							
	ORIG	DUP						
Diesel Fuel #2	83.6	74.9	NA	NA	NA	NA	11	NA
<i>Surrogate:</i>								
<i>o-Terphenyl</i>				99	105	50-150		



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**SEMIVOLATILE ORGANICS EPA 8270E/SIM
 QUALITY CONTROL**

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Matrix: Solid
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0715S1					
n-Nitrosodimethylamine	ND	0.020	EPA 8270E	7-15-21	7-15-21	
Pyridine	ND	0.20	EPA 8270E	7-15-21	7-15-21	
Phenol	ND	0.020	EPA 8270E	7-15-21	7-15-21	
Aniline	ND	0.10	EPA 8270E	7-15-21	7-15-21	
bis(2-Chloroethyl)ether	ND	0.020	EPA 8270E	7-15-21	7-15-21	
2-Chlorophenol	ND	0.020	EPA 8270E	7-15-21	7-15-21	
1,3-Dichlorobenzene	ND	0.020	EPA 8270E	7-15-21	7-15-21	
1,4-Dichlorobenzene	ND	0.020	EPA 8270E	7-15-21	7-15-21	
Benzyl alcohol	ND	0.020	EPA 8270E	7-15-21	7-15-21	
1,2-Dichlorobenzene	ND	0.020	EPA 8270E	7-15-21	7-15-21	
2-Methylphenol (o-Cresol)	ND	0.020	EPA 8270E	7-15-21	7-15-21	
bis(2-Chloroisopropyl)ether	ND	0.020	EPA 8270E	7-15-21	7-15-21	
(3+4)-Methylphenol (m,p-Cresol)	ND	0.020	EPA 8270E	7-15-21	7-15-21	
n-Nitroso-di-n-propylamine	ND	0.020	EPA 8270E	7-15-21	7-15-21	
Hexachloroethane	ND	0.020	EPA 8270E	7-15-21	7-15-21	
Nitrobenzene	ND	0.020	EPA 8270E	7-15-21	7-15-21	
Isophorone	ND	0.020	EPA 8270E	7-15-21	7-15-21	
2-Nitrophenol	ND	0.020	EPA 8270E	7-15-21	7-15-21	
2,4-Dimethylphenol	ND	0.020	EPA 8270E	7-15-21	7-15-21	
bis(2-Chloroethoxy)methane	ND	0.020	EPA 8270E	7-15-21	7-15-21	
2,4-Dichlorophenol	ND	0.020	EPA 8270E	7-15-21	7-15-21	
1,2,4-Trichlorobenzene	ND	0.020	EPA 8270E	7-15-21	7-15-21	
Naphthalene	ND	0.0040	EPA 8270E/SIM	7-15-21	7-15-21	
4-Chloroaniline	ND	0.10	EPA 8270E	7-15-21	7-15-21	
Hexachlorobutadiene	ND	0.020	EPA 8270E	7-15-21	7-15-21	
4-Chloro-3-methylphenol	ND	0.020	EPA 8270E	7-15-21	7-15-21	
2-Methylnaphthalene	ND	0.0040	EPA 8270E/SIM	7-15-21	7-15-21	
1-Methylnaphthalene	ND	0.0040	EPA 8270E/SIM	7-15-21	7-15-21	
Hexachlorocyclopentadiene	ND	0.020	EPA 8270E	7-15-21	7-15-21	
2,4,6-Trichlorophenol	ND	0.020	EPA 8270E	7-15-21	7-15-21	
2,3-Dichloroaniline	ND	0.020	EPA 8270E	7-15-21	7-15-21	
2,4,5-Trichlorophenol	ND	0.020	EPA 8270E	7-15-21	7-15-21	
2-Chloronaphthalene	ND	0.020	EPA 8270E	7-15-21	7-15-21	
2-Nitroaniline	ND	0.020	EPA 8270E	7-15-21	7-15-21	
1,4-Dinitrobenzene	ND	0.020	EPA 8270E	7-15-21	7-15-21	
Dimethylphthalate	ND	0.020	EPA 8270E	7-15-21	7-15-21	
1,3-Dinitrobenzene	ND	0.020	EPA 8270E	7-15-21	7-15-21	
2,6-Dinitrotoluene	ND	0.020	EPA 8270E	7-15-21	7-15-21	
1,2-Dinitrobenzene	ND	0.020	EPA 8270E	7-15-21	7-15-21	
Acenaphthylene	ND	0.0040	EPA 8270E/SIM	7-15-21	7-15-21	
3-Nitroaniline	ND	0.020	EPA 8270E	7-15-21	7-15-21	



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**SEMIVOLATILE ORGANICS EPA 8270E/SIM
 QUALITY CONTROL**

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0715S1					
2,4-Dinitrophenol	ND	0.10	EPA 8270E	7-15-21	7-15-21	
Acenaphthene	ND	0.0040	EPA 8270E/SIM	7-15-21	7-15-21	
4-Nitrophenol	ND	0.020	EPA 8270E	7-15-21	7-15-21	
2,4-Dinitrotoluene	ND	0.020	EPA 8270E	7-15-21	7-15-21	
Dibenzofuran	ND	0.020	EPA 8270E	7-15-21	7-15-21	
2,3,5,6-Tetrachlorophenol	ND	0.020	EPA 8270E	7-15-21	7-15-21	
2,3,4,6-Tetrachlorophenol	ND	0.020	EPA 8270E	7-15-21	7-15-21	
Diethylphthalate	ND	0.10	EPA 8270E	7-15-21	7-15-21	
4-Chlorophenyl-phenylether	ND	0.020	EPA 8270E	7-15-21	7-15-21	
4-Nitroaniline	ND	0.020	EPA 8270E	7-15-21	7-15-21	
Fluorene	ND	0.0040	EPA 8270E/SIM	7-15-21	7-15-21	
4,6-Dinitro-2-methylphenol	ND	0.10	EPA 8270E	7-15-21	7-15-21	
n-Nitrosodiphenylamine	ND	0.020	EPA 8270E	7-15-21	7-15-21	
1,2-Diphenylhydrazine	ND	0.020	EPA 8270E	7-15-21	7-15-21	
4-Bromophenyl-phenylether	ND	0.020	EPA 8270E	7-15-21	7-15-21	
Hexachlorobenzene	ND	0.020	EPA 8270E	7-15-21	7-15-21	
Pentachlorophenol	ND	0.10	EPA 8270E	7-15-21	7-15-21	
Phenanthrene	ND	0.0040	EPA 8270E/SIM	7-15-21	7-15-21	
Anthracene	ND	0.0040	EPA 8270E/SIM	7-15-21	7-15-21	
Carbazole	ND	0.020	EPA 8270E	7-15-21	7-15-21	
Di-n-butylphthalate	ND	0.10	EPA 8270E	7-15-21	7-15-21	
Fluoranthene	ND	0.0040	EPA 8270E/SIM	7-15-21	7-15-21	
Pyrene	ND	0.0040	EPA 8270E/SIM	7-15-21	7-15-21	
Butylbenzylphthalate	ND	0.10	EPA 8270E	7-15-21	7-15-21	
bis-2-Ethylhexyladipate	ND	0.10	EPA 8270E	7-15-21	7-15-21	
3,3'-Dichlorobenzidine	ND	0.10	EPA 8270E	7-15-21	7-15-21	
Benzo[a]anthracene	ND	0.0040	EPA 8270E/SIM	7-15-21	7-15-21	
Chrysene	ND	0.0040	EPA 8270E/SIM	7-15-21	7-15-21	
bis(2-Ethylhexyl)phthalate	ND	0.10	EPA 8270E	7-15-21	7-15-21	
Di-n-octylphthalate	ND	0.10	EPA 8270E	7-15-21	7-15-21	
Benzo[b]fluoranthene	ND	0.0040	EPA 8270E/SIM	7-15-21	7-15-21	
Benzo(j,k)fluoranthene	ND	0.0040	EPA 8270E/SIM	7-15-21	7-15-21	
Benzo[a]pyrene	ND	0.0040	EPA 8270E/SIM	7-15-21	7-15-21	
Indeno[1,2,3-cd]pyrene	ND	0.0040	EPA 8270E/SIM	7-15-21	7-15-21	
Dibenz[a,h]anthracene	ND	0.0040	EPA 8270E/SIM	7-15-21	7-15-21	
Benzo[g,h,i]perylene	ND	0.0040	EPA 8270E/SIM	7-15-21	7-15-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
2-Fluorophenol	63	26 - 109				
Phenol-d6	76	33 - 113				
Nitrobenzene-d5	70	31 - 110				
2-Fluorobiphenyl	80	42 - 107				
2,4,6-Tribromophenol	100	42 - 123				
Terphenyl-d14	83	41 - 115				



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**SEMIVOLATILE ORGANICS EPA 8270E/SIM
 QUALITY CONTROL**

Matrix: Solid
 Units: mg/Kg

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB0715S1									
	SB	SBD	SB	SBD	SB	SBD				
Phenol	0.550	0.581	0.800	0.800	69	73	47 - 106	5	30	
2-Chlorophenol	0.542	0.560	0.800	0.800	68	70	51 - 105	3	31	
1,4-Dichlorobenzene	0.256	0.269	0.400	0.400	64	67	49 - 101	5	33	
n-Nitroso-di-n-propylamine	0.266	0.288	0.400	0.400	67	72	50 - 105	8	26	
1,2,4-Trichlorobenzene	0.273	0.292	0.400	0.400	68	73	50 - 107	7	31	
4-Chloro-3-methylphenol	0.618	0.644	0.800	0.800	77	81	58 - 114	4	22	
Acenaphthene	0.265	0.273	0.400	0.400	66	68	52 - 102	3	22	
4-Nitrophenol	0.694	0.730	0.800	0.800	87	91	51 - 126	5	20	
2,4-Dinitrotoluene	0.322	0.353	0.400	0.400	81	88	54 - 108	9	19	
Pentachlorophenol	0.802	0.798	0.800	0.800	100	100	20 - 148	1	30	
Pyrene	0.290	0.306	0.400	0.400	73	77	55 - 112	5	19	
<i>Surrogate:</i>										
2-Fluorophenol					67	69	26 - 109			
Phenol-d6					78	79	33 - 113			
Nitrobenzene-d5					71	75	31 - 110			
2-Fluorobiphenyl					78	78	42 - 107			
2,4,6-Tribromophenol					96	101	42 - 123			
Terphenyl-d14					80	85	41 - 115			



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**PCBs EPA 8082A
 QUALITY CONTROL**

Matrix: Solid
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0714S2					
Aroclor 1016	ND	0.050	EPA 8082A	7-14-21	7-14-21	
Aroclor 1221	ND	0.050	EPA 8082A	7-14-21	7-14-21	
Aroclor 1232	ND	0.050	EPA 8082A	7-14-21	7-14-21	
Aroclor 1242	ND	0.050	EPA 8082A	7-14-21	7-14-21	
Aroclor 1248	ND	0.050	EPA 8082A	7-14-21	7-14-21	
Aroclor 1254	ND	0.050	EPA 8082A	7-14-21	7-14-21	
Aroclor 1260	ND	0.050	EPA 8082A	7-14-21	7-14-21	
Surrogate:	Percent Recovery	Control Limits				
DCB	76	54-135				

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS											
Laboratory ID:	SB0714S2										
	SB	SBD	SB	SBD		SB	SBD				
Aroclor 1260	0.459	0.447	0.500	0.500	N/A	92	89	65-134	3	18	
Surrogate:											
DCB						73	70	54-135			



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**ORGANOCHLORINE
 PESTICIDES EPA 8081B
 QUALITY CONTROL**

Matrix: Solid
 Units: ug/Kg (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0714S1					
alpha-BHC	ND	5.0	EPA 8081B	7-14-21	7-14-21	
gamma-BHC (Lindane)	ND	5.0	EPA 8081B	7-14-21	7-14-21	
beta-BHC	ND	5.0	EPA 8081B	7-14-21	7-14-21	
delta-BHC	ND	5.0	EPA 8081B	7-14-21	7-14-21	
Heptachlor	ND	5.0	EPA 8081B	7-14-21	7-14-21	
Aldrin	ND	5.0	EPA 8081B	7-14-21	7-14-21	
Heptachlor Epoxide	ND	5.0	EPA 8081B	7-14-21	7-14-21	
gamma-Chlordane	ND	5.0	EPA 8081B	7-14-21	7-14-21	
alpha-Chlordane	ND	10	EPA 8081B	7-14-21	7-14-21	
4,4'-DDE	ND	10	EPA 8081B	7-14-21	7-14-21	
Endosulfan I	ND	5.0	EPA 8081B	7-14-21	7-14-21	
Dieldrin	ND	10	EPA 8081B	7-14-21	7-14-21	
Endrin	ND	5.0	EPA 8081B	7-14-21	7-14-21	
4,4'-DDD	ND	10	EPA 8081B	7-14-21	7-14-21	
Endosulfan II	ND	10	EPA 8081B	7-14-21	7-14-21	
4,4'-DDT	ND	10	EPA 8081B	7-14-21	7-14-21	
Endrin Aldehyde	ND	10	EPA 8081B	7-14-21	7-14-21	
Methoxychlor	ND	10	EPA 8081B	7-14-21	7-14-21	
Endosulfan Sulfate	ND	10	EPA 8081B	7-14-21	7-14-21	
Endrin Ketone	ND	10	EPA 8081B	7-14-21	7-14-21	
Toxaphene	ND	50	EPA 8081B	7-14-21	7-14-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
TCMX	78	30-110				
DCB	74	40-117				



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**ORGANOCHLORINE
 PESTICIDES EPA 8081B
 QUALITY CONTROL**

Matrix: Solid
 Units: ug/Kg (ppb)

Analyte	Result		Spike Level		Source	Percent		Recovery	RPD	RPD	Flags
	SB	SBD	SB	SBD	Result	Recovery	Limits	Limit			
SPIKE BLANKS											
Laboratory ID:	SB0714S1										
	SB	SBD	SB	SBD		SB	SBD				
alpha-BHC	74.6	73.5	100	100	N/A	75	74	65-115	1	15	
gamma-BHC (Lindane)	74.3	73.9	100	100	N/A	74	74	69-116	1	15	
beta-BHC	72.2	72.1	100	100	N/A	72	72	63-116	0	15	
delta-BHC	75.8	74.9	100	100	N/A	76	75	66-116	1	15	
Heptachlor	81.6	80.7	100	100	N/A	82	81	63-119	1	15	
Aldrin	78.3	77.9	100	100	N/A	78	78	60-116	1	15	
Heptachlor Epoxide	73.0	72.6	100	100	N/A	73	73	65-116	1	15	
gamma-Chlordane	74.3	74.3	100	100	N/A	74	74	64-116	0	15	
alpha-Chlordane	76.9	78.9	100	100	N/A	77	79	62-119	3	15	
4,4'-DDE	92.3	82.7	100	100	N/A	92	83	69-120	11	15	
Endosulfan I	74.1	79.2	100	100	N/A	74	79	60-121	7	15	
Dieldrin	89.8	85.1	100	100	N/A	90	85	64-115	5	15	
Endrin	78.9	78.5	100	100	N/A	79	79	62-118	1	15	
4,4'-DDD	79.0	75.1	100	100	N/A	79	75	64-124	5	15	
Endosulfan II	75.9	75.1	100	100	N/A	76	75	64-115	1	15	
4,4'-DDT	92.8	88.6	100	100	N/A	93	89	57-130	5	15	
Endrin Aldehyde	77.0	75.2	100	100	N/A	77	75	57-114	2	15	
Methoxychlor	82.0	77.4	100	100	N/A	82	77	49-129	6	15	
Endosulfan Sulfate	79.1	76.0	100	100	N/A	79	76	61-115	4	15	
Endrin Ketone	73.3	72.6	100	100	N/A	73	73	64-116	1	15	
Surrogate:											
TCMX						84	82	30-110			
DCB						93	94	40-117			



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**CHLORINATED ACID
 HERBICIDES EPA 8151A
 QUALITY CONTROL**

Matrix: Solid
 Units: ug/Kg (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0716S1					
Dalapon	ND	61	EPA 8151A	7-16-21	7-19-21	
Dicamba	ND	3.1	EPA 8151A	7-16-21	7-19-21	
MCPPE	ND	310	EPA 8151A	7-16-21	7-19-21	
MCPA	ND	780	EPA 8151A	7-16-21	7-19-21	
Dichlorprop	ND	24	EPA 8151A	7-16-21	7-19-21	
2,4-D	ND	3.1	EPA 8151A	7-16-21	7-19-21	
Pentachlorophenol	ND	1.6	EPA 8151A	7-16-21	7-19-21	
2,4,5-TP (Silvex)	ND	3.2	EPA 8151A	7-16-21	7-19-21	
2,4,5-T	ND	3.2	EPA 8151A	7-16-21	7-19-21	
2,4-DB	ND	3.2	EPA 8151A	7-16-21	7-19-21	
Dinoseb	ND	3.2	EPA 8151A	7-16-21	7-19-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
DCAA	74	27-134				

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS								
Laboratory ID:	SB0716S1							
	SB	SBD	SB	SBD	SB	SBD		
Dalapon	268	463	1250	1250	N/A	21	37	10-68 53 38 L
Dicamba	212	207	250	250	N/A	85	83	52-101 2 18
MCPPE	17600	17600	25000	25000	N/A	70	70	63-105 0 21
MCPA	19100	18200	25000	25000	N/A	76	73	45-107 5 21
Dichlorprop	200	199	250	250	N/A	80	80	54-106 1 18
2,4-D	180	169	250	250	N/A	72	68	33-95 6 25
Pentachlorophenol	22.2	23.5	25.0	25.0	N/A	89	94	48-125 6 20
2,4,5-TP (Silvex)	230	227	250	250	N/A	92	91	62-115 1 17
2,4,5-T	216	207	250	250	N/A	86	83	48-108 4 21
2,4-DB	205	197	250	250	N/A	82	79	45-114 4 23
Dinoseb	230	239	250	250	N/A	92	96	51-124 4 27
<i>Surrogate:</i>								
DCAA					83	85	27-134	



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TOTAL METALS
EPA 6010D/6020B/7471B
QUALITY CONTROL

Matrix: Solid
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0719SH1					
Arsenic	ND	2.5	EPA 6010D	7-19-21	7-19-21	
Cadmium	ND	0.25	EPA 6010D	7-19-21	7-19-21	
Chromium	ND	0.50	EPA 6010D	7-19-21	7-19-21	
Copper	ND	1.0	EPA 6010D	7-19-21	7-19-21	
Iron	ND	50	EPA 6010D	7-19-21	7-19-21	
Lead	ND	5.0	EPA 6010D	7-19-21	7-19-21	
Manganese	ND	0.50	EPA 6010D	7-19-21	7-19-21	
Nickel	ND	2.5	EPA 6010D	7-19-21	7-19-21	
Zinc	ND	2.5	EPA 6010D	7-19-21	7-19-21	
Laboratory ID:	MB0721SM1					
Selenium	ND	0.13	EPA 6020B	7-21-21	7-21-21	
Laboratory ID:	MB0722S1					
Mercury	ND	0.0075	EPA 7471B	7-22-21	7-22-21	
Laboratory ID:	MB0722S1					
Mercury	ND	0.0075	EPA 7471B	7-22-21	7-22-21	



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**TOTAL METALS
 EPA 6010D/6020B/7471B
 QUALITY CONTROL**

Matrix: Solid
 Units: mg/Kg (ppm)

Analyte	Result		Spike Level		Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE										
Laboratory ID:	07-103-02									
	ORIG	DUP								
Arsenic	ND	ND	NA	NA		NA	NA	NA	20	
Cadmium	ND	ND	NA	NA		NA	NA	NA	20	
Chromium	16.4	15.8	NA	NA		NA	NA	4	20	
Copper	4.91	3.24	NA	NA		NA	NA	41	20	C
Iron	29800	31500	NA	NA		NA	NA	6	20	
Lead	ND	ND	NA	NA		NA	NA	NA	20	
Manganese	200	227	NA	NA		NA	NA	13	20	
Nickel	21.2	20.4	NA	NA		NA	NA	4	20	
Zinc	21.8	21.4	NA	NA		NA	NA	2	20	
Laboratory ID:	07-103-02									
Selenium	ND	ND	NA	NA		NA	NA	NA	20	
Laboratory ID:	07-082-16									
Mercury	0.0366	0.0419	NA	NA		NA	NA	14	20	
Laboratory ID:	07-082-16									
	ORIG	DUP								
Mercury	0.0334	0.0351	NA	NA		NA	NA	5	20	
MATRIX SPIKES										
Laboratory ID:	07-103-02									
	MS	MSD	MS	MSD		MS	MSD			
Arsenic	84.0	85.5	100	100	ND	84	86	75-125	2	20
Cadmium	42.1	43.7	50.0	50.0	ND	84	87	75-125	4	20
Chromium	98.0	98.2	100	100	16.4	82	82	75-125	0	20
Copper	46.1	47.6	50.0	50.0	4.91	82	85	75-125	3	20
Iron	30200	29000	1000	1000	29800	32	-82	75-125	4	20
Lead	203	211	250	250	ND	81	84	75-125	4	20
Manganese	214	211	25.0	25.0	200	57	44	75-125	2	20
Nickel	105	109	100	100	21.2	84	87	75-125	3	20
Zinc	104	107	100	100	21.8	83	85	75-125	2	20
Laboratory ID:	07-103-02									
Selenium	46.0	48.5	50.0	50.0	ND	92	97	75-125	5	20
Laboratory ID:	07-082-16									
Mercury	0.603	0.553	0.500	0.500	0.0366	113	103	80-120	9	20
Laboratory ID:	07-082-16									
	MS	MSD	MS	MSD		MS	MSD			
Mercury	0.523	0.524	0.500	0.500	0.0334	98	98	80-120	0	20



OnSite Environmental, Inc. 14648 NE 95th Street, Redmond, WA 98052 (425) 883-3881

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

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**TOTAL ORGANIC CARBON
 EPA 9060A
 QUALITY CONTROL**

Matrix: Sediment
 Units: % Carbon

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0721S1					
Total Organic Carbon	ND	0.042	EPA 9060A	7-21-21	7-21-21	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	07-185-02							
	ORIG	DUP						
Total Organic Carbon	0.536	0.565	NA	NA	NA	NA	5	23

SPIKE BLANK								
Laboratory ID:	SB0721S1							
	SB	SB		SB				
Total Organic Carbon	42.3	42.1	NA	100	89-111	NA	NA	



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**TOTAL SOLIDS
 SM 2540G
 QUALITY CONTROL**

Matrix: Sediment

Units: % Solids

Analyte	Result		Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE									
Laboratory ID:	07-057-01								
	ORIG	DUP							
Total Solids	63.7	74.2	NA	NA	NA	NA	15	20	



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**DIESEL AND HEAVY OIL RANGE ORGANICS
 NWTPH-Dx
 QUALITY CONTROL**

Matrix: Solid
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0714S2					
Diesel Range Organics	ND	25	NWTPH-Dx	7-14-21	7-26-21	X1
Lube Oil Range Organics	ND	50	NWTPH-Dx	7-14-21	7-26-21	X1
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	60	50-150				

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	SB0714S2							
	ORIG	DUP						
Diesel Fuel #2	63.2	58.5	NA	NA	NA	NA	8	NA X1
<i>Surrogate:</i>								
<i>o-Terphenyl</i>				83	95	50-150		



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% MOISTURE

Client ID	Lab ID	% Moisture	Date Analyzed
SED-1-210713	07-103-01	56	7-15-21
SED-2-210713	07-103-02	41	7-15-21
SED-3-210713	07-103-03	81	7-15-21

DRAFT





Data Qualifiers and Abbreviations

- A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.
 - B - The analyte indicated was also found in the blank sample.
 - C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.
 - E - The value reported exceeds the quantitation range and is an estimate.
 - F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.
 - H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.
 - I - Compound recovery is outside of the control limits.
 - J - The value reported was below the practical quantitation limit. The value is an estimate.
 - K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.
 - L - The RPD is outside of the control limits.
 - M - Hydrocarbons in the gasoline range are impacting the diesel range result.
 - M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.
 - N - Hydrocarbons in the lube oil range are impacting the diesel range result.
 - N1 - Hydrocarbons in diesel range are impacting lube oil range results.
 - O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.
 - P - The RPD of the detected concentrations between the two columns is greater than 40.
 - Q - Surrogate recovery is outside of the control limits.
 - S - Surrogate recovery data is not available due to the necessary dilution of the sample.
 - T - The sample chromatogram is not similar to a typical _____.
 - U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
 - U1 - The practical quantitation limit is elevated due to interferences present in the sample.
 - V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.
 - W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.
 - X - Sample extract treated with a mercury cleanup procedure.
 - X1 - Sample extract treated with a sulfuric acid/silica gel cleanup procedure.
 - Y - The calibration verification for this analyte exceeded the 20% drift specified in methods 8260 & 8270, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.
 - Z -
- ND - Not Detected at PQL
 PQL - Practical Quantitation Limit
 RPD - Relative Percent Difference



Project: November 2021 Surface Water Sampling Results
Go East Landfill Site, Everett, Washington

GEI File: 6694-002-05

Date: March 5, 2023

This report documents the results of a United States Environmental Protection Agency (USEPA)-defined Stage 2A data validation (USEPA Document 540-R-08-005; USEPA 2009) of analytical data from the analyses of water samples collected as part of the November 2021 sampling event, and the associated laboratory quality control (QC) samples. The samples were obtained from the Go East Landfill Site located in Everett, Washington.

OBJECTIVE AND QUALITY CONTROL ELEMENTS

GeoEngineers, Inc. (GeoEngineers) completed the data validation consistent with the USEPA Contract Laboratory Program National Functional Guidelines for Organic Superfund Data Review (USEPA 2020a) and Inorganic Superfund Data Review (USEPA 2020b) to determine if the laboratory analytical results meet the project objectives and are usable for their intended purpose. Data usability was assessed by determining if:

- The samples were analyzed using well-defined and acceptable methods that provide reporting limits below applicable regulatory criteria;
- The precision and accuracy of the data are measured by well-defined control limits to provide defensible data; and
- The quality assurance/quality control (QA/QC) procedures utilized by the laboratory meet acceptable industry practices and standards.

The data validation included review of the following QC elements:

- Data Package Completeness
- Chain-of-Custody Documentation
- Holding Times and Sample Preservation
- Method Blanks
- Surrogates
- Matrix Spikes/Matrix Spike Duplicates
- Laboratory Control Samples/Laboratory Control Sample Duplicates
- Laboratory Duplicates
- Reporting Limits

VALIDATED SAMPLE DELIVERY GROUPS

This data validation included review of the sample delivery group (SDG) listed below in Table 1.

TABLE 1: SUMMARY OF VALIDATED SAMPLE DELIVERY GROUP

2111-015	SWS-1-20211101

CHEMICAL ANALYSIS PERFORMED

OnSite Environmental, Inc. (OnSite) of Redmond, Washington, performed laboratory analysis on the water sample using the following methods:

- Gasoline-range Hydrocarbons (NWTPH-Gx) by Method NWTPH-Gx;
- Petroleum Hydrocarbons (NWTPH-Dx) by Method NWTPH-Dx;
- Volatile Organic Compounds (VOCs) by Method EPA 8260D;
- Semi-volatile Organic Compounds (SVOCs) by Method EPA 8270E (Full-scan Compound list);
- Low-level Polycyclic Aromatic Hydrocarbons (PAHs) by Method EPA 8270E/Selective Ion Monitoring (SIM);
- Polychlorinated Biphenyls (PCB) Aroclors by Method EPA 8082A;
- Organochlorine Pesticides by Method EPA 8081B;
- Chlorinated Acid Herbicides by Method EPA 8151A;
- Total and Dissolved Metals by Methods EPA 200.8, EPA 6010D, or EPA 7470A; and
- Total Organic Carbon (TOC) by Method SM5310B

DATA VALIDATION SUMMARY

The results for each of the QC elements are summarized below.

Data Package Completeness

OnSite provided the required deliverables for the data validation according to the National Functional Guidelines. The laboratory followed adequate corrective action processes and the identified anomalies were discussed in the relevant laboratory case narrative.

Chain-of-Custody Documentation

Chain-of-custody (COC) forms were provided with the laboratory analytical reports. The COCs were accurate and complete when submitted to the lab. The forms were appropriately signed and dated by both field collectors and laboratory personnel upon receipt.

Holding Times and Sample Preservation

The sample holding time is defined as the time that elapses between sample collection and sample analysis. Maximum holding time criteria exist for each analysis to help ensure that the analyte concentrations found at the time of analysis reflect the concentration present at the time of sample collection. Established holding times were met for each analysis, with the exception noted below. The sample coolers arrived at the laboratory within the appropriate temperatures of between two and six degrees Celsius.

SDG 2111-015: (Herbicides) The 7-day holding time for herbicides analysis was exceeded in Sample SWS-1-20211101. The reporting limits for the herbicides target analytes were qualified as estimated (UJ) in this sample.

Method Blanks

Method blanks are analyzed to ensure that laboratory procedures and reagents do not introduce measurable concentrations of the analytes of interest. A method blank was analyzed with each batch of samples, at a frequency of 1 per 20 samples. For each sample batch, method blanks for the applicable methods were analyzed at the required frequency. None of the analytes of interest were detected above the reporting limits in the method blanks.

Surrogate Recoveries

A surrogate compound is a compound that is chemically similar to the organic analytes of interest, but unlikely to be found in an environmental sample. Surrogates are used for organic analyses and are added to the samples, standards, and blanks to serve as an accuracy and specificity check of each analysis. The surrogates are added to the samples at a known concentration and percent recoveries are calculated following analysis. The surrogate percent recoveries for field samples were within the laboratory control limits.

Matrix Spikes/Matrix Spike Duplicates

Since the actual analyte concentration in an environmental sample is not known, the accuracy of a particular analysis is usually inferred by performing a matrix spike (MS) analysis on one sample from the associated batch, known as the parent sample. One aliquot of the sample is analyzed in the normal manner and then a second aliquot of the sample is spiked with a known amount of analyte concentration and analyzed. From these analyses, a percent recovery is calculated. Matrix spike duplicate (MSD) analyses are generally performed for organic analyses as a precision check and analyzed in the same sequence as a matrix spike. Using the result values from the MS and MSD, the relative percent difference (RPD) is calculated. The percent recovery control limits for MS and MSD analyses are specified in the laboratory documents, as are the RPD control limits for MS/MSD sample sets.

For inorganic methods, the matrix spike is followed by a post-digestion spike sample if an element percent recovery was outside the control limits in the matrix spike. The percent recovery control limits for matrix spikes are 75% to 125%.

One MS/MSD analysis should be performed for every analytical batch or every 20 field samples, whichever is more frequent. The frequency requirements were met for each analysis and the percent recovery and RPD values were within the proper control limits.

Laboratory Control Samples/Laboratory Control Sample Duplicates

A Laboratory Control Sample (LCS) is a blank sample that is spiked with a known amount of analyte and then analyzed. An LCS is similar to an MS, but without the possibility of matrix interference. Given that matrix interference is not an issue, control limits for accuracy and precision in the LCS and its duplicate (LCSD) are usually more rigorous than for MS/MSD analyses. Additionally, data qualification based on LCS/LCSD analyses would apply to each sample in the associated batch, instead of just the parent sample. The percent recovery control limits for LCS and LCSD analyses are specified in the laboratory documents, as are the RPD control limits for LCS/LCSD sample sets.

One LCS/LCSD analysis should be performed for every analytical batch or every 20 field samples, whichever is more frequent. The frequency requirements were met for each analysis and the percent recovery and RPD values were within the proper control limits, with the following exceptions:

SDG 2111-015: (Herbicides) The percent recoveries for dalapon were less than the control limits in the LCS/LCSD extracted on 11/14/2021. The reporting limit for dalapon was qualified as estimated (UJ) in Sample SWS-1-20211101.

Laboratory Duplicates

Internal laboratory duplicate analyses are performed to monitor the precision of the analyses. Two separate aliquots of a sample are analyzed as distinct samples in the laboratory and the RPD between the two results is calculated. Duplicate analyses should be performed once per analytical batch. If one or more of the samples used has a concentration less than five times the reporting limit for that sample, the absolute difference is used instead of the RPD. For organic analyses, the RPD control limits are specified in the laboratory documents. For inorganic analyses, the RPD control limit for water samples is 20 percent. Laboratory duplicates were analyzed at the proper frequency and the specified acceptance criteria were met.

Reporting Limits

The contract required quantitation limits (CRQL) were met by the laboratory for the target analytes throughout this sampling event, with some exceptions where the CRQL was elevated due to required sample dilution.

OVERALL ASSESSMENT

As was determined by this data validation, the laboratory followed the specified analytical methods. Accuracy was acceptable, as demonstrated by the surrogates, LCS/LCSD, and MS/MSD percent recovery values, with the exceptions noted above. Precision was also acceptable, as demonstrated by the LCS/LCSD, MS/MSD, and laboratory duplicate RPD values.

The data are acceptable for the intended use, with the following qualifications listed below in Table 2.

TABLE 2: SUMMARY OF QUALIFIED SAMPLES

Sample ID	Analyte	Qualifier	Reason
SWS-1-20211101	Dalapon	UJ	Holding Time/LCS/LCSD Recovery
	All herbicide target analytes	UJ	Holding Time

REFERENCES

- GeoEngineers, Inc., "Interim Action Work Plan, Go East Corp Landfill Site, Everett, Washington, Ecology Agreed Order No. DE 18121 – prepared for Washington State Department of Ecology on Behalf of PG&E, LLC. GEI File No. 6694-002-03, April 23, 2020.
- U.S. Environmental Protection Agency (USEPA). "Guidance for Labeling Externally Validated Laboratory Analytical Data for Superfund Use," EPA-540-R-08-005. January 2009.
- U.S. Environmental Protection Agency (USEPA) 2020a. Contract Laboratory Program National Functional Guidelines for Organic Superfund Methods Data Review, EPA-540-R-20-005. November 2020.
- U.S. Environmental Protection Agency (USEPA) 2020b. Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Methods Data Review, EPA-542-R-20-006. November 2020.

DRAFT



14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

November 12, 2021

Garrett Leque
GeoEngineers, Inc.
554 West Bakerview Road
Bellingham, WA 98226

Re: Analytical Data for Project 6694-002-05
Laboratory Reference No. 2111-015

Dear Garrett:

Enclosed are the analytical results and associated quality control data for samples submitted on November 1, 2021.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

A handwritten signature in black ink, appearing to read "DB", with a horizontal line extending to the right.

David Baumeister
Project Manager

Enclosures



OnSite Environmental, Inc. 14648 NE 95th Street, Redmond, WA 98052 (425) 883-3881

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: November 12, 2021
Samples Submitted: November 1, 2021
Laboratory Reference: 2111-015
Project: 6694-002-05

Case Narrative

Samples were collected on November 1, 2021 and received by the laboratory on November 1, 2021. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

Chlorinated Acid Herbicides EPA 8151A Analysis

The sample was initially extracted on 11-5-21; however, the Quality Control samples were outside of the quality control limits. The sample was re-extracted on 11-14-21, six days out of hold time.

The % Recoveries for Dalapon were below the quality control limits in the spike blank and spike blank duplicate. All other quality control values were within control limits and no further action was performed.

Any other QA/QC issues associated with this extraction and analysis will be indicated with a footnote reference and discussed in detail on the Data Qualifier page.



Date of Report: November 12, 2021
Samples Submitted: November 1, 2021
Laboratory Reference: 2111-015
Project: 6694-002-05

ANALYTICAL REPORT FOR SAMPLES

Client ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
SWS-1-20211101	11-015-01	Water	11-1-21	11-1-21	

DRAFT



Date of Report: November 12, 2021
 Samples Submitted: November 1, 2021
 Laboratory Reference: 2111-015
 Project: 6694-002-05

GASOLINE RANGE ORGANICS
NWTPH-Gx

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SWS-1-20211101					
Laboratory ID:	11-015-01					
Gasoline	ND	100	NWTPH-Gx	11-2-21	11-2-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	89	66-117				



Date of Report: November 12, 2021
 Samples Submitted: November 1, 2021
 Laboratory Reference: 2111-015
 Project: 6694-002-05

DIESEL AND HEAVY OIL RANGE ORGANICS
NWTPH-Dx

Matrix: Water
 Units: mg/L (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SWS-1-20211101					
Laboratory ID:	11-015-01					
Diesel Range Organics	0.32	0.22	NWTPH-Dx	11-8-21	11-9-21	
Lube Oil Range Organics	0.31	0.22	NWTPH-Dx	11-8-21	11-9-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	89	50-150				



Date of Report: November 12, 2021
 Samples Submitted: November 1, 2021
 Laboratory Reference: 2111-015
 Project: 6694-002-05

VOLATILE ORGANICS EPA 8260D

page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SWS-1-20211101					
Laboratory ID:	11-015-01					
Dichlorodifluoromethane	ND	0.20	EPA 8260D	11-2-21	11-2-21	
Chloromethane	ND	1.0	EPA 8260D	11-2-21	11-2-21	
Vinyl Chloride	ND	0.20	EPA 8260D	11-2-21	11-2-21	
Bromomethane	ND	3.1	EPA 8260D	11-2-21	11-2-21	
Chloroethane	ND	1.0	EPA 8260D	11-2-21	11-2-21	
Trichlorofluoromethane	ND	0.20	EPA 8260D	11-2-21	11-2-21	
1,1-Dichloroethene	ND	0.20	EPA 8260D	11-2-21	11-2-21	
Acetone	ND	5.0	EPA 8260D	11-2-21	11-2-21	
Iodomethane	ND	3.0	EPA 8260D	11-2-21	11-2-21	
Carbon Disulfide	ND	0.20	EPA 8260D	11-2-21	11-2-21	
Methylene Chloride	ND	1.0	EPA 8260D	11-2-21	11-2-21	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	11-2-21	11-2-21	
Methyl t-Butyl Ether	ND	0.20	EPA 8260D	11-2-21	11-2-21	
1,1-Dichloroethane	ND	0.20	EPA 8260D	11-2-21	11-2-21	
Vinyl Acetate	ND	1.0	EPA 8260D	11-2-21	11-2-21	
2,2-Dichloropropane	ND	0.20	EPA 8260D	11-2-21	11-2-21	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	11-2-21	11-2-21	
2-Butanone	ND	5.0	EPA 8260D	11-2-21	11-2-21	
Bromochloromethane	ND	0.20	EPA 8260D	11-2-21	11-2-21	
Chloroform	ND	0.20	EPA 8260D	11-2-21	11-2-21	
1,1,1-Trichloroethane	ND	0.20	EPA 8260D	11-2-21	11-2-21	
Carbon Tetrachloride	ND	0.20	EPA 8260D	11-2-21	11-2-21	
1,1-Dichloropropene	ND	0.20	EPA 8260D	11-2-21	11-2-21	
Benzene	ND	0.20	EPA 8260D	11-2-21	11-2-21	
1,2-Dichloroethane	ND	0.35	EPA 8260D	11-2-21	11-2-21	
Trichloroethene	ND	0.20	EPA 8260D	11-2-21	11-2-21	
1,2-Dichloropropane	ND	0.20	EPA 8260D	11-2-21	11-2-21	
Dibromomethane	ND	0.20	EPA 8260D	11-2-21	11-2-21	
Bromodichloromethane	ND	0.20	EPA 8260D	11-2-21	11-2-21	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260D	11-2-21	11-2-21	
Methyl Isobutyl Ketone	ND	2.0	EPA 8260D	11-2-21	11-2-21	
Toluene	ND	1.0	EPA 8260D	11-2-21	11-2-21	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260D	11-2-21	11-2-21	



Date of Report: November 12, 2021
 Samples Submitted: November 1, 2021
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VOLATILE ORGANICS EPA 8260D
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SWS-1-20211101					
Laboratory ID:	11-015-01					
1,1,2-Trichloroethane	ND	0.20	EPA 8260D	11-2-21	11-2-21	
Tetrachloroethene	ND	0.20	EPA 8260D	11-2-21	11-2-21	
1,3-Dichloropropane	ND	0.20	EPA 8260D	11-2-21	11-2-21	
2-Hexanone	ND	2.0	EPA 8260D	11-2-21	11-2-21	
Dibromochloromethane	ND	0.20	EPA 8260D	11-2-21	11-2-21	
1,2-Dibromoethane	ND	0.20	EPA 8260D	11-2-21	11-2-21	
Chlorobenzene	ND	0.20	EPA 8260D	11-2-21	11-2-21	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260D	11-2-21	11-2-21	
Ethylbenzene	ND	0.20	EPA 8260D	11-2-21	11-2-21	
m,p-Xylene	ND	0.40	EPA 8260D	11-2-21	11-2-21	
o-Xylene	ND	0.20	EPA 8260D	11-2-21	11-2-21	
Styrene	ND	0.20	EPA 8260D	11-2-21	11-2-21	
Bromoform	ND	1.0	EPA 8260D	11-2-21	11-2-21	
Isopropylbenzene	ND	0.20	EPA 8260D	11-2-21	11-2-21	
Bromobenzene	ND	0.20	EPA 8260D	11-2-21	11-2-21	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260D	11-2-21	11-2-21	
1,2,3-Trichloropropane	ND	0.20	EPA 8260D	11-2-21	11-2-21	
n-Propylbenzene	ND	0.20	EPA 8260D	11-2-21	11-2-21	
2-Chlorotoluene	ND	0.20	EPA 8260D	11-2-21	11-2-21	
4-Chlorotoluene	ND	0.20	EPA 8260D	11-2-21	11-2-21	
1,3,5-Trimethylbenzene	ND	0.20	EPA 8260D	11-2-21	11-2-21	
tert-Butylbenzene	ND	0.20	EPA 8260D	11-2-21	11-2-21	
1,2,4-Trimethylbenzene	ND	0.20	EPA 8260D	11-2-21	11-2-21	
sec-Butylbenzene	ND	0.20	EPA 8260D	11-2-21	11-2-21	
1,3-Dichlorobenzene	ND	0.20	EPA 8260D	11-2-21	11-2-21	
p-Isopropyltoluene	ND	0.20	EPA 8260D	11-2-21	11-2-21	
1,4-Dichlorobenzene	ND	0.20	EPA 8260D	11-2-21	11-2-21	
1,2-Dichlorobenzene	ND	0.20	EPA 8260D	11-2-21	11-2-21	
n-Butylbenzene	ND	0.20	EPA 8260D	11-2-21	11-2-21	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260D	11-2-21	11-2-21	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260D	11-2-21	11-2-21	
Hexachlorobutadiene	ND	1.0	EPA 8260D	11-2-21	11-2-21	
Naphthalene	ND	1.3	EPA 8260D	11-2-21	11-2-21	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260D	11-2-21	11-2-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>95</i>	<i>75-127</i>				
<i>Toluene-d8</i>	<i>100</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>97</i>	<i>78-125</i>				



Date of Report: November 12, 2021
 Samples Submitted: November 1, 2021
 Laboratory Reference: 2111-015
 Project: 6694-002-05

SEMIVOLATILE ORGANICS EPA 8270E/SIM
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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SWS-1-20211101					
Laboratory ID:	11-015-01					
n-Nitrosodimethylamine	ND	1.0	EPA 8270E	11-2-21	11-3-21	
Pyridine	ND	1.0	EPA 8270E	11-2-21	11-3-21	
Phenol	ND	1.0	EPA 8270E	11-2-21	11-3-21	
Aniline	ND	5.2	EPA 8270E	11-2-21	11-3-21	
bis(2-Chloroethyl)ether	ND	1.0	EPA 8270E	11-2-21	11-3-21	
2-Chlorophenol	ND	1.0	EPA 8270E	11-2-21	11-3-21	
1,3-Dichlorobenzene	ND	1.0	EPA 8270E	11-2-21	11-3-21	
1,4-Dichlorobenzene	ND	1.0	EPA 8270E	11-2-21	11-3-21	
Benzyl alcohol	ND	1.0	EPA 8270E	11-2-21	11-3-21	
1,2-Dichlorobenzene	ND	1.0	EPA 8270E	11-2-21	11-3-21	
2-Methylphenol (o-Cresol)	ND	1.0	EPA 8270E	11-2-21	11-3-21	
bis(2-Chloroisopropyl)ether	ND	1.0	EPA 8270E	11-2-21	11-3-21	
(3+4)-Methylphenol (m,p-Cresol)	ND	1.0	EPA 8270E	11-2-21	11-3-21	
n-Nitroso-di-n-propylamine	ND	1.0	EPA 8270E	11-2-21	11-3-21	
Hexachloroethane	ND	1.0	EPA 8270E	11-2-21	11-3-21	
Nitrobenzene	ND	1.0	EPA 8270E	11-2-21	11-3-21	
Isophorone	ND	1.0	EPA 8270E	11-2-21	11-3-21	
2-Nitrophenol	ND	1.0	EPA 8270E	11-2-21	11-3-21	
2,4-Dimethylphenol	ND	1.0	EPA 8270E	11-2-21	11-3-21	
bis(2-Chloroethoxy)methane	ND	1.0	EPA 8270E	11-2-21	11-3-21	
2,4-Dichlorophenol	ND	1.0	EPA 8270E	11-2-21	11-3-21	
1,2,4-Trichlorobenzene	ND	1.0	EPA 8270E	11-2-21	11-3-21	
Naphthalene	ND	0.10	EPA 8270E/SIM	11-2-21	11-2-21	
4-Chloroaniline	ND	1.0	EPA 8270E	11-2-21	11-3-21	
Hexachlorobutadiene	ND	1.0	EPA 8270E	11-2-21	11-3-21	
4-Chloro-3-methylphenol	ND	1.0	EPA 8270E	11-2-21	11-3-21	
2-Methylnaphthalene	ND	0.10	EPA 8270E/SIM	11-2-21	11-2-21	
1-Methylnaphthalene	ND	0.10	EPA 8270E/SIM	11-2-21	11-2-21	
Hexachlorocyclopentadiene	ND	1.0	EPA 8270E	11-2-21	11-3-21	
2,4,6-Trichlorophenol	ND	1.0	EPA 8270E	11-2-21	11-3-21	
2,3-Dichloroaniline	ND	1.0	EPA 8270E	11-2-21	11-3-21	
2,4,5-Trichlorophenol	ND	1.0	EPA 8270E	11-2-21	11-3-21	
2-Chloronaphthalene	ND	1.0	EPA 8270E	11-2-21	11-3-21	
2-Nitroaniline	ND	1.0	EPA 8270E	11-2-21	11-3-21	
1,4-Dinitrobenzene	ND	1.0	EPA 8270E	11-2-21	11-3-21	
Dimethylphthalate	ND	5.2	EPA 8270E	11-2-21	11-3-21	
1,3-Dinitrobenzene	ND	1.0	EPA 8270E	11-2-21	11-3-21	
2,6-Dinitrotoluene	ND	1.0	EPA 8270E	11-2-21	11-3-21	
1,2-Dinitrobenzene	ND	1.0	EPA 8270E	11-2-21	11-3-21	
Acenaphthylene	ND	0.10	EPA 8270E/SIM	11-2-21	11-2-21	
3-Nitroaniline	ND	1.0	EPA 8270E	11-2-21	11-3-21	



Date of Report: November 12, 2021
 Samples Submitted: November 1, 2021
 Laboratory Reference: 2111-015
 Project: 6694-002-05

SEMIVOLATILE ORGANICS EPA 8270E/SIM
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SWS-1-20211101					
Laboratory ID:	11-015-01					
2,4-Dinitrophenol	ND	5.2	EPA 8270E	11-2-21	11-3-21	
Acenaphthene	1.3	1.0	EPA 8270E	11-2-21	11-3-21	
4-Nitrophenol	ND	5.2	EPA 8270E	11-2-21	11-3-21	
2,4-Dinitrotoluene	ND	1.0	EPA 8270E	11-2-21	11-3-21	
Dibenzofuran	ND	1.0	EPA 8270E	11-2-21	11-3-21	
2,3,5,6-Tetrachlorophenol	ND	1.0	EPA 8270E	11-2-21	11-3-21	
2,3,4,6-Tetrachlorophenol	ND	1.0	EPA 8270E	11-2-21	11-3-21	
Diethylphthalate	ND	1.0	EPA 8270E	11-2-21	11-3-21	
4-Chlorophenyl-phenylether	ND	1.0	EPA 8270E	11-2-21	11-3-21	
4-Nitroaniline	ND	1.0	EPA 8270E	11-2-21	11-3-21	
Fluorene	0.53	0.10	EPA 8270E/SIM	11-2-21	11-2-21	
4,6-Dinitro-2-methylphenol	ND	5.2	EPA 8270E	11-2-21	11-3-21	
n-Nitrosodiphenylamine	ND	1.0	EPA 8270E	11-2-21	11-3-21	
1,2-Diphenylhydrazine	ND	1.0	EPA 8270E	11-2-21	11-3-21	
4-Bromophenyl-phenylether	ND	1.0	EPA 8270E	11-2-21	11-3-21	
Hexachlorobenzene	ND	1.0	EPA 8270E	11-2-21	11-3-21	
Pentachlorophenol	ND	5.2	EPA 8270E	11-2-21	11-3-21	
Phenanthrene	ND	0.10	EPA 8270E/SIM	11-2-21	11-2-21	
Anthracene	0.11	0.10	EPA 8270E/SIM	11-2-21	11-2-21	
Carbazole	ND	1.0	EPA 8270E	11-2-21	11-3-21	
Di-n-butylphthalate	ND	5.2	EPA 8270E	11-2-21	11-3-21	
Fluoranthene	0.21	0.10	EPA 8270E/SIM	11-2-21	11-2-21	
Benzidine	ND	5.2	EPA 8270E	11-2-21	11-3-21	
Pyrene	0.15	0.10	EPA 8270E/SIM	11-2-21	11-2-21	
Butylbenzylphthalate	ND	1.0	EPA 8270E	11-2-21	11-3-21	
bis(2-Ethylhexyl)adipate	ND	5.2	EPA 8270E	11-2-21	11-3-21	
3,3'-Dichlorobenzidine	ND	1.0	EPA 8270E	11-2-21	11-3-21	
Benzo[a]anthracene	ND	0.010	EPA 8270E/SIM	11-2-21	11-2-21	
Chrysene	ND	0.010	EPA 8270E/SIM	11-2-21	11-2-21	
bis(2-Ethylhexyl)phthalate	ND	5.2	EPA 8270E	11-2-21	11-3-21	
Di-n-octylphthalate	ND	1.0	EPA 8270E	11-2-21	11-3-21	
Benzo[b]fluoranthene	ND	0.010	EPA 8270E/SIM	11-2-21	11-2-21	
Benzo(j,k)fluoranthene	ND	0.010	EPA 8270E/SIM	11-2-21	11-2-21	
Benzo[a]pyrene	ND	0.010	EPA 8270E/SIM	11-2-21	11-2-21	
Indeno[1,2,3-cd]pyrene	ND	0.010	EPA 8270E/SIM	11-2-21	11-2-21	
Dibenz[a,h]anthracene	ND	0.010	EPA 8270E/SIM	11-2-21	11-2-21	
Benzo[g,h,i]perylene	ND	0.010	EPA 8270E/SIM	11-2-21	11-2-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
2-Fluorophenol	43	10 - 82				
Phenol-d6	31	10 - 92				
Nitrobenzene-d5	64	32 - 105				
2-Fluorobiphenyl	71	38 - 105				
2,4,6-Tribromophenol	77	25 - 124				
Terphenyl-d14	71	42 - 116				



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PCBs EPA 8082A

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SWS-1-20211101					
Laboratory ID:	11-015-01					
Aroclor 1016	ND	0.051	EPA 8082A	11-3-21	11-10-21	
Aroclor 1221	ND	0.051	EPA 8082A	11-3-21	11-10-21	
Aroclor 1232	ND	0.051	EPA 8082A	11-3-21	11-10-21	
Aroclor 1242	ND	0.051	EPA 8082A	11-3-21	11-10-21	
Aroclor 1248	ND	0.051	EPA 8082A	11-3-21	11-10-21	
Aroclor 1254	ND	0.051	EPA 8082A	11-3-21	11-10-21	
Aroclor 1260	ND	0.051	EPA 8082A	11-3-21	11-10-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>DCB</i>	<i>104</i>	<i>42-140</i>				



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**ORGANOCHLORINE
 PESTICIDES EPA 8081B**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SWS-1-20211101					
Laboratory ID:	11-015-01					
alpha-BHC	ND	0.0051	EPA 8081B	11-3-21	11-3-21	
gamma-BHC (Lindane)	ND	0.0051	EPA 8081B	11-3-21	11-3-21	
beta-BHC	ND	0.0051	EPA 8081B	11-3-21	11-3-21	
delta-BHC	ND	0.0051	EPA 8081B	11-3-21	11-3-21	
Heptachlor	ND	0.0051	EPA 8081B	11-3-21	11-3-21	
Aldrin	ND	0.0021	EPA 8081B	11-3-21	11-3-21	
Heptachlor Epoxide	ND	0.0031	EPA 8081B	11-3-21	11-3-21	
gamma-Chlordane	ND	0.0051	EPA 8081B	11-3-21	11-3-21	
alpha-Chlordane	ND	0.0051	EPA 8081B	11-3-21	11-3-21	
4,4'-DDE	ND	0.0051	EPA 8081B	11-3-21	11-3-21	
Endosulfan I	ND	0.0051	EPA 8081B	11-3-21	11-3-21	
Dieldrin	ND	0.0051	EPA 8081B	11-3-21	11-3-21	
Endrin	ND	0.0051	EPA 8081B	11-3-21	11-3-21	
4,4'-DDD	ND	0.0051	EPA 8081B	11-3-21	11-3-21	
Endosulfan II	ND	0.0051	EPA 8081B	11-3-21	11-3-21	
4,4'-DDT	ND	0.0051	EPA 8081B	11-3-21	11-3-21	
Endrin Aldehyde	ND	0.0051	EPA 8081B	11-3-21	11-3-21	
Methoxychlor	ND	0.010	EPA 8081B	11-3-21	11-3-21	
Endosulfan Sulfate	ND	0.0051	EPA 8081B	11-3-21	11-3-21	
Endrin Ketone	ND	0.021	EPA 8081B	11-3-21	11-3-21	
Toxaphene	ND	0.051	EPA 8081B	11-3-21	11-3-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
TCMX	59	25-114				
DCB	82	30-137				



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**CHLORINATED ACID
 HERBICIDES EPA 8151A**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SWS-1-20211101					
Laboratory ID:	11-015-01					
Dalapon	ND	0.44	EPA 8151A	11-14-21	11-15-21	
Dicamba	ND	0.045	EPA 8151A	11-14-21	11-15-21	
MCPP	ND	8.9	EPA 8151A	11-14-21	11-15-21	
MCPA	ND	22	EPA 8151A	11-14-21	11-15-21	
Dichlorprop	ND	0.045	EPA 8151A	11-14-21	11-15-21	
2,4-D	ND	0.089	EPA 8151A	11-14-21	11-15-21	
Pentachlorophenol	ND	0.0090	EPA 8151A	11-14-21	11-15-21	
2,4,5-TP (Silvex)	ND	0.045	EPA 8151A	11-14-21	11-15-21	
2,4,5-T	ND	0.068	EPA 8151A	11-14-21	11-15-21	
2,4-DB	ND	0.068	EPA 8151A	11-14-21	11-15-21	
Dinoseb	ND	0.045	EPA 8151A	11-14-21	11-15-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
DCAA	71	32-129				



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TOTAL METALS
EPA 200.8/6010D/7470A

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SWS-1-20211101					
Laboratory ID:	11-015-01					
Arsenic	ND	3.3	EPA 200.8	11-3-21	11-3-21	
Cadmium	ND	4.4	EPA 200.8	11-3-21	11-3-21	
Chromium	ND	11	EPA 200.8	11-3-21	11-3-21	
Copper	ND	11	EPA 200.8	11-3-21	11-3-21	
Iron	11000	50	EPA 6010D	11-4-21	11-4-21	
Lead	ND	1.1	EPA 200.8	11-3-21	11-3-21	
Manganese	1500	10	EPA 6010D	11-4-21	11-4-21	
Mercury	ND	0.025	EPA 7470A	11-11-21	11-11-21	
Nickel	ND	22	EPA 200.8	11-3-21	11-3-21	
Selenium	ND	5.6	EPA 200.8	11-3-21	11-3-21	
Zinc	ND	28	EPA 200.8	11-3-21	11-3-21	



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DISSOLVED METALS
EPA 200.8/6010D/7470A

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SWS-1-20211101					
Laboratory ID:	11-015-01					
Arsenic	ND	3.0	EPA 200.8	11-1-21	11-3-21	
Cadmium	ND	4.0	EPA 200.8	11-1-21	11-3-21	
Chromium	ND	10	EPA 200.8	11-1-21	11-3-21	
Copper	ND	10	EPA 200.8	11-1-21	11-3-21	
Iron	2400	56	EPA 6010D	11-1-21	11-9-21	
Lead	ND	1.0	EPA 200.8	11-1-21	11-3-21	
Manganese	1300	11	EPA 6010D	11-1-21	11-9-21	
Mercury	ND	0.025	EPA 7470A	11-1-21	11-11-21	
Nickel	ND	20	EPA 200.8	11-1-21	11-3-21	
Selenium	ND	5.0	EPA 200.8	11-1-21	11-3-21	
Zinc	ND	25	EPA 200.8	11-1-21	11-3-21	



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**TOTAL ORGANIC CARBON
SM 5310B**

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SWS-1-20211101					
Laboratory ID:	11-015-01					
Total Organic Carbon	11	1.0	SM 5310B	11-4-21	11-4-21	



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**GASOLINE RANGE ORGANICS
 NWTPH-Gx
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1102W1					
Gasoline	ND	100	NWTPH-Gx	11-2-21	11-2-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
Fluorobenzene	89	66-117				

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	11-014-01							
	ORIG	DUP						
Gasoline	ND	ND	NA	NA	NA	NA	30	
<i>Surrogate:</i>								
Fluorobenzene				91	92	66-117		



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 Samples Submitted: November 1, 2021
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 Project: 6694-002-05

**DIESEL AND HEAVY OIL RANGE ORGANICS
 NWTPH-Dx
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1108W1					
Diesel Range Organics	ND	0.15	NWTPH-Dx	11-8-21	11-9-21	
Lube Oil Range Organics	ND	0.15	NWTPH-Dx	11-8-21	11-9-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	103	50-150				

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	SB1108W1							
	ORIG	DUP						
Diesel Fuel #2	0.490	0.488	NA	NA	NA	NA	0	NA
<i>Surrogate:</i>								
<i>o-Terphenyl</i>				99	98	50-150		



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VOLATILE ORGANICS EPA 8260D
QUALITY CONTROL
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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1102W1					
Dichlorodifluoromethane	ND	0.20	EPA 8260D	11-2-21	11-2-21	
Chloromethane	ND	1.0	EPA 8260D	11-2-21	11-2-21	
Vinyl Chloride	ND	0.20	EPA 8260D	11-2-21	11-2-21	
Bromomethane	ND	3.1	EPA 8260D	11-2-21	11-2-21	
Chloroethane	ND	1.0	EPA 8260D	11-2-21	11-2-21	
Trichlorofluoromethane	ND	0.20	EPA 8260D	11-2-21	11-2-21	
1,1-Dichloroethene	ND	0.20	EPA 8260D	11-2-21	11-2-21	
Acetone	ND	5.0	EPA 8260D	11-2-21	11-2-21	
Iodomethane	ND	3.0	EPA 8260D	11-2-21	11-2-21	
Carbon Disulfide	ND	0.20	EPA 8260D	11-2-21	11-2-21	
Methylene Chloride	ND	1.0	EPA 8260D	11-2-21	11-2-21	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	11-2-21	11-2-21	
Methyl t-Butyl Ether	ND	0.20	EPA 8260D	11-2-21	11-2-21	
1,1-Dichloroethane	ND	0.20	EPA 8260D	11-2-21	11-2-21	
Vinyl Acetate	ND	1.0	EPA 8260D	11-2-21	11-2-21	
2,2-Dichloropropane	ND	0.20	EPA 8260D	11-2-21	11-2-21	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	11-2-21	11-2-21	
2-Butanone	ND	5.0	EPA 8260D	11-2-21	11-2-21	
Bromochloromethane	ND	0.20	EPA 8260D	11-2-21	11-2-21	
Chloroform	ND	0.20	EPA 8260D	11-2-21	11-2-21	
1,1,1-Trichloroethane	ND	0.20	EPA 8260D	11-2-21	11-2-21	
Carbon Tetrachloride	ND	0.20	EPA 8260D	11-2-21	11-2-21	
1,1-Dichloropropene	ND	0.20	EPA 8260D	11-2-21	11-2-21	
Benzene	ND	0.20	EPA 8260D	11-2-21	11-2-21	
1,2-Dichloroethane	ND	0.35	EPA 8260D	11-2-21	11-2-21	
Trichloroethene	ND	0.20	EPA 8260D	11-2-21	11-2-21	
1,2-Dichloropropane	ND	0.20	EPA 8260D	11-2-21	11-2-21	
Dibromomethane	ND	0.20	EPA 8260D	11-2-21	11-2-21	
Bromodichloromethane	ND	0.20	EPA 8260D	11-2-21	11-2-21	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260D	11-2-21	11-2-21	
Methyl Isobutyl Ketone	ND	2.0	EPA 8260D	11-2-21	11-2-21	
Toluene	ND	1.0	EPA 8260D	11-2-21	11-2-21	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260D	11-2-21	11-2-21	



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VOLATILE ORGANICS EPA 8260D
QUALITY CONTROL
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1102W1					
1,1,2-Trichloroethane	ND	0.20	EPA 8260D	11-2-21	11-2-21	
Tetrachloroethene	ND	0.20	EPA 8260D	11-2-21	11-2-21	
1,3-Dichloropropane	ND	0.20	EPA 8260D	11-2-21	11-2-21	
2-Hexanone	ND	2.0	EPA 8260D	11-2-21	11-2-21	
Dibromochloromethane	ND	0.20	EPA 8260D	11-2-21	11-2-21	
1,2-Dibromoethane	ND	0.20	EPA 8260D	11-2-21	11-2-21	
Chlorobenzene	ND	0.20	EPA 8260D	11-2-21	11-2-21	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260D	11-2-21	11-2-21	
Ethylbenzene	ND	0.20	EPA 8260D	11-2-21	11-2-21	
m,p-Xylene	ND	0.40	EPA 8260D	11-2-21	11-2-21	
o-Xylene	ND	0.20	EPA 8260D	11-2-21	11-2-21	
Styrene	ND	0.20	EPA 8260D	11-2-21	11-2-21	
Bromoform	ND	1.0	EPA 8260D	11-2-21	11-2-21	
Isopropylbenzene	ND	0.20	EPA 8260D	11-2-21	11-2-21	
Bromobenzene	ND	0.20	EPA 8260D	11-2-21	11-2-21	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260D	11-2-21	11-2-21	
1,2,3-Trichloropropane	ND	0.20	EPA 8260D	11-2-21	11-2-21	
n-Propylbenzene	ND	0.20	EPA 8260D	11-2-21	11-2-21	
2-Chlorotoluene	ND	0.20	EPA 8260D	11-2-21	11-2-21	
4-Chlorotoluene	ND	0.20	EPA 8260D	11-2-21	11-2-21	
1,3,5-Trimethylbenzene	ND	0.20	EPA 8260D	11-2-21	11-2-21	
tert-Butylbenzene	ND	0.20	EPA 8260D	11-2-21	11-2-21	
1,2,4-Trimethylbenzene	ND	0.20	EPA 8260D	11-2-21	11-2-21	
sec-Butylbenzene	ND	0.20	EPA 8260D	11-2-21	11-2-21	
1,3-Dichlorobenzene	ND	0.20	EPA 8260D	11-2-21	11-2-21	
p-Isopropyltoluene	ND	0.20	EPA 8260D	11-2-21	11-2-21	
1,4-Dichlorobenzene	ND	0.20	EPA 8260D	11-2-21	11-2-21	
1,2-Dichlorobenzene	ND	0.20	EPA 8260D	11-2-21	11-2-21	
n-Butylbenzene	ND	0.20	EPA 8260D	11-2-21	11-2-21	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260D	11-2-21	11-2-21	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260D	11-2-21	11-2-21	
Hexachlorobutadiene	ND	1.0	EPA 8260D	11-2-21	11-2-21	
Naphthalene	ND	1.3	EPA 8260D	11-2-21	11-2-21	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260D	11-2-21	11-2-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>97</i>	<i>75-127</i>				
<i>Toluene-d8</i>	<i>99</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>96</i>	<i>78-125</i>				



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**VOLATILE ORGANICS EPA 8260D
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD		Flags
					Recovery	Limits	RPD	Limit		
SPIKE BLANKS										
Laboratory ID:	SB1102W1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	10.3	10.2	10.0	10.0	103	102	78-125	1	19	
Benzene	10.1	10.1	10.0	10.0	101	101	80-119	0	16	
Trichloroethene	10.4	10.4	10.0	10.0	104	104	80-121	0	18	
Toluene	10.0	10.1	10.0	10.0	100	101	80-117	1	18	
Chlorobenzene	10.1	10.3	10.0	10.0	101	103	80-117	2	17	
<i>Surrogate:</i>										
Dibromofluoromethane					98	95	75-127			
Toluene-d8					99	99	80-127			
4-Bromofluorobenzene					98	95	78-125			



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**SEMIVOLATILE ORGANICS EPA 8270E/SIM
 QUALITY CONTROL**

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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1102W1					
n-Nitrosodimethylamine	ND	1.0	EPA 8270E	11-2-21	11-2-21	
Pyridine	ND	1.0	EPA 8270E	11-2-21	11-2-21	
Phenol	ND	1.0	EPA 8270E	11-2-21	11-2-21	
Aniline	ND	5.0	EPA 8270E	11-2-21	11-2-21	
bis(2-Chloroethyl)ether	ND	1.0	EPA 8270E	11-2-21	11-2-21	
2-Chlorophenol	ND	1.0	EPA 8270E	11-2-21	11-2-21	
1,3-Dichlorobenzene	ND	1.0	EPA 8270E	11-2-21	11-2-21	
1,4-Dichlorobenzene	ND	1.0	EPA 8270E	11-2-21	11-2-21	
Benzyl alcohol	ND	1.0	EPA 8270E	11-2-21	11-2-21	
1,2-Dichlorobenzene	ND	1.0	EPA 8270E	11-2-21	11-2-21	
2-Methylphenol (o-Cresol)	ND	1.0	EPA 8270E	11-2-21	11-2-21	
bis(2-Chloroisopropyl)ether	ND	1.0	EPA 8270E	11-2-21	11-2-21	
(3+4)-Methylphenol (m,p-Cresol)	ND	1.0	EPA 8270E	11-2-21	11-2-21	
n-Nitroso-di-n-propylamine	ND	1.0	EPA 8270E	11-2-21	11-2-21	
Hexachloroethane	ND	1.0	EPA 8270E	11-2-21	11-2-21	
Nitrobenzene	ND	1.0	EPA 8270E	11-2-21	11-2-21	
Isophorone	ND	1.0	EPA 8270E	11-2-21	11-2-21	
2-Nitrophenol	ND	1.0	EPA 8270E	11-2-21	11-2-21	
2,4-Dimethylphenol	ND	1.0	EPA 8270E	11-2-21	11-2-21	
bis(2-Chloroethoxy)methane	ND	1.0	EPA 8270E	11-2-21	11-2-21	
2,4-Dichlorophenol	ND	1.0	EPA 8270E	11-2-21	11-2-21	
1,2,4-Trichlorobenzene	ND	1.0	EPA 8270E	11-2-21	11-2-21	
Naphthalene	ND	0.10	EPA 8270E/SIM	11-2-21	11-2-21	
4-Chloroaniline	ND	1.0	EPA 8270E	11-2-21	11-2-21	
Hexachlorobutadiene	ND	1.0	EPA 8270E	11-2-21	11-2-21	
4-Chloro-3-methylphenol	ND	1.0	EPA 8270E	11-2-21	11-2-21	
2-Methylnaphthalene	ND	0.10	EPA 8270E/SIM	11-2-21	11-2-21	
1-Methylnaphthalene	ND	0.10	EPA 8270E/SIM	11-2-21	11-2-21	
Hexachlorocyclopentadiene	ND	1.0	EPA 8270E	11-2-21	11-2-21	
2,4,6-Trichlorophenol	ND	1.0	EPA 8270E	11-2-21	11-2-21	
2,3-Dichloroaniline	ND	1.0	EPA 8270E	11-2-21	11-2-21	
2,4,5-Trichlorophenol	ND	1.0	EPA 8270E	11-2-21	11-2-21	
2-Chloronaphthalene	ND	1.0	EPA 8270E	11-2-21	11-2-21	
2-Nitroaniline	ND	1.0	EPA 8270E	11-2-21	11-2-21	
1,4-Dinitrobenzene	ND	1.0	EPA 8270E	11-2-21	11-2-21	
Dimethylphthalate	ND	5.0	EPA 8270E	11-2-21	11-2-21	
1,3-Dinitrobenzene	ND	1.0	EPA 8270E	11-2-21	11-2-21	
2,6-Dinitrotoluene	ND	1.0	EPA 8270E	11-2-21	11-2-21	
1,2-Dinitrobenzene	ND	1.0	EPA 8270E	11-2-21	11-2-21	
Acenaphthylene	ND	0.10	EPA 8270E/SIM	11-2-21	11-2-21	
3-Nitroaniline	ND	1.0	EPA 8270E	11-2-21	11-2-21	



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**SEMIVOLATILE ORGANICS EPA 8270E/SIM
 QUALITY CONTROL**

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1102W1					
2,4-Dinitrophenol	ND	5.0	EPA 8270E	11-2-21	11-2-21	
Acenaphthene	ND	0.10	EPA 8270E/SIM	11-2-21	11-2-21	
4-Nitrophenol	ND	5.0	EPA 8270E	11-2-21	11-2-21	
2,4-Dinitrotoluene	ND	1.0	EPA 8270E	11-2-21	11-2-21	
Dibenzofuran	ND	1.0	EPA 8270E	11-2-21	11-2-21	
2,3,5,6-Tetrachlorophenol	ND	1.0	EPA 8270E	11-2-21	11-2-21	
2,3,4,6-Tetrachlorophenol	ND	1.0	EPA 8270E	11-2-21	11-2-21	
Diethylphthalate	ND	1.0	EPA 8270E	11-2-21	11-2-21	
4-Chlorophenyl-phenylether	ND	1.0	EPA 8270E	11-2-21	11-2-21	
4-Nitroaniline	ND	1.0	EPA 8270E	11-2-21	11-2-21	
Fluorene	ND	0.10	EPA 8270E/SIM	11-2-21	11-2-21	
4,6-Dinitro-2-methylphenol	ND	5.0	EPA 8270E	11-2-21	11-2-21	
n-Nitrosodiphenylamine	ND	1.0	EPA 8270E	11-2-21	11-2-21	
1,2-Diphenylhydrazine	ND	1.0	EPA 8270E	11-2-21	11-2-21	
4-Bromophenyl-phenylether	ND	1.0	EPA 8270E	11-2-21	11-2-21	
Hexachlorobenzene	ND	1.0	EPA 8270E	11-2-21	11-2-21	
Pentachlorophenol	ND	5.0	EPA 8270E	11-2-21	11-2-21	
Phenanthrene	ND	0.10	EPA 8270E/SIM	11-2-21	11-2-21	
Anthracene	ND	0.10	EPA 8270E/SIM	11-2-21	11-2-21	
Carbazole	ND	1.0	EPA 8270E	11-2-21	11-2-21	
Di-n-butylphthalate	ND	5.0	EPA 8270E	11-2-21	11-2-21	
Fluoranthene	ND	0.10	EPA 8270E/SIM	11-2-21	11-2-21	
Benzidine	ND	5.0	EPA 8270E	11-2-21	11-2-21	
Pyrene	ND	0.10	EPA 8270E/SIM	11-2-21	11-2-21	
Butylbenzylphthalate	ND	1.0	EPA 8270E	11-2-21	11-2-21	
bis-2-Ethylhexyladipate	ND	5.0	EPA 8270E	11-2-21	11-2-21	
3,3'-Dichlorobenzidine	ND	1.0	EPA 8270E	11-2-21	11-2-21	
Benzo[a]anthracene	ND	0.010	EPA 8270E/SIM	11-2-21	11-2-21	
Chrysene	ND	0.010	EPA 8270E/SIM	11-2-21	11-2-21	
bis(2-Ethylhexyl)phthalate	ND	5.0	EPA 8270E	11-2-21	11-2-21	
Di-n-octylphthalate	ND	1.0	EPA 8270E	11-2-21	11-2-21	
Benzo[b]fluoranthene	ND	0.010	EPA 8270E/SIM	11-2-21	11-2-21	
Benzo(j,k)fluoranthene	ND	0.010	EPA 8270E/SIM	11-2-21	11-2-21	
Benzo[a]pyrene	ND	0.010	EPA 8270E/SIM	11-2-21	11-2-21	
Indeno[1,2,3-cd]pyrene	ND	0.010	EPA 8270E/SIM	11-2-21	11-2-21	
Dibenz[a,h]anthracene	ND	0.010	EPA 8270E/SIM	11-2-21	11-2-21	
Benzo[g,h,i]perylene	ND	0.010	EPA 8270E/SIM	11-2-21	11-2-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
2-Fluorophenol	26	10 - 82				
Phenol-d6	22	10 - 92				
Nitrobenzene-d5	40	32 - 105				
2-Fluorobiphenyl	55	38 - 105				
2,4,6-Tribromophenol	80	25 - 124				
Terphenyl-d14	72	42 - 116				



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**SEMIVOLATILE ORGANICS EPA 8270E/SIM
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L

Analyte	Result		Spike Level		Source	Percent		Recovery		RPD	RPD	Limit	Flags
					Result	Recovery	Limits	RPD	Limit				
MATRIX SPIKES													
Laboratory ID:	10-289-08												
	MS	MSD	MS	MSD		MS	MSD						
Phenol	12.9	14.2	38.6	38.4	ND	33	37	20 - 108	10			24	
2-Chlorophenol	27.7	29.6	38.6	38.4	ND	72	77	24 - 105	7			32	
1,4-Dichlorobenzene	12.1	12.6	19.3	19.2	ND	63	66	24 - 100	4			36	
n-Nitroso-di-n-propylamine	14.9	16.0	19.3	19.2	ND	77	83	21 - 143	7			30	
1,2,4-Trichlorobenzene	13.1	14.4	19.3	19.2	ND	68	75	34 - 105	9			34	
4-Chloro-3-methylphenol	30.0	32.1	38.6	38.4	ND	78	84	44 - 113	7			21	
Acenaphthene	14.6	15.5	19.3	19.2	ND	76	81	47 - 106	6			19	
4-Nitrophenol	20.7	22.8	38.6	38.4	ND	54	59	20 - 127	10			37	
2,4-Dinitrotoluene	15.6	16.5	19.3	19.2	ND	81	86	45 - 106	6			19	
Pentachlorophenol	39.4	44.8	38.6	38.4	ND	102	117	20 - 136	13			39	
Pyrene	15.6	16.2	19.3	19.2	ND	81	84	47 - 112	4			23	
<i>Surrogate:</i>													
2-Fluorophenol						37	40	10 - 82					
Phenol-d6						27	30	10 - 92					
Nitrobenzene-d5						60	66	32 - 105					
2-Fluorobiphenyl						63	67	38 - 105					
2,4,6-Tribromophenol						77	85	25 - 124					
Terphenyl-d14						65	67	42 - 116					



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**PCBs EPA 8082A
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1103W1					
Aroclor 1016	ND	0.050	EPA 8082A	11-3-21	11-3-21	
Aroclor 1221	ND	0.050	EPA 8082A	11-3-21	11-3-21	
Aroclor 1232	ND	0.050	EPA 8082A	11-3-21	11-3-21	
Aroclor 1242	ND	0.050	EPA 8082A	11-3-21	11-3-21	
Aroclor 1248	ND	0.050	EPA 8082A	11-3-21	11-3-21	
Aroclor 1254	ND	0.050	EPA 8082A	11-3-21	11-3-21	
Aroclor 1260	ND	0.050	EPA 8082A	11-3-21	11-3-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
DCB	99	42-140				

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS											
Laboratory ID:	SB1103W1										
	SB	SBD	SB	SBD		SB	SBD				
Aroclor 1260	0.489	0.486	0.500	0.500	N/A	98	97	73-131	1	12	
<i>Surrogate:</i>											
DCB						112	108	42-140			



Date of Report: November 12, 2021
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 Project: 6694-002-05

**ORGANOCHLORINE
 PESTICIDES EPA 8081B
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1103W1					
alpha-BHC	ND	0.0050	EPA 8081B	11-3-21	11-3-21	
gamma-BHC (Lindane)	ND	0.0050	EPA 8081B	11-3-21	11-3-21	
beta-BHC	ND	0.0050	EPA 8081B	11-3-21	11-3-21	
delta-BHC	ND	0.0050	EPA 8081B	11-3-21	11-3-21	
Heptachlor	ND	0.0050	EPA 8081B	11-3-21	11-3-21	
Aldrin	ND	0.0020	EPA 8081B	11-3-21	11-3-21	
Heptachlor Epoxide	ND	0.0030	EPA 8081B	11-3-21	11-3-21	
gamma-Chlordane	ND	0.0050	EPA 8081B	11-3-21	11-3-21	
alpha-Chlordane	ND	0.0050	EPA 8081B	11-3-21	11-3-21	
4,4'-DDE	ND	0.0050	EPA 8081B	11-3-21	11-3-21	
Endosulfan I	ND	0.0050	EPA 8081B	11-3-21	11-3-21	
Dieldrin	ND	0.0050	EPA 8081B	11-3-21	11-3-21	
Endrin	ND	0.0050	EPA 8081B	11-3-21	11-3-21	
4,4'-DDD	ND	0.0050	EPA 8081B	11-3-21	11-3-21	
Endosulfan II	ND	0.0050	EPA 8081B	11-3-21	11-3-21	
4,4'-DDT	ND	0.0050	EPA 8081B	11-3-21	11-3-21	
Endrin Aldehyde	ND	0.0050	EPA 8081B	11-3-21	11-3-21	
Methoxychlor	ND	0.010	EPA 8081B	11-3-21	11-3-21	
Endosulfan Sulfate	ND	0.0050	EPA 8081B	11-3-21	11-3-21	
Endrin Ketone	ND	0.020	EPA 8081B	11-3-21	11-3-21	
Toxaphene	ND	0.050	EPA 8081B	11-3-21	11-3-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
TCMX	60	25-114				
DCB	91	30-137				



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 Project: 6694-002-05

**ORGANOCHLORINE
 PESTICIDES EPA 8081B
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS											
Laboratory ID:	SB1103W2										
	SB	SBD	SB	SBD		SB	SBD				
alpha-BHC	0.0736	0.0697	0.100	0.100	N/A	74	70	42-113	5	19	
gamma-BHC (Lindane)	0.0738	0.0701	0.100	0.100	N/A	74	70	45-114	5	15	
beta-BHC	0.0725	0.0683	0.100	0.100	N/A	73	68	40-118	6	15	
delta-BHC	0.0729	0.0710	0.100	0.100	N/A	73	71	20-125	3	15	
Heptachlor	0.0759	0.0719	0.100	0.100	N/A	76	72	41-120	5	16	
Aldrin	0.0707	0.0656	0.100	0.100	N/A	71	66	35-115	7	15	
Heptachlor Epoxide	0.0725	0.0687	0.100	0.100	N/A	73	69	50-118	5	15	
gamma-Chlordane	0.0666	0.0632	0.100	0.100	N/A	67	63	46-110	5	15	
alpha-Chlordane	0.0666	0.0628	0.100	0.100	N/A	67	63	38-112	6	15	
4,4'-DDE	0.0831	0.0787	0.100	0.100	N/A	83	79	41-127	5	15	
Endosulfan I	0.0737	0.0695	0.100	0.100	N/A	74	70	45-119	6	15	
Dieldrin	0.0777	0.0728	0.100	0.100	N/A	78	73	46-115	7	15	
Endrin	0.0796	0.0737	0.100	0.100	N/A	80	74	52-124	8	15	
4,4'-DDD	0.0848	0.0782	0.100	0.100	N/A	85	78	52-121	8	15	
Endosulfan II	0.0709	0.0660	0.100	0.100	N/A	71	66	44-114	7	15	
4,4'-DDT	0.0894	0.0834	0.100	0.100	N/A	89	83	48-123	7	15	
Endrin Aldehyde	0.0687	0.0643	0.100	0.100	N/A	69	64	45-114	7	15	
Methoxychlor	0.103	0.0975	0.100	0.100	N/A	103	97	49-130	5	15	
Endosulfan Sulfate	0.0712	0.0647	0.100	0.100	N/A	71	65	39-117	10	15	
Endrin Ketone	0.0748	0.0701	0.100	0.100	N/A	75	70	53-119	6	15	
Surrogate:											
TCMX						56	56	25-114			
DCB						70	83	30-137			



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**CHLORINATED ACID
 HERBICIDES EPA 8151A
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1114W1					
Dalapon	ND	0.46	EPA 8151A	11-14-21	11-15-21	
Dicamba	ND	0.047	EPA 8151A	11-14-21	11-15-21	
MCPPE	ND	9.4	EPA 8151A	11-14-21	11-15-21	
MCPA	ND	23	EPA 8151A	11-14-21	11-15-21	
Dichlorprop	ND	0.047	EPA 8151A	11-14-21	11-15-21	
2,4-D	ND	0.094	EPA 8151A	11-14-21	11-15-21	
Pentachlorophenol	ND	0.0095	EPA 8151A	11-14-21	11-15-21	
2,4,5-TP (Silvex)	ND	0.048	EPA 8151A	11-14-21	11-15-21	
2,4,5-T	ND	0.071	EPA 8151A	11-14-21	11-15-21	
2,4-DB	ND	0.071	EPA 8151A	11-14-21	11-15-21	
Dinoseb	ND	0.047	EPA 8151A	11-14-21	11-15-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
DCAA	60	32-129				

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS								
Laboratory ID:	SB1114W2							
	SB	SBD	SB	SBD	SB	SBD		
Dalapon	0.290	0.227	12.5	12.5	N/A	2	2	5-53 24 40 I,I
Dicamba	1.36	1.16	2.50	2.50	N/A	54	47	29-120 16 37
MCPPE	190	190	250	250	N/A	76	76	66-112 0 18
MCPA	177	162	250	250	N/A	71	65	49-112 9 25
Dichlorprop	1.99	1.91	2.50	2.50	N/A	80	77	52-115 4 20
2,4-D	1.62	1.37	2.50	2.50	N/A	65	55	34-110 17 29
Pentachlorophenol	0.239	0.239	0.250	0.250	N/A	96	96	47-128 0 21
2,4,5-TP (Silvex)	2.31	2.23	2.50	2.50	N/A	92	89	65-123 4 19
2,4,5-T	1.94	1.69	2.50	2.50	N/A	78	68	49-126 14 23
2,4-DB	1.85	1.72	2.50	2.50	N/A	74	69	38-139 7 23
Dinoseb	2.02	1.96	2.50	2.50	N/A	81	78	50-122 3 25
<i>Surrogate:</i>								
DCAA						85	83	32-129



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TOTAL METALS
EPA 200.8/6010D/7470A
QUALITY CONTROL

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1103WM1					
Arsenic	ND	3.3	EPA 200.8	11-3-21	11-3-21	
Cadmium	ND	4.4	EPA 200.8	11-3-21	11-3-21	
Chromium	ND	11	EPA 200.8	11-3-21	11-3-21	
Copper	ND	11	EPA 200.8	11-3-21	11-3-21	
Lead	ND	1.1	EPA 200.8	11-3-21	11-3-21	
Nickel	ND	22	EPA 200.8	11-3-21	11-3-21	
Selenium	ND	5.6	EPA 200.8	11-3-21	11-3-21	
Zinc	ND	28	EPA 200.8	11-3-21	11-3-21	
Laboratory ID:	MB1104WH1					
Iron	ND	50	EPA 6010D	11-4-21	11-4-21	
Manganese	ND	10	EPA 6010D	11-4-21	11-4-21	
Laboratory ID:	MB1111W1					
Mercury	ND	0.025	EPA 7470A	11-11-21	11-11-21	



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TOTAL METALS
EPA 200.8/6010D/7470A
QUALITY CONTROL

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result		Spike Level		Source	Percent	Recovery	RPD		Flags
	Result	Result	Result	Result	Result	Recovery	Limits	RPD	Limit	
DUPLICATE										
Laboratory ID:	10-289-08									
	ORIG	DUP								
Arsenic	4.09	4.24	NA	NA		NA	NA	4	20	
Cadmium	ND	ND	NA	NA		NA	NA	NA	20	
Chromium	ND	ND	NA	NA		NA	NA	NA	20	
Copper	ND	ND	NA	NA		NA	NA	NA	20	
Lead	ND	ND	NA	NA		NA	NA	NA	20	
Nickel	22.7	24.2	NA	NA		NA	NA	7	20	
Selenium	ND	ND	NA	NA		NA	NA	NA	20	
Zinc	ND	ND	NA	NA		NA	NA	NA	20	
DUPLICATE										
Laboratory ID:	10-282-15									
Iron	956	1010	NA	NA		NA	NA	5	20	
Manganese	262	259	NA	NA		NA	NA	1	20	
DUPLICATE										
Laboratory ID:	11-123-01									
Mercury	ND	ND	NA	NA		NA	NA	NA	20	
MATRIX SPIKES										
Laboratory ID:	10-289-08									
	MS	MSD	MS	MSD		MS	MSD			
Arsenic	112	116	111	111	4.09	97	100	75-125	3	20
Cadmium	108	108	111	111	ND	97	97	75-125	0	20
Chromium	107	108	111	111	ND	96	98	75-125	1	20
Copper	100	102	111	111	ND	90	92	75-125	2	20
Lead	107	108	111	111	ND	96	97	75-125	1	20
Nickel	121	124	111	111	22.7	89	92	75-125	3	20
Selenium	110	113	111	111	ND	99	102	75-125	3	20
Zinc	108	111	111	111	ND	97	100	75-125	3	20
MATRIX SPIKES										
Laboratory ID:	10-282-15									
Iron	23600	23900	20000	20000	956	113	115	75-125	1	20
Manganese	753	777	500	500	262	98	103	75-125	3	20
MATRIX SPIKES										
Laboratory ID:	11-123-01									
Mercury	6.50	6.40	6.25	6.25	ND	104	102	75-125	2	20



Date of Report: November 12, 2021
 Samples Submitted: November 1, 2021
 Laboratory Reference: 2111-015
 Project: 6694-002-05

**DISSOLVED METALS
 EPA 200.8/6010D/7470A
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1101F1					
Arsenic	ND	3.0	EPA 200.8	11-1-21	11-3-21	
Cadmium	ND	4.0	EPA 200.8	11-1-21	11-3-21	
Chromium	ND	10	EPA 200.8	11-1-21	11-3-21	
Copper	ND	10	EPA 200.8	11-1-21	11-3-21	
Lead	ND	1.0	EPA 200.8	11-1-21	11-3-21	
Nickel	ND	20	EPA 200.8	11-1-21	11-3-21	
Selenium	ND	5.0	EPA 200.8	11-1-21	11-3-21	
Zinc	ND	25	EPA 200.8	11-1-21	11-3-21	
METHOD BLANK						
Laboratory ID:	MB1101F1					
Iron	ND	56	EPA 6010D	11-1-21	11-9-21	
Manganese	ND	11	EPA 6010D	11-1-21	11-9-21	
METHOD BLANK						
Laboratory ID:	MB1101F1					
Mercury	ND	0.025	EPA 7470A	11-1-21	11-11-21	



Date of Report: November 12, 2021
 Samples Submitted: November 1, 2021
 Laboratory Reference: 2111-015
 Project: 6694-002-05

DISSOLVED METALS
EPA 200.8/6010D/7470A
QUALITY CONTROL

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result		Spike Level		Source	Percent	Recovery	RPD		Flags
					Result	Recovery	Limits	RPD	Limit	
DUPLICATE										
Laboratory ID:	10-289-08									
	ORIG	DUP								
Arsenic	3.46	3.80	NA	NA		NA	NA	9		20
Cadmium	ND	ND	NA	NA		NA	NA	NA		20
Chromium	ND	ND	NA	NA		NA	NA	NA		20
Copper	ND	ND	NA	NA		NA	NA	NA		20
Lead	ND	ND	NA	NA		NA	NA	NA		20
Nickel	ND	ND	NA	NA		NA	NA	NA		20
Selenium	ND	ND	NA	NA		NA	NA	NA		20
Zinc	ND	ND	NA	NA		NA	NA	NA		20
Laboratory ID:	11-015-01									
Iron	2390	2410	NA	NA		NA	NA	1		20
Manganese	1340	1350	NA	NA		NA	NA	1		20
Laboratory ID:	11-123-01									
Mercury	ND	ND	NA	NA		NA	NA	NA		20
MATRIX SPIKES										
Laboratory ID:	10-289-08									
	MS	MSD	MS	MSD		MS	MSD			
Arsenic	86.8	86.2	80.0	80.0	3.46	104	103	75-125	1	20
Cadmium	79.6	80.0	80.0	80.0	ND	100	100	75-125	1	20
Chromium	74.8	75.8	80.0	80.0	ND	94	95	75-125	1	20
Copper	74.6	74.0	80.0	80.0	ND	93	93	75-125	1	20
Lead	79.0	79.6	80.0	80.0	ND	99	100	75-125	1	20
Nickel	92.6	91.4	80.0	80.0	ND	116	114	75-125	1	20
Selenium	90.0	89.2	80.0	80.0	ND	113	112	75-125	1	20
Zinc	84.4	83.4	80.0	80.0	ND	106	104	75-125	1	20
Laboratory ID:	11-015-01									
Iron	25900	25900	22200	22200	2390	106	106	75-125	0	20
Manganese	1860	1880	556	556	1340	94	96	75-125	1	20
Laboratory ID:	11-123-01									
Mercury	6.45	6.38	6.25	6.25	ND	103	102	75-125	1	20



Date of Report: November 12, 2021
 Samples Submitted: November 1, 2021
 Laboratory Reference: 2111-015
 Project: 6694-002-05

**TOTAL ORGANIC CARBON
 SM 5310B
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1104W1					
Total Organic Carbon	ND	1.0	SM 5310B	11-4-21	11-4-21	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	11-015-01							
	ORIG	DUP						
Total Organic Carbon	11.3	11.4	NA	NA	NA	1	12	

MATRIX SPIKE								
Laboratory ID:	11-015-01							
	MS	MS		MS				
Total Organic Carbon	22.2	10.0	11.3	109	80-125	NA	NA	

SPIKE BLANK								
Laboratory ID:	SB1104W1							
	SB	SB		SB				
Total Organic Carbon	10.6	10.0	NA	106	80-119	NA	NA	





Data Qualifiers and Abbreviations

- A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.
- B - The analyte indicated was also found in the blank sample.
- C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.
- E - The value reported exceeds the quantitation range and is an estimate.
- F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.
- H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.
- I - Compound recovery is outside of the control limits.
- J - The value reported was below the practical quantitation limit. The value is an estimate.
- K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.
- L - The RPD is outside of the control limits.
- M - Hydrocarbons in the gasoline range are impacting the diesel range result.
- M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.
- N - Hydrocarbons in the lube oil range are impacting the diesel range result.
- N1 - Hydrocarbons in diesel range are impacting lube oil range results.
- O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.
- P - The RPD of the detected concentrations between the two columns is greater than 40.
- Q - Surrogate recovery is outside of the control limits.
- S - Surrogate recovery data is not available due to the necessary dilution of the sample.
- T - The sample chromatogram is not similar to a typical _____.
- U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
- U1 - The practical quantitation limit is elevated due to interferences present in the sample.
- V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.
- W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.
- X - Sample extract treated with a mercury cleanup procedure.
- X1 - Sample extract treated with a sulfuric acid/silica gel cleanup procedure.
- Y - The calibration verification for this analyte exceeded the 20% drift specified in methods 8260 & 8270, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.

Z -

ND - Not Detected at PQL
 PQL - Practical Quantitation Limit
 RPD - Relative Percent Difference



Chain of Custody

Company: **GEOTECHNICAL ENGINEERS INC**

Project Number: **0694-002-05**

Project Name: **GD EAST LANDFILL**

Project Manager: **GARRETT LEAGUE**

Sampled by: **NATHAN SALOMON**

Turnaround Request (in working days)

(Check One)

Same Day 1 Day



2 Days 3 Days

Standard (7 Days)

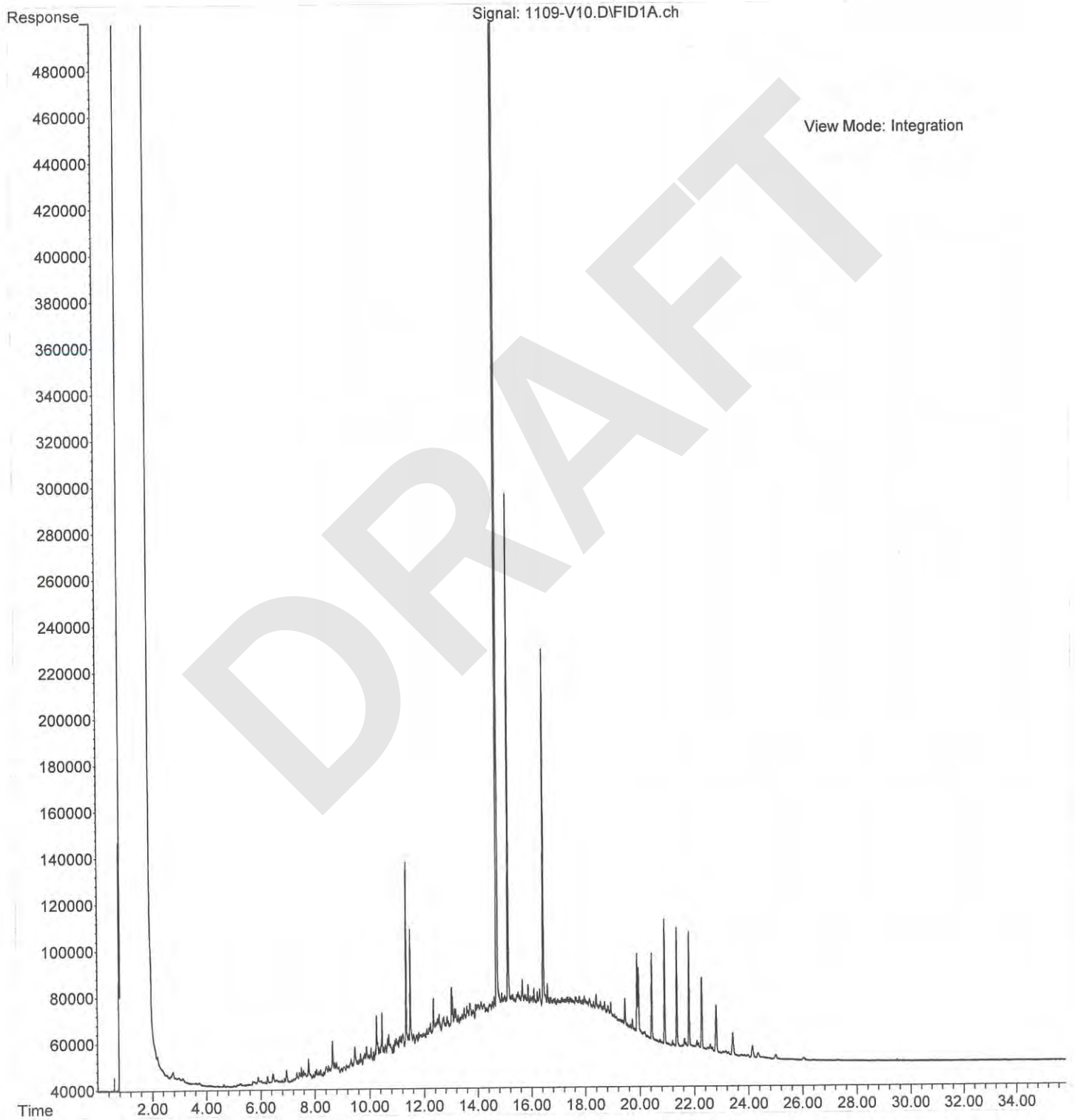
_____ (other)

Laboratory Number: **11-015**

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX	NWTPH-Gx	NWTPH-Dx (<input type="checkbox"/> Acid / SG Clean-up)	Volatiles 8260D	Halogenated Volatiles 8260D	EDB EPA 8011 (Waters Only)	Semivolatiles 8270E/SIM (with low-level PAHs)	PAHs 8270E/SIM (low-level)	PCBs 8082A	Organochlorine Pesticides 8081B	Organophosphorus Pesticides 8270E/SIM	Chlorinated Acid Herbicides 8151A	Total PCBs Metals	Total WTCAs Metals	TCP Metals	HEM (oil and grease) 1664A	% Moisture	
1	SWS-1-20211101	11.01.21	1500	Water 2l																				

	Signature	Company	Date	Time	Comments/Special Instructions
Relinquished		GEI	11.01.21	16:42	PM WILL CONTACT w/ ANALYTCS
Received		COE	11/1/21	1642	
Relinquished					
Received					
Relinquished					
Received					
Reviewed/Date		Reviewed/Date			Data Package: Standard <input type="checkbox"/> Level III <input type="checkbox"/> Level IV <input type="checkbox"/>
					Chromatograms with final report <input type="checkbox"/> Electronic Data Deliverables (EDDs) <input type="checkbox"/>

File :C:\msdchem\2\data\V211109\1109-V10.D
Operator :JP
Acquired : 9 Nov 2021 17:01 using AcqMethod V210519F.M
Instrument : Vigo
Sample Name: 11-015-01
Misc Info : Sample
Vial Number: 10



Project:	December 2021 Groundwater and Surface Water Sampling Results Go East Landfill Site, Everett, Washington
GEI File:	6694-002-05
Date:	March 13, 2022

This report documents the results of a United States Environmental Protection Agency (USEPA)-defined Stage 2A data validation (USEPA Document 540-R-08-005; USEPA 2009) of analytical data from the analyses of water samples collected as part of the December 2021 sampling event, and the associated laboratory and field quality control (QC) samples. The samples were obtained from the Go East Landfill Site located in Everett, Washington.

OBJECTIVE AND QUALITY CONTROL ELEMENTS

GeoEngineers, Inc. (GeoEngineers) completed the data validation consistent with the USEPA Contract Laboratory Program National Functional Guidelines for Organic Superfund Data Review (USEPA 2020a) and Inorganic Superfund Data Review (USEPA 2020b) to determine if the laboratory analytical results meet the project objectives and are usable for their intended purpose. Data usability was assessed by determining if:

- The samples were analyzed using well-defined and acceptable methods that provide reporting limits below applicable regulatory criteria;
- The precision and accuracy of the data are measured by well-defined control limits to provide defensible data; and
- The quality assurance/quality control (QA/QC) procedures utilized by the laboratory meet acceptable industry practices and standards.

The data validation included review of the following QC elements:

- Data Package Completeness
- Chain-of-Custody Documentation
- Holding Times and Sample Preservation
- Method and Trip Blanks
- Surrogates
- Matrix Spikes/Matrix Spike Duplicates
- Laboratory Control Samples/Laboratory Control Sample Duplicates
- Laboratory and Field Duplicates
- Reporting Limits

VALIDATED SAMPLE DELIVERY GROUPS

This data validation included review of the sample delivery groups (SDGs) listed below in Table 1.

TABLE 1: SUMMARY OF VALIDATED SAMPLE DELIVERY GROUP

2112-075	MW3-211206, TB-211206
2112-084	SWS-1-211208, Seep-1-211208
2112-085	MW5-211207
2112-108	MW2-211208, MW6-211209, MW7-211209, TB-2-211208, TB-1-211209, TB-2-211209
2112-131	MW8-211213, DUP-211213, TB-1-211213
2112-210	RINSE-20211220

CHEMICAL ANALYSIS PERFORMED

OnSite Environmental, Inc. (OnSite) of Redmond, Washington, performed laboratory analysis on the water samples using one or more of the following methods:

- Gasoline-range Hydrocarbons (NWTPH-Gx) by Method NWTPH-Gx;
- Petroleum Hydrocarbons (NWTPH-Dx) by Method NWTPH-Dx;
- Petroleum Hydrocarbons with Silica Gel (SG) Cleanup (NWTPH-Dx/SG) by Method NWTPH-Dx/SG;
- Volatile Organic Compounds (VOCs) by Method EPA 8260D;
- Semi-volatile Organic Compounds (SVOCs) by Method EPA 8270E (Full-scan Compound list);
- Low-level Polycyclic Aromatic Hydrocarbons (PAHs) by Method EPA 8270E/Selective Ion Monitoring (SIM);
- Polychlorinated Biphenyls (PCB) Aroclors by Method EPA 8082A;
- Organochlorine Pesticides by Method EPA 8081B;
- Chlorinated Acid Herbicides by Method EPA 8151A;
- Total and Dissolved Metals by Methods EPA 200.7, EPA 200.8, or EPA 7470A;
- Total Alkalinity and Bicarbonate by Method SM2320B;
- Total Dissolved Solids (TDS) by Method SM2540C;

- Total Organic Carbon (TOC) by Method SM5310B;
- Chloride by Method SM4500-Cl E;
- Nitrate by Method EPA 353.2;
- Sulfate by ASTM D516-11; and
- Ammonia by Method SM4500-NH3 D

OnSite subcontracted to Fremont Analytical, Inc., (Fremont) located in Seattle, Washington for laboratory analyses on the water samples using the following method:

- Chlorinated Acid Herbicides by Method EPA 8151A

DATA VALIDATION SUMMARY

The results for each of the QC elements are summarized below.

Data Package Completeness

OnSite provided the required deliverables for the data validation according to the National Functional Guidelines. The laboratory followed adequate corrective action processes and the identified anomalies were discussed in the relevant laboratory case narrative.

Chain-of-Custody Documentation

Chain-of-custody (COC) forms were provided with the laboratory analytical reports. The COCs were accurate and complete when submitted to the lab. The forms were appropriately signed and dated by both field collectors and laboratory personnel upon receipt.

Holding Times and Sample Preservation

The sample holding time is defined as the time that elapses between sample collection and sample analysis. Maximum holding time criteria exist for each analysis to help ensure that the analyte concentrations found at the time of analysis reflect the concentration present at the time of sample collection. Established holding times were met for each analysis, with the exceptions noted below. The sample coolers arrived at the laboratory within the appropriate temperatures of between two and six degrees Celsius.

SDG 2112-075: (TDS) The 7-day holding time for TDS analysis was exceeded by one day in Sample MW3-211206. The positive result for this target analyte was qualified as estimated (J) in this sample.

(Nitrate) The 48-hour holding time for nitrate analysis was exceeded by two days in Sample MW3-211206. The reporting limit for this target analyte was qualified as estimated (UJ) in this sample.

SDG 2112-085: (Nitrate) The 48-hour holding time for nitrate analysis was exceeded by one day in Sample MW5-211207. The positive result for this target analyte was qualified as estimated (J) in this sample.

SDG 2112-131: (Nitrate) The 48-hour holding time for nitrate analysis was exceeded by two days in Samples MW8-211213 and DUP-211213. The positive results for this target analyte were qualified as estimated (J) in these samples.

Method and Trip Blanks

Method Blanks

Method blanks are analyzed to ensure that laboratory procedures and reagents do not introduce measurable concentrations of the analytes of interest. A method blank was analyzed with each batch of samples, at a frequency of 1 per 20 samples. For each sample batch, method blanks for the applicable methods were analyzed at the required frequency. None of the analytes of interest were detected above the reporting limits in the method blanks.

Trip Blanks

Trip blanks are analyzed to provide an indication as to whether volatile compounds have cross-contaminated other like samples within the transportation process to the laboratory. None of the analytes of interest were detected in the trip blanks.

Surrogate Recoveries

A surrogate compound is a compound that is chemically similar to the organic analytes of interest, but unlikely to be found in an environmental sample. Surrogates are used for organic analyses and are added to the samples, standards, and blanks to serve as an accuracy and specificity check of each analysis. The surrogates are added to the samples at a known concentration and percent recoveries are calculated following analysis. The surrogate percent recoveries for field samples were within the laboratory control limits.

Matrix Spikes/Matrix Spike Duplicates

Since the actual analyte concentration in an environmental sample is not known, the accuracy of a particular analysis is usually inferred by performing a matrix spike (MS) analysis on one sample from the associated batch, known as the parent sample. One aliquot of the sample is analyzed in the normal manner and then a second aliquot of the sample is spiked with a known amount of analyte concentration and analyzed. From these analyses, a percent recovery is calculated. Matrix spike duplicate (MSD) analyses are generally performed for organic analyses as a precision check and analyzed in the same sequence as a matrix spike. Using the result values from the MS and MSD, the relative percent difference (RPD) is calculated. The percent recovery control limits for MS and MSD analyses are specified in the laboratory documents, as are the RPD control limits for MS/MSD sample sets.

For inorganic methods, the matrix spike is followed by a post-digestion spike sample if an element percent recovery was outside the control limits in the matrix spike. The percent recovery control limits for matrix spikes are 75% to 125%.

One MS/MSD analysis should be performed for every analytical batch or every 20 field samples, whichever is more frequent. The frequency requirements were met for each analysis and the percent recovery and RPD values were within the proper control limits.

Laboratory Control Samples/Laboratory Control Sample Duplicates

A Laboratory Control Sample (LCS) is a blank sample that is spiked with a known amount of analyte and then analyzed. An LCS is similar to an MS, but without the possibility of matrix interference. Given that matrix interference is not an issue, control limits for accuracy and precision in the LCS and its duplicate (LCSD) are usually more rigorous than for MS/MSD analyses. Additionally, data qualification based on LCS/LCSD analyses would apply to each sample in the associated batch, instead of just the parent sample. The percent recovery control limits for LCS and LCSD analyses are specified in the laboratory documents, as are the RPD control limits for LCS/LCSD sample sets.

One LCS/LCSD analysis should be performed for every analytical batch or every 20 field samples, whichever is more frequent. The frequency requirements were met for each analysis and the percent recovery and RPD values were within the proper control limits, with the following exceptions:

SDG 2112-131: (Herbicides) The RPD values for MCPA and MCPP were greater than the control limits in the LCS/LCSD extracted on 12/16/2021. There were no positive results for these target analytes in the associated field samples; therefore, no qualifications were required.

Laboratory Duplicates

Internal laboratory duplicate analyses are performed to monitor the precision of the analyses. Two separate aliquots of a sample are analyzed as distinct samples in the laboratory and the RPD between the two results is calculated. Duplicate analyses should be performed once per analytical batch. If one or more of the samples used has a concentration less than five times the reporting limit for that sample, the absolute difference is used instead of the RPD. For organic analyses, the RPD control limits are specified in the laboratory documents. For inorganic analyses, the RPD control limit for water samples is 20 percent. Laboratory duplicates were analyzed at the proper frequency and the specified acceptance criteria were met.

Field Duplicates

In order to assess field sampling precision, field duplicate samples were collected and analyzed along with the reviewed sample batches. The duplicate samples were analyzed for the same parameters as the associated parent samples. Precision is determined by calculating the RPD between each pair of samples. If one or more of the sample analytes has a concentration less than five times the reporting limit for that sample, then the absolute difference is used as a measurement of precision instead of the RPD. The RPD control limit for water samples is 35 percent, while the absolute difference control limit is simply the highest PQL between the two samples.

SDG 2112-131: One field duplicate sample pair, MW8-211213 and DUP-211213, was submitted with this SDG. The precision criteria mentioned above were met for the analytes in this sample pair, with the exception of diethyl phthalate and nitrate. The positive results and reporting limit for these target analytes were qualified as estimated (J and UJ, accordingly) in this sample pair.

Reporting Limits

The contract required quantitation limits (CRQL) were met by the laboratory for the target analytes throughout this sampling event, with some exceptions where the CRQL was elevated due to required sample dilution.

OVERALL ASSESSMENT

As was determined by this data validation, the laboratory followed the specified analytical methods. Accuracy was acceptable, as demonstrated by the surrogates, LCS/LCSD, and MS/MSD percent recovery values. Precision was also acceptable, as demonstrated by the LCS/LCSD, MS/MSD, and laboratory/field duplicate RPD values, with the exceptions noted above.

The data are acceptable for the intended use, with the following qualifications listed below in Table 2.

TABLE 2: SUMMARY OF QUALIFIED SAMPLES

Sample ID	Analyte	Qualifier	Reason
MW3-211206	Nitrate	UJ	Holding Time
	TDS	J	Holding Time
MW5-211207	Nitrate	J	Holding Time
MW8-211213	Diethyl phthalate	J	Field Duplicate Precision
	Nitrate	J	Holding Time/Field Duplicate Precision
DUP-211213	Diethyl phthalate	UJ	Field Duplicate Precision
	Nitrate	J	Holding Time/Field Duplicate Precision

REFERENCES

- GeoEngineers, Inc., "Interim Action Work Plan, Go East Corp Landfill Site, Everett, Washington, Ecology Agreed Order No. DE 18121 - prepared for Washington State Department of Ecology on Behalf of PG&E, LLC. GEI File No. 6694-002-03, April 23, 2020.
- U.S. Environmental Protection Agency (USEPA). "Guidance for Labeling Externally Validated Laboratory Analytical Data for Superfund Use," EPA-540-R-08-005. January 2009.
- U.S. Environmental Protection Agency (USEPA) 2020a. Contract Laboratory Program National Functional Guidelines for Organic Superfund Methods Data Review, EPA-540-R-20-005. November 2020.
- U.S. Environmental Protection Agency (USEPA) 2020b. Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Methods Data Review, EPA-542-R-20-006. November 2020.



14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

December 17, 2021

Garrett Leque
GeoEngineers, Inc.
554 West Bakerview Road
Bellingham, WA 98226

Re: Analytical Data for Project 6694-002-05 T700
Laboratory Reference No. 2112-075

Dear Garrett:

Enclosed are the analytical results and associated quality control data for samples submitted on December 7, 2021.

Please note that the data for the subcontracted analyses will follow in the final report.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

A handwritten signature in black ink, appearing to read "DB", is written over a large, light gray "DRAFT" watermark that is oriented diagonally across the page.

David Baumeister
Project Manager

Enclosures



OnSite Environmental, Inc. 14648 NE 95th Street, Redmond, WA 98052 (425) 883-3881

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: December 17, 2021
Samples Submitted: December 7, 2021
Laboratory Reference: 2112-075
Project: 6694-002-05 T700

Case Narrative

Samples were collected on December 6, 2021 and received by the laboratory on December 7, 2021. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

Nitrate (as Nitrogen) Analysis EPA 353.2

The reported Nitrate results are a calculated value based on the subtraction of Nitrite from the Nitrate plus Nitrite result. The Nitrite analysis, which has a 48-hour holding time, was performed outside of the holding time. An aliquot of each sample was preserved with concentrated sulfuric acid and stored at 4 degrees C. The preserved samples were then analyzed within the maximum 28-day holding time for the Nitrate plus Nitrite analysis.

Any other QA/QC issues associated with this extraction and analysis will be indicated with a footnote reference and discussed in detail on the Data Qualifier page.



Date of Report: December 17, 2021
Samples Submitted: December 7, 2021
Laboratory Reference: 2112-075
Project: 6694-002-05 T700

ANALYTICAL REPORT FOR SAMPLES

Client ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
MW3-211206	12-075-01	Water	12-6-21	12-7-21	
TB-211206	12-075-02	Water	12-6-21	12-7-21	

DRAFT



Date of Report: December 17, 2021
 Samples Submitted: December 7, 2021
 Laboratory Reference: 2112-075
 Project: 6694-002-05 T700

GASOLINE RANGE ORGANICS
NWTPH-Gx

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW3-211206					
Laboratory ID:	12-075-01					
Gasoline	ND	100	NWTPH-Gx	12-8-21	12-8-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
Fluorobenzene	94	66-117				



Date of Report: December 17, 2021
 Samples Submitted: December 7, 2021
 Laboratory Reference: 2112-075
 Project: 6694-002-05 T700

DIESEL AND HEAVY OIL RANGE ORGANICS
NWTPH-Dx

Matrix: Water
 Units: mg/L (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW3-211206					
Laboratory ID:	12-075-01					
Diesel Range Organics	ND	0.20	NWTPH-Dx	12-8-21	12-9-21	
Lube Oil Range Organics	ND	0.20	NWTPH-Dx	12-8-21	12-9-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	87	50-150				



Date of Report: December 17, 2021
 Samples Submitted: December 7, 2021
 Laboratory Reference: 2112-075
 Project: 6694-002-05 T700

VOLATILE ORGANICS EPA 8260D
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW3-211206					
Laboratory ID:	12-075-01					
Dichlorodifluoromethane	ND	0.26	EPA 8260D	12-8-21	12-8-21	
Chloromethane	ND	1.0	EPA 8260D	12-8-21	12-8-21	
Vinyl Chloride	ND	0.20	EPA 8260D	12-8-21	12-8-21	
Bromomethane	ND	0.27	EPA 8260D	12-8-21	12-8-21	
Chloroethane	ND	1.0	EPA 8260D	12-8-21	12-8-21	
Trichlorofluoromethane	ND	0.20	EPA 8260D	12-8-21	12-8-21	
1,1-Dichloroethene	ND	0.20	EPA 8260D	12-8-21	12-8-21	
Acetone	86	5.0	EPA 8260D	12-8-21	12-8-21	
Iodomethane	ND	1.3	EPA 8260D	12-8-21	12-8-21	
Carbon Disulfide	ND	0.20	EPA 8260D	12-8-21	12-8-21	
Methylene Chloride	ND	1.0	EPA 8260D	12-8-21	12-8-21	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	12-8-21	12-8-21	
Methyl t-Butyl Ether	ND	0.20	EPA 8260D	12-8-21	12-8-21	
1,1-Dichloroethane	ND	0.20	EPA 8260D	12-8-21	12-8-21	
Vinyl Acetate	ND	1.0	EPA 8260D	12-8-21	12-8-21	
2,2-Dichloropropane	ND	0.20	EPA 8260D	12-8-21	12-8-21	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	12-8-21	12-8-21	
2-Butanone	12	5.0	EPA 8260D	12-8-21	12-8-21	
Bromochloromethane	ND	0.20	EPA 8260D	12-8-21	12-8-21	
Chloroform	ND	0.20	EPA 8260D	12-8-21	12-8-21	
1,1,1-Trichloroethane	ND	0.20	EPA 8260D	12-8-21	12-8-21	
Carbon Tetrachloride	ND	0.20	EPA 8260D	12-8-21	12-8-21	
1,1-Dichloropropene	ND	0.20	EPA 8260D	12-8-21	12-8-21	
Benzene	ND	0.20	EPA 8260D	12-8-21	12-8-21	
1,2-Dichloroethane	ND	0.20	EPA 8260D	12-8-21	12-8-21	
Trichloroethene	ND	0.20	EPA 8260D	12-8-21	12-8-21	
1,2-Dichloropropane	ND	0.20	EPA 8260D	12-8-21	12-8-21	
Dibromomethane	ND	0.20	EPA 8260D	12-8-21	12-8-21	
Bromodichloromethane	ND	0.20	EPA 8260D	12-8-21	12-8-21	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260D	12-8-21	12-8-21	
Methyl Isobutyl Ketone	ND	2.0	EPA 8260D	12-8-21	12-8-21	
Toluene	ND	1.0	EPA 8260D	12-8-21	12-8-21	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260D	12-8-21	12-8-21	



Date of Report: December 17, 2021
 Samples Submitted: December 7, 2021
 Laboratory Reference: 2112-075
 Project: 6694-002-05 T700

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW3-211206					
Laboratory ID:	12-075-01					
1,1,2-Trichloroethane	ND	0.20	EPA 8260D	12-8-21	12-8-21	
Tetrachloroethene	ND	0.20	EPA 8260D	12-8-21	12-8-21	
1,3-Dichloropropane	ND	0.20	EPA 8260D	12-8-21	12-8-21	
2-Hexanone	ND	2.0	EPA 8260D	12-8-21	12-8-21	
Dibromochloromethane	ND	0.20	EPA 8260D	12-8-21	12-8-21	
1,2-Dibromoethane	ND	0.20	EPA 8260D	12-8-21	12-8-21	
Chlorobenzene	ND	0.20	EPA 8260D	12-8-21	12-8-21	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260D	12-8-21	12-8-21	
Ethylbenzene	ND	0.20	EPA 8260D	12-8-21	12-8-21	
m,p-Xylene	ND	0.40	EPA 8260D	12-8-21	12-8-21	
o-Xylene	ND	0.20	EPA 8260D	12-8-21	12-8-21	
Styrene	ND	0.20	EPA 8260D	12-8-21	12-8-21	
Bromoform	ND	1.0	EPA 8260D	12-8-21	12-8-21	
Isopropylbenzene	ND	0.20	EPA 8260D	12-8-21	12-8-21	
Bromobenzene	ND	0.20	EPA 8260D	12-8-21	12-8-21	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260D	12-8-21	12-8-21	
1,2,3-Trichloropropane	ND	0.20	EPA 8260D	12-8-21	12-8-21	
n-Propylbenzene	ND	0.20	EPA 8260D	12-8-21	12-8-21	
2-Chlorotoluene	ND	0.20	EPA 8260D	12-8-21	12-8-21	
4-Chlorotoluene	ND	0.20	EPA 8260D	12-8-21	12-8-21	
1,3,5-Trimethylbenzene	ND	0.20	EPA 8260D	12-8-21	12-8-21	
tert-Butylbenzene	ND	0.20	EPA 8260D	12-8-21	12-8-21	
1,2,4-Trimethylbenzene	ND	0.20	EPA 8260D	12-8-21	12-8-21	
sec-Butylbenzene	ND	0.20	EPA 8260D	12-8-21	12-8-21	
1,3-Dichlorobenzene	ND	0.20	EPA 8260D	12-8-21	12-8-21	
p-Isopropyltoluene	ND	0.20	EPA 8260D	12-8-21	12-8-21	
1,4-Dichlorobenzene	ND	0.20	EPA 8260D	12-8-21	12-8-21	
1,2-Dichlorobenzene	ND	0.20	EPA 8260D	12-8-21	12-8-21	
n-Butylbenzene	ND	0.20	EPA 8260D	12-8-21	12-8-21	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260D	12-8-21	12-8-21	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260D	12-8-21	12-8-21	
Hexachlorobutadiene	ND	1.0	EPA 8260D	12-8-21	12-8-21	
Naphthalene	ND	1.0	EPA 8260D	12-8-21	12-8-21	
1,2,3-Trichlorobenzene	ND	0.25	EPA 8260D	12-8-21	12-8-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>105</i>	<i>75-127</i>				
<i>Toluene-d8</i>	<i>100</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>97</i>	<i>78-125</i>				



Date of Report: December 17, 2021
 Samples Submitted: December 7, 2021
 Laboratory Reference: 2112-075
 Project: 6694-002-05 T700

VOLATILE ORGANICS EPA 8260D
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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	TB-211206					
Laboratory ID:	12-075-02					
Dichlorodifluoromethane	ND	0.26	EPA 8260D	12-8-21	12-8-21	
Chloromethane	ND	1.0	EPA 8260D	12-8-21	12-8-21	
Vinyl Chloride	ND	0.20	EPA 8260D	12-8-21	12-8-21	
Bromomethane	ND	0.27	EPA 8260D	12-8-21	12-8-21	
Chloroethane	ND	1.0	EPA 8260D	12-8-21	12-8-21	
Trichlorofluoromethane	ND	0.20	EPA 8260D	12-8-21	12-8-21	
1,1-Dichloroethene	ND	0.20	EPA 8260D	12-8-21	12-8-21	
Acetone	ND	5.0	EPA 8260D	12-8-21	12-8-21	
Iodomethane	ND	1.3	EPA 8260D	12-8-21	12-8-21	
Carbon Disulfide	ND	0.20	EPA 8260D	12-8-21	12-8-21	
Methylene Chloride	ND	1.0	EPA 8260D	12-8-21	12-8-21	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	12-8-21	12-8-21	
Methyl t-Butyl Ether	ND	0.20	EPA 8260D	12-8-21	12-8-21	
1,1-Dichloroethane	ND	0.20	EPA 8260D	12-8-21	12-8-21	
Vinyl Acetate	ND	1.0	EPA 8260D	12-8-21	12-8-21	
2,2-Dichloropropane	ND	0.20	EPA 8260D	12-8-21	12-8-21	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	12-8-21	12-8-21	
2-Butanone	ND	5.0	EPA 8260D	12-8-21	12-8-21	
Bromochloromethane	ND	0.20	EPA 8260D	12-8-21	12-8-21	
Chloroform	ND	0.20	EPA 8260D	12-8-21	12-8-21	
1,1,1-Trichloroethane	ND	0.20	EPA 8260D	12-8-21	12-8-21	
Carbon Tetrachloride	ND	0.20	EPA 8260D	12-8-21	12-8-21	
1,1-Dichloropropene	ND	0.20	EPA 8260D	12-8-21	12-8-21	
Benzene	ND	0.20	EPA 8260D	12-8-21	12-8-21	
1,2-Dichloroethane	ND	0.20	EPA 8260D	12-8-21	12-8-21	
Trichloroethene	ND	0.20	EPA 8260D	12-8-21	12-8-21	
1,2-Dichloropropane	ND	0.20	EPA 8260D	12-8-21	12-8-21	
Dibromomethane	ND	0.20	EPA 8260D	12-8-21	12-8-21	
Bromodichloromethane	ND	0.20	EPA 8260D	12-8-21	12-8-21	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260D	12-8-21	12-8-21	
Methyl Isobutyl Ketone	ND	2.0	EPA 8260D	12-8-21	12-8-21	
Toluene	ND	1.0	EPA 8260D	12-8-21	12-8-21	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260D	12-8-21	12-8-21	



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 Project: 6694-002-05 T700

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	TB-211206					
Laboratory ID:	12-075-02					
1,1,2-Trichloroethane	ND	0.20	EPA 8260D	12-8-21	12-8-21	
Tetrachloroethene	ND	0.20	EPA 8260D	12-8-21	12-8-21	
1,3-Dichloropropane	ND	0.20	EPA 8260D	12-8-21	12-8-21	
2-Hexanone	ND	2.0	EPA 8260D	12-8-21	12-8-21	
Dibromochloromethane	ND	0.20	EPA 8260D	12-8-21	12-8-21	
1,2-Dibromoethane	ND	0.20	EPA 8260D	12-8-21	12-8-21	
Chlorobenzene	ND	0.20	EPA 8260D	12-8-21	12-8-21	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260D	12-8-21	12-8-21	
Ethylbenzene	ND	0.20	EPA 8260D	12-8-21	12-8-21	
m,p-Xylene	ND	0.40	EPA 8260D	12-8-21	12-8-21	
o-Xylene	ND	0.20	EPA 8260D	12-8-21	12-8-21	
Styrene	ND	0.20	EPA 8260D	12-8-21	12-8-21	
Bromoform	ND	1.0	EPA 8260D	12-8-21	12-8-21	
Isopropylbenzene	ND	0.20	EPA 8260D	12-8-21	12-8-21	
Bromobenzene	ND	0.20	EPA 8260D	12-8-21	12-8-21	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260D	12-8-21	12-8-21	
1,2,3-Trichloropropane	ND	0.20	EPA 8260D	12-8-21	12-8-21	
n-Propylbenzene	ND	0.20	EPA 8260D	12-8-21	12-8-21	
2-Chlorotoluene	ND	0.20	EPA 8260D	12-8-21	12-8-21	
4-Chlorotoluene	ND	0.20	EPA 8260D	12-8-21	12-8-21	
1,3,5-Trimethylbenzene	ND	0.20	EPA 8260D	12-8-21	12-8-21	
tert-Butylbenzene	ND	0.20	EPA 8260D	12-8-21	12-8-21	
1,2,4-Trimethylbenzene	ND	0.20	EPA 8260D	12-8-21	12-8-21	
sec-Butylbenzene	ND	0.20	EPA 8260D	12-8-21	12-8-21	
1,3-Dichlorobenzene	ND	0.20	EPA 8260D	12-8-21	12-8-21	
p-Isopropyltoluene	ND	0.20	EPA 8260D	12-8-21	12-8-21	
1,4-Dichlorobenzene	ND	0.20	EPA 8260D	12-8-21	12-8-21	
1,2-Dichlorobenzene	ND	0.20	EPA 8260D	12-8-21	12-8-21	
n-Butylbenzene	ND	0.20	EPA 8260D	12-8-21	12-8-21	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260D	12-8-21	12-8-21	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260D	12-8-21	12-8-21	
Hexachlorobutadiene	ND	1.0	EPA 8260D	12-8-21	12-8-21	
Naphthalene	ND	1.0	EPA 8260D	12-8-21	12-8-21	
1,2,3-Trichlorobenzene	ND	0.25	EPA 8260D	12-8-21	12-8-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>106</i>	<i>75-127</i>				
<i>Toluene-d8</i>	<i>100</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>98</i>	<i>78-125</i>				



Date of Report: December 17, 2021
 Samples Submitted: December 7, 2021
 Laboratory Reference: 2112-075
 Project: 6694-002-05 T700

SEMIVOLATILE ORGANICS EPA 8270E/SIM
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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW3-211206					
Laboratory ID:	12-075-01					
n-Nitrosodimethylamine	ND	0.95	EPA 8270E	12-8-21	12-8-21	
Pyridine	ND	0.95	EPA 8270E	12-8-21	12-8-21	
Phenol	ND	0.95	EPA 8270E	12-8-21	12-8-21	
Aniline	ND	4.7	EPA 8270E	12-8-21	12-8-21	
bis(2-Chloroethyl)ether	ND	0.95	EPA 8270E	12-8-21	12-8-21	
2-Chlorophenol	ND	0.95	EPA 8270E	12-8-21	12-8-21	
1,3-Dichlorobenzene	ND	0.95	EPA 8270E	12-8-21	12-8-21	
1,4-Dichlorobenzene	ND	0.95	EPA 8270E	12-8-21	12-8-21	
Benzyl alcohol	ND	0.95	EPA 8270E	12-8-21	12-8-21	
1,2-Dichlorobenzene	ND	0.95	EPA 8270E	12-8-21	12-8-21	
2-Methylphenol (o-Cresol)	ND	0.95	EPA 8270E	12-8-21	12-8-21	
bis(2-Chloroisopropyl)ether	ND	0.95	EPA 8270E	12-8-21	12-8-21	
(3+4)-Methylphenol (m,p-Cresol)	ND	0.95	EPA 8270E	12-8-21	12-8-21	
n-Nitroso-di-n-propylamine	ND	0.95	EPA 8270E	12-8-21	12-8-21	
Hexachloroethane	ND	0.95	EPA 8270E	12-8-21	12-8-21	
Nitrobenzene	ND	0.95	EPA 8270E	12-8-21	12-8-21	
Isophorone	ND	0.95	EPA 8270E	12-8-21	12-8-21	
2-Nitrophenol	ND	0.95	EPA 8270E	12-8-21	12-8-21	
2,4-Dimethylphenol	ND	0.95	EPA 8270E	12-8-21	12-8-21	
bis(2-Chloroethoxy)methane	ND	0.95	EPA 8270E	12-8-21	12-8-21	
2,4-Dichlorophenol	ND	0.95	EPA 8270E	12-8-21	12-8-21	
1,2,4-Trichlorobenzene	ND	0.95	EPA 8270E	12-8-21	12-8-21	
Naphthalene	ND	0.095	EPA 8270E/SIM	12-8-21	12-8-21	
4-Chloroaniline	ND	0.95	EPA 8270E	12-8-21	12-8-21	
Hexachlorobutadiene	ND	0.95	EPA 8270E	12-8-21	12-8-21	
4-Chloro-3-methylphenol	ND	0.95	EPA 8270E	12-8-21	12-8-21	
2-Methylnaphthalene	ND	0.095	EPA 8270E/SIM	12-8-21	12-8-21	
1-Methylnaphthalene	ND	0.095	EPA 8270E/SIM	12-8-21	12-8-21	
Hexachlorocyclopentadiene	ND	0.95	EPA 8270E	12-8-21	12-8-21	
2,4,6-Trichlorophenol	ND	0.95	EPA 8270E	12-8-21	12-8-21	
2,3-Dichloroaniline	ND	0.95	EPA 8270E	12-8-21	12-8-21	
2,4,5-Trichlorophenol	ND	0.95	EPA 8270E	12-8-21	12-8-21	
2-Chloronaphthalene	ND	0.95	EPA 8270E	12-8-21	12-8-21	
2-Nitroaniline	ND	0.95	EPA 8270E	12-8-21	12-8-21	
1,4-Dinitrobenzene	ND	0.95	EPA 8270E	12-8-21	12-8-21	
Dimethylphthalate	ND	4.7	EPA 8270E	12-8-21	12-8-21	
1,3-Dinitrobenzene	ND	0.95	EPA 8270E	12-8-21	12-8-21	
2,6-Dinitrotoluene	ND	0.95	EPA 8270E	12-8-21	12-8-21	
1,2-Dinitrobenzene	ND	0.95	EPA 8270E	12-8-21	12-8-21	
Acenaphthylene	ND	0.095	EPA 8270E/SIM	12-8-21	12-8-21	
3-Nitroaniline	ND	0.95	EPA 8270E	12-8-21	12-8-21	



Date of Report: December 17, 2021
 Samples Submitted: December 7, 2021
 Laboratory Reference: 2112-075
 Project: 6694-002-05 T700

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW3-211206					
Laboratory ID:	12-075-01					
2,4-Dinitrophenol	ND	4.7	EPA 8270E	12-8-21	12-8-21	
Acenaphthene	ND	0.095	EPA 8270E/SIM	12-8-21	12-8-21	
4-Nitrophenol	ND	4.7	EPA 8270E	12-8-21	12-8-21	
2,4-Dinitrotoluene	ND	0.95	EPA 8270E	12-8-21	12-8-21	
Dibenzofuran	ND	0.95	EPA 8270E	12-8-21	12-8-21	
2,3,5,6-Tetrachlorophenol	ND	0.95	EPA 8270E	12-8-21	12-8-21	
2,3,4,6-Tetrachlorophenol	ND	0.95	EPA 8270E	12-8-21	12-8-21	
Diethylphthalate	ND	0.95	EPA 8270E	12-8-21	12-8-21	
4-Chlorophenyl-phenylether	ND	0.95	EPA 8270E	12-8-21	12-8-21	
4-Nitroaniline	ND	0.95	EPA 8270E	12-8-21	12-8-21	
Fluorene	ND	0.095	EPA 8270E/SIM	12-8-21	12-8-21	
4,6-Dinitro-2-methylphenol	ND	4.7	EPA 8270E	12-8-21	12-8-21	
n-Nitrosodiphenylamine	ND	0.95	EPA 8270E	12-8-21	12-8-21	
1,2-Diphenylhydrazine	ND	0.95	EPA 8270E	12-8-21	12-8-21	
4-Bromophenyl-phenylether	ND	0.95	EPA 8270E	12-8-21	12-8-21	
Hexachlorobenzene	ND	0.95	EPA 8270E	12-8-21	12-8-21	
Pentachlorophenol	ND	4.7	EPA 8270E	12-8-21	12-8-21	
Phenanthrene	ND	0.095	EPA 8270E/SIM	12-8-21	12-8-21	
Anthracene	ND	0.095	EPA 8270E/SIM	12-8-21	12-8-21	
Carbazole	ND	0.95	EPA 8270E	12-8-21	12-8-21	
Di-n-butylphthalate	ND	4.7	EPA 8270E	12-8-21	12-8-21	
Fluoranthene	ND	0.095	EPA 8270E/SIM	12-8-21	12-8-21	
Benzidine	ND	4.7	EPA 8270E	12-8-21	12-8-21	
Pyrene	ND	0.095	EPA 8270E/SIM	12-8-21	12-8-21	
Butylbenzylphthalate	ND	0.95	EPA 8270E	12-8-21	12-8-21	
bis-2-Ethylhexyladipate	ND	4.7	EPA 8270E	12-8-21	12-8-21	
3,3'-Dichlorobenzidine	ND	0.95	EPA 8270E	12-8-21	12-8-21	
Benzo[a]anthracene	ND	0.0095	EPA 8270E/SIM	12-8-21	12-8-21	
Chrysene	ND	0.0095	EPA 8270E/SIM	12-8-21	12-8-21	
bis(2-Ethylhexyl)phthalate	ND	4.7	EPA 8270E	12-8-21	12-8-21	
Di-n-octylphthalate	ND	0.95	EPA 8270E	12-8-21	12-8-21	
Benzo[b]fluoranthene	ND	0.0095	EPA 8270E/SIM	12-8-21	12-8-21	
Benzo(j,k)fluoranthene	ND	0.0095	EPA 8270E/SIM	12-8-21	12-8-21	
Benzo[a]pyrene	ND	0.0095	EPA 8270E/SIM	12-8-21	12-8-21	
Indeno[1,2,3-cd]pyrene	ND	0.0095	EPA 8270E/SIM	12-8-21	12-8-21	
Dibenz[a,h]anthracene	ND	0.0095	EPA 8270E/SIM	12-8-21	12-8-21	
Benzo[g,h,i]perylene	ND	0.0095	EPA 8270E/SIM	12-8-21	12-8-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
2-Fluorophenol	38	10 - 82				
Phenol-d6	28	10 - 92				
Nitrobenzene-d5	59	32 - 105				
2-Fluorobiphenyl	64	38 - 105				
2,4,6-Tribromophenol	77	25 - 124				
Terphenyl-d14	69	42 - 116				



Date of Report: December 17, 2021
 Samples Submitted: December 7, 2021
 Laboratory Reference: 2112-075
 Project: 6694-002-05 T700

PCBs EPA 8082A

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW3-211206					
Laboratory ID:	12-075-01					
Aroclor 1016	ND	0.047	EPA 8082A	12-9-21	12-15-21	
Aroclor 1221	ND	0.047	EPA 8082A	12-9-21	12-15-21	
Aroclor 1232	ND	0.047	EPA 8082A	12-9-21	12-15-21	
Aroclor 1242	ND	0.047	EPA 8082A	12-9-21	12-15-21	
Aroclor 1248	ND	0.047	EPA 8082A	12-9-21	12-15-21	
Aroclor 1254	ND	0.047	EPA 8082A	12-9-21	12-15-21	
Aroclor 1260	ND	0.047	EPA 8082A	12-9-21	12-15-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>DCB</i>	78	42-140				



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 Project: 6694-002-05 T700

**ORGANOCHLORINE
 PESTICIDES EPA 8081B**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW3-211206					
Laboratory ID:	12-075-01					
alpha-BHC	ND	0.0047	EPA 8081B	12-9-21	12-13-21	
gamma-BHC (Lindane)	ND	0.0047	EPA 8081B	12-9-21	12-13-21	
beta-BHC	ND	0.0047	EPA 8081B	12-9-21	12-13-21	
delta-BHC	ND	0.0047	EPA 8081B	12-9-21	12-13-21	
Heptachlor	ND	0.0047	EPA 8081B	12-9-21	12-13-21	
Aldrin	ND	0.0019	EPA 8081B	12-9-21	12-13-21	
Heptachlor Epoxide	ND	0.0028	EPA 8081B	12-9-21	12-13-21	
gamma-Chlordane	ND	0.0047	EPA 8081B	12-9-21	12-13-21	
alpha-Chlordane	ND	0.0047	EPA 8081B	12-9-21	12-13-21	
4,4'-DDE	ND	0.0047	EPA 8081B	12-9-21	12-13-21	
Endosulfan I	ND	0.0047	EPA 8081B	12-9-21	12-13-21	
Dieldrin	ND	0.0047	EPA 8081B	12-9-21	12-13-21	
Endrin	ND	0.0047	EPA 8081B	12-9-21	12-13-21	
4,4'-DDD	ND	0.0047	EPA 8081B	12-9-21	12-13-21	
Endosulfan II	ND	0.0047	EPA 8081B	12-9-21	12-13-21	
4,4'-DDT	ND	0.0047	EPA 8081B	12-9-21	12-13-21	
Endrin Aldehyde	ND	0.0047	EPA 8081B	12-9-21	12-13-21	
Methoxychlor	ND	0.0095	EPA 8081B	12-9-21	12-13-21	
Endosulfan Sulfate	ND	0.0047	EPA 8081B	12-9-21	12-13-21	
Endrin Ketone	ND	0.019	EPA 8081B	12-9-21	12-13-21	
Toxaphene	ND	0.047	EPA 8081B	12-9-21	12-13-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
TCMX	50	25-114				
DCB	66	30-137				



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TOTAL METALS
EPA 200.7/200.8/7470A

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW3-211206					
Laboratory ID:	12-075-01					
Arsenic	3.6	3.3	EPA 200.8	12-13-21	12-13-21	
Cadmium	ND	4.4	EPA 200.8	12-13-21	12-13-21	
Chromium	ND	11	EPA 200.8	12-13-21	12-13-21	
Copper	ND	11	EPA 200.8	12-13-21	12-13-21	
Iron	110	56	EPA 200.7	12-13-21	12-13-21	
Lead	ND	1.1	EPA 200.8	12-13-21	12-13-21	
Magnesium	15000	1100	EPA 200.7	12-13-21	12-13-21	
Manganese	190	11	EPA 200.7	12-13-21	12-13-21	
Mercury	ND	0.025	EPA 7470A	12-15-21	12-15-21	
Nickel	ND	22	EPA 200.8	12-13-21	12-13-21	
Selenium	ND	5.6	EPA 200.8	12-13-21	12-13-21	
Zinc	ND	28	EPA 200.8	12-13-21	12-13-21	



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DISSOLVED METALS
EPA 200.7/200.8/7470A

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW3-211206					
Laboratory ID:	12-075-01					
Arsenic	3.4	3.0	EPA 200.8		12-10-21	
Cadmium	ND	4.0	EPA 200.8		12-10-21	
Calcium	23000	1100	EPA 200.7		12-10-21	
Chromium	ND	10	EPA 200.8		12-10-21	
Copper	ND	10	EPA 200.8		12-10-21	
Iron	ND	56	EPA 200.7		12-10-21	
Lead	ND	1.0	EPA 200.8		12-10-21	
Magnesium	14000	1100	EPA 200.7		12-10-21	
Manganese	170	11	EPA 200.7		12-10-21	
Mercury	ND	0.025	EPA 7470A		12-17-21	
Nickel	ND	20	EPA 200.8		12-10-21	
Potassium	1900	1100	EPA 200.7		12-10-21	
Selenium	ND	5.0	EPA 200.8		12-10-21	
Sodium	8200	1100	EPA 200.7		12-10-21	
Zinc	ND	25	EPA 200.8		12-10-21	



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**TOTAL ALKALINITY
SM 2320B**

Matrix: Water
Units: mg CaCO₃/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW3-211206					
Laboratory ID:	12-075-01					
Total Alkalinity	110	2.0	SM 2320B	12-10-21	12-10-21	



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**BICARBONATE
SM 2320B**

Matrix: Water
Units: mg CaCO₃/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW3-211206					
Laboratory ID:	12-075-01					
Bicarbonate Concentration	110	2.0	SM 2320B	12-10-21	12-10-21	



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**TOTAL DISSOLVED SOLIDS
SM 2540C**

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW3-211206					
Laboratory ID:	12-075-01					
Total Dissolved Solids	140	13	SM 2540C	12-13-21	12-14-21	



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CHLORIDE
SM 4500-Cl E

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW3-211206					
Laboratory ID:	12-075-01					
Chloride	6.3	2.0	SM 4500-Cl E	12-14-21	12-14-21	



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NITRATE (as Nitrogen)
EPA 353.2

Matrix: Water
Units: mg/L-N

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW3-211206					
Laboratory ID:	12-075-01					
Nitrate	ND	0.050	EPA 353.2	12-10-21	12-10-21	



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SULFATE
ASTM D516-11

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW3-211206					
Laboratory ID:	12-075-01					
Sulfate	14	5.0	ASTM D516-11	12-10-21	12-10-21	



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AMMONIA (as Nitrogen)
SM 4500-NH₃ D

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW3-211206					
Laboratory ID:	12-075-01					
Ammonia	0.059	0.050	SM 4500-NH3 D	12-13-21	12-13-21	



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**GASOLINE RANGE ORGANICS
 NWTPH-Gx
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1208W1					
Gasoline	ND	100	NWTPH-Gx	12-8-21	12-8-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
Fluorobenzene	95	66-117				

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	12-075-01							
	ORIG	DUP						
Gasoline	ND	ND	NA	NA	NA	NA	30	
<i>Surrogate:</i>								
Fluorobenzene				94	95	66-117		



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**DIESEL AND HEAVY OIL RANGE ORGANICS
 NWTPH-Dx
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1208W1					
Diesel Range Organics	ND	0.15	NWTPH-Dx	12-8-21	12-8-21	
Lube Oil Range Organics	ND	0.15	NWTPH-Dx	12-8-21	12-8-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	92	50-150				

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	SB1208W1							
	ORIG	DUP						
Diesel Fuel #2	0.424	0.352	NA	NA	NA	NA	19	NA
<i>Surrogate:</i>								
<i>o-Terphenyl</i>				90	83	50-150		



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**VOLATILE ORGANICS EPA 8260D
 QUALITY CONTROL**

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Matrix: Water

Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1208W1					
Dichlorodifluoromethane	ND	0.26	EPA 8260D	12-8-21	12-8-21	
Chloromethane	ND	1.0	EPA 8260D	12-8-21	12-8-21	
Vinyl Chloride	ND	0.20	EPA 8260D	12-8-21	12-8-21	
Bromomethane	ND	0.27	EPA 8260D	12-8-21	12-8-21	
Chloroethane	ND	1.0	EPA 8260D	12-8-21	12-8-21	
Trichlorofluoromethane	ND	0.20	EPA 8260D	12-8-21	12-8-21	
1,1-Dichloroethene	ND	0.20	EPA 8260D	12-8-21	12-8-21	
Acetone	ND	5.0	EPA 8260D	12-8-21	12-8-21	
Iodomethane	ND	1.3	EPA 8260D	12-8-21	12-8-21	
Carbon Disulfide	ND	0.20	EPA 8260D	12-8-21	12-8-21	
Methylene Chloride	ND	1.0	EPA 8260D	12-8-21	12-8-21	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	12-8-21	12-8-21	
Methyl t-Butyl Ether	ND	0.20	EPA 8260D	12-8-21	12-8-21	
1,1-Dichloroethane	ND	0.20	EPA 8260D	12-8-21	12-8-21	
Vinyl Acetate	ND	1.0	EPA 8260D	12-8-21	12-8-21	
2,2-Dichloropropane	ND	0.20	EPA 8260D	12-8-21	12-8-21	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	12-8-21	12-8-21	
2-Butanone	ND	5.0	EPA 8260D	12-8-21	12-8-21	
Bromochloromethane	ND	0.20	EPA 8260D	12-8-21	12-8-21	
Chloroform	ND	0.20	EPA 8260D	12-8-21	12-8-21	
1,1,1-Trichloroethane	ND	0.20	EPA 8260D	12-8-21	12-8-21	
Carbon Tetrachloride	ND	0.20	EPA 8260D	12-8-21	12-8-21	
1,1-Dichloropropene	ND	0.20	EPA 8260D	12-8-21	12-8-21	
Benzene	ND	0.20	EPA 8260D	12-8-21	12-8-21	
1,2-Dichloroethane	ND	0.20	EPA 8260D	12-8-21	12-8-21	
Trichloroethene	ND	0.20	EPA 8260D	12-8-21	12-8-21	
1,2-Dichloropropane	ND	0.20	EPA 8260D	12-8-21	12-8-21	
Dibromomethane	ND	0.20	EPA 8260D	12-8-21	12-8-21	
Bromodichloromethane	ND	0.20	EPA 8260D	12-8-21	12-8-21	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260D	12-8-21	12-8-21	
Methyl Isobutyl Ketone	ND	2.0	EPA 8260D	12-8-21	12-8-21	
Toluene	ND	1.0	EPA 8260D	12-8-21	12-8-21	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260D	12-8-21	12-8-21	



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**VOLATILE ORGANICS EPA 8260D
 QUALITY CONTROL**

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1208W1					
1,1,2-Trichloroethane	ND	0.20	EPA 8260D	12-8-21	12-8-21	
Tetrachloroethene	ND	0.20	EPA 8260D	12-8-21	12-8-21	
1,3-Dichloropropane	ND	0.20	EPA 8260D	12-8-21	12-8-21	
2-Hexanone	ND	2.0	EPA 8260D	12-8-21	12-8-21	
Dibromochloromethane	ND	0.20	EPA 8260D	12-8-21	12-8-21	
1,2-Dibromoethane	ND	0.20	EPA 8260D	12-8-21	12-8-21	
Chlorobenzene	ND	0.20	EPA 8260D	12-8-21	12-8-21	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260D	12-8-21	12-8-21	
Ethylbenzene	ND	0.20	EPA 8260D	12-8-21	12-8-21	
m,p-Xylene	ND	0.40	EPA 8260D	12-8-21	12-8-21	
o-Xylene	ND	0.20	EPA 8260D	12-8-21	12-8-21	
Styrene	ND	0.20	EPA 8260D	12-8-21	12-8-21	
Bromoform	ND	1.0	EPA 8260D	12-8-21	12-8-21	
Isopropylbenzene	ND	0.20	EPA 8260D	12-8-21	12-8-21	
Bromobenzene	ND	0.20	EPA 8260D	12-8-21	12-8-21	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260D	12-8-21	12-8-21	
1,2,3-Trichloropropane	ND	0.20	EPA 8260D	12-8-21	12-8-21	
n-Propylbenzene	ND	0.20	EPA 8260D	12-8-21	12-8-21	
2-Chlorotoluene	ND	0.20	EPA 8260D	12-8-21	12-8-21	
4-Chlorotoluene	ND	0.20	EPA 8260D	12-8-21	12-8-21	
1,3,5-Trimethylbenzene	ND	0.20	EPA 8260D	12-8-21	12-8-21	
tert-Butylbenzene	ND	0.20	EPA 8260D	12-8-21	12-8-21	
1,2,4-Trimethylbenzene	ND	0.20	EPA 8260D	12-8-21	12-8-21	
sec-Butylbenzene	ND	0.20	EPA 8260D	12-8-21	12-8-21	
1,3-Dichlorobenzene	ND	0.20	EPA 8260D	12-8-21	12-8-21	
p-Isopropyltoluene	ND	0.20	EPA 8260D	12-8-21	12-8-21	
1,4-Dichlorobenzene	ND	0.20	EPA 8260D	12-8-21	12-8-21	
1,2-Dichlorobenzene	ND	0.20	EPA 8260D	12-8-21	12-8-21	
n-Butylbenzene	ND	0.20	EPA 8260D	12-8-21	12-8-21	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260D	12-8-21	12-8-21	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260D	12-8-21	12-8-21	
Hexachlorobutadiene	ND	1.0	EPA 8260D	12-8-21	12-8-21	
Naphthalene	ND	1.0	EPA 8260D	12-8-21	12-8-21	
1,2,3-Trichlorobenzene	ND	0.25	EPA 8260D	12-8-21	12-8-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>103</i>	<i>75-127</i>				
<i>Toluene-d8</i>	<i>99</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>96</i>	<i>78-125</i>				



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**VOLATILE ORGANICS EPA 8260D
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD		Flags
					Recovery	Limits	RPD	Limit		
SPIKE BLANKS										
Laboratory ID:	SB1208W1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	10.5	10.6	10.0	10.0	105	106	78-125	1	19	
Benzene	10.7	10.6	10.0	10.0	107	106	80-119	1	16	
Trichloroethene	10.5	10.4	10.0	10.0	105	104	80-121	1	18	
Toluene	10.3	10.3	10.0	10.0	103	103	80-117	0	18	
Chlorobenzene	9.77	9.71	10.0	10.0	98	97	80-117	1	17	
<i>Surrogate:</i>										
Dibromofluoromethane					101	100	75-127			
Toluene-d8					100	100	80-127			
4-Bromofluorobenzene					103	102	78-125			



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**SEMIVOLATILE ORGANICS EPA 8270E/SIM
 QUALITY CONTROL**

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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1208W1					
n-Nitrosodimethylamine	ND	1.0	EPA 8270E	12-8-21	12-8-21	
Pyridine	ND	1.0	EPA 8270E	12-8-21	12-8-21	
Phenol	ND	1.0	EPA 8270E	12-8-21	12-8-21	
Aniline	ND	5.0	EPA 8270E	12-8-21	12-8-21	
bis(2-Chloroethyl)ether	ND	1.0	EPA 8270E	12-8-21	12-8-21	
2-Chlorophenol	ND	1.0	EPA 8270E	12-8-21	12-8-21	
1,3-Dichlorobenzene	ND	1.0	EPA 8270E	12-8-21	12-8-21	
1,4-Dichlorobenzene	ND	1.0	EPA 8270E	12-8-21	12-8-21	
Benzyl alcohol	ND	1.0	EPA 8270E	12-8-21	12-8-21	
1,2-Dichlorobenzene	ND	1.0	EPA 8270E	12-8-21	12-8-21	
2-Methylphenol (o-Cresol)	ND	1.0	EPA 8270E	12-8-21	12-8-21	
bis(2-Chloroisopropyl)ether	ND	1.0	EPA 8270E	12-8-21	12-8-21	
(3+4)-Methylphenol (m,p-Cresol)	ND	1.0	EPA 8270E	12-8-21	12-8-21	
n-Nitroso-di-n-propylamine	ND	1.0	EPA 8270E	12-8-21	12-8-21	
Hexachloroethane	ND	1.0	EPA 8270E	12-8-21	12-8-21	
Nitrobenzene	ND	1.0	EPA 8270E	12-8-21	12-8-21	
Isophorone	ND	1.0	EPA 8270E	12-8-21	12-8-21	
2-Nitrophenol	ND	1.0	EPA 8270E	12-8-21	12-8-21	
2,4-Dimethylphenol	ND	1.0	EPA 8270E	12-8-21	12-8-21	
bis(2-Chloroethoxy)methane	ND	1.0	EPA 8270E	12-8-21	12-8-21	
2,4-Dichlorophenol	ND	1.0	EPA 8270E	12-8-21	12-8-21	
1,2,4-Trichlorobenzene	ND	1.0	EPA 8270E	12-8-21	12-8-21	
Naphthalene	ND	0.10	EPA 8270E/SIM	12-8-21	12-8-21	
4-Chloroaniline	ND	1.0	EPA 8270E	12-8-21	12-8-21	
Hexachlorobutadiene	ND	1.0	EPA 8270E	12-8-21	12-8-21	
4-Chloro-3-methylphenol	ND	1.0	EPA 8270E	12-8-21	12-8-21	
2-Methylnaphthalene	ND	0.10	EPA 8270E/SIM	12-8-21	12-8-21	
1-Methylnaphthalene	ND	0.10	EPA 8270E/SIM	12-8-21	12-8-21	
Hexachlorocyclopentadiene	ND	1.0	EPA 8270E	12-8-21	12-8-21	
2,4,6-Trichlorophenol	ND	1.0	EPA 8270E	12-8-21	12-8-21	
2,3-Dichloroaniline	ND	1.0	EPA 8270E	12-8-21	12-8-21	
2,4,5-Trichlorophenol	ND	1.0	EPA 8270E	12-8-21	12-8-21	
2-Chloronaphthalene	ND	1.0	EPA 8270E	12-8-21	12-8-21	
2-Nitroaniline	ND	1.0	EPA 8270E	12-8-21	12-8-21	
1,4-Dinitrobenzene	ND	1.0	EPA 8270E	12-8-21	12-8-21	
Dimethylphthalate	ND	5.0	EPA 8270E	12-8-21	12-8-21	
1,3-Dinitrobenzene	ND	1.0	EPA 8270E	12-8-21	12-8-21	
2,6-Dinitrotoluene	ND	1.0	EPA 8270E	12-8-21	12-8-21	
1,2-Dinitrobenzene	ND	1.0	EPA 8270E	12-8-21	12-8-21	
Acenaphthylene	ND	0.10	EPA 8270E/SIM	12-8-21	12-8-21	
3-Nitroaniline	ND	1.0	EPA 8270E	12-8-21	12-8-21	



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**SEMIVOLATILE ORGANICS EPA 8270E/SIM
 QUALITY CONTROL**

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1208W1					
2,4-Dinitrophenol	ND	5.0	EPA 8270E	12-8-21	12-8-21	
Acenaphthene	ND	0.10	EPA 8270E/SIM	12-8-21	12-8-21	
4-Nitrophenol	ND	5.0	EPA 8270E	12-8-21	12-8-21	
2,4-Dinitrotoluene	ND	1.0	EPA 8270E	12-8-21	12-8-21	
Dibenzofuran	ND	1.0	EPA 8270E	12-8-21	12-8-21	
2,3,5,6-Tetrachlorophenol	ND	1.0	EPA 8270E	12-8-21	12-8-21	
2,3,4,6-Tetrachlorophenol	ND	1.0	EPA 8270E	12-8-21	12-8-21	
Diethylphthalate	ND	1.0	EPA 8270E	12-8-21	12-8-21	
4-Chlorophenyl-phenylether	ND	1.0	EPA 8270E	12-8-21	12-8-21	
4-Nitroaniline	ND	1.0	EPA 8270E	12-8-21	12-8-21	
Fluorene	ND	0.10	EPA 8270E/SIM	12-8-21	12-8-21	
4,6-Dinitro-2-methylphenol	ND	5.0	EPA 8270E	12-8-21	12-8-21	
n-Nitrosodiphenylamine	ND	1.0	EPA 8270E	12-8-21	12-8-21	
1,2-Diphenylhydrazine	ND	1.0	EPA 8270E	12-8-21	12-8-21	
4-Bromophenyl-phenylether	ND	1.0	EPA 8270E	12-8-21	12-8-21	
Hexachlorobenzene	ND	1.0	EPA 8270E	12-8-21	12-8-21	
Pentachlorophenol	ND	5.0	EPA 8270E	12-8-21	12-8-21	
Phenanthrene	ND	0.10	EPA 8270E/SIM	12-8-21	12-8-21	
Anthracene	ND	0.10	EPA 8270E/SIM	12-8-21	12-8-21	
Carbazole	ND	1.0	EPA 8270E	12-8-21	12-8-21	
Di-n-butylphthalate	ND	5.0	EPA 8270E	12-8-21	12-8-21	
Fluoranthene	ND	0.10	EPA 8270E/SIM	12-8-21	12-8-21	
Benzidine	ND	5.0	EPA 8270E	12-8-21	12-8-21	
Pyrene	ND	0.10	EPA 8270E/SIM	12-8-21	12-8-21	
Butylbenzylphthalate	ND	1.0	EPA 8270E	12-8-21	12-8-21	
bis-2-Ethylhexyladipate	ND	5.0	EPA 8270E	12-8-21	12-8-21	
3,3'-Dichlorobenzidine	ND	1.0	EPA 8270E	12-8-21	12-8-21	
Benzo[a]anthracene	ND	0.010	EPA 8270E/SIM	12-8-21	12-8-21	
Chrysene	ND	0.010	EPA 8270E/SIM	12-8-21	12-8-21	
bis(2-Ethylhexyl)phthalate	ND	5.0	EPA 8270E	12-8-21	12-8-21	
Di-n-octylphthalate	ND	1.0	EPA 8270E	12-8-21	12-8-21	
Benzo[b]fluoranthene	ND	0.010	EPA 8270E/SIM	12-8-21	12-8-21	
Benzo(j,k)fluoranthene	ND	0.010	EPA 8270E/SIM	12-8-21	12-8-21	
Benzo[a]pyrene	ND	0.010	EPA 8270E/SIM	12-8-21	12-8-21	
Indeno[1,2,3-cd]pyrene	ND	0.010	EPA 8270E/SIM	12-8-21	12-8-21	
Dibenz[a,h]anthracene	ND	0.010	EPA 8270E/SIM	12-8-21	12-8-21	
Benzo[g,h,i]perylene	ND	0.010	EPA 8270E/SIM	12-8-21	12-8-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
2-Fluorophenol	44	10 - 82				
Phenol-d6	32	10 - 92				
Nitrobenzene-d5	63	32 - 105				
2-Fluorobiphenyl	66	38 - 105				
2,4,6-Tribromophenol	80	25 - 124				
Terphenyl-d14	68	42 - 116				



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**SEMIVOLATILE ORGANICS EPA 8270E/SIM
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L

Analyte	Result		Spike Level		Source	Percent		Recovery	RPD	RPD	Flags
					Result	Recovery	Limits		Limit		
MATRIX SPIKES											
Laboratory ID:	12-069-01										
	MS	MSD	MS	MSD		MS	MSD				
Phenol	97.4	108	160	160	ND	61	68	20 - 108	10		24
2-Chlorophenol	125	124	160	160	ND	78	78	24 - 105	1		32
1,4-Dichlorobenzene	57.5	56.3	80.0	80.0	ND	72	70	24 - 100	2		36
n-Nitroso-di-n-propylamine	87.7	89.8	80.0	80.0	ND	110	112	21 - 143	2		30
1,2,4-Trichlorobenzene	60.2	59.8	80.0	80.0	ND	75	75	34 - 105	1		34
4-Chloro-3-methylphenol	130	133	160	160	ND	81	83	44 - 113	2		21
Acenaphthene	63.4	63.4	80.0	80.0	ND	79	79	47 - 106	0		19
4-Nitrophenol	133	140	160	160	ND	83	88	20 - 127	5		37
2,4-Dinitrotoluene	60.1	59.5	80.0	80.0	ND	75	74	45 - 106	1		19
Pentachlorophenol	153	156	160	160	ND	96	98	20 - 136	2		39
Pyrene	62.5	62.9	80.0	80.0	ND	78	79	47 - 112	1		23
<i>Surrogate:</i>											
2-Fluorophenol						56	59	10 - 82			
Phenol-d6						54	60	10 - 92			
Nitrobenzene-d5						64	64	32 - 105			
2-Fluorobiphenyl						70	69	38 - 105			
2,4,6-Tribromophenol						75	77	25 - 124			
Terphenyl-d14						68	67	42 - 116			



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**PCBs EPA 8082A
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1209W1					
Aroclor 1016	ND	0.050	EPA 8082A	12-9-21	12-13-21	
Aroclor 1221	ND	0.050	EPA 8082A	12-9-21	12-13-21	
Aroclor 1232	ND	0.050	EPA 8082A	12-9-21	12-13-21	
Aroclor 1242	ND	0.050	EPA 8082A	12-9-21	12-13-21	
Aroclor 1248	ND	0.050	EPA 8082A	12-9-21	12-13-21	
Aroclor 1254	ND	0.050	EPA 8082A	12-9-21	12-13-21	
Aroclor 1260	ND	0.050	EPA 8082A	12-9-21	12-13-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
DCB	88	42-140				

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS											
Laboratory ID:	SB1209W1										
	SB	SBD	SB	SBD		SB	SBD				
Aroclor 1260	0.449	0.468	0.500	0.500	N/A	90	94	73-131	4	12	
<i>Surrogate:</i>											
DCB						93	91	42-140			



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**ORGANOCHLORINE
 PESTICIDES EPA 8081B
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1209W1					
alpha-BHC	ND	0.0050	EPA 8081B	12-9-21	12-9-21	
gamma-BHC (Lindane)	ND	0.0050	EPA 8081B	12-9-21	12-9-21	
beta-BHC	ND	0.0050	EPA 8081B	12-9-21	12-9-21	
delta-BHC	ND	0.0050	EPA 8081B	12-9-21	12-9-21	
Heptachlor	ND	0.0050	EPA 8081B	12-9-21	12-9-21	
Aldrin	ND	0.0020	EPA 8081B	12-9-21	12-9-21	
Heptachlor Epoxide	ND	0.0030	EPA 8081B	12-9-21	12-9-21	
gamma-Chlordane	ND	0.0050	EPA 8081B	12-9-21	12-9-21	
alpha-Chlordane	ND	0.0050	EPA 8081B	12-9-21	12-9-21	
4,4'-DDE	ND	0.0050	EPA 8081B	12-9-21	12-9-21	
Endosulfan I	ND	0.0050	EPA 8081B	12-9-21	12-9-21	
Dieldrin	ND	0.0050	EPA 8081B	12-9-21	12-9-21	
Endrin	ND	0.0050	EPA 8081B	12-9-21	12-9-21	
4,4'-DDD	ND	0.0050	EPA 8081B	12-9-21	12-9-21	
Endosulfan II	ND	0.0050	EPA 8081B	12-9-21	12-9-21	
4,4'-DDT	ND	0.0050	EPA 8081B	12-9-21	12-9-21	
Endrin Aldehyde	ND	0.0050	EPA 8081B	12-9-21	12-9-21	
Methoxychlor	ND	0.010	EPA 8081B	12-9-21	12-9-21	
Endosulfan Sulfate	ND	0.0050	EPA 8081B	12-9-21	12-9-21	
Endrin Ketone	ND	0.020	EPA 8081B	12-9-21	12-9-21	
Toxaphene	ND	0.050	EPA 8081B	12-9-21	12-9-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
TCMX	60	25-114				
DCB	79	30-137				



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**ORGANOCHLORINE
 PESTICIDES EPA 8081B
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS											
Laboratory ID:	SB1209W2										
	SB	SBD	SB	SBD		SB	SBD				
alpha-BHC	0.0734	0.0743	0.100	0.100	N/A	73	74	42-113	1	19	
gamma-BHC (Lindane)	0.0735	0.0767	0.100	0.100	N/A	74	77	45-114	4	15	
beta-BHC	0.0725	0.0745	0.100	0.100	N/A	73	74	40-118	3	15	
delta-BHC	0.0608	0.0624	0.100	0.100	N/A	61	62	20-125	3	15	
Heptachlor	0.0723	0.0779	0.100	0.100	N/A	72	78	41-120	7	16	
Aldrin	0.0720	0.0751	0.100	0.100	N/A	72	75	35-115	4	15	
Heptachlor Epoxide	0.0780	0.0817	0.100	0.100	N/A	78	82	50-118	5	15	
gamma-Chlordane	0.0738	0.0746	0.100	0.100	N/A	74	75	46-110	1	15	
alpha-Chlordane	0.0739	0.0744	0.100	0.100	N/A	74	74	38-112	1	15	
4,4'-DDE	0.0765	0.0794	0.100	0.100	N/A	76	79	41-127	4	15	
Endosulfan I	0.0773	0.0804	0.100	0.100	N/A	77	80	45-119	4	15	
Dieldrin	0.0833	0.0831	0.100	0.100	N/A	83	83	46-115	0	15	
Endrin	0.0836	0.0848	0.100	0.100	N/A	84	85	52-124	1	15	
4,4'-DDD	0.0845	0.0892	0.100	0.100	N/A	85	89	52-121	5	15	
Endosulfan II	0.0781	0.0814	0.100	0.100	N/A	78	81	44-114	4	15	
4,4'-DDT	0.0888	0.0891	0.100	0.100	N/A	89	89	48-123	0	15	
Endrin Aldehyde	0.0931	0.0973	0.100	0.100	N/A	93	97	45-114	4	15	
Methoxychlor	0.102	0.105	0.100	0.100	N/A	102	105	49-130	3	15	
Endosulfan Sulfate	0.0733	0.0784	0.100	0.100	N/A	73	78	39-117	7	15	
Endrin Ketone	0.0740	0.0793	0.100	0.100	N/A	74	79	53-119	7	15	
Surrogate:											
TCMX						56	58	25-114			
DCB						66	70	30-137			



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TOTAL METALS
EPA 200.7/200.8/7470A
QUALITY CONTROL

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1213WH1					
Iron	ND	56	EPA 200.7	12-13-21	12-13-21	
Magnesium	ND	1100	EPA 200.7	12-13-21	12-13-21	
Manganese	ND	11	EPA 200.7	12-13-21	12-13-21	
Laboratory ID:	MB1213WM1					
Arsenic	ND	3.3	EPA 200.8	12-13-21	12-13-21	
Cadmium	ND	4.4	EPA 200.8	12-13-21	12-13-21	
Chromium	ND	11	EPA 200.8	12-13-21	12-13-21	
Copper	ND	11	EPA 200.8	12-13-21	12-13-21	
Lead	ND	1.1	EPA 200.8	12-13-21	12-13-21	
Nickel	ND	22	EPA 200.8	12-13-21	12-13-21	
Selenium	ND	5.6	EPA 200.8	12-13-21	12-13-21	
Zinc	ND	28	EPA 200.8	12-13-21	12-13-21	
Laboratory ID:	MB1215W2					
Mercury	ND	0.025	EPA 7470A	12-15-21	12-15-21	



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TOTAL METALS
EPA 200.7/200.8/7470A
QUALITY CONTROL

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result		Spike Level		Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE										
Laboratory ID:	12-084-01									
	ORIG	DUP								
Iron	8040	8100	NA	NA		NA	NA	1	20	
Magnesium	32900	33700	NA	NA		NA	NA	2	20	
Manganese	1810	1840	NA	NA		NA	NA	2	20	
Laboratory ID:	12-089-01									
Arsenic	ND	ND	NA	NA		NA	NA	NA	20	
Cadmium	ND	ND	NA	NA		NA	NA	NA	20	
Chromium	ND	ND	NA	NA		NA	NA	NA	20	
Copper	ND	ND	NA	NA		NA	NA	NA	20	
Lead	ND	ND	NA	NA		NA	NA	NA	20	
Nickel	ND	ND	NA	NA		NA	NA	NA	20	
Selenium	ND	ND	NA	NA		NA	NA	NA	20	
Zinc	ND	ND	NA	NA		NA	NA	NA	20	
Laboratory ID:	12-108-01									
Mercury	ND	ND	NA	NA		NA	NA	NA	20	
MATRIX SPIKES										
Laboratory ID:	12-084-01									
	MS	MSD	MS	MSD		MS	MSD			
Iron	33800	34400	22200	22200	8040	116	119	75-125	2	20
Magnesium	58700	59300	22200	22200	32900	116	119	75-125	1	20
Manganese	2380	2370	556	556	1810	102	100	75-125	0	20
Laboratory ID:	12-089-01									
Arsenic	128	132	111	111	ND	116	119	75-125	3	20
Cadmium	124	130	111	111	ND	112	117	75-125	5	20
Chromium	118	124	111	111	ND	107	112	75-125	5	20
Copper	112	117	111	111	ND	101	105	75-125	4	20
Lead	116	120	111	111	ND	104	108	75-125	4	20
Nickel	115	121	111	111	ND	104	109	75-125	5	20
Selenium	126	133	111	111	ND	114	120	75-125	5	20
Zinc	116	122	111	111	ND	105	110	75-125	5	20
Laboratory ID:	12-108-01									
Mercury	5.60	5.58	6.25	6.25	ND	90	89	75-125	0	20



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**DISSOLVED METALS
 EPA 200.7/200.8/7470A
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1210D1					
Calcium	ND	1100	EPA 200.7		12-10-21	
Iron	ND	56	EPA 200.7		12-10-21	
Magnesium	ND	1100	EPA 200.7		12-10-21	
Manganese	ND	11	EPA 200.7		12-10-21	
Potassium	ND	1100	EPA 200.7		12-10-21	
Sodium	ND	1100	EPA 200.7		12-10-21	
Laboratory ID:	MB1209F1					
Arsenic	ND	3.0	EPA 200.8	12-9-21	12-10-21	
Cadmium	ND	4.0	EPA 200.8	12-9-21	12-10-21	
Chromium	ND	10	EPA 200.8	12-9-21	12-10-21	
Copper	ND	10	EPA 200.8	12-9-21	12-10-21	
Lead	ND	1.0	EPA 200.8	12-9-21	12-10-21	
Nickel	ND	20	EPA 200.8	12-9-21	12-10-21	
Selenium	ND	5.0	EPA 200.8	12-9-21	12-10-21	
Zinc	ND	25	EPA 200.8	12-9-21	12-10-21	
Laboratory ID:	MB1217D1					
Mercury	ND	0.025	EPA 7470A		12-17-21	



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**DISSOLVED METALS
 EPA 200.7/200.8/7470A
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result		Spike Level		Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE										
Laboratory ID:	12-104-01									
	ORIG	DUP								
Calcium	4460	4440	NA	NA		NA	NA	0	20	
Iron	ND	ND	NA	NA		NA	NA	NA	20	
Magnesium	2740	2720	NA	NA		NA	NA	1	20	
Manganese	ND	ND	NA	NA		NA	NA	NA	20	
Potassium	ND	ND	NA	NA		NA	NA	NA	20	
Sodium	2780	2120	NA	NA		NA	NA	27	20	C
Laboratory ID:	12-104-01									
Arsenic	ND	ND	NA	NA		NA	NA	NA	20	
Cadmium	ND	ND	NA	NA		NA	NA	NA	20	
Chromium	ND	ND	NA	NA		NA	NA	NA	20	
Copper	13.9	15.6	NA	NA		NA	NA	11	20	
Lead	ND	ND	NA	NA		NA	NA	NA	20	
Nickel	ND	ND	NA	NA		NA	NA	NA	20	
Selenium	ND	ND	NA	NA		NA	NA	NA	20	
Zinc	ND	ND	NA	NA		NA	NA	NA	20	
Laboratory ID:	12-108-01									
Mercury	ND	ND	NA	NA		NA	NA	NA	20	
MATRIX SPIKES										
Laboratory ID:	12-104-01									
	MS	MSD	MS	MSD		MS	MSD			
Calcium	27800	27600	22200	22200	4460	105	104	75-125	0	20
Iron	25100	25100	22200	22200	ND	113	113	75-125	0	20
Magnesium	27800	27900	22200	22200	2740	113	113	75-125	0	20
Manganese	583	581	556	556	ND	105	104	75-125	0	20
Potassium	23300	23200	22200	22200	ND	105	105	75-125	0	20
Sodium	28400	28000	22200	22200	2780	116	114	75-125	2	20
Laboratory ID:	12-104-01									
Arsenic	83.8	76.2	80.0	80.0	ND	105	95	75-125	9	20
Cadmium	79.2	78.0	80.0	80.0	ND	99	98	75-125	2	20
Chromium	77.4	73.6	80.0	80.0	ND	97	92	75-125	5	20
Copper	91.0	87.8	80.0	80.0	13.9	96	92	75-125	4	20
Lead	76.6	76.0	80.0	80.0	ND	96	95	75-125	1	20
Nickel	75.6	72.4	80.0	80.0	ND	95	91	75-125	4	20
Selenium	76.2	75.4	80.0	80.0	ND	95	94	75-125	1	20
Zinc	94.6	91.0	80.0	80.0	14.1	101	96	75-125	4	20
Laboratory ID:	12-108-01									
Mercury	5.78	5.75	6.25	6.25	ND	92	92	75-125	0	20



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**TOTAL ALKALINITY
 SM 2320B
 QUALITY CONTROL**

Matrix: Water
 Units: mg CaCO₃/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1210W1					
Total Alkalinity	ND	2.0	SM 2320B	12-10-21	12-10-21	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	12-075-01							
	ORIG	DUP						
Total Alkalinity	108	108	NA	NA	NA	0	10	

SPIKE BLANK								
Laboratory ID:	SB1210W1							
	SB	SB		SB				
Total Alkalinity	94.0	100	NA	94	89-110	NA	NA	



Date of Report: December 17, 2021
 Samples Submitted: December 7, 2021
 Laboratory Reference: 2112-075
 Project: 6694-002-05 T700

**BICARBONATE
 SM 2320B
 QUALITY CONTROL**

Matrix: Water
 Units: mg CaCO₃/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1210W1					
Bicarbonate Concentration	ND	2.0	SM 2320B	12-10-21	12-10-21	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	12-075-01							
	ORIG	DUP						
Total Alkalinity	108	108	NA	NA	NA	0	10	

SPIKE BLANK								
Laboratory ID:	SB1210W1							
	SB	SB		SB				
Total Alkalinity	94.0	100	NA	94	89-110	NA	NA	



Date of Report: December 17, 2021
 Samples Submitted: December 7, 2021
 Laboratory Reference: 2112-075
 Project: 6694-002-05 T700

**TOTAL DISSOLVED SOLIDS
 SM 2540C
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1213W1					
Total Dissolved Solids	ND	13	SM 2540C	12-13-21	12-14-21	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	12-085-01							
	ORIG	DUP						
Total Dissolved Solids	159	153	NA	NA	NA	4	29	

SPIKE BLANK								
Laboratory ID:	SB1213W1							
	SB	SB		SB				
Total Dissolved Solids	477	500	NA	95	84-110	NA	NA	



Date of Report: December 17, 2021
 Samples Submitted: December 7, 2021
 Laboratory Reference: 2112-075
 Project: 6694-002-05 T700

**CHLORIDE
 SM 4500-Cl E
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1214W1					
Chloride	ND	2.0	SM 4500-Cl E	12-14-21	12-14-21	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	12-086-01							
	ORIG	DUP						
Chloride	4.05	4.11	NA	NA	NA	1	15	

MATRIX SPIKE								
Laboratory ID:	12-086-01							
	MS	MS		MS				
Chloride	58.8	50.0	4.05	110	86-115	NA	NA	

SPIKE BLANK								
Laboratory ID:	SB1214W1							
	SB	SB		SB				
Chloride	55.9	50.0	NA	112	86-115	NA	NA	



Date of Report: December 17, 2021
 Samples Submitted: December 7, 2021
 Laboratory Reference: 2112-075
 Project: 6694-002-05 T700

**NITRATE (as Nitrogen)
 EPA 353.2
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L-N

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1210W1					
Nitrate	ND	0.050	EPA 353.2	12-10-21	12-10-21	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	12-086-01							
	ORIG	DUP						
Nitrate	0.460	0.450	NA	NA	NA	2	16	

MATRIX SPIKE								
Laboratory ID:	12-086-01							
	MS	MS		MS				
Nitrate	2.92	2.00	0.460	123	92-125	NA	NA	

SPIKE BLANK								
Laboratory ID:	SB1210W1							
	SB	SB		SB				
Nitrate	2.15	2.00	NA	108	90-121	NA	NA	



Date of Report: December 17, 2021
 Samples Submitted: December 7, 2021
 Laboratory Reference: 2112-075
 Project: 6694-002-05 T700

**SULFATE
 ASTM D516-11
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1210W1					
Sulfate	ND	5.0	ASTM D516-11	12-10-21	12-10-21	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	12-075-01							
	ORIG	DUP						
Sulfate	13.9	13.9	NA	NA	NA	0	10	

MATRIX SPIKE								
Laboratory ID:	12-075-01							
	MS	MS		MS				
Sulfate	22.5	10.0	13.9	86	69-139	NA	NA	

SPIKE BLANK								
Laboratory ID:	SB1210W1							
	SB	SB		SB				
Sulfate	10.0	10.0	NA	100	89-117	NA	NA	



Date of Report: December 17, 2021
 Samples Submitted: December 7, 2021
 Laboratory Reference: 2112-075
 Project: 6694-002-05 T700

**AMMONIA (as Nitrogen)
 SM 4500-NH₃ D
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1213W1					
Ammonia	ND	0.050	SM 4500-NH ₃ D	12-13-21	12-13-21	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	12-086-01							
	ORIG	DUP						
Ammonia	ND	ND	NA	NA	NA	NA	19	

MATRIX SPIKE								
Laboratory ID:	12-086-01							
	MS	MS		MS				
Ammonia	4.82	5.00	ND	96	80-113	NA	NA	

SPIKE BLANK								
Laboratory ID:	SB1213W1							
	SB	SB		SB				
Ammonia	4.99	5.00	NA	100	88-110	NA	NA	





Data Qualifiers and Abbreviations

- A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.
- B - The analyte indicated was also found in the blank sample.
- C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.
- E - The value reported exceeds the quantitation range and is an estimate.
- F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.
- H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.
- I - Compound recovery is outside of the control limits.
- J - The value reported was below the practical quantitation limit. The value is an estimate.
- K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.
- L - The RPD is outside of the control limits.
- M - Hydrocarbons in the gasoline range are impacting the diesel range result.
- M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.
- N - Hydrocarbons in the lube oil range are impacting the diesel range result.
- N1 - Hydrocarbons in diesel range are impacting lube oil range results.
- O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.
- P - The RPD of the detected concentrations between the two columns is greater than 40.
- Q - Surrogate recovery is outside of the control limits.
- S - Surrogate recovery data is not available due to the necessary dilution of the sample.
- T - The sample chromatogram is not similar to a typical _____.
- U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
- U1 - The practical quantitation limit is elevated due to interferences present in the sample.
- V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.
- W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.
- X - Sample extract treated with a mercury cleanup procedure.
- X1 - Sample extract treated with a sulfuric acid/silica gel cleanup procedure.
- Y - The calibration verification for this analyte exceeded the 20% drift specified in methods 8260 & 8270, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.

Z -

ND - Not Detected at PQL
 PQL - Practical Quantitation Limit
 RPD - Relative Percent Difference





Analytical Laboratory Testing Services
 14648 NE 95th Street • Redmond, WA 98052
 Phone: (425) 883-3881 • www.onsite-env.com

Chain of Custody

Company: GeoEngineers

Project Number: 66940205

Project Name: Go East

Project Manager: Garrett Leque

Sampled by: Dexter Chan

Turnaround Request (in working days)

(Check One)

Same Day 1 Day

2 Days 3 Days

Standard (7 Days)

_____ (other)

Laboratory Number: **12-075**

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers
1	MW3-211206	12/6/21	1545	W	12
2	TB-211206	-	-	W	1

NWTPH-HCID	NWTPH-Gx/BTEX	NWTPH-Gx	NWTPH-Dx (<input type="checkbox"/> Acid / SG Clean-up)	Volatiles 8260D	Halogenated Volatiles 8260D	EDB EPA 8011 (Waters Only)	Semivolatiles 8270E/SIM (with low-level PAHs)	PAHs 8270E/SIM (low-level)	PCBs 8082A	Organochlorine Pesticides 8081B	Organophosphorus Pesticides 8270E/SIM	Chlorinated Acid Herbicides 8151A	Total PCRA Metals	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664A	TDS
		X	X	X			X		X	X		X				X	X
				X													

* 1420A *
 Metals by EPA 20.1/20.3/245
 diss. metals *
 alkalinity & hardness gm 2390B
 Ca, K, Mg, Na 207/20.8
 Moisture
 SO4, NH3
 -Dissolved

Signature	Company	Date	Time	Comments/Special Instructions
<u>[Signature]</u>	GeoEngineers	12/7/21		please refer to Garrett for full list * T/D metals - As, Cd, Cr, Cu, Fe, Pb, Mn, Hg, Ni, Se, Zn, Mg.
<u>[Signature]</u>	Alpha Courier	12-7-21	11:33	
<u>[Signature]</u>	Alpha Courier	12-7-21	11:01	
<u>[Signature]</u>	O&E	12/7/21	1621	
				Data Package: Standard <input type="checkbox"/> Level III <input type="checkbox"/> Level IV <input type="checkbox"/>
Reviewed/Date	Reviewed/Date	Chromatograms with final report <input type="checkbox"/> Electronic Data Deliverables (EDDs) <input type="checkbox"/>		



14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

December 21, 2021

Garrett Leque
GeoEngineers, Inc.
554 West Bakerview Road
Bellingham, WA 98226

Re: Analytical Data for Project 6694-002-05 T700
Laboratory Reference No. 2112-084

Dear Garrett:

Enclosed are the analytical results and associated quality control data for samples submitted on December 8, 2021.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

A handwritten signature in black ink, appearing to read "DB", with a horizontal line extending to the right.

David Baumeister
Project Manager

Enclosures



OnSite Environmental, Inc. 14648 NE 95th Street, Redmond, WA 98052 (425) 883-3881

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: December 21, 2021
Samples Submitted: December 8, 2021
Laboratory Reference: 2112-084
Project: 6694-002-05 T700

Case Narrative

Samples were collected on December 8, 2021 and received by the laboratory on December 8, 2021. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.



Date of Report: December 21, 2021
Samples Submitted: December 8, 2021
Laboratory Reference: 2112-084
Project: 6694-002-05 T700

ANALYTICAL REPORT FOR SAMPLES

Client ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
SWS-1-211208	12-084-01	Water	12-8-21	12-8-21	
Seep-1-211208	12-084-02	Water	12-8-21	12-8-21	



Date of Report: December 21, 2021
 Samples Submitted: December 8, 2021
 Laboratory Reference: 2112-084
 Project: 6694-002-05 T700

GASOLINE RANGE ORGANICS
NWTPH-Gx

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SWS-1-211208					
Laboratory ID:	12-084-01					
Gasoline	ND	100	NWTPH-Gx	12-13-21	12-13-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	<i>90</i>	<i>66-117</i>				



Date of Report: December 21, 2021
 Samples Submitted: December 8, 2021
 Laboratory Reference: 2112-084
 Project: 6694-002-05 T700

**DIESEL AND HEAVY OIL RANGE ORGANICS
 NWTPH-Dx**

Matrix: Water
 Units: mg/L (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SWS-1-211208					
Laboratory ID:	12-084-01					
Diesel Range Organics	0.34	0.22	NWTPH-Dx	12-13-21	12-16-21	
Lube Oil Range Organics	0.30	0.22	NWTPH-Dx	12-13-21	12-16-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	103	50-150				
Client ID:	SWS-1-211208					
Laboratory ID:	12-084-01					
Diesel Range Organics	ND	0.22	NWTPH-Dx	12-13-21	12-16-21	X1
Lube Oil Range Organics	ND	0.22	NWTPH-Dx	12-13-21	12-16-21	X1
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	100	50-150				



Date of Report: December 21, 2021
 Samples Submitted: December 8, 2021
 Laboratory Reference: 2112-084
 Project: 6694-002-05 T700

VOLATILE ORGANICS EPA 8260D
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SWS-1-211208					
Laboratory ID:	12-084-01					
Dichlorodifluoromethane	ND	0.30	EPA 8260D	12-10-21	12-10-21	
Chloromethane	ND	1.3	EPA 8260D	12-10-21	12-10-21	
Vinyl Chloride	ND	0.20	EPA 8260D	12-10-21	12-10-21	
Bromomethane	ND	0.20	EPA 8260D	12-10-21	12-10-21	
Chloroethane	ND	1.0	EPA 8260D	12-10-21	12-10-21	
Trichlorofluoromethane	ND	0.20	EPA 8260D	12-10-21	12-10-21	
1,1-Dichloroethene	ND	0.20	EPA 8260D	12-10-21	12-10-21	
Acetone	ND	5.0	EPA 8260D	12-10-21	12-10-21	
Iodomethane	ND	1.5	EPA 8260D	12-10-21	12-10-21	
Carbon Disulfide	ND	0.20	EPA 8260D	12-10-21	12-10-21	
Methylene Chloride	ND	1.0	EPA 8260D	12-10-21	12-10-21	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	12-10-21	12-10-21	
Methyl t-Butyl Ether	ND	0.20	EPA 8260D	12-10-21	12-10-21	
1,1-Dichloroethane	ND	0.20	EPA 8260D	12-10-21	12-10-21	
Vinyl Acetate	ND	1.0	EPA 8260D	12-10-21	12-10-21	
2,2-Dichloropropane	ND	0.20	EPA 8260D	12-10-21	12-10-21	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	12-10-21	12-10-21	
2-Butanone	ND	5.0	EPA 8260D	12-10-21	12-10-21	
Bromochloromethane	ND	0.20	EPA 8260D	12-10-21	12-10-21	
Chloroform	ND	0.20	EPA 8260D	12-10-21	12-10-21	
1,1,1-Trichloroethane	ND	0.20	EPA 8260D	12-10-21	12-10-21	
Carbon Tetrachloride	ND	0.20	EPA 8260D	12-10-21	12-10-21	
1,1-Dichloropropene	ND	0.20	EPA 8260D	12-10-21	12-10-21	
Benzene	ND	0.20	EPA 8260D	12-10-21	12-10-21	
1,2-Dichloroethane	ND	0.20	EPA 8260D	12-10-21	12-10-21	
Trichloroethene	ND	0.20	EPA 8260D	12-10-21	12-10-21	
1,2-Dichloropropane	ND	0.20	EPA 8260D	12-10-21	12-10-21	
Dibromomethane	ND	0.20	EPA 8260D	12-10-21	12-10-21	
Bromodichloromethane	ND	0.20	EPA 8260D	12-10-21	12-10-21	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260D	12-10-21	12-10-21	
Methyl Isobutyl Ketone	ND	2.0	EPA 8260D	12-10-21	12-10-21	
Toluene	ND	1.0	EPA 8260D	12-10-21	12-10-21	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260D	12-10-21	12-10-21	



Date of Report: December 21, 2021
 Samples Submitted: December 8, 2021
 Laboratory Reference: 2112-084
 Project: 6694-002-05 T700

VOLATILE ORGANICS EPA 8260D
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SWS-1-211208					
Laboratory ID:	12-084-01					
1,1,2-Trichloroethane	ND	0.20	EPA 8260D	12-10-21	12-10-21	
Tetrachloroethene	ND	0.20	EPA 8260D	12-10-21	12-10-21	
1,3-Dichloropropane	ND	0.20	EPA 8260D	12-10-21	12-10-21	
2-Hexanone	ND	2.0	EPA 8260D	12-10-21	12-10-21	
Dibromochloromethane	ND	0.20	EPA 8260D	12-10-21	12-10-21	
1,2-Dibromoethane	ND	0.20	EPA 8260D	12-10-21	12-10-21	
Chlorobenzene	ND	0.20	EPA 8260D	12-10-21	12-10-21	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260D	12-10-21	12-10-21	
Ethylbenzene	ND	0.20	EPA 8260D	12-10-21	12-10-21	
m,p-Xylene	ND	0.40	EPA 8260D	12-10-21	12-10-21	
o-Xylene	ND	0.20	EPA 8260D	12-10-21	12-10-21	
Styrene	ND	0.20	EPA 8260D	12-10-21	12-10-21	
Bromoform	ND	1.0	EPA 8260D	12-10-21	12-10-21	
Isopropylbenzene	ND	0.20	EPA 8260D	12-10-21	12-10-21	
Bromobenzene	ND	0.20	EPA 8260D	12-10-21	12-10-21	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260D	12-10-21	12-10-21	
1,2,3-Trichloropropane	ND	0.20	EPA 8260D	12-10-21	12-10-21	
n-Propylbenzene	ND	0.20	EPA 8260D	12-10-21	12-10-21	
2-Chlorotoluene	ND	0.20	EPA 8260D	12-10-21	12-10-21	
4-Chlorotoluene	ND	0.20	EPA 8260D	12-10-21	12-10-21	
1,3,5-Trimethylbenzene	ND	0.20	EPA 8260D	12-10-21	12-10-21	
tert-Butylbenzene	ND	0.20	EPA 8260D	12-10-21	12-10-21	
1,2,4-Trimethylbenzene	ND	0.20	EPA 8260D	12-10-21	12-10-21	
sec-Butylbenzene	ND	0.20	EPA 8260D	12-10-21	12-10-21	
1,3-Dichlorobenzene	ND	0.20	EPA 8260D	12-10-21	12-10-21	
p-Isopropyltoluene	ND	0.20	EPA 8260D	12-10-21	12-10-21	
1,4-Dichlorobenzene	ND	0.20	EPA 8260D	12-10-21	12-10-21	
1,2-Dichlorobenzene	ND	0.20	EPA 8260D	12-10-21	12-10-21	
n-Butylbenzene	ND	0.20	EPA 8260D	12-10-21	12-10-21	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260D	12-10-21	12-10-21	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260D	12-10-21	12-10-21	
Hexachlorobutadiene	ND	1.0	EPA 8260D	12-10-21	12-10-21	
Naphthalene	ND	1.0	EPA 8260D	12-10-21	12-10-21	
1,2,3-Trichlorobenzene	ND	0.25	EPA 8260D	12-10-21	12-10-21	
Surrogate:	Percent Recovery	Control Limits				
<i>Dibromofluoromethane</i>	93	75-127				
<i>Toluene-d8</i>	100	80-127				
<i>4-Bromofluorobenzene</i>	97	78-125				



Date of Report: December 21, 2021
 Samples Submitted: December 8, 2021
 Laboratory Reference: 2112-084
 Project: 6694-002-05 T700

SEMIVOLATILE ORGANICS EPA 8270E/SIM
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SWS-1-211208					
Laboratory ID:	12-084-01					
n-Nitrosodimethylamine	ND	1.0	EPA 8270E	12-14-21	12-17-21	
Pyridine	ND	1.0	EPA 8270E	12-14-21	12-17-21	
Phenol	ND	1.0	EPA 8270E	12-14-21	12-17-21	
Aniline	ND	5.1	EPA 8270E	12-14-21	12-17-21	
bis(2-Chloroethyl)ether	ND	1.0	EPA 8270E	12-14-21	12-17-21	
2-Chlorophenol	ND	1.0	EPA 8270E	12-14-21	12-17-21	
1,3-Dichlorobenzene	ND	1.0	EPA 8270E	12-14-21	12-17-21	
1,4-Dichlorobenzene	ND	1.0	EPA 8270E	12-14-21	12-17-21	
Benzyl alcohol	ND	1.0	EPA 8270E	12-14-21	12-17-21	
1,2-Dichlorobenzene	ND	1.0	EPA 8270E	12-14-21	12-17-21	
2-Methylphenol (o-Cresol)	ND	1.0	EPA 8270E	12-14-21	12-17-21	
bis(2-Chloroisopropyl)ether	ND	1.0	EPA 8270E	12-14-21	12-17-21	
(3+4)-Methylphenol (m,p-Cresol)	ND	1.0	EPA 8270E	12-14-21	12-17-21	
n-Nitroso-di-n-propylamine	ND	1.0	EPA 8270E	12-14-21	12-17-21	
Hexachloroethane	ND	1.0	EPA 8270E	12-14-21	12-17-21	
Nitrobenzene	ND	1.0	EPA 8270E	12-14-21	12-17-21	
Isophorone	ND	1.0	EPA 8270E	12-14-21	12-17-21	
2-Nitrophenol	ND	1.0	EPA 8270E	12-14-21	12-17-21	
2,4-Dimethylphenol	ND	1.0	EPA 8270E	12-14-21	12-17-21	
bis(2-Chloroethoxy)methane	ND	1.0	EPA 8270E	12-14-21	12-17-21	
2,4-Dichlorophenol	ND	1.0	EPA 8270E	12-14-21	12-17-21	
1,2,4-Trichlorobenzene	ND	1.0	EPA 8270E	12-14-21	12-17-21	
Naphthalene	ND	0.10	EPA 8270E/SIM	12-14-21	12-14-21	
4-Chloroaniline	ND	1.0	EPA 8270E	12-14-21	12-17-21	
Hexachlorobutadiene	ND	1.0	EPA 8270E	12-14-21	12-17-21	
4-Chloro-3-methylphenol	ND	1.0	EPA 8270E	12-14-21	12-17-21	
2-Methylnaphthalene	ND	0.10	EPA 8270E/SIM	12-14-21	12-14-21	
1-Methylnaphthalene	ND	0.10	EPA 8270E/SIM	12-14-21	12-14-21	
Hexachlorocyclopentadiene	ND	1.0	EPA 8270E	12-14-21	12-17-21	
2,4,6-Trichlorophenol	ND	1.0	EPA 8270E	12-14-21	12-17-21	
2,3-Dichloroaniline	ND	1.0	EPA 8270E	12-14-21	12-17-21	
2,4,5-Trichlorophenol	ND	1.0	EPA 8270E	12-14-21	12-17-21	
2-Chloronaphthalene	ND	1.0	EPA 8270E	12-14-21	12-17-21	
2-Nitroaniline	ND	1.0	EPA 8270E	12-14-21	12-17-21	
1,4-Dinitrobenzene	ND	1.0	EPA 8270E	12-14-21	12-17-21	
Dimethylphthalate	ND	5.1	EPA 8270E	12-14-21	12-17-21	
1,3-Dinitrobenzene	ND	1.0	EPA 8270E	12-14-21	12-17-21	
2,6-Dinitrotoluene	ND	1.0	EPA 8270E	12-14-21	12-17-21	
1,2-Dinitrobenzene	ND	1.0	EPA 8270E	12-14-21	12-17-21	
Acenaphthylene	ND	0.22	EPA 8270E/SIM	12-14-21	12-14-21	
3-Nitroaniline	ND	1.0	EPA 8270E	12-14-21	12-17-21	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SWS-1-211208					
Laboratory ID:	12-084-01					
2,4-Dinitrophenol	ND	5.1	EPA 8270E	12-14-21	12-17-21	
Acenaphthene	1.3	1.0	EPA 8270E	12-14-21	12-17-21	
4-Nitrophenol	ND	5.1	EPA 8270E	12-14-21	12-17-21	
2,4-Dinitrotoluene	ND	1.0	EPA 8270E	12-14-21	12-17-21	
Dibenzofuran	ND	1.0	EPA 8270E	12-14-21	12-17-21	
2,3,5,6-Tetrachlorophenol	ND	1.2	EPA 8270E	12-14-21	12-17-21	
2,3,4,6-Tetrachlorophenol	ND	1.0	EPA 8270E	12-14-21	12-17-21	
Diethylphthalate	ND	1.0	EPA 8270E	12-14-21	12-17-21	
4-Chlorophenyl-phenylether	ND	1.0	EPA 8270E	12-14-21	12-17-21	
4-Nitroaniline	ND	1.0	EPA 8270E	12-14-21	12-17-21	
Fluorene	0.46	0.10	EPA 8270E/SIM	12-14-21	12-14-21	
4,6-Dinitro-2-methylphenol	ND	5.1	EPA 8270E	12-14-21	12-17-21	
n-Nitrosodiphenylamine	ND	1.0	EPA 8270E	12-14-21	12-17-21	
1,2-Diphenylhydrazine	ND	1.0	EPA 8270E	12-14-21	12-17-21	
4-Bromophenyl-phenylether	ND	1.0	EPA 8270E	12-14-21	12-17-21	
Hexachlorobenzene	ND	1.0	EPA 8270E	12-14-21	12-17-21	
Pentachlorophenol	5.7	5.1	EPA 8270E	12-14-21	12-17-21	
Phenanthrene	ND	0.10	EPA 8270E/SIM	12-14-21	12-14-21	
Anthracene	0.13	0.10	EPA 8270E/SIM	12-14-21	12-14-21	
Carbazole	ND	1.0	EPA 8270E	12-14-21	12-17-21	
Di-n-butylphthalate	ND	5.1	EPA 8270E	12-14-21	12-17-21	
Fluoranthene	0.22	0.10	EPA 8270E/SIM	12-14-21	12-14-21	
Pyrene	0.15	0.10	EPA 8270E/SIM	12-14-21	12-14-21	
Butylbenzylphthalate	ND	1.0	EPA 8270E	12-14-21	12-17-21	
bis(2-Ethylhexyl)phthalate	ND	5.1	EPA 8270E	12-14-21	12-17-21	
3,3'-Dichlorobenzidine	ND	1.0	EPA 8270E	12-14-21	12-17-21	
Benzo[a]anthracene	ND	0.010	EPA 8270E/SIM	12-14-21	12-14-21	
Chrysene	ND	0.010	EPA 8270E/SIM	12-14-21	12-14-21	
bis(2-Ethylhexyl)phthalate	ND	5.1	EPA 8270E	12-14-21	12-17-21	
Di-n-octylphthalate	ND	1.0	EPA 8270E	12-14-21	12-17-21	
Benzo[b]fluoranthene	ND	0.010	EPA 8270E/SIM	12-14-21	12-14-21	
Benzo(j,k)fluoranthene	ND	0.010	EPA 8270E/SIM	12-14-21	12-14-21	
Benzo[a]pyrene	ND	0.010	EPA 8270E/SIM	12-14-21	12-14-21	
Indeno[1,2,3-cd]pyrene	ND	0.010	EPA 8270E/SIM	12-14-21	12-14-21	
Dibenz[a,h]anthracene	ND	0.010	EPA 8270E/SIM	12-14-21	12-14-21	
Benzo[g,h,i]perylene	ND	0.010	EPA 8270E/SIM	12-14-21	12-14-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
2-Fluorophenol	42	10 - 82				
Phenol-d6	31	10 - 92				
Nitrobenzene-d5	62	32 - 105				
2-Fluorobiphenyl	69	38 - 105				
2,4,6-Tribromophenol	94	25 - 124				
Terphenyl-d14	71	42 - 116				



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PCBs EPA 8082A

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SWS-1-211208					
Laboratory ID:	12-084-01					
Aroclor 1016	ND	0.052	EPA 8082A	12-13-21	12-15-21	
Aroclor 1221	ND	0.052	EPA 8082A	12-13-21	12-15-21	
Aroclor 1232	ND	0.052	EPA 8082A	12-13-21	12-15-21	
Aroclor 1242	ND	0.052	EPA 8082A	12-13-21	12-15-21	
Aroclor 1248	ND	0.052	EPA 8082A	12-13-21	12-15-21	
Aroclor 1254	ND	0.052	EPA 8082A	12-13-21	12-15-21	
Aroclor 1260	ND	0.052	EPA 8082A	12-13-21	12-15-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>DCB</i>	80	42-140				



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**ORGANOCHLORINE
 PESTICIDES EPA 8081B**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SWS-1-211208					
Laboratory ID:	12-084-01					
alpha-BHC	ND	0.0052	EPA 8081B	12-13-21	12-13-21	
gamma-BHC (Lindane)	ND	0.0052	EPA 8081B	12-13-21	12-13-21	
beta-BHC	ND	0.0052	EPA 8081B	12-13-21	12-13-21	
delta-BHC	ND	0.0052	EPA 8081B	12-13-21	12-13-21	
Heptachlor	ND	0.0052	EPA 8081B	12-13-21	12-13-21	
Aldrin	ND	0.0021	EPA 8081B	12-13-21	12-13-21	
Heptachlor Epoxide	ND	0.0031	EPA 8081B	12-13-21	12-13-21	
gamma-Chlordane	ND	0.0052	EPA 8081B	12-13-21	12-13-21	
alpha-Chlordane	ND	0.0052	EPA 8081B	12-13-21	12-13-21	
4,4'-DDE	ND	0.0052	EPA 8081B	12-13-21	12-13-21	
Endosulfan I	ND	0.0052	EPA 8081B	12-13-21	12-13-21	
Dieldrin	ND	0.0052	EPA 8081B	12-13-21	12-13-21	
Endrin	ND	0.0052	EPA 8081B	12-13-21	12-13-21	
4,4'-DDD	ND	0.0052	EPA 8081B	12-13-21	12-13-21	
Endosulfan II	ND	0.0052	EPA 8081B	12-13-21	12-13-21	
4,4'-DDT	ND	0.0052	EPA 8081B	12-13-21	12-13-21	
Endrin Aldehyde	ND	0.0052	EPA 8081B	12-13-21	12-13-21	
Methoxychlor	ND	0.010	EPA 8081B	12-13-21	12-13-21	
Endosulfan Sulfate	ND	0.0052	EPA 8081B	12-13-21	12-13-21	
Endrin Ketone	ND	0.021	EPA 8081B	12-13-21	12-13-21	
Toxaphene	ND	0.052	EPA 8081B	12-13-21	12-13-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
TCMX	55	25-114				
DCB	64	30-137				



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TOTAL METALS
EPA 200.7/200.8/7470A

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SWS-1-211208					
Laboratory ID:	12-084-01					
Arsenic	ND	3.3	EPA 200.8	12-13-21	12-13-21	
Cadmium	ND	4.4	EPA 200.8	12-13-21	12-13-21	
Chromium	ND	11	EPA 200.8	12-13-21	12-13-21	
Copper	ND	11	EPA 200.8	12-13-21	12-13-21	
Iron	8000	56	EPA 200.7	12-13-21	12-13-21	
Lead	ND	1.1	EPA 200.8	12-13-21	12-13-21	
Manganese	1800	11	EPA 200.7	12-13-21	12-13-21	
Mercury	ND	0.025	EPA 7470A	12-15-21	12-15-21	
Nickel	ND	22	EPA 200.8	12-13-21	12-13-21	
Selenium	ND	5.6	EPA 200.8	12-13-21	12-13-21	
Zinc	ND	28	EPA 200.8	12-13-21	12-13-21	

Client ID:	Seep-1-211208					
Laboratory ID:	12-084-02					
Arsenic	ND	3.3	EPA 200.8	12-13-21	12-13-21	
Iron	990	56	EPA 200.7	12-13-21	12-13-21	
Manganese	15	11	EPA 200.7	12-13-21	12-13-21	



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**TOTAL DISSOLVED SOLIDS
 SM 2540C**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SWS-1-211208					
Laboratory ID:	12-084-01					
Total Dissolved Solids	490	13	SM 2540C	12-13-21	12-14-21	
Client ID:	Seep-1-211208					
Laboratory ID:	12-084-02					
Total Dissolved Solids	160	13	SM 2540C	12-13-21	12-14-21	



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**TOTAL ORGANIC CARBON
 SM 5310B**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SWS-1-211208					
Laboratory ID:	12-084-01					
Total Organic Carbon	11	1.0	SM 5310B	12-15-21	12-15-21	
Client ID:	Seep-1-211208					
Laboratory ID:	12-084-02					
Total Organic Carbon	6.8	1.0	SM 5310B	12-15-21	12-15-21	



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AMMONIA (as Nitrogen)
SM 4500-NH₃ D

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SWS-1-211208					
Laboratory ID:	12-084-01					
Ammonia	2.5	0.050	SM 4500-NH3 D	12-13-21	12-13-21	
Client ID:	Seep-1-211208					
Laboratory ID:	12-084-02					
Ammonia	ND	0.050	SM 4500-NH3 D	12-13-21	12-13-21	



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**GASOLINE RANGE ORGANICS
 NWTPH-Gx
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1213W1					
Gasoline	ND	100	NWTPH-Gx	12-13-21	12-13-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
Fluorobenzene	90	66-117				

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	12-084-01							
	ORIG	DUP						
Gasoline	ND	ND	NA	NA	NA	NA	30	
<i>Surrogate:</i>								
Fluorobenzene				90	89	66-117		



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**DIESEL AND HEAVY OIL RANGE ORGANICS
 NWTPH-Dx
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1213W1					
Diesel Range Organics	ND	0.16	NWTPH-Dx	12-13-21	12-13-21	
Lube Oil Range Organics	ND	0.16	NWTPH-Dx	12-13-21	12-13-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	96	50-150				
Laboratory ID:	MB1213W1					
Diesel Range Organics	ND	0.16	NWTPH-Dx	12-13-21	12-13-21	X1
Lube Oil Range Organics	ND	0.16	NWTPH-Dx	12-13-21	12-13-21	X1
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	119	50-150				

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	SB1213W1							
	ORIG	DUP						
Diesel Fuel #2	0.381	0.373	NA	NA	NA	NA	2	NA
<i>Surrogate:</i>								
<i>o-Terphenyl</i>				94	93	50-150		
Laboratory ID:	SB1213W1							
	ORIG	DUP						
Diesel Fuel #2	0.442	0.357	NA	NA	NA	NA	21	NA X1
<i>Surrogate:</i>								
<i>o-Terphenyl</i>				116	100	50-150		



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VOLATILE ORGANICS EPA 8260D
QUALITY CONTROL
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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1210W1					
Dichlorodifluoromethane	ND	0.30	EPA 8260D	12-10-21	12-10-21	
Chloromethane	ND	1.3	EPA 8260D	12-10-21	12-10-21	
Vinyl Chloride	ND	0.20	EPA 8260D	12-10-21	12-10-21	
Bromomethane	ND	0.20	EPA 8260D	12-10-21	12-10-21	
Chloroethane	ND	1.0	EPA 8260D	12-10-21	12-10-21	
Trichlorofluoromethane	ND	0.20	EPA 8260D	12-10-21	12-10-21	
1,1-Dichloroethene	ND	0.20	EPA 8260D	12-10-21	12-10-21	
Acetone	ND	5.0	EPA 8260D	12-10-21	12-10-21	
Iodomethane	ND	1.5	EPA 8260D	12-10-21	12-10-21	
Carbon Disulfide	ND	0.20	EPA 8260D	12-10-21	12-10-21	
Methylene Chloride	ND	1.0	EPA 8260D	12-10-21	12-10-21	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	12-10-21	12-10-21	
Methyl t-Butyl Ether	ND	0.20	EPA 8260D	12-10-21	12-10-21	
1,1-Dichloroethane	ND	0.20	EPA 8260D	12-10-21	12-10-21	
Vinyl Acetate	ND	1.0	EPA 8260D	12-10-21	12-10-21	
2,2-Dichloropropane	ND	0.20	EPA 8260D	12-10-21	12-10-21	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	12-10-21	12-10-21	
2-Butanone	ND	5.0	EPA 8260D	12-10-21	12-10-21	
Bromochloromethane	ND	0.20	EPA 8260D	12-10-21	12-10-21	
Chloroform	ND	0.20	EPA 8260D	12-10-21	12-10-21	
1,1,1-Trichloroethane	ND	0.20	EPA 8260D	12-10-21	12-10-21	
Carbon Tetrachloride	ND	0.20	EPA 8260D	12-10-21	12-10-21	
1,1-Dichloropropene	ND	0.20	EPA 8260D	12-10-21	12-10-21	
Benzene	ND	0.20	EPA 8260D	12-10-21	12-10-21	
1,2-Dichloroethane	ND	0.20	EPA 8260D	12-10-21	12-10-21	
Trichloroethene	ND	0.20	EPA 8260D	12-10-21	12-10-21	
1,2-Dichloropropane	ND	0.20	EPA 8260D	12-10-21	12-10-21	
Dibromomethane	ND	0.20	EPA 8260D	12-10-21	12-10-21	
Bromodichloromethane	ND	0.20	EPA 8260D	12-10-21	12-10-21	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260D	12-10-21	12-10-21	
Methyl Isobutyl Ketone	ND	2.0	EPA 8260D	12-10-21	12-10-21	
Toluene	ND	1.0	EPA 8260D	12-10-21	12-10-21	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260D	12-10-21	12-10-21	



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QUALITY CONTROL
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1210W1					
1,1,2-Trichloroethane	ND	0.20	EPA 8260D	12-10-21	12-10-21	
Tetrachloroethene	ND	0.20	EPA 8260D	12-10-21	12-10-21	
1,3-Dichloropropane	ND	0.20	EPA 8260D	12-10-21	12-10-21	
2-Hexanone	ND	2.0	EPA 8260D	12-10-21	12-10-21	
Dibromochloromethane	ND	0.20	EPA 8260D	12-10-21	12-10-21	
1,2-Dibromoethane	ND	0.20	EPA 8260D	12-10-21	12-10-21	
Chlorobenzene	ND	0.20	EPA 8260D	12-10-21	12-10-21	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260D	12-10-21	12-10-21	
Ethylbenzene	ND	0.20	EPA 8260D	12-10-21	12-10-21	
m,p-Xylene	ND	0.40	EPA 8260D	12-10-21	12-10-21	
o-Xylene	ND	0.20	EPA 8260D	12-10-21	12-10-21	
Styrene	ND	0.20	EPA 8260D	12-10-21	12-10-21	
Bromoform	ND	1.0	EPA 8260D	12-10-21	12-10-21	
Isopropylbenzene	ND	0.20	EPA 8260D	12-10-21	12-10-21	
Bromobenzene	ND	0.20	EPA 8260D	12-10-21	12-10-21	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260D	12-10-21	12-10-21	
1,2,3-Trichloropropane	ND	0.20	EPA 8260D	12-10-21	12-10-21	
n-Propylbenzene	ND	0.20	EPA 8260D	12-10-21	12-10-21	
2-Chlorotoluene	ND	0.20	EPA 8260D	12-10-21	12-10-21	
4-Chlorotoluene	ND	0.20	EPA 8260D	12-10-21	12-10-21	
1,3,5-Trimethylbenzene	ND	0.20	EPA 8260D	12-10-21	12-10-21	
tert-Butylbenzene	ND	0.20	EPA 8260D	12-10-21	12-10-21	
1,2,4-Trimethylbenzene	ND	0.20	EPA 8260D	12-10-21	12-10-21	
sec-Butylbenzene	ND	0.20	EPA 8260D	12-10-21	12-10-21	
1,3-Dichlorobenzene	ND	0.20	EPA 8260D	12-10-21	12-10-21	
p-Isopropyltoluene	ND	0.20	EPA 8260D	12-10-21	12-10-21	
1,4-Dichlorobenzene	ND	0.20	EPA 8260D	12-10-21	12-10-21	
1,2-Dichlorobenzene	ND	0.20	EPA 8260D	12-10-21	12-10-21	
n-Butylbenzene	ND	0.20	EPA 8260D	12-10-21	12-10-21	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260D	12-10-21	12-10-21	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260D	12-10-21	12-10-21	
Hexachlorobutadiene	ND	1.0	EPA 8260D	12-10-21	12-10-21	
Naphthalene	ND	1.0	EPA 8260D	12-10-21	12-10-21	
1,2,3-Trichlorobenzene	ND	0.25	EPA 8260D	12-10-21	12-10-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>94</i>	<i>75-127</i>				
<i>Toluene-d8</i>	<i>99</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>97</i>	<i>78-125</i>				



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**VOLATILE ORGANICS EPA 8260D
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD		Flags
					Recovery	Limits	RPD	Limit		
SPIKE BLANKS										
Laboratory ID:	SB1210W1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	10.4	10.3	10.0	10.0	104	103	78-125	1	19	
Benzene	10.6	10.5	10.0	10.0	106	105	80-119	1	16	
Trichloroethene	10.7	10.7	10.0	10.0	107	107	80-121	0	18	
Toluene	10.5	10.3	10.0	10.0	105	103	80-117	2	18	
Chlorobenzene	9.85	9.70	10.0	10.0	99	97	80-117	2	17	
<i>Surrogate:</i>										
Dibromofluoromethane					96	96	75-127			
Toluene-d8					100	100	80-127			
4-Bromofluorobenzene					103	103	78-125			



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**SEMIVOLATILE ORGANICS EPA 8270E/SIM
 QUALITY CONTROL**

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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1214W1					
n-Nitrosodimethylamine	ND	1.0	EPA 8270E	12-14-21	12-17-21	
Pyridine	ND	1.0	EPA 8270E	12-14-21	12-17-21	
Phenol	ND	1.0	EPA 8270E	12-14-21	12-17-21	
Aniline	ND	5.0	EPA 8270E	12-14-21	12-17-21	
bis(2-Chloroethyl)ether	ND	1.0	EPA 8270E	12-14-21	12-17-21	
2-Chlorophenol	ND	1.0	EPA 8270E	12-14-21	12-17-21	
1,3-Dichlorobenzene	ND	1.0	EPA 8270E	12-14-21	12-17-21	
1,4-Dichlorobenzene	ND	1.0	EPA 8270E	12-14-21	12-17-21	
Benzyl alcohol	ND	1.0	EPA 8270E	12-14-21	12-17-21	
1,2-Dichlorobenzene	ND	1.0	EPA 8270E	12-14-21	12-17-21	
2-Methylphenol (o-Cresol)	ND	1.0	EPA 8270E	12-14-21	12-17-21	
bis(2-Chloroisopropyl)ether	ND	1.0	EPA 8270E	12-14-21	12-17-21	
(3+4)-Methylphenol (m,p-Cresol)	ND	1.0	EPA 8270E	12-14-21	12-17-21	
n-Nitroso-di-n-propylamine	ND	1.0	EPA 8270E	12-14-21	12-17-21	
Hexachloroethane	ND	1.0	EPA 8270E	12-14-21	12-17-21	
Nitrobenzene	ND	1.0	EPA 8270E	12-14-21	12-17-21	
Isophorone	ND	1.0	EPA 8270E	12-14-21	12-17-21	
2-Nitrophenol	ND	1.0	EPA 8270E	12-14-21	12-17-21	
2,4-Dimethylphenol	ND	1.0	EPA 8270E	12-14-21	12-17-21	
bis(2-Chloroethoxy)methane	ND	1.0	EPA 8270E	12-14-21	12-17-21	
2,4-Dichlorophenol	ND	1.0	EPA 8270E	12-14-21	12-17-21	
1,2,4-Trichlorobenzene	ND	1.0	EPA 8270E	12-14-21	12-17-21	
Naphthalene	ND	0.10	EPA 8270E/SIM	12-14-21	12-14-21	
4-Chloroaniline	ND	1.0	EPA 8270E	12-14-21	12-17-21	
Hexachlorobutadiene	ND	1.0	EPA 8270E	12-14-21	12-17-21	
4-Chloro-3-methylphenol	ND	1.0	EPA 8270E	12-14-21	12-17-21	
2-Methylnaphthalene	ND	0.10	EPA 8270E/SIM	12-14-21	12-14-21	
1-Methylnaphthalene	ND	0.10	EPA 8270E/SIM	12-14-21	12-14-21	
Hexachlorocyclopentadiene	ND	1.0	EPA 8270E	12-14-21	12-17-21	
2,4,6-Trichlorophenol	ND	1.0	EPA 8270E	12-14-21	12-17-21	
2,3-Dichloroaniline	ND	1.0	EPA 8270E	12-14-21	12-17-21	
2,4,5-Trichlorophenol	ND	1.0	EPA 8270E	12-14-21	12-17-21	
2-Chloronaphthalene	ND	1.0	EPA 8270E	12-14-21	12-17-21	
2-Nitroaniline	ND	1.0	EPA 8270E	12-14-21	12-17-21	
1,4-Dinitrobenzene	ND	1.0	EPA 8270E	12-14-21	12-17-21	
Dimethylphthalate	ND	5.0	EPA 8270E	12-14-21	12-17-21	
1,3-Dinitrobenzene	ND	1.0	EPA 8270E	12-14-21	12-17-21	
2,6-Dinitrotoluene	ND	1.0	EPA 8270E	12-14-21	12-17-21	
1,2-Dinitrobenzene	ND	1.0	EPA 8270E	12-14-21	12-17-21	
Acenaphthylene	ND	0.22	EPA 8270E/SIM	12-14-21	12-14-21	
3-Nitroaniline	ND	1.0	EPA 8270E	12-14-21	12-17-21	



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**SEMIVOLATILE ORGANICS EPA 8270E/SIM
 QUALITY CONTROL**

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1214W1					
2,4-Dinitrophenol	ND	5.0	EPA 8270E	12-14-21	12-17-21	
Acenaphthene	ND	0.10	EPA 8270E/SIM	12-14-21	12-14-21	
4-Nitrophenol	ND	5.0	EPA 8270E	12-14-21	12-17-21	
2,4-Dinitrotoluene	ND	1.0	EPA 8270E	12-14-21	12-17-21	
Dibenzofuran	ND	1.0	EPA 8270E	12-14-21	12-17-21	
2,3,5,6-Tetrachlorophenol	ND	1.2	EPA 8270E	12-14-21	12-17-21	
2,3,4,6-Tetrachlorophenol	ND	1.0	EPA 8270E	12-14-21	12-17-21	
Diethylphthalate	ND	1.0	EPA 8270E	12-14-21	12-17-21	
4-Chlorophenyl-phenylether	ND	1.0	EPA 8270E	12-14-21	12-17-21	
4-Nitroaniline	ND	1.0	EPA 8270E	12-14-21	12-17-21	
Fluorene	ND	0.10	EPA 8270E/SIM	12-14-21	12-14-21	
4,6-Dinitro-2-methylphenol	ND	5.0	EPA 8270E	12-14-21	12-17-21	
n-Nitrosodiphenylamine	ND	1.0	EPA 8270E	12-14-21	12-17-21	
1,2-Diphenylhydrazine	ND	1.0	EPA 8270E	12-14-21	12-17-21	
4-Bromophenyl-phenylether	ND	1.0	EPA 8270E	12-14-21	12-17-21	
Hexachlorobenzene	ND	1.0	EPA 8270E	12-14-21	12-17-21	
Pentachlorophenol	ND	5.0	EPA 8270E	12-14-21	12-17-21	
Phenanthrene	ND	0.10	EPA 8270E/SIM	12-14-21	12-14-21	
Anthracene	ND	0.10	EPA 8270E/SIM	12-14-21	12-14-21	
Carbazole	ND	1.0	EPA 8270E	12-14-21	12-17-21	
Di-n-butylphthalate	ND	5.0	EPA 8270E	12-14-21	12-17-21	
Fluoranthene	ND	0.10	EPA 8270E/SIM	12-14-21	12-14-21	
Pyrene	ND	0.10	EPA 8270E/SIM	12-14-21	12-14-21	
Butylbenzylphthalate	ND	1.0	EPA 8270E	12-14-21	12-17-21	
bis-2-Ethylhexyladipate	ND	5.0	EPA 8270E	12-14-21	12-17-21	
3,3'-Dichlorobenzidine	ND	1.0	EPA 8270E	12-14-21	12-17-21	
Benzo[a]anthracene	ND	0.010	EPA 8270E/SIM	12-14-21	12-14-21	
Chrysene	ND	0.010	EPA 8270E/SIM	12-14-21	12-14-21	
bis(2-Ethylhexyl)phthalate	ND	5.0	EPA 8270E	12-14-21	12-17-21	
Di-n-octylphthalate	ND	1.0	EPA 8270E	12-14-21	12-17-21	
Benzo[b]fluoranthene	ND	0.010	EPA 8270E/SIM	12-14-21	12-14-21	
Benzo(j,k)fluoranthene	ND	0.010	EPA 8270E/SIM	12-14-21	12-14-21	
Benzo[a]pyrene	ND	0.010	EPA 8270E/SIM	12-14-21	12-14-21	
Indeno[1,2,3-cd]pyrene	ND	0.010	EPA 8270E/SIM	12-14-21	12-14-21	
Dibenz[a,h]anthracene	ND	0.010	EPA 8270E/SIM	12-14-21	12-14-21	
Benzo[g,h,i]perylene	ND	0.010	EPA 8270E/SIM	12-14-21	12-14-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
2-Fluorophenol	39	10 - 82				
Phenol-d6	30	10 - 92				
Nitrobenzene-d5	59	32 - 105				
2-Fluorobiphenyl	67	38 - 105				
2,4,6-Tribromophenol	88	25 - 124				
Terphenyl-d14	72	42 - 116				



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**SEMIVOLATILE ORGANICS EPA 8270E/SIM
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD	RPD	Flags
					Recovery	Limits	Limit			
SPIKE BLANKS										
Laboratory ID:	SB1214W1									
	SB	SBD	SB	SBD	SB	SBD				
Phenol	15.8	13.4	40.0	40.0	40	34	21 - 53	16	26	
2-Chlorophenol	30.7	27.4	40.0	40.0	77	69	38 - 92	11	28	
1,4-Dichlorobenzene	13.4	11.7	20.0	20.0	67	59	30 - 88	14	32	
n-Nitroso-di-n-propylamine	15.7	14.2	20.0	20.0	79	71	40 - 103	10	27	
1,2,4-Trichlorobenzene	14.5	12.8	20.0	20.0	73	64	37 - 95	12	29	
4-Chloro-3-methylphenol	33.6	29.6	40.0	40.0	84	74	50 - 101	13	17	
Acenaphthene	16.7	14.7	20.0	20.0	84	74	46 - 97	13	19	
4-Nitrophenol	25.0	21.7	40.0	40.0	63	54	23 - 64	14	34	
2,4-Dinitrotoluene	17.6	15.3	20.0	20.0	88	77	46 - 100	14	17	
Pentachlorophenol	39.8	32.9	40.0	40.0	100	82	39 - 123	19	29	
Pyrene	17.0	15.8	20.0	20.0	85	79	52 - 107	7	19	
<i>Surrogate:</i>										
2-Fluorophenol					46	40	10 - 82			
Phenol-d6					36	30	10 - 92			
Nitrobenzene-d5					63	56	32 - 105			
2-Fluorobiphenyl					70	64	38 - 105			
2,4,6-Tribromophenol					92	82	25 - 124			
Terphenyl-d14					71	67	42 - 116			



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**PCBs EPA 8082A
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1213W1					
Aroclor 1016	ND	0.050	EPA 8082A	12-13-21	12-13-21	
Aroclor 1221	ND	0.050	EPA 8082A	12-13-21	12-13-21	
Aroclor 1232	ND	0.050	EPA 8082A	12-13-21	12-13-21	
Aroclor 1242	ND	0.050	EPA 8082A	12-13-21	12-13-21	
Aroclor 1248	ND	0.050	EPA 8082A	12-13-21	12-13-21	
Aroclor 1254	ND	0.050	EPA 8082A	12-13-21	12-13-21	
Aroclor 1260	ND	0.050	EPA 8082A	12-13-21	12-13-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
DCB	90	42-140				

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS											
Laboratory ID:	SB1213W1										
	SB	SBD	SB	SBD		SB	SBD				
Aroclor 1260	0.451	0.485	0.500	0.500	N/A	90	97	73-131	7	12	
<i>Surrogate:</i>											
DCB						90	91	42-140			



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**ORGANOCHLORINE
 PESTICIDES EPA 8081B
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1213W1					
alpha-BHC	ND	0.0050	EPA 8081B	12-13-21	12-13-21	
gamma-BHC (Lindane)	ND	0.0050	EPA 8081B	12-13-21	12-13-21	
beta-BHC	ND	0.0050	EPA 8081B	12-13-21	12-13-21	
delta-BHC	ND	0.0050	EPA 8081B	12-13-21	12-13-21	
Heptachlor	ND	0.0050	EPA 8081B	12-13-21	12-13-21	
Aldrin	ND	0.0020	EPA 8081B	12-13-21	12-13-21	
Heptachlor Epoxide	ND	0.0030	EPA 8081B	12-13-21	12-13-21	
gamma-Chlordane	ND	0.0050	EPA 8081B	12-13-21	12-13-21	
alpha-Chlordane	ND	0.0050	EPA 8081B	12-13-21	12-13-21	
4,4'-DDE	ND	0.0050	EPA 8081B	12-13-21	12-13-21	
Endosulfan I	ND	0.0050	EPA 8081B	12-13-21	12-13-21	
Dieldrin	ND	0.0050	EPA 8081B	12-13-21	12-13-21	
Endrin	ND	0.0050	EPA 8081B	12-13-21	12-13-21	
4,4'-DDD	ND	0.0050	EPA 8081B	12-13-21	12-13-21	
Endosulfan II	ND	0.0050	EPA 8081B	12-13-21	12-13-21	
4,4'-DDT	ND	0.0050	EPA 8081B	12-13-21	12-13-21	
Endrin Aldehyde	ND	0.0050	EPA 8081B	12-13-21	12-13-21	
Methoxychlor	ND	0.010	EPA 8081B	12-13-21	12-13-21	
Endosulfan Sulfate	ND	0.0050	EPA 8081B	12-13-21	12-13-21	
Endrin Ketone	ND	0.020	EPA 8081B	12-13-21	12-13-21	
Toxaphene	ND	0.050	EPA 8081B	12-13-21	12-13-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
TCMX	48	25-114				
DCB	74	30-137				



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**ORGANOCHLORINE
 PESTICIDES EPA 8081B
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS											
Laboratory ID:	SB1213W2										
	SB	SBD	SB	SBD		SB	SBD				
alpha-BHC	0.0790	0.0764	0.100	0.100	N/A	79	76	42-113	3	19	
gamma-BHC (Lindane)	0.0790	0.0774	0.100	0.100	N/A	79	77	45-114	2	15	
beta-BHC	0.0771	0.0746	0.100	0.100	N/A	77	75	40-118	3	15	
delta-BHC	0.0652	0.0634	0.100	0.100	N/A	65	63	20-125	3	15	
Heptachlor	0.0690	0.0659	0.100	0.100	N/A	69	66	41-120	5	16	
Aldrin	0.0630	0.0597	0.100	0.100	N/A	63	60	35-115	5	15	
Heptachlor Epoxide	0.0820	0.0805	0.100	0.100	N/A	82	80	50-118	2	15	
gamma-Chlordane	0.0754	0.0730	0.100	0.100	N/A	75	73	46-110	3	15	
alpha-Chlordane	0.0769	0.0742	0.100	0.100	N/A	77	74	38-112	4	15	
4,4'-DDE	0.0772	0.0773	0.100	0.100	N/A	77	77	41-127	0	15	
Endosulfan I	0.0858	0.0846	0.100	0.100	N/A	86	85	45-119	1	15	
Dieldrin	0.0900	0.0867	0.100	0.100	N/A	90	87	46-115	4	15	
Endrin	0.0877	0.0847	0.100	0.100	N/A	88	85	52-124	3	15	
4,4'-DDD	0.0884	0.0884	0.100	0.100	N/A	88	88	52-121	0	15	
Endosulfan II	0.0853	0.0847	0.100	0.100	N/A	85	85	44-114	1	15	
4,4'-DDT	0.0975	0.0987	0.100	0.100	N/A	98	99	48-123	1	15	
Endrin Aldehyde	0.108	0.106	0.100	0.100	N/A	108	106	45-114	2	15	
Methoxychlor	0.101	0.102	0.100	0.100	N/A	101	102	49-130	1	15	
Endosulfan Sulfate	0.0879	0.0868	0.100	0.100	N/A	88	87	39-117	1	15	
Endrin Ketone	0.0903	0.0881	0.100	0.100	N/A	90	88	53-119	2	15	
Surrogate:											
TCMX						52	49	25-114			
DCB						66	61	30-137			



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TOTAL METALS
EPA 200.7/200.8/7470A
QUALITY CONTROL

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1213WH1					
Iron	ND	56	EPA 200.7	12-13-21	12-13-21	
Manganese	ND	11	EPA 200.7	12-13-21	12-13-21	
METHOD BLANK						
Laboratory ID:	MB1213WM1					
Arsenic	ND	3.3	EPA 200.8	12-13-21	12-13-21	
Cadmium	ND	4.4	EPA 200.8	12-13-21	12-13-21	
Chromium	ND	11	EPA 200.8	12-13-21	12-13-21	
Copper	ND	11	EPA 200.8	12-13-21	12-13-21	
Lead	ND	1.1	EPA 200.8	12-13-21	12-13-21	
Nickel	ND	22	EPA 200.8	12-13-21	12-13-21	
Selenium	ND	5.6	EPA 200.8	12-13-21	12-13-21	
Zinc	ND	28	EPA 200.8	12-13-21	12-13-21	
METHOD BLANK						
Laboratory ID:	MB1215W2					
Mercury	ND	0.025	EPA 7470A	12-15-21	12-15-21	



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TOTAL METALS
EPA 200.7/200.8/7470A
QUALITY CONTROL

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result		Spike Level		Source	Percent	Recovery	RPD		Flags
					Result	Recovery	Limits	RPD	Limit	
DUPLICATE										
Laboratory ID:	12-084-01									
	ORIG	DUP								
Iron	8040	8100	NA	NA		NA	NA	1	20	
Manganese	1810	1840	NA	NA		NA	NA	2	20	
Laboratory ID:	12-089-01									
Arsenic	ND	ND	NA	NA		NA	NA	NA	20	
Cadmium	ND	ND	NA	NA		NA	NA	NA	20	
Chromium	ND	ND	NA	NA		NA	NA	NA	20	
Copper	ND	ND	NA	NA		NA	NA	NA	20	
Lead	ND	ND	NA	NA		NA	NA	NA	20	
Nickel	ND	ND	NA	NA		NA	NA	NA	20	
Selenium	ND	ND	NA	NA		NA	NA	NA	20	
Zinc	ND	ND	NA	NA		NA	NA	NA	20	
Laboratory ID:	12-108-01									
Mercury	ND	ND	NA	NA		NA	NA	NA	20	
MATRIX SPIKES										
Laboratory ID:	12-084-01									
	MS	MSD	MS	MSD		MS	MSD			
Iron	33800	34400	22200	22200	8040	116	119	75-125	2	20
Manganese	2380	2370	556	556	1810	102	100	75-125	0	20
Laboratory ID:	12-089-01									
Arsenic	128	132	111	111	ND	116	119	75-125	3	20
Cadmium	124	130	111	111	ND	112	117	75-125	5	20
Chromium	118	124	111	111	ND	107	112	75-125	5	20
Copper	112	117	111	111	ND	101	105	75-125	4	20
Lead	116	120	111	111	ND	104	108	75-125	4	20
Nickel	115	121	111	111	ND	104	109	75-125	5	20
Selenium	126	133	111	111	ND	114	120	75-125	5	20
Zinc	116	122	111	111	ND	105	110	75-125	5	20
Laboratory ID:	12-108-01									
Mercury	5.60	5.58	6.25	6.25	ND	90	89	75-125	0	20



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**TOTAL DISSOLVED SOLIDS
 SM 2540C
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1213W1					
Total Dissolved Solids	ND	13	SM 2540C	12-13-21	12-14-21	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	12-085-01							
	ORIG	DUP						
Total Dissolved Solids	159	153	NA	NA	NA	4	29	

SPIKE BLANK								
Laboratory ID:	SB1213W1							
	SB	SB		SB				
Total Dissolved Solids	477	500	NA	95	84-110	NA	NA	



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**TOTAL ORGANIC CARBON
 SM 5310B
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1215W1					
Total Organic Carbon	ND	1.0	SM 5310B	12-15-21	12-15-21	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	12-086-01							
	ORIG	DUP						
Total Organic Carbon	2.16	2.27	NA	NA	NA	5	12	

MATRIX SPIKE								
Laboratory ID:	12-086-01							
	MS	MS		MS				
Total Organic Carbon	11.6	10.0	2.16	94	80-125	NA	NA	

SPIKE BLANK								
Laboratory ID:	SB1215W1							
	SB	SB		SB				
Total Organic Carbon	10.7	10.0	NA	107	80-119	NA	NA	



Date of Report: December 21, 2021
 Samples Submitted: December 8, 2021
 Laboratory Reference: 2112-084
 Project: 6694-002-05 T700

AMMONIA (as Nitrogen)
SM 4500-NH₃ D
QUALITY CONTROL

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1213W1					
Ammonia	ND	0.050	SM 4500-NH3 D	12-13-21	12-13-21	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	12-086-01							
	ORIG	DUP						
Ammonia	ND	ND	NA	NA	NA	NA	19	

MATRIX SPIKE								
Laboratory ID:	12-086-01							
	MS	MS		MS				
Ammonia	4.82	5.00	ND	96	80-113	NA	NA	

SPIKE BLANK								
Laboratory ID:	SB1213W1							
	SB	SB		SB				
Ammonia	4.99	5.00	NA	100	88-110	NA	NA	





Data Qualifiers and Abbreviations

- A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.
- B - The analyte indicated was also found in the blank sample.
- C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.
- E - The value reported exceeds the quantitation range and is an estimate.
- F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.
- H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.
- I - Compound recovery is outside of the control limits.
- J - The value reported was below the practical quantitation limit. The value is an estimate.
- K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.
- L - The RPD is outside of the control limits.
- M - Hydrocarbons in the gasoline range are impacting the diesel range result.
- M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.
- N - Hydrocarbons in the lube oil range are impacting the diesel range result.
- N1 - Hydrocarbons in diesel range are impacting lube oil range results.
- O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.
- P - The RPD of the detected concentrations between the two columns is greater than 40.
- Q - Surrogate recovery is outside of the control limits.
- S - Surrogate recovery data is not available due to the necessary dilution of the sample.
- T - The sample chromatogram is not similar to a typical _____.
- U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
- U1 - The practical quantitation limit is elevated due to interferences present in the sample.
- V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.
- W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.
- X - Sample extract treated with a mercury cleanup procedure.
- X1 - Sample extract treated with a sulfuric acid/silica gel cleanup procedure.
- Y - The calibration verification for this analyte exceeded the 20% drift specified in methods 8260 & 8270, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.

Z -

ND - Not Detected at PQL
 PQL - Practical Quantitation Limit
 RPD - Relative Percent Difference





OnSite Environmental Inc

David Baumeister
14648 NE 95th Street
Redmond, WA 98052

RE: 12-084

Work Order Number: 2112178

December 20, 2021

Attention David Baumeister:

Fremont Analytical, Inc. received 1 sample(s) on 12/10/2021 for the analyses presented in the following report.

Herbicides by EPA Method 8151A (GC/MS)

This report consists of the following:

- Case Narrative
- Analytical Results
- Applicable Quality Control Summary Reports
- Chain of Custody

All analyses were performed consistent with the Quality Assurance program of Fremont Analytical, Inc. Please contact the laboratory if you should have any questions about the results.

Thank you for using Fremont Analytical.

Sincerely,

Brianna Barnes
Project Manager



CLIENT: OnSite Environmental Inc
Project: 12-084
Work Order: 2112178

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received
2112178-001	SWS-1-211208	12/08/2021 9:20 AM	12/10/2021 12:21 PM

DRAFT

Note: If no "Time Collected" is supplied, a default of 12:00AM is assigned

CLIENT: OnSite Environmental Inc

Project: 12-084

I. SAMPLE RECEIPT:

Samples receipt information is recorded on the attached Sample Receipt Checklist.

II. GENERAL REPORTING COMMENTS:

Results are reported on a wet weight basis unless dry-weight correction is denoted in the units field on the analytical report ("mg/kg-dry" or "ug/kg-dry").

Matrix Spike (MS) and MS Duplicate (MSD) samples are tested from an analytical batch of "like" matrix to check for possible matrix effect. The MS and MSD will provide site specific matrix data only for those samples which are spiked by the laboratory. The sample chosen for spike purposes may or may not have been a sample submitted in this sample delivery group. The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The LCS and the MB are processed with the samples and the MS/MSD to ensure method criteria are achieved throughout the entire analytical process.

III. ANALYSES AND EXCEPTIONS:

Exceptions associated with this report will be footnoted in the analytical results page(s) or the quality control summary page(s) and/or noted below.

DRAFT

Qualifiers:

- * - Flagged value is not within established control limits
- B - Analyte detected in the associated Method Blank
- D - Dilution was required
- E - Value above quantitation range
- H - Holding times for preparation or analysis exceeded
- I - Analyte with an internal standard that does not meet established acceptance criteria
- J - Analyte detected below Reporting Limit
- N - Tentatively Identified Compound (TIC)
- Q - Analyte with an initial or continuing calibration that does not meet established acceptance criteria
- S - Spike recovery outside accepted recovery limits
- ND - Not detected at the Reporting Limit
- R - High relative percent difference observed

Acronyms:

- %Rec - Percent Recovery
- CCB - Continued Calibration Blank
- CCV - Continued Calibration Verification
- DF - Dilution Factor
- DUP - Sample Duplicate
- HEM - Hexane Extractable Material
- ICV - Initial Calibration Verification
- LCS/LCSD - Laboratory Control Sample / Laboratory Control Sample Duplicate
- MCL - Maximum Contaminant Level
- MB or MBLANK - Method Blank
- MDL - Method Detection Limit
- MS/MSD - Matrix Spike / Matrix Spike Duplicate
- PDS - Post Digestion Spike
- Ref Val - Reference Value
- REP - Sample Replicate
- RL - Reporting Limit
- RPD - Relative Percent Difference
- SD - Serial Dilution
- SGT - Silica Gel Treatment
- SPK - Spike
- Surr - Surrogate



Client: OnSite Environmental Inc
Project: 12-084
Lab ID: 2112178-001
Client Sample ID: SWS-1-211208

Collection Date: 12/8/2021 9:20:00 AM
Matrix: Water

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Herbicides by EPA Method 8151A (GC/MS)

Batch ID: 34715 Analyst: SB

Dicamba	ND	0.987		µg/L	1	12/17/2021 1:57:50 PM
2,4-D	ND	0.987		µg/L	1	12/17/2021 1:57:50 PM
2,4-DP	ND	0.987		µg/L	1	12/17/2021 1:57:50 PM
2,4,5-TP (Silvex)	ND	0.987		µg/L	1	12/17/2021 1:57:50 PM
2,4,5-T	ND	0.987		µg/L	1	12/17/2021 1:57:50 PM
Dinoseb	ND	0.987		µg/L	1	12/17/2021 1:57:50 PM
Dalapon	ND	1.97		µg/L	1	12/17/2021 1:57:50 PM
2,4-DB	ND	0.987		µg/L	1	12/17/2021 1:57:50 PM
MCP	ND	4.93		µg/L	1	12/17/2021 1:57:50 PM
MCPA	ND	4.93		µg/L	1	12/17/2021 1:57:50 PM
Picloram	ND	0.987		µg/L	1	12/17/2021 1:57:50 PM
Bentazon	ND	0.987		µg/L	1	12/17/2021 1:57:50 PM
Chloramben	ND	0.987		µg/L	1	12/17/2021 1:57:50 PM
Acifluorfen	ND	4.93		µg/L	1	12/17/2021 1:57:50 PM
3,5-Dichlorobenzoic acid	ND	0.987		µg/L	1	12/17/2021 1:57:50 PM
4-Nitrophenol	ND	0.987		µg/L	1	12/17/2021 1:57:50 PM
Dacthal (DCPA)	ND	1.97		µg/L	1	12/17/2021 1:57:50 PM
Surr: 2,4-Dichlorophenylacetic acid	110	62.3 - 134		%Rec	1	12/17/2021 1:57:50 PM

Work Order: 2112178
 CLIENT: OnSite Environmental Inc
 Project: 12-084

QC SUMMARY REPORT
Herbicides by EPA Method 8151A (GC/MS)

Sample ID: MB-34715	SampType: MBLK	Units: µg/L	Prep Date: 12/10/2021	RunNo: 72079							
Client ID: MBLKW	Batch ID: 34715		Analysis Date: 12/17/2021	SeqNo: 1470518							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Dicamba	ND	0.988									
2,4-D	ND	0.988									
2,4-DP	ND	0.988									
2,4,5-TP (Silvex)	ND	0.988									
2,4,5-T	ND	0.988									
Dinoseb	ND	0.988									
Dalapon	ND	1.98									
2,4-DB	ND	0.988									
MCPD	ND	4.94									
MCPA	ND	4.94									
Picloram	ND	0.988									
Bentazon	ND	0.988									
Chloramben	ND	0.988									
Acifluorfen	ND	4.94									
3,5-Dichlorobenzoic acid	ND	0.988									
4-Nitrophenol	ND	0.988									
Dacthal (DCPA)	ND	1.98									
Surr: 2,4-Dichlorophenylacetic acid	26.5		19.76		134	62.3	134				

Sample ID: LCS-34715	SampType: LCS	Units: µg/L	Prep Date: 12/10/2021	RunNo: 72079							
Client ID: LCSW	Batch ID: 34715		Analysis Date: 12/17/2021	SeqNo: 1470519							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Dicamba	3.59	0.991	3.963	0	90.6	12.4	143				
2,4-D	4.29	0.991	3.963	0	108	43.3	143				
2,4-DP	3.92	0.991	3.963	0	98.9	49.7	129				
2,4,5-TP (Silvex)	4.00	0.991	3.963	0	101	45.2	134				
2,4,5-T	4.09	0.991	3.963	0	103	43.8	133				
Dinoseb	2.72	0.991	3.963	0	68.6	5	135				
Dalapon	13.3	1.98	19.81	0	67.3	6.92	95.8				

Work Order: 2112178
 CLIENT: OnSite Environmental Inc
 Project: 12-084

QC SUMMARY REPORT
Herbicides by EPA Method 8151A (GC/MS)

Sample ID: LCS-34715	SampType: LCS	Units: µg/L				Prep Date: 12/10/2021	RunNo: 72079				
Client ID: LCSW	Batch ID: 34715					Analysis Date: 12/17/2021	SeqNo: 1470519				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
2,4-DB	3.67	0.991	3.963	0	92.7	42	141				
MCPP	23.4	4.95	19.81	0	118	35	163				
MCPA	23.6	4.95	19.81	0	119	19	171				
Picloram	3.60	0.991	3.963	0	90.9	5	110				
Bentazon	3.43	0.991	3.963	0	86.5	36.1	139				
Chloramben	1.89	0.991	3.963	0	47.7	5	116				
Acifluorfen	2.81	4.95	3.963	0	70.8	8.43	153				
3,5-Dichlorobenzoic acid	3.20	0.991	3.963	0	80.7	56	122				
4-Nitrophenol	1.66	0.991	3.963	0	41.9	9.06	113				
Dacthal (DCPA)	1.34	1.98	3.963	0	34.5	5	54.3				
Surr: 2,4-Dichlorophenylacetic acid	26.6		19.81		134	62.3	134				

Sample ID: LCSW02	SampType: LCSW02	Units: µg/L				Prep Date: 12/10/2021	RunNo: 72079				
Client ID: LCSW02	Batch ID: 34715					Analysis Date: 12/17/2021	SeqNo: 1470520				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dicamba	3.08	0.990	3.961	0	77.7	12.4	143	3.592	15.4	30	
2,4-D	3.55	0.990	3.961	0	89.7	43.3	143	4.288	18.7	30	
2,4-DP	3.35	0.990	3.961	0	84.6	49.7	129	3.921	15.6	30	
2,4,5-TP (Silvex)	3.33	0.990	3.961	0	84.2	45.2	134	4.003	18.2	30	
2,4,5-T	3.50	0.990	3.961	0	88.5	43.8	133	4.085	15.3	30	
Dinoseb	2.00	0.990	3.961	0	50.4	5	135	2.717	30.6	30	
Dalapon	11.5	1.98	19.81	0	57.8	6.92	95.8	13.34	15.2	30	
2,4-DB	3.27	0.990	3.961	0	82.6	42	141	3.672	11.5	30	
MCPP	17.3	4.95	19.81	0	87.4	35	163	23.37	29.8	30	R
MCPA	17.7	4.95	19.81	0	89.3	19	171	23.63	28.8	30	R
Picloram	3.06	0.990	3.961	0	77.3	5	110	3.603	16.3	30	
Bentazon	2.96	0.990	3.961	0	74.7	36.1	139	3.427	14.6	30	
Chloramben	1.77	0.990	3.961	0	44.6	5	116	1.889	6.74	30	
Acifluorfen	2.62	4.95	3.961	0	66.2	8.43	153	2.807	6.76	30	

Work Order: 2112178
 CLIENT: OnSite Environmental Inc
 Project: 12-084

QC SUMMARY REPORT
Herbicides by EPA Method 8151A (GC/MS)

Sample ID: LCS D-34715	SampType: LCS D	Units: µg/L	Prep Date: 12/10/2021	RunNo: 72079							
Client ID: LCSW02	Batch ID: 34715		Analysis Date: 12/17/2021	SeqNo: 1470520							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
3,5-Dichlorobenzoic acid	2.80	0.990	3.961	0	70.7	56	122	3.198	13.3	30	
4-Nitrophenol	1.47	0.990	3.961	0	37.0	9.06	113	1.661	12.3	30	
Dacthal (DCPA)	1.17	1.98	3.961	0	29.5	5	54.3	1.369	15.8	30	
Surr: 2,4-Dichlorophenylacetic acid	22.7		19.81		115	62.3	134		0		

NOTES:

R - High RPD observed, spike recovery is within range.

Sample ID: 2112120-001AMS	SampType: MS	Units: µg/L	Prep Date: 12/10/2021	RunNo: 72079							
Client ID: BATCH	Batch ID: 34715		Analysis Date: 12/17/2021	SeqNo: 1470522							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dicamba	3.19	0.996	3.985	0	80.0	32.5	139				
2,4-D	3.73	0.996	3.985	0	93.5	45.9	150				
2,4-DP	3.44	0.996	3.985	0	86.3	44.1	144				
2,4,5-TP (Silvex)	3.53	0.996	3.985	0	88.5	46.3	136				
2,4,5-T	3.58	0.996	3.985	0	89.8	37	145				
Dinoseb	2.38	0.996	3.985	0	59.7	32.1	115				
Dalapon	12.3	1.99	19.92	0	62.0	17.7	108				
2,4-DB	3.27	0.996	3.985	0	82.0	37.6	153				
MCP P	17.7	4.98	19.92	0	88.9	41.3	186				
MCP A	18.1	4.98	19.92	0	90.9	48.9	173				
Picloram	3.52	0.996	3.985	0	88.4	23.2	104				
Bentazon	3.22	0.996	3.985	0	80.8	13.2	186				
Chloramben	1.85	0.996	3.985	0	46.4	5	115				
Acifluorfen	2.59	4.98	3.985	0	65.0	27.1	141				
3,5-Dichlorobenzoic acid	2.99	0.996	3.985	0	75.1	35.3	149				
4-Nitrophenol	1.49	0.996	3.985	0	37.3	5	118				
Dacthal (DCPA)	1.14	1.99	3.985	0	28.7	5	92.5				
Surr: 2,4-Dichlorophenylacetic acid	24.1		19.92		121	62.3	134				

Client Name: **ONSITE**

 Work Order Number: **2112178**

 Logged by: **Gabrielle Coeulle**

 Date Received: **12/10/2021 12:21:00 PM**

Chain of Custody

1. Is Chain of Custody complete? Yes No Not Present
2. How was the sample delivered? Courier

Log In

3. Coolers are present? Yes No NA
4. Shipping container/cooler in good condition? Yes No
5. Custody Seals present on shipping container/cooler?
(Refer to comments for Custody Seals not intact) Yes No Not Present
6. Was an attempt made to cool the samples? Yes No NA
7. Were all items received at a temperature of >2°C to 6°C * Yes No NA
8. Sample(s) in proper container(s)? Yes No
9. Sufficient sample volume for indicated test(s)? Yes No
10. Are samples properly preserved? Yes No
11. Was preservative added to bottles? Yes No NA
12. Is there headspace in the VOA vials? Yes No NA
13. Did all samples containers arrive in good condition(unbroken)? Yes No
14. Does paperwork match bottle labels? Yes No
15. Are matrices correctly identified on Chain of Custody? Yes No
16. Is it clear what analyses were requested? Yes No
17. Were all holding times able to be met? Yes No

Special Handling (if applicable)

18. Was client notified of all discrepancies with this order? Yes No NA

Person Notified:	<input type="text"/>	Date:	<input type="text"/>
By Whom:	<input type="text"/>	Via:	<input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:	<input type="text"/>		
Client Instructions:	<input type="text"/>		

19. Additional remarks:

Item Information

Item #	Temp °C
Sample 1	5.7

* Note: DoD/ELAP and TNI require items to be received at 4°C +/- 2°C



14648 NE 95th Street, Redmond, WA 98052 · (425) 883-3881

2112178

Laboratory Reference #: 12-084

Laboratory: Fremont Analytical

Turnaround Request

Project Manager: David Baumeister

Attention: Chelsea Ward

1 Day 2 Day 3 Day

email: dbaumeister@onsite-env.com

3600 Fremont Avenue N, Seattle, WA 98103

Standard

Project Number: 669400205

Phone Number: (206) 352-3790

Other: _____

Project Name: _____

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	# of Cont.	Requested Analyses
	SWS-1-211208	12/8/21	9:20	W	1	Chlorinated Acid Herbicides 8151A

Signature	Company	Date	Time	Comments/Special Instructions
Relinquished by: <i>[Signature]</i>	OSE	12/10/21	10:40	EDDs
Received by: <i>[Signature]</i>	alpha	12/10/21	10:40	
Relinquished by: <i>[Signature]</i>	alpha	12/10/21	12:15	
Received by: <i>[Signature]</i>	OF AI	12/10/21	12:21	
Relinquished by:				
Received by:				

Chain of Custody

Company: Geo Engineers

Project Number: 66940208

Project Name: Gas East

Project Manager: Garrett League

Sampled by: Dexter Chen

Turnaround Request (in working days)

(Check One)

Same Day 1 Day

2 Days 3 Days

Standard (7 Days)

_____ (other)

Laboratory Number: **12-084**

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	Analytical Parameters																							
						NWTPH-HCID	NWTPH-Gx/BTEX	NWTPH-Gx	NWTPH-Dx Acid / SG Clean-up with #W/Inout	Volatiles 8260D	Halogenated Volatiles 8260D	EDB EPA 8011 (Waters Only)	Semivolatiles 8270E/SIM (with low-level PAHs)	PAHs 8270E/SIM (low-level)	PCBs 8082A	Organochlorine Pesticides 8081B	Organophosphorus Pesticides 8270E/SIM	Chlorinated Acid Herbicides 8151A	Total HCRA-Metals ***	Total WTCM-Metals ***	TCLP Metals	HEM (oil and grease) 1664A	TDS, TOC	CL, NO3, SO4, NH3	Dissolved Ca, K, Na	% Moisture			
1	SWS-1-21208	12/8/21	0920	Sw	5		X	X	X			X			X	X	X	X					X	X	X				
2	Seep-1-21208	12/8/21	1040	Sw	4													X					X	X					
3	TB-1-21208	12/8/21			1																								

Signature	Company	Date	Time	Comments/Special Instructions
<u>[Signature]</u>	<u>Geo</u>	<u>12/8/21</u>		<u>See Garrett for full list of analytes</u> <u>* Total metals - As, Cd, Cr, Cu, Fe, Pb, Mn, Hg, Ni, Se, Zn</u> <u>** Total metals - As, Fe, Mn</u> <u>X - 12/9/21 NB-Added (STA)</u>
<u>[Signature]</u>	<u>OSE</u>	<u>12/8/21</u>	<u>1345</u>	
Relinquished				
Received				
Relinquished				
Received				
Relinquished				
Received				
Reviewed/Date	Reviewed/Date	Chromatograms with final report <input type="checkbox"/> Electronic Data Deliverables (EDDs) <input type="checkbox"/>		



14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

December 21, 2021

Garrett Leque
GeoEngineers, Inc.
554 West Bakerview Road
Bellingham, WA 98226

Re: Analytical Data for Project 6694-002-05 T700
Laboratory Reference No. 2112-085

Dear Garrett:

Enclosed are the analytical results and associated quality control data for samples submitted on December 8, 2021.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

A handwritten signature in black ink, appearing to read "DB", with a long horizontal stroke extending to the right.

David Baumeister
Project Manager

Enclosures



Date of Report: December 21, 2021
Samples Submitted: December 8, 2021
Laboratory Reference: 2112-085
Project: 6694-002-05 T700

Case Narrative

Samples were collected on December 7, 2021 and received by the laboratory on December 8, 2021. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

Nitrate (as Nitrogen) Analysis EPA 353.2

The reported Nitrate results are a calculated value based on the subtraction of Nitrite from the Nitrate plus Nitrite result. The Nitrite analysis, which has a 48-hour holding time, was performed outside of the holding time. An aliquot of each sample was preserved with concentrated sulfuric acid and stored at 4 degrees C. The preserved samples were then analyzed within the maximum 28-day holding time for the Nitrate plus Nitrite analysis.

Any other QA/QC issues associated with this extraction and analysis will be indicated with a footnote reference and discussed in detail on the Data Qualifier page.



Date of Report: December 21, 2021
Samples Submitted: December 8, 2021
Laboratory Reference: 2112-085
Project: 6694-002-05 T700

ANALYTICAL REPORT FOR SAMPLES

Client ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
MW5-211207	12-085-01	Water	12-7-21	12-8-21	

DRAFT



Date of Report: December 21, 2021
 Samples Submitted: December 8, 2021
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 Project: 6694-002-05 T700

GASOLINE RANGE ORGANICS
NWTPH-Gx

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW5-211207					
Laboratory ID:	12-085-01					
Gasoline	ND	100	NWTPH-Gx	12-13-21	12-13-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	89	66-117				



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 Project: 6694-002-05 T700

**DIESEL AND HEAVY OIL RANGE ORGANICS
 NWTPH-Dx**

Matrix: Water
 Units: mg/L (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW5-211207					
Laboratory ID:	12-085-01					
Diesel Range Organics	ND	0.15	NWTPH-Dx	12-10-21	12-10-21	
Lube Oil Range Organics	ND	0.20	NWTPH-Dx	12-10-21	12-10-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	<i>105</i>	<i>50-150</i>				



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VOLATILE ORGANICS EPA 8260D
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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW5-211207					
Laboratory ID:	12-085-01					
Dichlorodifluoromethane	ND	0.30	EPA 8260D	12-10-21	12-10-21	
Chloromethane	ND	1.3	EPA 8260D	12-10-21	12-10-21	
Vinyl Chloride	ND	0.20	EPA 8260D	12-10-21	12-10-21	
Bromomethane	ND	0.20	EPA 8260D	12-10-21	12-10-21	
Chloroethane	ND	1.0	EPA 8260D	12-10-21	12-10-21	
Trichlorofluoromethane	ND	0.20	EPA 8260D	12-10-21	12-10-21	
1,1-Dichloroethene	ND	0.20	EPA 8260D	12-10-21	12-10-21	
Acetone	ND	5.0	EPA 8260D	12-10-21	12-10-21	
Iodomethane	ND	1.5	EPA 8260D	12-10-21	12-10-21	
Carbon Disulfide	ND	0.20	EPA 8260D	12-10-21	12-10-21	
Methylene Chloride	ND	1.0	EPA 8260D	12-10-21	12-10-21	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	12-10-21	12-10-21	
Methyl t-Butyl Ether	ND	0.20	EPA 8260D	12-10-21	12-10-21	
1,1-Dichloroethane	ND	0.20	EPA 8260D	12-10-21	12-10-21	
Vinyl Acetate	ND	1.0	EPA 8260D	12-10-21	12-10-21	
2,2-Dichloropropane	ND	0.20	EPA 8260D	12-10-21	12-10-21	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	12-10-21	12-10-21	
2-Butanone	ND	5.0	EPA 8260D	12-10-21	12-10-21	
Bromochloromethane	ND	0.20	EPA 8260D	12-10-21	12-10-21	
Chloroform	ND	0.20	EPA 8260D	12-10-21	12-10-21	
1,1,1-Trichloroethane	ND	0.20	EPA 8260D	12-10-21	12-10-21	
Carbon Tetrachloride	ND	0.20	EPA 8260D	12-10-21	12-10-21	
1,1-Dichloropropene	ND	0.20	EPA 8260D	12-10-21	12-10-21	
Benzene	ND	0.20	EPA 8260D	12-10-21	12-10-21	
1,2-Dichloroethane	ND	0.20	EPA 8260D	12-10-21	12-10-21	
Trichloroethene	ND	0.20	EPA 8260D	12-10-21	12-10-21	
1,2-Dichloropropane	ND	0.20	EPA 8260D	12-10-21	12-10-21	
Dibromomethane	ND	0.20	EPA 8260D	12-10-21	12-10-21	
Bromodichloromethane	ND	0.20	EPA 8260D	12-10-21	12-10-21	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260D	12-10-21	12-10-21	
Methyl Isobutyl Ketone	ND	2.0	EPA 8260D	12-10-21	12-10-21	
Toluene	ND	1.0	EPA 8260D	12-10-21	12-10-21	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260D	12-10-21	12-10-21	



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VOLATILE ORGANICS EPA 8260D
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW5-211207					
Laboratory ID:	12-085-01					
1,1,2-Trichloroethane	ND	0.20	EPA 8260D	12-10-21	12-10-21	
Tetrachloroethene	ND	0.20	EPA 8260D	12-10-21	12-10-21	
1,3-Dichloropropane	ND	0.20	EPA 8260D	12-10-21	12-10-21	
2-Hexanone	ND	2.0	EPA 8260D	12-10-21	12-10-21	
Dibromochloromethane	ND	0.20	EPA 8260D	12-10-21	12-10-21	
1,2-Dibromoethane	ND	0.20	EPA 8260D	12-10-21	12-10-21	
Chlorobenzene	ND	0.20	EPA 8260D	12-10-21	12-10-21	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260D	12-10-21	12-10-21	
Ethylbenzene	ND	0.20	EPA 8260D	12-10-21	12-10-21	
m,p-Xylene	ND	0.40	EPA 8260D	12-10-21	12-10-21	
o-Xylene	ND	0.20	EPA 8260D	12-10-21	12-10-21	
Styrene	ND	0.20	EPA 8260D	12-10-21	12-10-21	
Bromoform	ND	1.0	EPA 8260D	12-10-21	12-10-21	
Isopropylbenzene	ND	0.20	EPA 8260D	12-10-21	12-10-21	
Bromobenzene	ND	0.20	EPA 8260D	12-10-21	12-10-21	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260D	12-10-21	12-10-21	
1,2,3-Trichloropropane	ND	0.20	EPA 8260D	12-10-21	12-10-21	
n-Propylbenzene	ND	0.20	EPA 8260D	12-10-21	12-10-21	
2-Chlorotoluene	ND	0.20	EPA 8260D	12-10-21	12-10-21	
4-Chlorotoluene	ND	0.20	EPA 8260D	12-10-21	12-10-21	
1,3,5-Trimethylbenzene	ND	0.20	EPA 8260D	12-10-21	12-10-21	
tert-Butylbenzene	ND	0.20	EPA 8260D	12-10-21	12-10-21	
1,2,4-Trimethylbenzene	ND	0.20	EPA 8260D	12-10-21	12-10-21	
sec-Butylbenzene	ND	0.20	EPA 8260D	12-10-21	12-10-21	
1,3-Dichlorobenzene	ND	0.20	EPA 8260D	12-10-21	12-10-21	
p-Isopropyltoluene	ND	0.20	EPA 8260D	12-10-21	12-10-21	
1,4-Dichlorobenzene	ND	0.20	EPA 8260D	12-10-21	12-10-21	
1,2-Dichlorobenzene	ND	0.20	EPA 8260D	12-10-21	12-10-21	
n-Butylbenzene	ND	0.20	EPA 8260D	12-10-21	12-10-21	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260D	12-10-21	12-10-21	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260D	12-10-21	12-10-21	
Hexachlorobutadiene	ND	1.0	EPA 8260D	12-10-21	12-10-21	
Naphthalene	ND	1.0	EPA 8260D	12-10-21	12-10-21	
1,2,3-Trichlorobenzene	ND	0.25	EPA 8260D	12-10-21	12-10-21	
Surrogate:	Percent Recovery	Control Limits				
<i>Dibromofluoromethane</i>	96	75-127				
<i>Toluene-d8</i>	99	80-127				
<i>4-Bromofluorobenzene</i>	99	78-125				



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SEMIVOLATILE ORGANICS EPA 8270E/SIM
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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW5-211207					
Laboratory ID:	12-085-01					
n-Nitrosodimethylamine	ND	0.95	EPA 8270E	12-14-21	12-17-21	
Pyridine	ND	0.95	EPA 8270E	12-14-21	12-17-21	
Phenol	ND	0.95	EPA 8270E	12-14-21	12-17-21	
Aniline	ND	4.7	EPA 8270E	12-14-21	12-17-21	
bis(2-Chloroethyl)ether	ND	0.95	EPA 8270E	12-14-21	12-17-21	
2-Chlorophenol	ND	0.95	EPA 8270E	12-14-21	12-17-21	
1,3-Dichlorobenzene	ND	0.95	EPA 8270E	12-14-21	12-17-21	
1,4-Dichlorobenzene	ND	0.95	EPA 8270E	12-14-21	12-17-21	
Benzyl alcohol	ND	0.95	EPA 8270E	12-14-21	12-17-21	
1,2-Dichlorobenzene	ND	0.95	EPA 8270E	12-14-21	12-17-21	
2-Methylphenol (o-Cresol)	ND	0.95	EPA 8270E	12-14-21	12-17-21	
bis(2-Chloroisopropyl)ether	ND	0.95	EPA 8270E	12-14-21	12-17-21	
(3+4)-Methylphenol (m,p-Cresol)	ND	0.95	EPA 8270E	12-14-21	12-17-21	
n-Nitroso-di-n-propylamine	ND	0.95	EPA 8270E	12-14-21	12-17-21	
Hexachloroethane	ND	0.95	EPA 8270E	12-14-21	12-17-21	
Nitrobenzene	ND	0.95	EPA 8270E	12-14-21	12-17-21	
Isophorone	ND	0.95	EPA 8270E	12-14-21	12-17-21	
2-Nitrophenol	ND	0.95	EPA 8270E	12-14-21	12-17-21	
2,4-Dimethylphenol	ND	0.95	EPA 8270E	12-14-21	12-17-21	
bis(2-Chloroethoxy)methane	ND	0.95	EPA 8270E	12-14-21	12-17-21	
2,4-Dichlorophenol	ND	0.95	EPA 8270E	12-14-21	12-17-21	
1,2,4-Trichlorobenzene	ND	0.95	EPA 8270E	12-14-21	12-17-21	
Naphthalene	ND	0.095	EPA 8270E/SIM	12-14-21	12-14-21	
4-Chloroaniline	ND	0.95	EPA 8270E	12-14-21	12-17-21	
Hexachlorobutadiene	ND	0.95	EPA 8270E	12-14-21	12-17-21	
4-Chloro-3-methylphenol	ND	0.95	EPA 8270E	12-14-21	12-17-21	
2-Methylnaphthalene	ND	0.095	EPA 8270E/SIM	12-14-21	12-14-21	
1-Methylnaphthalene	ND	0.095	EPA 8270E/SIM	12-14-21	12-14-21	
Hexachlorocyclopentadiene	ND	0.95	EPA 8270E	12-14-21	12-17-21	
2,4,6-Trichlorophenol	ND	0.95	EPA 8270E	12-14-21	12-17-21	
2,3-Dichloroaniline	ND	0.95	EPA 8270E	12-14-21	12-17-21	
2,4,5-Trichlorophenol	ND	0.95	EPA 8270E	12-14-21	12-17-21	
2-Chloronaphthalene	ND	0.95	EPA 8270E	12-14-21	12-17-21	
2-Nitroaniline	ND	0.95	EPA 8270E	12-14-21	12-17-21	
1,4-Dinitrobenzene	ND	0.95	EPA 8270E	12-14-21	12-17-21	
Dimethylphthalate	ND	4.7	EPA 8270E	12-14-21	12-17-21	
1,3-Dinitrobenzene	ND	0.95	EPA 8270E	12-14-21	12-17-21	
2,6-Dinitrotoluene	ND	0.95	EPA 8270E	12-14-21	12-17-21	
1,2-Dinitrobenzene	ND	0.95	EPA 8270E	12-14-21	12-17-21	
Acenaphthylene	ND	0.21	EPA 8270E/SIM	12-14-21	12-14-21	
3-Nitroaniline	ND	0.95	EPA 8270E	12-14-21	12-17-21	



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SEMIVOLATILE ORGANICS EPA 8270E/SIM
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW5-211207					
Laboratory ID:	12-085-01					
2,4-Dinitrophenol	ND	4.7	EPA 8270E	12-14-21	12-17-21	
Acenaphthene	ND	0.095	EPA 8270E/SIM	12-14-21	12-14-21	
4-Nitrophenol	ND	4.7	EPA 8270E	12-14-21	12-17-21	
2,4-Dinitrotoluene	ND	0.95	EPA 8270E	12-14-21	12-17-21	
Dibenzofuran	ND	0.95	EPA 8270E	12-14-21	12-17-21	
2,3,5,6-Tetrachlorophenol	ND	1.1	EPA 8270E	12-14-21	12-17-21	
2,3,4,6-Tetrachlorophenol	ND	0.95	EPA 8270E	12-14-21	12-17-21	
Diethylphthalate	ND	0.95	EPA 8270E	12-14-21	12-17-21	
4-Chlorophenyl-phenylether	ND	0.95	EPA 8270E	12-14-21	12-17-21	
4-Nitroaniline	ND	0.95	EPA 8270E	12-14-21	12-17-21	
Fluorene	ND	0.095	EPA 8270E/SIM	12-14-21	12-14-21	
4,6-Dinitro-2-methylphenol	ND	4.7	EPA 8270E	12-14-21	12-17-21	
n-Nitrosodiphenylamine	ND	0.95	EPA 8270E	12-14-21	12-17-21	
1,2-Diphenylhydrazine	ND	0.95	EPA 8270E	12-14-21	12-17-21	
4-Bromophenyl-phenylether	ND	0.95	EPA 8270E	12-14-21	12-17-21	
Hexachlorobenzene	ND	0.95	EPA 8270E	12-14-21	12-17-21	
Pentachlorophenol	ND	4.7	EPA 8270E	12-14-21	12-17-21	
Phenanthrene	ND	0.095	EPA 8270E/SIM	12-14-21	12-14-21	
Anthracene	ND	0.095	EPA 8270E/SIM	12-14-21	12-14-21	
Carbazole	ND	0.95	EPA 8270E	12-14-21	12-17-21	
Di-n-butylphthalate	ND	4.7	EPA 8270E	12-14-21	12-17-21	
Fluoranthene	ND	0.095	EPA 8270E/SIM	12-14-21	12-14-21	
Pyrene	ND	0.095	EPA 8270E/SIM	12-14-21	12-14-21	
Butylbenzylphthalate	ND	0.95	EPA 8270E	12-14-21	12-17-21	
bis(2-Ethylhexyl)adipate	ND	4.7	EPA 8270E	12-14-21	12-17-21	
3,3'-Dichlorobenzidine	ND	0.95	EPA 8270E	12-14-21	12-17-21	
Benzo[a]anthracene	ND	0.0095	EPA 8270E/SIM	12-14-21	12-14-21	
Chrysene	ND	0.0095	EPA 8270E/SIM	12-14-21	12-14-21	
bis(2-Ethylhexyl)phthalate	ND	4.7	EPA 8270E	12-14-21	12-17-21	
Di-n-octylphthalate	ND	0.95	EPA 8270E	12-14-21	12-17-21	
Benzo[b]fluoranthene	ND	0.0095	EPA 8270E/SIM	12-14-21	12-14-21	
Benzo(j,k)fluoranthene	ND	0.0095	EPA 8270E/SIM	12-14-21	12-14-21	
Benzo[a]pyrene	ND	0.0095	EPA 8270E/SIM	12-14-21	12-14-21	
Indeno[1,2,3-cd]pyrene	ND	0.0095	EPA 8270E/SIM	12-14-21	12-14-21	
Dibenz[a,h]anthracene	ND	0.0095	EPA 8270E/SIM	12-14-21	12-14-21	
Benzo[g,h,i]perylene	ND	0.0095	EPA 8270E/SIM	12-14-21	12-14-21	
Surrogate:	Percent Recovery	Control Limits				
2-Fluorophenol	38	10 - 82				
Phenol-d6	28	10 - 92				
Nitrobenzene-d5	60	32 - 105				
2-Fluorobiphenyl	67	38 - 105				
2,4,6-Tribromophenol	89	25 - 124				
Terphenyl-d14	70	42 - 116				



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PCBs EPA 8082A

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW5-211207					
Laboratory ID:	12-085-01					
Aroclor 1016	ND	0.048	EPA 8082A	12-13-21	12-15-21	
Aroclor 1221	ND	0.048	EPA 8082A	12-13-21	12-15-21	
Aroclor 1232	ND	0.048	EPA 8082A	12-13-21	12-15-21	
Aroclor 1242	ND	0.048	EPA 8082A	12-13-21	12-15-21	
Aroclor 1248	ND	0.048	EPA 8082A	12-13-21	12-15-21	
Aroclor 1254	ND	0.048	EPA 8082A	12-13-21	12-15-21	
Aroclor 1260	ND	0.048	EPA 8082A	12-13-21	12-15-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>DCB</i>	85	42-140				



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**ORGANOCHLORINE
 PESTICIDES EPA 8081B**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW5-211207					
Laboratory ID:	12-085-01					
alpha-BHC	ND	0.0048	EPA 8081B	12-13-21	12-13-21	
gamma-BHC (Lindane)	ND	0.0048	EPA 8081B	12-13-21	12-13-21	
beta-BHC	ND	0.0048	EPA 8081B	12-13-21	12-13-21	
delta-BHC	ND	0.0048	EPA 8081B	12-13-21	12-13-21	
Heptachlor	ND	0.0048	EPA 8081B	12-13-21	12-13-21	
Aldrin	ND	0.0019	EPA 8081B	12-13-21	12-13-21	
Heptachlor Epoxide	ND	0.0029	EPA 8081B	12-13-21	12-13-21	
gamma-Chlordane	ND	0.0048	EPA 8081B	12-13-21	12-13-21	
alpha-Chlordane	ND	0.0048	EPA 8081B	12-13-21	12-13-21	
4,4'-DDE	ND	0.0048	EPA 8081B	12-13-21	12-13-21	
Endosulfan I	ND	0.0048	EPA 8081B	12-13-21	12-13-21	
Dieldrin	ND	0.0048	EPA 8081B	12-13-21	12-13-21	
Endrin	ND	0.0048	EPA 8081B	12-13-21	12-13-21	
4,4'-DDD	ND	0.0048	EPA 8081B	12-13-21	12-13-21	
Endosulfan II	ND	0.0048	EPA 8081B	12-13-21	12-13-21	
4,4'-DDT	ND	0.0048	EPA 8081B	12-13-21	12-13-21	
Endrin Aldehyde	ND	0.0048	EPA 8081B	12-13-21	12-13-21	
Methoxychlor	ND	0.0095	EPA 8081B	12-13-21	12-13-21	
Endosulfan Sulfate	ND	0.0048	EPA 8081B	12-13-21	12-13-21	
Endrin Ketone	ND	0.019	EPA 8081B	12-13-21	12-13-21	
Toxaphene	ND	0.048	EPA 8081B	12-13-21	12-13-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
TCMX	66	25-114				
DCB	69	30-137				



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TOTAL METALS
EPA 200.7/200.8/7470A

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW5-211207					
Laboratory ID:	12-085-01					
Arsenic	5.1	3.3	EPA 200.8	12-13-21	12-13-21	
Cadmium	ND	4.4	EPA 200.8	12-13-21	12-13-21	
Chromium	ND	11	EPA 200.8	12-13-21	12-13-21	
Copper	ND	11	EPA 200.8	12-13-21	12-13-21	
Iron	360	56	EPA 200.7	12-13-21	12-13-21	
Lead	ND	1.1	EPA 200.8	12-13-21	12-13-21	
Magnesium	17000	1100	EPA 200.7	12-13-21	12-13-21	
Manganese	390	11	EPA 200.7	12-13-21	12-13-21	
Mercury	ND	0.025	EPA 7470A	12-15-21	12-15-21	
Nickel	ND	22	EPA 200.8	12-13-21	12-13-21	
Selenium	ND	5.6	EPA 200.8	12-13-21	12-13-21	
Zinc	ND	28	EPA 200.8	12-13-21	12-13-21	



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DISSOLVED METALS
EPA 200.7/200.8/7470A

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW5-211207					
Laboratory ID:	12-085-01					
Arsenic	4.2	3.0	EPA 200.8		12-10-21	
Cadmium	ND	4.0	EPA 200.8		12-10-21	
Calcium	27000	1100	EPA 200.7		12-10-21	
Chromium	ND	10	EPA 200.8		12-10-21	
Copper	ND	10	EPA 200.8		12-10-21	
Iron	ND	56	EPA 200.7		12-10-21	
Lead	ND	1.0	EPA 200.8		12-10-21	
Magnesium	15000	1100	EPA 200.7		12-10-21	
Manganese	330	11	EPA 200.7		12-10-21	
Mercury	ND	0.025	EPA 7470A		12-17-21	
Nickel	ND	20	EPA 200.8		12-10-21	
Potassium	2000	1100	EPA 200.7		12-10-21	
Selenium	ND	5.0	EPA 200.8		12-10-21	
Sodium	7400	1100	EPA 200.7		12-10-21	
Zinc	ND	25	EPA 200.8		12-10-21	



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**TOTAL DISSOLVED SOLIDS
SM 2540C**

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW5-211207					
Laboratory ID:	12-085-01					
Total Dissolved Solids	160	13	SM 2540C	12-13-21	12-14-21	



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CHLORIDE
SM 4500-Cl E

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW5-211207					
Laboratory ID:	12-085-01					
Chloride	7.3	2.0	SM 4500-Cl E	12-14-21	12-14-21	



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NITRATE (as Nitrogen)
EPA 353.2

Matrix: Water
Units: mg/L-N

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW5-211207					
Laboratory ID:	12-085-01					
Nitrate	0.21	0.050	EPA 353.2	12-10-21	12-10-21	



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SULFATE
ASTM D516-11

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW5-211207					
Laboratory ID:	12-085-01					
Sulfate	14	5.0	ASTM D516-11	12-10-21	12-10-21	



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AMMONIA (as Nitrogen)
SM 4500-NH₃ D

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW5-211207					
Laboratory ID:	12-085-01					
Ammonia	ND	0.050	SM 4500-NH3 D	12-13-21	12-13-21	



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**GASOLINE RANGE ORGANICS
 NWTPH-Gx
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1213W1					
Gasoline	ND	100	NWTPH-Gx	12-13-21	12-13-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	90	66-117				

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	12-084-01							
	ORIG	DUP						
Gasoline	ND	ND	NA	NA	NA	NA	30	
<i>Surrogate:</i>								
<i>Fluorobenzene</i>				90	89	66-117		



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**DIESEL AND HEAVY OIL RANGE ORGANICS
 NWTPH-Dx
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1210W1					
Diesel Range Organics	ND	0.12	NWTPH-Dx	12-10-21	12-10-21	
Lube Oil Range Organics	ND	0.16	NWTPH-Dx	12-10-21	12-10-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	92	50-150				

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	12-085-01							
	ORIG	DUP						
Diesel Range	ND	ND	NA	NA	NA	NA	NA	NA
Lube Oil Range	ND	ND	NA	NA	NA	NA	NA	NA
<i>Surrogate:</i>								
<i>o-Terphenyl</i>				105	102	50-150		



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VOLATILE ORGANICS EPA 8260D
QUALITY CONTROL
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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1210W1					
Dichlorodifluoromethane	ND	0.30	EPA 8260D	12-10-21	12-10-21	
Chloromethane	ND	1.3	EPA 8260D	12-10-21	12-10-21	
Vinyl Chloride	ND	0.20	EPA 8260D	12-10-21	12-10-21	
Bromomethane	ND	0.20	EPA 8260D	12-10-21	12-10-21	
Chloroethane	ND	1.0	EPA 8260D	12-10-21	12-10-21	
Trichlorofluoromethane	ND	0.20	EPA 8260D	12-10-21	12-10-21	
1,1-Dichloroethene	ND	0.20	EPA 8260D	12-10-21	12-10-21	
Acetone	ND	5.0	EPA 8260D	12-10-21	12-10-21	
Iodomethane	ND	1.5	EPA 8260D	12-10-21	12-10-21	
Carbon Disulfide	ND	0.20	EPA 8260D	12-10-21	12-10-21	
Methylene Chloride	ND	1.0	EPA 8260D	12-10-21	12-10-21	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	12-10-21	12-10-21	
Methyl t-Butyl Ether	ND	0.20	EPA 8260D	12-10-21	12-10-21	
1,1-Dichloroethane	ND	0.20	EPA 8260D	12-10-21	12-10-21	
Vinyl Acetate	ND	1.0	EPA 8260D	12-10-21	12-10-21	
2,2-Dichloropropane	ND	0.20	EPA 8260D	12-10-21	12-10-21	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	12-10-21	12-10-21	
2-Butanone	ND	5.0	EPA 8260D	12-10-21	12-10-21	
Bromochloromethane	ND	0.20	EPA 8260D	12-10-21	12-10-21	
Chloroform	ND	0.20	EPA 8260D	12-10-21	12-10-21	
1,1,1-Trichloroethane	ND	0.20	EPA 8260D	12-10-21	12-10-21	
Carbon Tetrachloride	ND	0.20	EPA 8260D	12-10-21	12-10-21	
1,1-Dichloropropene	ND	0.20	EPA 8260D	12-10-21	12-10-21	
Benzene	ND	0.20	EPA 8260D	12-10-21	12-10-21	
1,2-Dichloroethane	ND	0.20	EPA 8260D	12-10-21	12-10-21	
Trichloroethene	ND	0.20	EPA 8260D	12-10-21	12-10-21	
1,2-Dichloropropane	ND	0.20	EPA 8260D	12-10-21	12-10-21	
Dibromomethane	ND	0.20	EPA 8260D	12-10-21	12-10-21	
Bromodichloromethane	ND	0.20	EPA 8260D	12-10-21	12-10-21	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260D	12-10-21	12-10-21	
Methyl Isobutyl Ketone	ND	2.0	EPA 8260D	12-10-21	12-10-21	
Toluene	ND	1.0	EPA 8260D	12-10-21	12-10-21	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260D	12-10-21	12-10-21	



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QUALITY CONTROL
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1210W1					
1,1,2-Trichloroethane	ND	0.20	EPA 8260D	12-10-21	12-10-21	
Tetrachloroethene	ND	0.20	EPA 8260D	12-10-21	12-10-21	
1,3-Dichloropropane	ND	0.20	EPA 8260D	12-10-21	12-10-21	
2-Hexanone	ND	2.0	EPA 8260D	12-10-21	12-10-21	
Dibromochloromethane	ND	0.20	EPA 8260D	12-10-21	12-10-21	
1,2-Dibromoethane	ND	0.20	EPA 8260D	12-10-21	12-10-21	
Chlorobenzene	ND	0.20	EPA 8260D	12-10-21	12-10-21	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260D	12-10-21	12-10-21	
Ethylbenzene	ND	0.20	EPA 8260D	12-10-21	12-10-21	
m,p-Xylene	ND	0.40	EPA 8260D	12-10-21	12-10-21	
o-Xylene	ND	0.20	EPA 8260D	12-10-21	12-10-21	
Styrene	ND	0.20	EPA 8260D	12-10-21	12-10-21	
Bromoform	ND	1.0	EPA 8260D	12-10-21	12-10-21	
Isopropylbenzene	ND	0.20	EPA 8260D	12-10-21	12-10-21	
Bromobenzene	ND	0.20	EPA 8260D	12-10-21	12-10-21	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260D	12-10-21	12-10-21	
1,2,3-Trichloropropane	ND	0.20	EPA 8260D	12-10-21	12-10-21	
n-Propylbenzene	ND	0.20	EPA 8260D	12-10-21	12-10-21	
2-Chlorotoluene	ND	0.20	EPA 8260D	12-10-21	12-10-21	
4-Chlorotoluene	ND	0.20	EPA 8260D	12-10-21	12-10-21	
1,3,5-Trimethylbenzene	ND	0.20	EPA 8260D	12-10-21	12-10-21	
tert-Butylbenzene	ND	0.20	EPA 8260D	12-10-21	12-10-21	
1,2,4-Trimethylbenzene	ND	0.20	EPA 8260D	12-10-21	12-10-21	
sec-Butylbenzene	ND	0.20	EPA 8260D	12-10-21	12-10-21	
1,3-Dichlorobenzene	ND	0.20	EPA 8260D	12-10-21	12-10-21	
p-Isopropyltoluene	ND	0.20	EPA 8260D	12-10-21	12-10-21	
1,4-Dichlorobenzene	ND	0.20	EPA 8260D	12-10-21	12-10-21	
1,2-Dichlorobenzene	ND	0.20	EPA 8260D	12-10-21	12-10-21	
n-Butylbenzene	ND	0.20	EPA 8260D	12-10-21	12-10-21	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260D	12-10-21	12-10-21	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260D	12-10-21	12-10-21	
Hexachlorobutadiene	ND	1.0	EPA 8260D	12-10-21	12-10-21	
Naphthalene	ND	1.0	EPA 8260D	12-10-21	12-10-21	
1,2,3-Trichlorobenzene	ND	0.25	EPA 8260D	12-10-21	12-10-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>94</i>	<i>75-127</i>				
<i>Toluene-d8</i>	<i>99</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>97</i>	<i>78-125</i>				



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**VOLATILE ORGANICS EPA 8260D
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD		Flags
					Recovery	Limits	RPD	Limit		
SPIKE BLANKS										
Laboratory ID:	SB1210W1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	10.4	10.3	10.0	10.0	104	103	78-125	1	19	
Benzene	10.6	10.5	10.0	10.0	106	105	80-119	1	16	
Trichloroethene	10.7	10.7	10.0	10.0	107	107	80-121	0	18	
Toluene	10.5	10.3	10.0	10.0	105	103	80-117	2	18	
Chlorobenzene	9.85	9.70	10.0	10.0	99	97	80-117	2	17	
<i>Surrogate:</i>										
Dibromofluoromethane					96	96	75-127			
Toluene-d8					100	100	80-127			
4-Bromofluorobenzene					103	103	78-125			



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**SEMIVOLATILE ORGANICS EPA 8270E/SIM
 QUALITY CONTROL**

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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1214W1					
n-Nitrosodimethylamine	ND	1.0	EPA 8270E	12-14-21	12-17-21	
Pyridine	ND	1.0	EPA 8270E	12-14-21	12-17-21	
Phenol	ND	1.0	EPA 8270E	12-14-21	12-17-21	
Aniline	ND	5.0	EPA 8270E	12-14-21	12-17-21	
bis(2-Chloroethyl)ether	ND	1.0	EPA 8270E	12-14-21	12-17-21	
2-Chlorophenol	ND	1.0	EPA 8270E	12-14-21	12-17-21	
1,3-Dichlorobenzene	ND	1.0	EPA 8270E	12-14-21	12-17-21	
1,4-Dichlorobenzene	ND	1.0	EPA 8270E	12-14-21	12-17-21	
Benzyl alcohol	ND	1.0	EPA 8270E	12-14-21	12-17-21	
1,2-Dichlorobenzene	ND	1.0	EPA 8270E	12-14-21	12-17-21	
2-Methylphenol (o-Cresol)	ND	1.0	EPA 8270E	12-14-21	12-17-21	
bis(2-Chloroisopropyl)ether	ND	1.0	EPA 8270E	12-14-21	12-17-21	
(3+4)-Methylphenol (m,p-Cresol)	ND	1.0	EPA 8270E	12-14-21	12-17-21	
n-Nitroso-di-n-propylamine	ND	1.0	EPA 8270E	12-14-21	12-17-21	
Hexachloroethane	ND	1.0	EPA 8270E	12-14-21	12-17-21	
Nitrobenzene	ND	1.0	EPA 8270E	12-14-21	12-17-21	
Isophorone	ND	1.0	EPA 8270E	12-14-21	12-17-21	
2-Nitrophenol	ND	1.0	EPA 8270E	12-14-21	12-17-21	
2,4-Dimethylphenol	ND	1.0	EPA 8270E	12-14-21	12-17-21	
bis(2-Chloroethoxy)methane	ND	1.0	EPA 8270E	12-14-21	12-17-21	
2,4-Dichlorophenol	ND	1.0	EPA 8270E	12-14-21	12-17-21	
1,2,4-Trichlorobenzene	ND	1.0	EPA 8270E	12-14-21	12-17-21	
Naphthalene	ND	0.10	EPA 8270E/SIM	12-14-21	12-14-21	
4-Chloroaniline	ND	1.0	EPA 8270E	12-14-21	12-17-21	
Hexachlorobutadiene	ND	1.0	EPA 8270E	12-14-21	12-17-21	
4-Chloro-3-methylphenol	ND	1.0	EPA 8270E	12-14-21	12-17-21	
2-Methylnaphthalene	ND	0.10	EPA 8270E/SIM	12-14-21	12-14-21	
1-Methylnaphthalene	ND	0.10	EPA 8270E/SIM	12-14-21	12-14-21	
Hexachlorocyclopentadiene	ND	1.0	EPA 8270E	12-14-21	12-17-21	
2,4,6-Trichlorophenol	ND	1.0	EPA 8270E	12-14-21	12-17-21	
2,3-Dichloroaniline	ND	1.0	EPA 8270E	12-14-21	12-17-21	
2,4,5-Trichlorophenol	ND	1.0	EPA 8270E	12-14-21	12-17-21	
2-Chloronaphthalene	ND	1.0	EPA 8270E	12-14-21	12-17-21	
2-Nitroaniline	ND	1.0	EPA 8270E	12-14-21	12-17-21	
1,4-Dinitrobenzene	ND	1.0	EPA 8270E	12-14-21	12-17-21	
Dimethylphthalate	ND	5.0	EPA 8270E	12-14-21	12-17-21	
1,3-Dinitrobenzene	ND	1.0	EPA 8270E	12-14-21	12-17-21	
2,6-Dinitrotoluene	ND	1.0	EPA 8270E	12-14-21	12-17-21	
1,2-Dinitrobenzene	ND	1.0	EPA 8270E	12-14-21	12-17-21	
Acenaphthylene	ND	0.22	EPA 8270E/SIM	12-14-21	12-14-21	
3-Nitroaniline	ND	1.0	EPA 8270E	12-14-21	12-17-21	



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**SEMIVOLATILE ORGANICS EPA 8270E/SIM
 QUALITY CONTROL**

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1214W1					
2,4-Dinitrophenol	ND	5.0	EPA 8270E	12-14-21	12-17-21	
Acenaphthene	ND	0.10	EPA 8270E/SIM	12-14-21	12-14-21	
4-Nitrophenol	ND	5.0	EPA 8270E	12-14-21	12-17-21	
2,4-Dinitrotoluene	ND	1.0	EPA 8270E	12-14-21	12-17-21	
Dibenzofuran	ND	1.0	EPA 8270E	12-14-21	12-17-21	
2,3,5,6-Tetrachlorophenol	ND	1.2	EPA 8270E	12-14-21	12-17-21	
2,3,4,6-Tetrachlorophenol	ND	1.0	EPA 8270E	12-14-21	12-17-21	
Diethylphthalate	ND	1.0	EPA 8270E	12-14-21	12-17-21	
4-Chlorophenyl-phenylether	ND	1.0	EPA 8270E	12-14-21	12-17-21	
4-Nitroaniline	ND	1.0	EPA 8270E	12-14-21	12-17-21	
Fluorene	ND	0.10	EPA 8270E/SIM	12-14-21	12-14-21	
4,6-Dinitro-2-methylphenol	ND	5.0	EPA 8270E	12-14-21	12-17-21	
n-Nitrosodiphenylamine	ND	1.0	EPA 8270E	12-14-21	12-17-21	
1,2-Diphenylhydrazine	ND	1.0	EPA 8270E	12-14-21	12-17-21	
4-Bromophenyl-phenylether	ND	1.0	EPA 8270E	12-14-21	12-17-21	
Hexachlorobenzene	ND	1.0	EPA 8270E	12-14-21	12-17-21	
Pentachlorophenol	ND	5.0	EPA 8270E	12-14-21	12-17-21	
Phenanthrene	ND	0.10	EPA 8270E/SIM	12-14-21	12-14-21	
Anthracene	ND	0.10	EPA 8270E/SIM	12-14-21	12-14-21	
Carbazole	ND	1.0	EPA 8270E	12-14-21	12-17-21	
Di-n-butylphthalate	ND	5.0	EPA 8270E	12-14-21	12-17-21	
Fluoranthene	ND	0.10	EPA 8270E/SIM	12-14-21	12-14-21	
Pyrene	ND	0.10	EPA 8270E/SIM	12-14-21	12-14-21	
Butylbenzylphthalate	ND	1.0	EPA 8270E	12-14-21	12-17-21	
bis-2-Ethylhexyladipate	ND	5.0	EPA 8270E	12-14-21	12-17-21	
3,3'-Dichlorobenzidine	ND	1.0	EPA 8270E	12-14-21	12-17-21	
Benzo[a]anthracene	ND	0.010	EPA 8270E/SIM	12-14-21	12-14-21	
Chrysene	ND	0.010	EPA 8270E/SIM	12-14-21	12-14-21	
bis(2-Ethylhexyl)phthalate	ND	5.0	EPA 8270E	12-14-21	12-17-21	
Di-n-octylphthalate	ND	1.0	EPA 8270E	12-14-21	12-17-21	
Benzo[b]fluoranthene	ND	0.010	EPA 8270E/SIM	12-14-21	12-14-21	
Benzo(j,k)fluoranthene	ND	0.010	EPA 8270E/SIM	12-14-21	12-14-21	
Benzo[a]pyrene	ND	0.010	EPA 8270E/SIM	12-14-21	12-14-21	
Indeno[1,2,3-cd]pyrene	ND	0.010	EPA 8270E/SIM	12-14-21	12-14-21	
Dibenz[a,h]anthracene	ND	0.010	EPA 8270E/SIM	12-14-21	12-14-21	
Benzo[g,h,i]perylene	ND	0.010	EPA 8270E/SIM	12-14-21	12-14-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
2-Fluorophenol	39	10 - 82				
Phenol-d6	30	10 - 92				
Nitrobenzene-d5	59	32 - 105				
2-Fluorobiphenyl	67	38 - 105				
2,4,6-Tribromophenol	88	25 - 124				
Terphenyl-d14	72	42 - 116				



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**SEMIVOLATILE ORGANICS EPA 8270E/SIM
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD	RPD	Flags
					Recovery	Limits	Limit			
SPIKE BLANKS										
Laboratory ID:	SB1214W1									
	SB	SBD	SB	SBD	SB	SBD				
Phenol	15.8	13.4	40.0	40.0	40	34	21 - 53	16	26	
2-Chlorophenol	30.7	27.4	40.0	40.0	77	69	38 - 92	11	28	
1,4-Dichlorobenzene	13.4	11.7	20.0	20.0	67	59	30 - 88	14	32	
n-Nitroso-di-n-propylamine	15.7	14.2	20.0	20.0	79	71	40 - 103	10	27	
1,2,4-Trichlorobenzene	14.5	12.8	20.0	20.0	73	64	37 - 95	12	29	
4-Chloro-3-methylphenol	33.6	29.6	40.0	40.0	84	74	50 - 101	13	17	
Acenaphthene	16.7	14.7	20.0	20.0	84	74	46 - 97	13	19	
4-Nitrophenol	25.0	21.7	40.0	40.0	63	54	23 - 64	14	34	
2,4-Dinitrotoluene	17.6	15.3	20.0	20.0	88	77	46 - 100	14	17	
Pentachlorophenol	39.8	32.9	40.0	40.0	100	82	39 - 123	19	29	
Pyrene	17.0	15.8	20.0	20.0	85	79	52 - 107	7	19	
<i>Surrogate:</i>										
2-Fluorophenol					46	40	10 - 82			
Phenol-d6					36	30	10 - 92			
Nitrobenzene-d5					63	56	32 - 105			
2-Fluorobiphenyl					70	64	38 - 105			
2,4,6-Tribromophenol					92	82	25 - 124			
Terphenyl-d14					71	67	42 - 116			



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**PCBs EPA 8082A
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1213W1					
Aroclor 1016	ND	0.050	EPA 8082A	12-13-21	12-13-21	
Aroclor 1221	ND	0.050	EPA 8082A	12-13-21	12-13-21	
Aroclor 1232	ND	0.050	EPA 8082A	12-13-21	12-13-21	
Aroclor 1242	ND	0.050	EPA 8082A	12-13-21	12-13-21	
Aroclor 1248	ND	0.050	EPA 8082A	12-13-21	12-13-21	
Aroclor 1254	ND	0.050	EPA 8082A	12-13-21	12-13-21	
Aroclor 1260	ND	0.050	EPA 8082A	12-13-21	12-13-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
DCB	90	42-140				

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS											
Laboratory ID:	SB1213W1										
	SB	SBD	SB	SBD		SB	SBD				
Aroclor 1260	0.451	0.485	0.500	0.500	N/A	90	97	73-131	7	12	
<i>Surrogate:</i>											
DCB						90	91	42-140			



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**ORGANOCHLORINE
 PESTICIDES EPA 8081B
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1213W1					
alpha-BHC	ND	0.0050	EPA 8081B	12-13-21	12-13-21	
gamma-BHC (Lindane)	ND	0.0050	EPA 8081B	12-13-21	12-13-21	
beta-BHC	ND	0.0050	EPA 8081B	12-13-21	12-13-21	
delta-BHC	ND	0.0050	EPA 8081B	12-13-21	12-13-21	
Heptachlor	ND	0.0050	EPA 8081B	12-13-21	12-13-21	
Aldrin	ND	0.0020	EPA 8081B	12-13-21	12-13-21	
Heptachlor Epoxide	ND	0.0030	EPA 8081B	12-13-21	12-13-21	
gamma-Chlordane	ND	0.0050	EPA 8081B	12-13-21	12-13-21	
alpha-Chlordane	ND	0.0050	EPA 8081B	12-13-21	12-13-21	
4,4'-DDE	ND	0.0050	EPA 8081B	12-13-21	12-13-21	
Endosulfan I	ND	0.0050	EPA 8081B	12-13-21	12-13-21	
Dieldrin	ND	0.0050	EPA 8081B	12-13-21	12-13-21	
Endrin	ND	0.0050	EPA 8081B	12-13-21	12-13-21	
4,4'-DDD	ND	0.0050	EPA 8081B	12-13-21	12-13-21	
Endosulfan II	ND	0.0050	EPA 8081B	12-13-21	12-13-21	
4,4'-DDT	ND	0.0050	EPA 8081B	12-13-21	12-13-21	
Endrin Aldehyde	ND	0.0050	EPA 8081B	12-13-21	12-13-21	
Methoxychlor	ND	0.010	EPA 8081B	12-13-21	12-13-21	
Endosulfan Sulfate	ND	0.0050	EPA 8081B	12-13-21	12-13-21	
Endrin Ketone	ND	0.020	EPA 8081B	12-13-21	12-13-21	
Toxaphene	ND	0.050	EPA 8081B	12-13-21	12-13-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
TCMX	48	25-114				
DCB	74	30-137				



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**ORGANOCHLORINE
 PESTICIDES EPA 8081B
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS											
Laboratory ID:	SB1213W2										
	SB	SBD	SB	SBD		SB	SBD				
alpha-BHC	0.0790	0.0764	0.100	0.100	N/A	79	76	42-113	3	19	
gamma-BHC (Lindane)	0.0790	0.0774	0.100	0.100	N/A	79	77	45-114	2	15	
beta-BHC	0.0771	0.0746	0.100	0.100	N/A	77	75	40-118	3	15	
delta-BHC	0.0652	0.0634	0.100	0.100	N/A	65	63	20-125	3	15	
Heptachlor	0.0690	0.0659	0.100	0.100	N/A	69	66	41-120	5	16	
Aldrin	0.0630	0.0597	0.100	0.100	N/A	63	60	35-115	5	15	
Heptachlor Epoxide	0.0820	0.0805	0.100	0.100	N/A	82	80	50-118	2	15	
gamma-Chlordane	0.0754	0.0730	0.100	0.100	N/A	75	73	46-110	3	15	
alpha-Chlordane	0.0769	0.0742	0.100	0.100	N/A	77	74	38-112	4	15	
4,4'-DDE	0.0772	0.0773	0.100	0.100	N/A	77	77	41-127	0	15	
Endosulfan I	0.0858	0.0846	0.100	0.100	N/A	86	85	45-119	1	15	
Dieldrin	0.0900	0.0867	0.100	0.100	N/A	90	87	46-115	4	15	
Endrin	0.0877	0.0847	0.100	0.100	N/A	88	85	52-124	3	15	
4,4'-DDD	0.0884	0.0884	0.100	0.100	N/A	88	88	52-121	0	15	
Endosulfan II	0.0853	0.0847	0.100	0.100	N/A	85	85	44-114	1	15	
4,4'-DDT	0.0975	0.0987	0.100	0.100	N/A	98	99	48-123	1	15	
Endrin Aldehyde	0.108	0.106	0.100	0.100	N/A	108	106	45-114	2	15	
Methoxychlor	0.101	0.102	0.100	0.100	N/A	101	102	49-130	1	15	
Endosulfan Sulfate	0.0879	0.0868	0.100	0.100	N/A	88	87	39-117	1	15	
Endrin Ketone	0.0903	0.0881	0.100	0.100	N/A	90	88	53-119	2	15	
Surrogate:											
TCMX						52	49	25-114			
DCB						66	61	30-137			



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TOTAL METALS
EPA 200.7/200.8/7470A
QUALITY CONTROL

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1213WH1					
Iron	ND	56	EPA 200.7	12-13-21	12-13-21	
Magnesium	ND	1100	EPA 200.7	12-13-21	12-13-21	
Manganese	ND	11	EPA 200.7	12-13-21	12-13-21	
Laboratory ID:	MB1213WM1					
Arsenic	ND	3.3	EPA 200.8	12-13-21	12-13-21	
Cadmium	ND	4.4	EPA 200.8	12-13-21	12-13-21	
Chromium	ND	11	EPA 200.8	12-13-21	12-13-21	
Copper	ND	11	EPA 200.8	12-13-21	12-13-21	
Lead	ND	1.1	EPA 200.8	12-13-21	12-13-21	
Nickel	ND	22	EPA 200.8	12-13-21	12-13-21	
Selenium	ND	5.6	EPA 200.8	12-13-21	12-13-21	
Zinc	ND	28	EPA 200.8	12-13-21	12-13-21	
Laboratory ID:	MB1215W2					
Mercury	ND	0.025	EPA 7470A	12-15-21	12-15-21	



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TOTAL METALS
EPA 200.7/200.8/7470A
QUALITY CONTROL

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result		Spike Level		Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE										
Laboratory ID:	12-084-01									
	ORIG	DUP								
Iron	8040	8100	NA	NA		NA	NA	1	20	
Magnesium	32900	33700	NA	NA		NA	NA	2	20	
Manganese	1810	1840	NA	NA		NA	NA	2	20	
Laboratory ID:	12-089-01									
Arsenic	ND	ND	NA	NA		NA	NA	NA	20	
Cadmium	ND	ND	NA	NA		NA	NA	NA	20	
Chromium	ND	ND	NA	NA		NA	NA	NA	20	
Copper	ND	ND	NA	NA		NA	NA	NA	20	
Lead	ND	ND	NA	NA		NA	NA	NA	20	
Nickel	ND	ND	NA	NA		NA	NA	NA	20	
Selenium	ND	ND	NA	NA		NA	NA	NA	20	
Zinc	ND	ND	NA	NA		NA	NA	NA	20	
Laboratory ID:	12-108-01									
Mercury	ND	ND	NA	NA		NA	NA	NA	20	
MATRIX SPIKES										
Laboratory ID:	12-084-01									
	MS	MSD	MS	MSD		MS	MSD			
Iron	33800	34400	22200	22200	8040	116	119	75-125	2	20
Magnesium	58700	59300	22200	22200	32900	116	119	75-125	1	20
Manganese	2380	2370	556	556	1810	102	100	75-125	0	20
Laboratory ID:	12-089-01									
Arsenic	128	132	111	111	ND	116	119	75-125	3	20
Cadmium	124	130	111	111	ND	112	117	75-125	5	20
Chromium	118	124	111	111	ND	107	112	75-125	5	20
Copper	112	117	111	111	ND	101	105	75-125	4	20
Lead	116	120	111	111	ND	104	108	75-125	4	20
Nickel	115	121	111	111	ND	104	109	75-125	5	20
Selenium	126	133	111	111	ND	114	120	75-125	5	20
Zinc	116	122	111	111	ND	105	110	75-125	5	20
Laboratory ID:	12-108-01									
Mercury	5.60	5.58	6.25	6.25	ND	90	89	75-125	0	20



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**DISSOLVED METALS
 EPA 200.7/200.8/7470A
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1210D1					
Calcium	ND	1100	EPA 200.7		12-10-21	
Iron	ND	56	EPA 200.7		12-10-21	
Magnesium	ND	1100	EPA 200.7		12-10-21	
Manganese	ND	11	EPA 200.7		12-10-21	
Potassium	ND	1100	EPA 200.7		12-10-21	
Sodium	ND	1100	EPA 200.7		12-10-21	
Laboratory ID:	MB1209F1					
Arsenic	ND	3.0	EPA 200.8	12-9-21	12-10-21	
Cadmium	ND	4.0	EPA 200.8	12-9-21	12-10-21	
Chromium	ND	10	EPA 200.8	12-9-21	12-10-21	
Copper	ND	10	EPA 200.8	12-9-21	12-10-21	
Lead	ND	1.0	EPA 200.8	12-9-21	12-10-21	
Nickel	ND	20	EPA 200.8	12-9-21	12-10-21	
Selenium	ND	5.0	EPA 200.8	12-9-21	12-10-21	
Zinc	ND	25	EPA 200.8	12-9-21	12-10-21	
Laboratory ID:	MB1217D1					
Mercury	ND	0.025	EPA 7470A		12-17-21	



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**DISSOLVED METALS
 EPA 200.7/200.8/7470A
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result		Spike Level		Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE										
Laboratory ID:	12-104-01									
	ORIG	DUP								
Calcium	4460	4440	NA	NA		NA	NA	0	20	
Iron	ND	ND	NA	NA		NA	NA	NA	20	
Magnesium	2740	2720	NA	NA		NA	NA	1	20	
Manganese	ND	ND	NA	NA		NA	NA	NA	20	
Potassium	ND	ND	NA	NA		NA	NA	NA	20	
Sodium	2780	2120	NA	NA		NA	NA	27	20	C
Laboratory ID:	12-104-01									
Arsenic	ND	ND	NA	NA		NA	NA	NA	20	
Cadmium	ND	ND	NA	NA		NA	NA	NA	20	
Chromium	ND	ND	NA	NA		NA	NA	NA	20	
Copper	13.9	15.6	NA	NA		NA	NA	11	20	
Lead	ND	ND	NA	NA		NA	NA	NA	20	
Nickel	ND	ND	NA	NA		NA	NA	NA	20	
Selenium	ND	ND	NA	NA		NA	NA	NA	20	
Zinc	ND	ND	NA	NA		NA	NA	NA	20	
Laboratory ID:	12-108-01									
Mercury	ND	ND	NA	NA		NA	NA	NA	20	
MATRIX SPIKES										
Laboratory ID:	12-104-01									
	MS	MSD	MS	MSD		MS	MSD			
Calcium	27800	27600	22200	22200	4460	105	104	75-125	0	20
Iron	25100	25100	22200	22200	ND	113	113	75-125	0	20
Magnesium	27800	27900	22200	22200	2740	113	113	75-125	0	20
Manganese	583	581	556	556	ND	105	104	75-125	0	20
Potassium	23300	23200	22200	22200	ND	105	105	75-125	0	20
Sodium	28400	28000	22200	22200	2780	116	114	75-125	2	20
Laboratory ID:	12-104-01									
Arsenic	83.8	76.2	80.0	80.0	ND	105	95	75-125	9	20
Cadmium	79.2	78.0	80.0	80.0	ND	99	98	75-125	2	20
Chromium	77.4	73.6	80.0	80.0	ND	97	92	75-125	5	20
Copper	91.0	87.8	80.0	80.0	13.9	96	92	75-125	4	20
Lead	76.6	76.0	80.0	80.0	ND	96	95	75-125	1	20
Nickel	75.6	72.4	80.0	80.0	ND	95	91	75-125	4	20
Selenium	76.2	75.4	80.0	80.0	ND	95	94	75-125	1	20
Zinc	94.6	91.0	80.0	80.0	14.1	101	96	75-125	4	20
Laboratory ID:	12-108-01									
Mercury	5.78	5.75	6.25	6.25	ND	92	92	75-125	0	20



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**TOTAL DISSOLVED SOLIDS
 SM 2540C
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1213W1					
Total Dissolved Solids	ND	13	SM 2540C	12-13-21	12-14-21	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	12-085-01							
	ORIG	DUP						
Total Dissolved Solids	159	153	NA	NA	NA	4	29	

SPIKE BLANK								
Laboratory ID:	SB1213W1							
	SB	SB		SB				
Total Dissolved Solids	477	500	NA	95	84-110	NA	NA	



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**CHLORIDE
 SM 4500-Cl E
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1214W1					
Chloride	ND	2.0	SM 4500-Cl E	12-14-21	12-14-21	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	12-086-01							
	ORIG	DUP						
Chloride	4.05	4.11	NA	NA	NA	1	15	

MATRIX SPIKE								
Laboratory ID:	12-086-01							
	MS	MS		MS				
Chloride	58.8	50.0	4.05	110	86-115	NA	NA	

SPIKE BLANK								
Laboratory ID:	SB1214W1							
	SB	SB		SB				
Chloride	55.9	50.0	NA	112	86-115	NA	NA	



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**NITRATE (as Nitrogen)
 EPA 353.2
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L-N

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1210W1					
Nitrate	ND	0.050	EPA 353.2	12-10-21	12-10-21	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	12-086-01							
	ORIG	DUP						
Nitrate	0.460	0.450	NA	NA	NA	2	16	

MATRIX SPIKE								
Laboratory ID:	12-086-01							
	MS	MS		MS				
Nitrate	2.92	2.00	0.460	123	92-125	NA	NA	

SPIKE BLANK								
Laboratory ID:	SB1210W1							
	SB	SB		SB				
Nitrate	2.15	2.00	NA	108	90-121	NA	NA	



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**SULFATE
 ASTM D516-11
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1210W1					
Sulfate	ND	5.0	ASTM D516-11	12-10-21	12-10-21	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	12-075-01							
	ORIG	DUP						
Sulfate	13.9	13.9	NA	NA	NA	0	10	

MATRIX SPIKE								
Laboratory ID:	12-075-01							
	MS	MS		MS				
Sulfate	22.5	10.0	13.9	86	69-139	NA	NA	

SPIKE BLANK								
Laboratory ID:	SB1210W1							
	SB	SB		SB				
Sulfate	10.0	10.0	NA	100	89-117	NA	NA	



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**AMMONIA (as Nitrogen)
 SM 4500-NH₃ D
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1213W1					
Ammonia	ND	0.050	SM 4500-NH3 D	12-13-21	12-13-21	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	12-086-01							
	ORIG	DUP						
Ammonia	ND	ND	NA	NA	NA	NA	19	

MATRIX SPIKE								
Laboratory ID:	12-086-01							
	MS	MS		MS				
Ammonia	4.82	5.00	ND	96	80-113	NA	NA	

SPIKE BLANK								
Laboratory ID:	SB1213W1							
	SB	SB		SB				
Ammonia	4.99	5.00	NA	100	88-110	NA	NA	





Data Qualifiers and Abbreviations

- A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.
 - B - The analyte indicated was also found in the blank sample.
 - C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.
 - E - The value reported exceeds the quantitation range and is an estimate.
 - F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.
 - H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.
 - I - Compound recovery is outside of the control limits.
 - J - The value reported was below the practical quantitation limit. The value is an estimate.
 - K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.
 - L - The RPD is outside of the control limits.
 - M - Hydrocarbons in the gasoline range are impacting the diesel range result.
 - M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.
 - N - Hydrocarbons in the lube oil range are impacting the diesel range result.
 - N1 - Hydrocarbons in diesel range are impacting lube oil range results.
 - O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.
 - P - The RPD of the detected concentrations between the two columns is greater than 40.
 - Q - Surrogate recovery is outside of the control limits.
 - S - Surrogate recovery data is not available due to the necessary dilution of the sample.
 - T - The sample chromatogram is not similar to a typical _____.
 - U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
 - U1 - The practical quantitation limit is elevated due to interferences present in the sample.
 - V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.
 - W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.
 - X - Sample extract treated with a mercury cleanup procedure.
 - X1 - Sample extract treated with a sulfuric acid/silica gel cleanup procedure.
 - Y - The calibration verification for this analyte exceeded the 20% drift specified in methods 8260 & 8270, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.
 - Z -
- ND - Not Detected at PQL
 PQL - Practical Quantitation Limit
 RPD - Relative Percent Difference





OnSite Environmental Inc

David Baumeister
14648 NE 95th Street
Redmond, WA 98052

RE: 12-085

Work Order Number: 2112177

December 20, 2021

Attention David Baumeister:

Fremont Analytical, Inc. received 1 sample(s) on 12/10/2021 for the analyses presented in the following report.

Herbicides by EPA Method 8151A (GC/MS)

This report consists of the following:

- Case Narrative
- Analytical Results
- Applicable Quality Control Summary Reports
- Chain of Custody

All analyses were performed consistent with the Quality Assurance program of Fremont Analytical, Inc. Please contact the laboratory if you should have any questions about the results.

Thank you for using Fremont Analytical.

Sincerely,

Brianna Barnes
Project Manager

CLIENT: OnSite Environmental Inc
Project: 12-085
Work Order: 2112177

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received
2112177-001	MW5-211207	12/07/2021 12:10 PM	12/10/2021 12:21 PM

DRAFT

Note: If no "Time Collected" is supplied, a default of 12:00AM is assigned

CLIENT: OnSite Environmental Inc

Project: 12-085

I. SAMPLE RECEIPT:

Samples receipt information is recorded on the attached Sample Receipt Checklist.

II. GENERAL REPORTING COMMENTS:

Results are reported on a wet weight basis unless dry-weight correction is denoted in the units field on the analytical report ("mg/kg-dry" or "ug/kg-dry").

Matrix Spike (MS) and MS Duplicate (MSD) samples are tested from an analytical batch of "like" matrix to check for possible matrix effect. The MS and MSD will provide site specific matrix data only for those samples which are spiked by the laboratory. The sample chosen for spike purposes may or may not have been a sample submitted in this sample delivery group. The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The LCS and the MB are processed with the samples and the MS/MSD to ensure method criteria are achieved throughout the entire analytical process.

III. ANALYSES AND EXCEPTIONS:

Exceptions associated with this report will be footnoted in the analytical results page(s) or the quality control summary page(s) and/or noted below.

DRAFT

Qualifiers:

- * - Flagged value is not within established control limits
- B - Analyte detected in the associated Method Blank
- D - Dilution was required
- E - Value above quantitation range
- H - Holding times for preparation or analysis exceeded
- I - Analyte with an internal standard that does not meet established acceptance criteria
- J - Analyte detected below Reporting Limit
- N - Tentatively Identified Compound (TIC)
- Q - Analyte with an initial or continuing calibration that does not meet established acceptance criteria
- S - Spike recovery outside accepted recovery limits
- ND - Not detected at the Reporting Limit
- R - High relative percent difference observed

Acronyms:

- %Rec - Percent Recovery
- CCB - Continued Calibration Blank
- CCV - Continued Calibration Verification
- DF - Dilution Factor
- DUP - Sample Duplicate
- HEM - Hexane Extractable Material
- ICV - Initial Calibration Verification
- LCS/LCSD - Laboratory Control Sample / Laboratory Control Sample Duplicate
- MCL - Maximum Contaminant Level
- MB or MBLANK - Method Blank
- MDL - Method Detection Limit
- MS/MSD - Matrix Spike / Matrix Spike Duplicate
- PDS - Post Digestion Spike
- Ref Val - Reference Value
- REP - Sample Replicate
- RL - Reporting Limit
- RPD - Relative Percent Difference
- SD - Serial Dilution
- SGT - Silica Gel Treatment
- SPK - Spike
- Surr - Surrogate



Client: OnSite Environmental Inc
Project: 12-085
Lab ID: 2112177-001
Client Sample ID: MW5-211207

Collection Date: 12/7/2021 12:10:00 PM
Matrix: Water

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Herbicides by EPA Method 8151A (GC/MS)

Batch ID: 34715 Analyst: SB

Dicamba	ND	0.986		µg/L	1	12/17/2021 1:37:11 PM
2,4-D	ND	0.986		µg/L	1	12/17/2021 1:37:11 PM
2,4-DP	ND	0.986		µg/L	1	12/17/2021 1:37:11 PM
2,4,5-TP (Silvex)	ND	0.986		µg/L	1	12/17/2021 1:37:11 PM
2,4,5-T	ND	0.986		µg/L	1	12/17/2021 1:37:11 PM
Dinoseb	ND	0.986		µg/L	1	12/17/2021 1:37:11 PM
Dalapon	ND	1.97		µg/L	1	12/17/2021 1:37:11 PM
2,4-DB	ND	0.986		µg/L	1	12/17/2021 1:37:11 PM
MCP	ND	4.93		µg/L	1	12/17/2021 1:37:11 PM
MCPA	ND	4.93		µg/L	1	12/17/2021 1:37:11 PM
Picloram	ND	0.986		µg/L	1	12/17/2021 1:37:11 PM
Bentazon	ND	0.986		µg/L	1	12/17/2021 1:37:11 PM
Chloramben	ND	0.986		µg/L	1	12/17/2021 1:37:11 PM
Acifluorfen	ND	4.93		µg/L	1	12/17/2021 1:37:11 PM
3,5-Dichlorobenzoic acid	ND	0.986		µg/L	1	12/17/2021 1:37:11 PM
4-Nitrophenol	ND	0.986		µg/L	1	12/17/2021 1:37:11 PM
Dacthal (DCPA)	ND	1.97		µg/L	1	12/17/2021 1:37:11 PM
Surr: 2,4-Dichlorophenylacetic acid	95.1	62.3 - 134		%Rec	1	12/17/2021 1:37:11 PM

Work Order: 2112177
 CLIENT: OnSite Environmental Inc
 Project: 12-085

QC SUMMARY REPORT
Herbicides by EPA Method 8151A (GC/MS)

Sample ID: MB-34715	SampType: MBLK	Units: µg/L	Prep Date: 12/10/2021	RunNo: 72079							
Client ID: MBLKW	Batch ID: 34715		Analysis Date: 12/17/2021	SeqNo: 1470518							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Dicamba	ND	0.988									
2,4-D	ND	0.988									
2,4-DP	ND	0.988									
2,4,5-TP (Silvex)	ND	0.988									
2,4,5-T	ND	0.988									
Dinoseb	ND	0.988									
Dalapon	ND	1.98									
2,4-DB	ND	0.988									
MCPD	ND	4.94									
MCPA	ND	4.94									
Picloram	ND	0.988									
Bentazon	ND	0.988									
Chloramben	ND	0.988									
Acifluorfen	ND	4.94									
3,5-Dichlorobenzoic acid	ND	0.988									
4-Nitrophenol	ND	0.988									
Dacthal (DCPA)	ND	1.98									
Surr: 2,4-Dichlorophenylacetic acid	26.5		19.76		134	62.3	134				

Sample ID: LCS-34715	SampType: LCS	Units: µg/L	Prep Date: 12/10/2021	RunNo: 72079							
Client ID: LCSW	Batch ID: 34715		Analysis Date: 12/17/2021	SeqNo: 1470519							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Dicamba	3.59	0.991	3.963	0	90.6	12.4	143				
2,4-D	4.29	0.991	3.963	0	108	43.3	143				
2,4-DP	3.92	0.991	3.963	0	98.9	49.7	129				
2,4,5-TP (Silvex)	4.00	0.991	3.963	0	101	45.2	134				
2,4,5-T	4.09	0.991	3.963	0	103	43.8	133				
Dinoseb	2.72	0.991	3.963	0	68.6	5	135				
Dalapon	13.3	1.98	19.81	0	67.3	6.92	95.8				

Work Order: 2112177
 CLIENT: OnSite Environmental Inc
 Project: 12-085

QC SUMMARY REPORT
Herbicides by EPA Method 8151A (GC/MS)

Sample ID: LCS-34715	SampType: LCS	Units: µg/L				Prep Date: 12/10/2021	RunNo: 72079				
Client ID: LCSW	Batch ID: 34715					Analysis Date: 12/17/2021	SeqNo: 1470519				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
2,4-DB	3.67	0.991	3.963	0	92.7	42	141				
MCPP	23.4	4.95	19.81	0	118	35	163				
MCPA	23.6	4.95	19.81	0	119	19	171				
Picloram	3.60	0.991	3.963	0	90.9	5	110				
Bentazon	3.43	0.991	3.963	0	86.5	36.1	139				
Chloramben	1.89	0.991	3.963	0	47.7	5	116				
Acifluorfen	2.81	4.95	3.963	0	70.8	8.43	153				
3,5-Dichlorobenzoic acid	3.20	0.991	3.963	0	80.7	56	122				
4-Nitrophenol	1.66	0.991	3.963	0	41.9	9.06	113				
Dacthal (DCPA)	1.34	1.98	3.963	0	34.5	5	54.3				
Surr: 2,4-Dichlorophenylacetic acid	26.6		19.81		134	62.3	134				

Sample ID: LCSW02	SampType: LCSW02	Units: µg/L				Prep Date: 12/10/2021	RunNo: 72079				
Client ID: LCSW02	Batch ID: 34715					Analysis Date: 12/17/2021	SeqNo: 1470520				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dicamba	3.08	0.990	3.961	0	77.7	12.4	143	3.592	15.4	30	
2,4-D	3.55	0.990	3.961	0	89.7	43.3	143	4.288	18.7	30	
2,4-DP	3.35	0.990	3.961	0	84.6	49.7	129	3.921	15.6	30	
2,4,5-TP (Silvex)	3.33	0.990	3.961	0	84.2	45.2	134	4.003	18.2	30	
2,4,5-T	3.50	0.990	3.961	0	88.5	43.8	133	4.085	15.3	30	
Dinoseb	2.00	0.990	3.961	0	50.4	5	135	2.717	30.6	30	
Dalapon	11.5	1.98	19.81	0	57.8	6.92	95.8	13.34	15.2	30	
2,4-DB	3.27	0.990	3.961	0	82.6	42	141	3.672	11.5	30	
MCPP	17.3	4.95	19.81	0	87.4	35	163	23.37	29.8	30	R
MCPA	17.7	4.95	19.81	0	89.3	19	171	23.63	28.8	30	R
Picloram	3.06	0.990	3.961	0	77.3	5	110	3.603	16.3	30	
Bentazon	2.96	0.990	3.961	0	74.7	36.1	139	3.427	14.6	30	
Chloramben	1.77	0.990	3.961	0	44.6	5	116	1.889	6.74	30	
Acifluorfen	2.62	4.95	3.961	0	66.2	8.43	153	2.807	6.76	30	

Work Order: 2112177
 CLIENT: OnSite Environmental Inc
 Project: 12-085

QC SUMMARY REPORT
Herbicides by EPA Method 8151A (GC/MS)

Sample ID: LCS D-34715	SampType: LCS D	Units: µg/L	Prep Date: 12/10/2021	RunNo: 72079							
Client ID: LCSW02	Batch ID: 34715		Analysis Date: 12/17/2021	SeqNo: 1470520							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
3,5-Dichlorobenzoic acid	2.80	0.990	3.961	0	70.7	56	122	3.198	13.3	30	
4-Nitrophenol	1.47	0.990	3.961	0	37.0	9.06	113	1.661	12.3	30	
Dacthal (DCPA)	1.17	1.98	3.961	0	29.5	5	54.3	1.369	15.8	30	
Surr: 2,4-Dichlorophenylacetic acid	22.7		19.81		115	62.3	134		0		

NOTES:

R - High RPD observed, spike recovery is within range.

Sample ID: 2112120-001AMS	SampType: MS	Units: µg/L	Prep Date: 12/10/2021	RunNo: 72079							
Client ID: BATCH	Batch ID: 34715		Analysis Date: 12/17/2021	SeqNo: 1470522							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dicamba	3.19	0.996	3.985	0	80.0	32.5	139				
2,4-D	3.73	0.996	3.985	0	93.5	45.9	150				
2,4-DP	3.44	0.996	3.985	0	86.3	44.1	144				
2,4,5-TP (Silvex)	3.53	0.996	3.985	0	88.5	46.3	136				
2,4,5-T	3.58	0.996	3.985	0	89.8	37	145				
Dinoseb	2.38	0.996	3.985	0	59.7	32.1	115				
Dalapon	12.3	1.99	19.92	0	62.0	17.7	108				
2,4-DB	3.27	0.996	3.985	0	82.0	37.6	153				
MCP P	17.7	4.98	19.92	0	88.9	41.3	186				
MCP A	18.1	4.98	19.92	0	90.9	48.9	173				
Picloram	3.52	0.996	3.985	0	88.4	23.2	104				
Bentazon	3.22	0.996	3.985	0	80.8	13.2	186				
Chloramben	1.85	0.996	3.985	0	46.4	5	115				
Acifluorfen	2.59	4.98	3.985	0	65.0	27.1	141				
3,5-Dichlorobenzoic acid	2.99	0.996	3.985	0	75.1	35.3	149				
4-Nitrophenol	1.49	0.996	3.985	0	37.3	5	118				
Dacthal (DCPA)	1.14	1.99	3.985	0	28.7	5	92.5				
Surr: 2,4-Dichlorophenylacetic acid	24.1		19.92		121	62.3	134				

Client Name: ONSITE	Work Order Number: 2112177
Logged by: Gabrielle Coeulle	Date Received: 12/10/2021 12:21:00 PM

Chain of Custody

1. Is Chain of Custody complete? Yes No Not Present
2. How was the sample delivered? Courier

Log In

3. Coolers are present? Yes No NA
4. Shipping container/cooler in good condition? Yes No
5. Custody Seals present on shipping container/cooler?
(Refer to comments for Custody Seals not intact) Yes No Not Present
6. Was an attempt made to cool the samples? Yes No NA
7. Were all items received at a temperature of >2°C to 6°C * Yes No NA
8. Sample(s) in proper container(s)? Yes No
9. Sufficient sample volume for indicated test(s)? Yes No
10. Are samples properly preserved? Yes No
11. Was preservative added to bottles? Yes No NA
12. Is there headspace in the VOA vials? Yes No NA
13. Did all samples containers arrive in good condition(unbroken)? Yes No
14. Does paperwork match bottle labels? Yes No
15. Are matrices correctly identified on Chain of Custody? Yes No
16. Is it clear what analyses were requested? Yes No
17. Were all holding times able to be met? Yes No

Special Handling (if applicable)

18. Was client notified of all discrepancies with this order? Yes No NA

Person Notified:	<input type="text"/>	Date:	<input type="text"/>
By Whom:	<input type="text"/>	Via:	<input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:	<input type="text"/>		
Client Instructions:	<input type="text"/>		

19. Additional remarks:

Item Information

Item #	Temp °C
Sample 1	5.7

* Note: DoD/ELAP and TNI require items to be received at 4°C +/- 2°C



14648 NE 95th Street, Redmond, WA 98052 · (425) 883-3881

2112177

Laboratory: Fremont Analytical

Turnaround Request

Laboratory Reference #: 12-085

Project Manager: David Baumeister

Attention: Chelsea Ward

1 Day 2 Day 3 Day

email: dbaumeister@onsite-env.com

3600 Fremont Avenue N, Seattle, WA 98103

Standard

Project Number: 669400205

Phone Number: (206) 352-3790

Other: _____

Project Name: _____

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	# of Cont.	Requested Analyses
	MW5-211207	12/7/21	12:10	W	1	Chlorinated Acid Herbicides 8151A
Signature	Company	Date	Time	Comments/Special Instructions		
Relinquished by: <i>mpBec</i>	<i>OSE</i>	<i>12/10/21</i>	<i>10:40</i>	EDDs		
Received by: <i>RW</i>	<i>alpha</i>	<i>12/10/21</i>	<i>10:40</i>			
Relinquished by: <i>RW</i>	<i>alpha</i>	<i>12/10/21</i>	<i>12:45</i>			
Received by: <i>[Signature]</i>	<i>FAI</i>	<i>12/10/21</i>	<i>12:21</i>			
Relinquished by:						
Received by:						

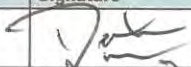
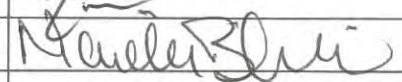
Chain of Custody

Company: GeoEngineers
 Project Number: 66940205
 Project Name: Go East
 Project Manager: Garnett League
 Sampled by: Dexter Chan

Turnaround Request (in working days)
 (Check One)
 Same Day 1 Day
 2 Days 3 Days
 Standard (7 Days)
 _____ (other)

Laboratory Number: **12-085**

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX	NWTPH-Gx	NWTPH-Dx (<input type="checkbox"/> Acid / SG Clean-up)	Volatiles 8260D	Halogenated Volatiles 8260D	EDB EPA 8011 (Waters Only)	Semivolatiles 8270E/SIM (with low-level PAHs)	PAHs 8270E/SIM (low-level)	PCBs 8082A	Organochlorine Pesticides 8081B	Organophosphorus Pesticides 8270E/SIM	Chlorinated Acid Herbicides 8151A	Total PFAS Metals + Dissolved FF	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664A	TDS	CL, NO3, SO4, NH3	Dissolved Ca, K, Na	% Moisture
						1	MW5-211207	12/7/21	1210	GW	1			X	X	X			X							
2	TB-1-211207																									

Signature	Company	Date	Time	Comments/Special Instructions
	Geo	12/7/21		See Garnett for full list of analytes * Total + Dissolved Metals - As, Cd, Cr, Cu, Fe, Pb, Mn, Hg, Ni, Se, Zn, Mg X - Added 12/9/21 NB (STA)
	OSE	12/8/21	1345	
Reviewed/Date	Reviewed/Date	Data Package: Standard <input type="checkbox"/> Level III <input type="checkbox"/> Level IV <input type="checkbox"/> Chromatograms with final report <input type="checkbox"/> Electronic Data Deliverables (EDDs) <input type="checkbox"/>		



14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

December 22, 2021

Garrett Leque
GeoEngineers, Inc.
554 West Bakerview Road
Bellingham, WA 98226

Re: Analytical Data for Project 6694-002-05 T700
Laboratory Reference No. 2112-108

Dear Garrett:

Enclosed are the analytical results and associated quality control data for samples submitted on December 10, 2021.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

A handwritten signature in black ink, appearing to read "DB", with a horizontal line extending to the right.

David Baumeister
Project Manager

Enclosures



OnSite Environmental, Inc. 14648 NE 95th Street, Redmond, WA 98052 (425) 883-3881

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: December 22, 2021
Samples Submitted: December 10, 2021
Laboratory Reference: 2112-108
Project: 6694-002-05 T700

Case Narrative

Samples were collected on December 8 and 9, 2021 and received by the laboratory on December 10, 2021. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.



Date of Report: December 22, 2021
Samples Submitted: December 10, 2021
Laboratory Reference: 2112-108
Project: 6694-002-05 T700

ANALYTICAL REPORT FOR SAMPLES

Client ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
MW2-211208	12-108-01	Water	12-8-21	12-10-21	
TB-2-211208	12-108-02	Water	12-8-21	12-10-21	
MW6-211209	12-108-03	Water	12-9-21	12-10-21	
MW7-211209	12-108-04	Water	12-9-21	12-10-21	
TB-1-211209	12-108-05	Water	12-9-21	12-10-21	
TB-2-211209	12-108-06	Water	12-9-21	12-10-21	



Date of Report: December 22, 2021
 Samples Submitted: December 10, 2021
 Laboratory Reference: 2112-108
 Project: 6694-002-05 T700

GASOLINE RANGE ORGANICS
NWTPH-Gx

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW2-211208					
Laboratory ID:	12-108-01					
Gasoline	ND	100	NWTPH-Gx	12-13-21	12-13-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	89	66-117				
Client ID:	MW6-211209					
Laboratory ID:	12-108-03					
Gasoline	ND	100	NWTPH-Gx	12-13-21	12-13-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	89	66-117				
Client ID:	MW7-211209					
Laboratory ID:	12-108-04					
Gasoline	ND	100	NWTPH-Gx	12-13-21	12-13-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	89	66-117				



Date of Report: December 22, 2021
 Samples Submitted: December 10, 2021
 Laboratory Reference: 2112-108
 Project: 6694-002-05 T700

**DIESEL AND HEAVY OIL RANGE ORGANICS
 NWTPH-Dx**

Matrix: Water
 Units: mg/L (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW2-211208					
Laboratory ID:	12-108-01					
Diesel Range Organics	ND	0.20	NWTPH-Dx	12-14-21	12-14-21	
Lube Oil Range Organics	ND	0.20	NWTPH-Dx	12-14-21	12-14-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	97	50-150				
Client ID:	MW6-211209					
Laboratory ID:	12-108-03					
Diesel Range Organics	ND	0.21	NWTPH-Dx	12-14-21	12-14-21	
Lube Oil Range Organics	ND	0.21	NWTPH-Dx	12-14-21	12-14-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	111	50-150				
Client ID:	MW7-211209					
Laboratory ID:	12-108-04					
Diesel Range Organics	ND	0.20	NWTPH-Dx	12-14-21	12-14-21	
Lube Oil Range Organics	ND	0.20	NWTPH-Dx	12-14-21	12-14-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	84	50-150				



Date of Report: December 22, 2021
 Samples Submitted: December 10, 2021
 Laboratory Reference: 2112-108
 Project: 6694-002-05 T700

VOLATILE ORGANICS EPA 8260D
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW2-211208					
Laboratory ID:	12-108-01					
Dichlorodifluoromethane	ND	0.31	EPA 8260D	12-13-21	12-13-21	
Chloromethane	ND	1.3	EPA 8260D	12-13-21	12-13-21	
Vinyl Chloride	ND	0.20	EPA 8260D	12-13-21	12-13-21	
Bromomethane	ND	0.33	EPA 8260D	12-13-21	12-13-21	
Chloroethane	ND	1.0	EPA 8260D	12-13-21	12-13-21	
Trichlorofluoromethane	ND	0.20	EPA 8260D	12-13-21	12-13-21	
1,1-Dichloroethene	ND	0.20	EPA 8260D	12-13-21	12-13-21	
Acetone	ND	5.0	EPA 8260D	12-13-21	12-13-21	
Iodomethane	ND	1.4	EPA 8260D	12-13-21	12-13-21	
Carbon Disulfide	ND	0.20	EPA 8260D	12-13-21	12-13-21	
Methylene Chloride	ND	1.0	EPA 8260D	12-13-21	12-13-21	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	12-13-21	12-13-21	
Methyl t-Butyl Ether	ND	0.20	EPA 8260D	12-13-21	12-13-21	
1,1-Dichloroethane	ND	0.20	EPA 8260D	12-13-21	12-13-21	
Vinyl Acetate	ND	1.0	EPA 8260D	12-13-21	12-13-21	
2,2-Dichloropropane	ND	0.20	EPA 8260D	12-13-21	12-13-21	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	12-13-21	12-13-21	
2-Butanone	ND	5.0	EPA 8260D	12-13-21	12-13-21	
Bromochloromethane	ND	0.20	EPA 8260D	12-13-21	12-13-21	
Chloroform	ND	0.20	EPA 8260D	12-13-21	12-13-21	
1,1,1-Trichloroethane	ND	0.20	EPA 8260D	12-13-21	12-13-21	
Carbon Tetrachloride	ND	0.20	EPA 8260D	12-13-21	12-13-21	
1,1-Dichloropropene	ND	0.20	EPA 8260D	12-13-21	12-13-21	
Benzene	ND	0.20	EPA 8260D	12-13-21	12-13-21	
1,2-Dichloroethane	ND	0.20	EPA 8260D	12-13-21	12-13-21	
Trichloroethene	ND	0.20	EPA 8260D	12-13-21	12-13-21	
1,2-Dichloropropane	ND	0.20	EPA 8260D	12-13-21	12-13-21	
Dibromomethane	ND	0.20	EPA 8260D	12-13-21	12-13-21	
Bromodichloromethane	ND	0.20	EPA 8260D	12-13-21	12-13-21	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260D	12-13-21	12-13-21	
Methyl Isobutyl Ketone	ND	2.0	EPA 8260D	12-13-21	12-13-21	
Toluene	ND	1.0	EPA 8260D	12-13-21	12-13-21	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260D	12-13-21	12-13-21	



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 Samples Submitted: December 10, 2021
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW2-211208					
Laboratory ID:	12-108-01					
1,1,2-Trichloroethane	ND	0.20	EPA 8260D	12-13-21	12-13-21	
Tetrachloroethene	ND	0.20	EPA 8260D	12-13-21	12-13-21	
1,3-Dichloropropane	ND	0.20	EPA 8260D	12-13-21	12-13-21	
2-Hexanone	ND	2.0	EPA 8260D	12-13-21	12-13-21	
Dibromochloromethane	ND	0.20	EPA 8260D	12-13-21	12-13-21	
1,2-Dibromoethane	ND	0.20	EPA 8260D	12-13-21	12-13-21	
Chlorobenzene	ND	0.20	EPA 8260D	12-13-21	12-13-21	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260D	12-13-21	12-13-21	
Ethylbenzene	ND	0.20	EPA 8260D	12-13-21	12-13-21	
m,p-Xylene	ND	0.40	EPA 8260D	12-13-21	12-13-21	
o-Xylene	ND	0.20	EPA 8260D	12-13-21	12-13-21	
Styrene	ND	0.20	EPA 8260D	12-13-21	12-13-21	
Bromoform	ND	1.0	EPA 8260D	12-13-21	12-13-21	
Isopropylbenzene	ND	0.20	EPA 8260D	12-13-21	12-13-21	
Bromobenzene	ND	0.20	EPA 8260D	12-13-21	12-13-21	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260D	12-13-21	12-13-21	
1,2,3-Trichloropropane	ND	0.20	EPA 8260D	12-13-21	12-13-21	
n-Propylbenzene	ND	0.20	EPA 8260D	12-13-21	12-13-21	
2-Chlorotoluene	ND	0.20	EPA 8260D	12-13-21	12-13-21	
4-Chlorotoluene	ND	0.20	EPA 8260D	12-13-21	12-13-21	
1,3,5-Trimethylbenzene	ND	0.20	EPA 8260D	12-13-21	12-13-21	
tert-Butylbenzene	ND	0.20	EPA 8260D	12-13-21	12-13-21	
1,2,4-Trimethylbenzene	ND	0.20	EPA 8260D	12-13-21	12-13-21	
sec-Butylbenzene	ND	0.20	EPA 8260D	12-13-21	12-13-21	
1,3-Dichlorobenzene	ND	0.20	EPA 8260D	12-13-21	12-13-21	
p-Isopropyltoluene	ND	0.20	EPA 8260D	12-13-21	12-13-21	
1,4-Dichlorobenzene	ND	0.20	EPA 8260D	12-13-21	12-13-21	
1,2-Dichlorobenzene	ND	0.20	EPA 8260D	12-13-21	12-13-21	
n-Butylbenzene	ND	0.20	EPA 8260D	12-13-21	12-13-21	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260D	12-13-21	12-13-21	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260D	12-13-21	12-13-21	
Hexachlorobutadiene	ND	1.0	EPA 8260D	12-13-21	12-13-21	
Naphthalene	ND	1.3	EPA 8260D	12-13-21	12-13-21	
1,2,3-Trichlorobenzene	ND	0.27	EPA 8260D	12-13-21	12-13-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>105</i>	<i>75-127</i>				
<i>Toluene-d8</i>	<i>100</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>98</i>	<i>78-125</i>				



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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	TB-2-211208					
Laboratory ID:	12-108-02					
Dichlorodifluoromethane	ND	0.31	EPA 8260D	12-13-21	12-13-21	
Chloromethane	ND	1.3	EPA 8260D	12-13-21	12-13-21	
Vinyl Chloride	ND	0.20	EPA 8260D	12-13-21	12-13-21	
Bromomethane	ND	0.33	EPA 8260D	12-13-21	12-13-21	
Chloroethane	ND	1.0	EPA 8260D	12-13-21	12-13-21	
Trichlorofluoromethane	ND	0.20	EPA 8260D	12-13-21	12-13-21	
1,1-Dichloroethene	ND	0.20	EPA 8260D	12-13-21	12-13-21	
Acetone	ND	5.0	EPA 8260D	12-13-21	12-13-21	
Iodomethane	ND	1.4	EPA 8260D	12-13-21	12-13-21	
Carbon Disulfide	ND	0.20	EPA 8260D	12-13-21	12-13-21	
Methylene Chloride	ND	1.0	EPA 8260D	12-13-21	12-13-21	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	12-13-21	12-13-21	
Methyl t-Butyl Ether	ND	0.20	EPA 8260D	12-13-21	12-13-21	
1,1-Dichloroethane	ND	0.20	EPA 8260D	12-13-21	12-13-21	
Vinyl Acetate	ND	1.0	EPA 8260D	12-13-21	12-13-21	
2,2-Dichloropropane	ND	0.20	EPA 8260D	12-13-21	12-13-21	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	12-13-21	12-13-21	
2-Butanone	ND	5.0	EPA 8260D	12-13-21	12-13-21	
Bromochloromethane	ND	0.20	EPA 8260D	12-13-21	12-13-21	
Chloroform	ND	0.20	EPA 8260D	12-13-21	12-13-21	
1,1,1-Trichloroethane	ND	0.20	EPA 8260D	12-13-21	12-13-21	
Carbon Tetrachloride	ND	0.20	EPA 8260D	12-13-21	12-13-21	
1,1-Dichloropropene	ND	0.20	EPA 8260D	12-13-21	12-13-21	
Benzene	ND	0.20	EPA 8260D	12-13-21	12-13-21	
1,2-Dichloroethane	ND	0.20	EPA 8260D	12-13-21	12-13-21	
Trichloroethene	ND	0.20	EPA 8260D	12-13-21	12-13-21	
1,2-Dichloropropane	ND	0.20	EPA 8260D	12-13-21	12-13-21	
Dibromomethane	ND	0.20	EPA 8260D	12-13-21	12-13-21	
Bromodichloromethane	ND	0.20	EPA 8260D	12-13-21	12-13-21	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260D	12-13-21	12-13-21	
Methyl Isobutyl Ketone	ND	2.0	EPA 8260D	12-13-21	12-13-21	
Toluene	ND	1.0	EPA 8260D	12-13-21	12-13-21	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260D	12-13-21	12-13-21	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	TB-2-211208					
Laboratory ID:	12-108-02					
1,1,2-Trichloroethane	ND	0.20	EPA 8260D	12-13-21	12-13-21	
Tetrachloroethene	ND	0.20	EPA 8260D	12-13-21	12-13-21	
1,3-Dichloropropane	ND	0.20	EPA 8260D	12-13-21	12-13-21	
2-Hexanone	ND	2.0	EPA 8260D	12-13-21	12-13-21	
Dibromochloromethane	ND	0.20	EPA 8260D	12-13-21	12-13-21	
1,2-Dibromoethane	ND	0.20	EPA 8260D	12-13-21	12-13-21	
Chlorobenzene	ND	0.20	EPA 8260D	12-13-21	12-13-21	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260D	12-13-21	12-13-21	
Ethylbenzene	ND	0.20	EPA 8260D	12-13-21	12-13-21	
m,p-Xylene	ND	0.40	EPA 8260D	12-13-21	12-13-21	
o-Xylene	ND	0.20	EPA 8260D	12-13-21	12-13-21	
Styrene	ND	0.20	EPA 8260D	12-13-21	12-13-21	
Bromoform	ND	1.0	EPA 8260D	12-13-21	12-13-21	
Isopropylbenzene	ND	0.20	EPA 8260D	12-13-21	12-13-21	
Bromobenzene	ND	0.20	EPA 8260D	12-13-21	12-13-21	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260D	12-13-21	12-13-21	
1,2,3-Trichloropropane	ND	0.20	EPA 8260D	12-13-21	12-13-21	
n-Propylbenzene	ND	0.20	EPA 8260D	12-13-21	12-13-21	
2-Chlorotoluene	ND	0.20	EPA 8260D	12-13-21	12-13-21	
4-Chlorotoluene	ND	0.20	EPA 8260D	12-13-21	12-13-21	
1,3,5-Trimethylbenzene	ND	0.20	EPA 8260D	12-13-21	12-13-21	
tert-Butylbenzene	ND	0.20	EPA 8260D	12-13-21	12-13-21	
1,2,4-Trimethylbenzene	ND	0.20	EPA 8260D	12-13-21	12-13-21	
sec-Butylbenzene	ND	0.20	EPA 8260D	12-13-21	12-13-21	
1,3-Dichlorobenzene	ND	0.20	EPA 8260D	12-13-21	12-13-21	
p-Isopropyltoluene	ND	0.20	EPA 8260D	12-13-21	12-13-21	
1,4-Dichlorobenzene	ND	0.20	EPA 8260D	12-13-21	12-13-21	
1,2-Dichlorobenzene	ND	0.20	EPA 8260D	12-13-21	12-13-21	
n-Butylbenzene	ND	0.20	EPA 8260D	12-13-21	12-13-21	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260D	12-13-21	12-13-21	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260D	12-13-21	12-13-21	
Hexachlorobutadiene	ND	1.0	EPA 8260D	12-13-21	12-13-21	
Naphthalene	ND	1.3	EPA 8260D	12-13-21	12-13-21	
1,2,3-Trichlorobenzene	ND	0.27	EPA 8260D	12-13-21	12-13-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>103</i>	<i>75-127</i>				
<i>Toluene-d8</i>	<i>101</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>100</i>	<i>78-125</i>				



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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW6-211209					
Laboratory ID:	12-108-03					
Dichlorodifluoromethane	ND	0.31	EPA 8260D	12-13-21	12-13-21	
Chloromethane	ND	1.3	EPA 8260D	12-13-21	12-13-21	
Vinyl Chloride	ND	0.20	EPA 8260D	12-13-21	12-13-21	
Bromomethane	ND	0.33	EPA 8260D	12-13-21	12-13-21	
Chloroethane	ND	1.0	EPA 8260D	12-13-21	12-13-21	
Trichlorofluoromethane	ND	0.20	EPA 8260D	12-13-21	12-13-21	
1,1-Dichloroethene	ND	0.20	EPA 8260D	12-13-21	12-13-21	
Acetone	ND	5.0	EPA 8260D	12-13-21	12-13-21	
Iodomethane	ND	1.4	EPA 8260D	12-13-21	12-13-21	
Carbon Disulfide	ND	0.20	EPA 8260D	12-13-21	12-13-21	
Methylene Chloride	ND	1.0	EPA 8260D	12-13-21	12-13-21	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	12-13-21	12-13-21	
Methyl t-Butyl Ether	ND	0.20	EPA 8260D	12-13-21	12-13-21	
1,1-Dichloroethane	ND	0.20	EPA 8260D	12-13-21	12-13-21	
Vinyl Acetate	ND	1.0	EPA 8260D	12-13-21	12-13-21	
2,2-Dichloropropane	ND	0.20	EPA 8260D	12-13-21	12-13-21	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	12-13-21	12-13-21	
2-Butanone	ND	5.0	EPA 8260D	12-13-21	12-13-21	
Bromochloromethane	ND	0.20	EPA 8260D	12-13-21	12-13-21	
Chloroform	ND	0.20	EPA 8260D	12-13-21	12-13-21	
1,1,1-Trichloroethane	ND	0.20	EPA 8260D	12-13-21	12-13-21	
Carbon Tetrachloride	ND	0.20	EPA 8260D	12-13-21	12-13-21	
1,1-Dichloropropene	ND	0.20	EPA 8260D	12-13-21	12-13-21	
Benzene	ND	0.20	EPA 8260D	12-13-21	12-13-21	
1,2-Dichloroethane	ND	0.20	EPA 8260D	12-13-21	12-13-21	
Trichloroethene	ND	0.20	EPA 8260D	12-13-21	12-13-21	
1,2-Dichloropropane	ND	0.20	EPA 8260D	12-13-21	12-13-21	
Dibromomethane	ND	0.20	EPA 8260D	12-13-21	12-13-21	
Bromodichloromethane	ND	0.20	EPA 8260D	12-13-21	12-13-21	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260D	12-13-21	12-13-21	
Methyl Isobutyl Ketone	ND	2.0	EPA 8260D	12-13-21	12-13-21	
Toluene	ND	1.0	EPA 8260D	12-13-21	12-13-21	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260D	12-13-21	12-13-21	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW6-211209					
Laboratory ID:	12-108-03					
1,1,2-Trichloroethane	ND	0.20	EPA 8260D	12-13-21	12-13-21	
Tetrachloroethene	ND	0.20	EPA 8260D	12-13-21	12-13-21	
1,3-Dichloropropane	ND	0.20	EPA 8260D	12-13-21	12-13-21	
2-Hexanone	ND	2.0	EPA 8260D	12-13-21	12-13-21	
Dibromochloromethane	ND	0.20	EPA 8260D	12-13-21	12-13-21	
1,2-Dibromoethane	ND	0.20	EPA 8260D	12-13-21	12-13-21	
Chlorobenzene	ND	0.20	EPA 8260D	12-13-21	12-13-21	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260D	12-13-21	12-13-21	
Ethylbenzene	ND	0.20	EPA 8260D	12-13-21	12-13-21	
m,p-Xylene	ND	0.40	EPA 8260D	12-13-21	12-13-21	
o-Xylene	ND	0.20	EPA 8260D	12-13-21	12-13-21	
Styrene	ND	0.20	EPA 8260D	12-13-21	12-13-21	
Bromoform	ND	1.0	EPA 8260D	12-13-21	12-13-21	
Isopropylbenzene	ND	0.20	EPA 8260D	12-13-21	12-13-21	
Bromobenzene	ND	0.20	EPA 8260D	12-13-21	12-13-21	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260D	12-13-21	12-13-21	
1,2,3-Trichloropropane	ND	0.20	EPA 8260D	12-13-21	12-13-21	
n-Propylbenzene	ND	0.20	EPA 8260D	12-13-21	12-13-21	
2-Chlorotoluene	ND	0.20	EPA 8260D	12-13-21	12-13-21	
4-Chlorotoluene	ND	0.20	EPA 8260D	12-13-21	12-13-21	
1,3,5-Trimethylbenzene	ND	0.20	EPA 8260D	12-13-21	12-13-21	
tert-Butylbenzene	ND	0.20	EPA 8260D	12-13-21	12-13-21	
1,2,4-Trimethylbenzene	ND	0.20	EPA 8260D	12-13-21	12-13-21	
sec-Butylbenzene	ND	0.20	EPA 8260D	12-13-21	12-13-21	
1,3-Dichlorobenzene	ND	0.20	EPA 8260D	12-13-21	12-13-21	
p-Isopropyltoluene	ND	0.20	EPA 8260D	12-13-21	12-13-21	
1,4-Dichlorobenzene	ND	0.20	EPA 8260D	12-13-21	12-13-21	
1,2-Dichlorobenzene	ND	0.20	EPA 8260D	12-13-21	12-13-21	
n-Butylbenzene	ND	0.20	EPA 8260D	12-13-21	12-13-21	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260D	12-13-21	12-13-21	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260D	12-13-21	12-13-21	
Hexachlorobutadiene	ND	1.0	EPA 8260D	12-13-21	12-13-21	
Naphthalene	ND	1.3	EPA 8260D	12-13-21	12-13-21	
1,2,3-Trichlorobenzene	ND	0.27	EPA 8260D	12-13-21	12-13-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>104</i>	<i>75-127</i>				
<i>Toluene-d8</i>	<i>101</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>100</i>	<i>78-125</i>				



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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW7-211209					
Laboratory ID:	12-108-04					
Dichlorodifluoromethane	ND	0.31	EPA 8260D	12-13-21	12-13-21	
Chloromethane	ND	1.3	EPA 8260D	12-13-21	12-13-21	
Vinyl Chloride	ND	0.20	EPA 8260D	12-13-21	12-13-21	
Bromomethane	ND	0.33	EPA 8260D	12-13-21	12-13-21	
Chloroethane	ND	1.0	EPA 8260D	12-13-21	12-13-21	
Trichlorofluoromethane	ND	0.20	EPA 8260D	12-13-21	12-13-21	
1,1-Dichloroethene	ND	0.20	EPA 8260D	12-13-21	12-13-21	
Acetone	ND	5.0	EPA 8260D	12-13-21	12-13-21	
Iodomethane	ND	1.4	EPA 8260D	12-13-21	12-13-21	
Carbon Disulfide	ND	0.20	EPA 8260D	12-13-21	12-13-21	
Methylene Chloride	ND	1.0	EPA 8260D	12-13-21	12-13-21	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	12-13-21	12-13-21	
Methyl t-Butyl Ether	ND	0.20	EPA 8260D	12-13-21	12-13-21	
1,1-Dichloroethane	ND	0.20	EPA 8260D	12-13-21	12-13-21	
Vinyl Acetate	ND	1.0	EPA 8260D	12-13-21	12-13-21	
2,2-Dichloropropane	ND	0.20	EPA 8260D	12-13-21	12-13-21	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	12-13-21	12-13-21	
2-Butanone	ND	5.0	EPA 8260D	12-13-21	12-13-21	
Bromochloromethane	ND	0.20	EPA 8260D	12-13-21	12-13-21	
Chloroform	ND	0.20	EPA 8260D	12-13-21	12-13-21	
1,1,1-Trichloroethane	ND	0.20	EPA 8260D	12-13-21	12-13-21	
Carbon Tetrachloride	ND	0.20	EPA 8260D	12-13-21	12-13-21	
1,1-Dichloropropene	ND	0.20	EPA 8260D	12-13-21	12-13-21	
Benzene	ND	0.20	EPA 8260D	12-13-21	12-13-21	
1,2-Dichloroethane	ND	0.20	EPA 8260D	12-13-21	12-13-21	
Trichloroethene	ND	0.20	EPA 8260D	12-13-21	12-13-21	
1,2-Dichloropropane	ND	0.20	EPA 8260D	12-13-21	12-13-21	
Dibromomethane	ND	0.20	EPA 8260D	12-13-21	12-13-21	
Bromodichloromethane	ND	0.20	EPA 8260D	12-13-21	12-13-21	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260D	12-13-21	12-13-21	
Methyl Isobutyl Ketone	ND	2.0	EPA 8260D	12-13-21	12-13-21	
Toluene	ND	1.0	EPA 8260D	12-13-21	12-13-21	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260D	12-13-21	12-13-21	



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 Project: 6694-002-05 T700

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW7-211209					
Laboratory ID:	12-108-04					
1,1,2-Trichloroethane	ND	0.20	EPA 8260D	12-13-21	12-13-21	
Tetrachloroethene	ND	0.20	EPA 8260D	12-13-21	12-13-21	
1,3-Dichloropropane	ND	0.20	EPA 8260D	12-13-21	12-13-21	
2-Hexanone	ND	2.0	EPA 8260D	12-13-21	12-13-21	
Dibromochloromethane	ND	0.20	EPA 8260D	12-13-21	12-13-21	
1,2-Dibromoethane	ND	0.20	EPA 8260D	12-13-21	12-13-21	
Chlorobenzene	ND	0.20	EPA 8260D	12-13-21	12-13-21	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260D	12-13-21	12-13-21	
Ethylbenzene	ND	0.20	EPA 8260D	12-13-21	12-13-21	
m,p-Xylene	ND	0.40	EPA 8260D	12-13-21	12-13-21	
o-Xylene	ND	0.20	EPA 8260D	12-13-21	12-13-21	
Styrene	ND	0.20	EPA 8260D	12-13-21	12-13-21	
Bromoform	ND	1.0	EPA 8260D	12-13-21	12-13-21	
Isopropylbenzene	ND	0.20	EPA 8260D	12-13-21	12-13-21	
Bromobenzene	ND	0.20	EPA 8260D	12-13-21	12-13-21	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260D	12-13-21	12-13-21	
1,2,3-Trichloropropane	ND	0.20	EPA 8260D	12-13-21	12-13-21	
n-Propylbenzene	ND	0.20	EPA 8260D	12-13-21	12-13-21	
2-Chlorotoluene	ND	0.20	EPA 8260D	12-13-21	12-13-21	
4-Chlorotoluene	ND	0.20	EPA 8260D	12-13-21	12-13-21	
1,3,5-Trimethylbenzene	ND	0.20	EPA 8260D	12-13-21	12-13-21	
tert-Butylbenzene	ND	0.20	EPA 8260D	12-13-21	12-13-21	
1,2,4-Trimethylbenzene	ND	0.20	EPA 8260D	12-13-21	12-13-21	
sec-Butylbenzene	ND	0.20	EPA 8260D	12-13-21	12-13-21	
1,3-Dichlorobenzene	ND	0.20	EPA 8260D	12-13-21	12-13-21	
p-Isopropyltoluene	ND	0.20	EPA 8260D	12-13-21	12-13-21	
1,4-Dichlorobenzene	ND	0.20	EPA 8260D	12-13-21	12-13-21	
1,2-Dichlorobenzene	ND	0.20	EPA 8260D	12-13-21	12-13-21	
n-Butylbenzene	ND	0.20	EPA 8260D	12-13-21	12-13-21	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260D	12-13-21	12-13-21	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260D	12-13-21	12-13-21	
Hexachlorobutadiene	ND	1.0	EPA 8260D	12-13-21	12-13-21	
Naphthalene	ND	1.3	EPA 8260D	12-13-21	12-13-21	
1,2,3-Trichlorobenzene	ND	0.27	EPA 8260D	12-13-21	12-13-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>103</i>	<i>75-127</i>				
<i>Toluene-d8</i>	<i>102</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>99</i>	<i>78-125</i>				



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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	TB-1-211209					
Laboratory ID:	12-108-05					
Dichlorodifluoromethane	ND	0.31	EPA 8260D	12-13-21	12-13-21	
Chloromethane	ND	1.3	EPA 8260D	12-13-21	12-13-21	
Vinyl Chloride	ND	0.20	EPA 8260D	12-13-21	12-13-21	
Bromomethane	ND	0.33	EPA 8260D	12-13-21	12-13-21	
Chloroethane	ND	1.0	EPA 8260D	12-13-21	12-13-21	
Trichlorofluoromethane	ND	0.20	EPA 8260D	12-13-21	12-13-21	
1,1-Dichloroethene	ND	0.20	EPA 8260D	12-13-21	12-13-21	
Acetone	ND	5.0	EPA 8260D	12-13-21	12-13-21	
Iodomethane	ND	1.4	EPA 8260D	12-13-21	12-13-21	
Carbon Disulfide	ND	0.20	EPA 8260D	12-13-21	12-13-21	
Methylene Chloride	ND	1.0	EPA 8260D	12-13-21	12-13-21	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	12-13-21	12-13-21	
Methyl t-Butyl Ether	ND	0.20	EPA 8260D	12-13-21	12-13-21	
1,1-Dichloroethane	ND	0.20	EPA 8260D	12-13-21	12-13-21	
Vinyl Acetate	ND	1.0	EPA 8260D	12-13-21	12-13-21	
2,2-Dichloropropane	ND	0.20	EPA 8260D	12-13-21	12-13-21	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	12-13-21	12-13-21	
2-Butanone	ND	5.0	EPA 8260D	12-13-21	12-13-21	
Bromochloromethane	ND	0.20	EPA 8260D	12-13-21	12-13-21	
Chloroform	ND	0.20	EPA 8260D	12-13-21	12-13-21	
1,1,1-Trichloroethane	ND	0.20	EPA 8260D	12-13-21	12-13-21	
Carbon Tetrachloride	ND	0.20	EPA 8260D	12-13-21	12-13-21	
1,1-Dichloropropene	ND	0.20	EPA 8260D	12-13-21	12-13-21	
Benzene	ND	0.20	EPA 8260D	12-13-21	12-13-21	
1,2-Dichloroethane	ND	0.20	EPA 8260D	12-13-21	12-13-21	
Trichloroethene	ND	0.20	EPA 8260D	12-13-21	12-13-21	
1,2-Dichloropropane	ND	0.20	EPA 8260D	12-13-21	12-13-21	
Dibromomethane	ND	0.20	EPA 8260D	12-13-21	12-13-21	
Bromodichloromethane	ND	0.20	EPA 8260D	12-13-21	12-13-21	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260D	12-13-21	12-13-21	
Methyl Isobutyl Ketone	ND	2.0	EPA 8260D	12-13-21	12-13-21	
Toluene	ND	1.0	EPA 8260D	12-13-21	12-13-21	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260D	12-13-21	12-13-21	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	TB-1-211209					
Laboratory ID:	12-108-05					
1,1,2-Trichloroethane	ND	0.20	EPA 8260D	12-13-21	12-13-21	
Tetrachloroethene	ND	0.20	EPA 8260D	12-13-21	12-13-21	
1,3-Dichloropropane	ND	0.20	EPA 8260D	12-13-21	12-13-21	
2-Hexanone	ND	2.0	EPA 8260D	12-13-21	12-13-21	
Dibromochloromethane	ND	0.20	EPA 8260D	12-13-21	12-13-21	
1,2-Dibromoethane	ND	0.20	EPA 8260D	12-13-21	12-13-21	
Chlorobenzene	ND	0.20	EPA 8260D	12-13-21	12-13-21	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260D	12-13-21	12-13-21	
Ethylbenzene	ND	0.20	EPA 8260D	12-13-21	12-13-21	
m,p-Xylene	ND	0.40	EPA 8260D	12-13-21	12-13-21	
o-Xylene	ND	0.20	EPA 8260D	12-13-21	12-13-21	
Styrene	ND	0.20	EPA 8260D	12-13-21	12-13-21	
Bromoform	ND	1.0	EPA 8260D	12-13-21	12-13-21	
Isopropylbenzene	ND	0.20	EPA 8260D	12-13-21	12-13-21	
Bromobenzene	ND	0.20	EPA 8260D	12-13-21	12-13-21	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260D	12-13-21	12-13-21	
1,2,3-Trichloropropane	ND	0.20	EPA 8260D	12-13-21	12-13-21	
n-Propylbenzene	ND	0.20	EPA 8260D	12-13-21	12-13-21	
2-Chlorotoluene	ND	0.20	EPA 8260D	12-13-21	12-13-21	
4-Chlorotoluene	ND	0.20	EPA 8260D	12-13-21	12-13-21	
1,3,5-Trimethylbenzene	ND	0.20	EPA 8260D	12-13-21	12-13-21	
tert-Butylbenzene	ND	0.20	EPA 8260D	12-13-21	12-13-21	
1,2,4-Trimethylbenzene	ND	0.20	EPA 8260D	12-13-21	12-13-21	
sec-Butylbenzene	ND	0.20	EPA 8260D	12-13-21	12-13-21	
1,3-Dichlorobenzene	ND	0.20	EPA 8260D	12-13-21	12-13-21	
p-Isopropyltoluene	ND	0.20	EPA 8260D	12-13-21	12-13-21	
1,4-Dichlorobenzene	ND	0.20	EPA 8260D	12-13-21	12-13-21	
1,2-Dichlorobenzene	ND	0.20	EPA 8260D	12-13-21	12-13-21	
n-Butylbenzene	ND	0.20	EPA 8260D	12-13-21	12-13-21	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260D	12-13-21	12-13-21	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260D	12-13-21	12-13-21	
Hexachlorobutadiene	ND	1.0	EPA 8260D	12-13-21	12-13-21	
Naphthalene	ND	1.3	EPA 8260D	12-13-21	12-13-21	
1,2,3-Trichlorobenzene	ND	0.27	EPA 8260D	12-13-21	12-13-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>104</i>	<i>75-127</i>				
<i>Toluene-d8</i>	<i>101</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>97</i>	<i>78-125</i>				



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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	TB-2-211209					
Laboratory ID:	12-108-06					
Dichlorodifluoromethane	ND	0.31	EPA 8260D	12-13-21	12-13-21	
Chloromethane	ND	1.3	EPA 8260D	12-13-21	12-13-21	
Vinyl Chloride	ND	0.20	EPA 8260D	12-13-21	12-13-21	
Bromomethane	ND	0.33	EPA 8260D	12-13-21	12-13-21	
Chloroethane	ND	1.0	EPA 8260D	12-13-21	12-13-21	
Trichlorofluoromethane	ND	0.20	EPA 8260D	12-13-21	12-13-21	
1,1-Dichloroethene	ND	0.20	EPA 8260D	12-13-21	12-13-21	
Acetone	ND	5.0	EPA 8260D	12-13-21	12-13-21	
Iodomethane	ND	1.4	EPA 8260D	12-13-21	12-13-21	
Carbon Disulfide	ND	0.20	EPA 8260D	12-13-21	12-13-21	
Methylene Chloride	ND	1.0	EPA 8260D	12-13-21	12-13-21	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	12-13-21	12-13-21	
Methyl t-Butyl Ether	ND	0.20	EPA 8260D	12-13-21	12-13-21	
1,1-Dichloroethane	ND	0.20	EPA 8260D	12-13-21	12-13-21	
Vinyl Acetate	ND	1.0	EPA 8260D	12-13-21	12-13-21	
2,2-Dichloropropane	ND	0.20	EPA 8260D	12-13-21	12-13-21	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	12-13-21	12-13-21	
2-Butanone	ND	5.0	EPA 8260D	12-13-21	12-13-21	
Bromochloromethane	ND	0.20	EPA 8260D	12-13-21	12-13-21	
Chloroform	ND	0.20	EPA 8260D	12-13-21	12-13-21	
1,1,1-Trichloroethane	ND	0.20	EPA 8260D	12-13-21	12-13-21	
Carbon Tetrachloride	ND	0.20	EPA 8260D	12-13-21	12-13-21	
1,1-Dichloropropene	ND	0.20	EPA 8260D	12-13-21	12-13-21	
Benzene	ND	0.20	EPA 8260D	12-13-21	12-13-21	
1,2-Dichloroethane	ND	0.20	EPA 8260D	12-13-21	12-13-21	
Trichloroethene	ND	0.20	EPA 8260D	12-13-21	12-13-21	
1,2-Dichloropropane	ND	0.20	EPA 8260D	12-13-21	12-13-21	
Dibromomethane	ND	0.20	EPA 8260D	12-13-21	12-13-21	
Bromodichloromethane	ND	0.20	EPA 8260D	12-13-21	12-13-21	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260D	12-13-21	12-13-21	
Methyl Isobutyl Ketone	ND	2.0	EPA 8260D	12-13-21	12-13-21	
Toluene	ND	1.0	EPA 8260D	12-13-21	12-13-21	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260D	12-13-21	12-13-21	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	TB-2-211209					
Laboratory ID:	12-108-06					
1,1,2-Trichloroethane	ND	0.20	EPA 8260D	12-13-21	12-13-21	
Tetrachloroethene	ND	0.20	EPA 8260D	12-13-21	12-13-21	
1,3-Dichloropropane	ND	0.20	EPA 8260D	12-13-21	12-13-21	
2-Hexanone	ND	2.0	EPA 8260D	12-13-21	12-13-21	
Dibromochloromethane	ND	0.20	EPA 8260D	12-13-21	12-13-21	
1,2-Dibromoethane	ND	0.20	EPA 8260D	12-13-21	12-13-21	
Chlorobenzene	ND	0.20	EPA 8260D	12-13-21	12-13-21	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260D	12-13-21	12-13-21	
Ethylbenzene	ND	0.20	EPA 8260D	12-13-21	12-13-21	
m,p-Xylene	ND	0.40	EPA 8260D	12-13-21	12-13-21	
o-Xylene	ND	0.20	EPA 8260D	12-13-21	12-13-21	
Styrene	ND	0.20	EPA 8260D	12-13-21	12-13-21	
Bromoform	ND	1.0	EPA 8260D	12-13-21	12-13-21	
Isopropylbenzene	ND	0.20	EPA 8260D	12-13-21	12-13-21	
Bromobenzene	ND	0.20	EPA 8260D	12-13-21	12-13-21	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260D	12-13-21	12-13-21	
1,2,3-Trichloropropane	ND	0.20	EPA 8260D	12-13-21	12-13-21	
n-Propylbenzene	ND	0.20	EPA 8260D	12-13-21	12-13-21	
2-Chlorotoluene	ND	0.20	EPA 8260D	12-13-21	12-13-21	
4-Chlorotoluene	ND	0.20	EPA 8260D	12-13-21	12-13-21	
1,3,5-Trimethylbenzene	ND	0.20	EPA 8260D	12-13-21	12-13-21	
tert-Butylbenzene	ND	0.20	EPA 8260D	12-13-21	12-13-21	
1,2,4-Trimethylbenzene	ND	0.20	EPA 8260D	12-13-21	12-13-21	
sec-Butylbenzene	ND	0.20	EPA 8260D	12-13-21	12-13-21	
1,3-Dichlorobenzene	ND	0.20	EPA 8260D	12-13-21	12-13-21	
p-Isopropyltoluene	ND	0.20	EPA 8260D	12-13-21	12-13-21	
1,4-Dichlorobenzene	ND	0.20	EPA 8260D	12-13-21	12-13-21	
1,2-Dichlorobenzene	ND	0.20	EPA 8260D	12-13-21	12-13-21	
n-Butylbenzene	ND	0.20	EPA 8260D	12-13-21	12-13-21	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260D	12-13-21	12-13-21	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260D	12-13-21	12-13-21	
Hexachlorobutadiene	ND	1.0	EPA 8260D	12-13-21	12-13-21	
Naphthalene	ND	1.3	EPA 8260D	12-13-21	12-13-21	
1,2,3-Trichlorobenzene	ND	0.27	EPA 8260D	12-13-21	12-13-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>104</i>	<i>75-127</i>				
<i>Toluene-d8</i>	<i>101</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>100</i>	<i>78-125</i>				



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 Project: 6694-002-05 T700

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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW2-211208					
Laboratory ID:	12-108-01					
n-Nitrosodimethylamine	ND	0.95	EPA 8270E	12-14-21	12-17-21	
Pyridine	ND	0.95	EPA 8270E	12-14-21	12-17-21	
Phenol	ND	0.95	EPA 8270E	12-14-21	12-17-21	
Aniline	ND	4.7	EPA 8270E	12-14-21	12-17-21	
bis(2-Chloroethyl)ether	ND	0.95	EPA 8270E	12-14-21	12-17-21	
2-Chlorophenol	ND	0.95	EPA 8270E	12-14-21	12-17-21	
1,3-Dichlorobenzene	ND	0.95	EPA 8270E	12-14-21	12-17-21	
1,4-Dichlorobenzene	ND	0.95	EPA 8270E	12-14-21	12-17-21	
Benzyl alcohol	ND	0.95	EPA 8270E	12-14-21	12-17-21	
1,2-Dichlorobenzene	ND	0.95	EPA 8270E	12-14-21	12-17-21	
2-Methylphenol (o-Cresol)	ND	0.95	EPA 8270E	12-14-21	12-17-21	
bis(2-Chloroisopropyl)ether	ND	0.95	EPA 8270E	12-14-21	12-17-21	
(3+4)-Methylphenol (m,p-Cresol)	ND	0.95	EPA 8270E	12-14-21	12-17-21	
n-Nitroso-di-n-propylamine	ND	0.95	EPA 8270E	12-14-21	12-17-21	
Hexachloroethane	ND	0.95	EPA 8270E	12-14-21	12-17-21	
Nitrobenzene	ND	0.95	EPA 8270E	12-14-21	12-17-21	
Isophorone	ND	0.95	EPA 8270E	12-14-21	12-17-21	
2-Nitrophenol	ND	0.95	EPA 8270E	12-14-21	12-17-21	
2,4-Dimethylphenol	ND	0.95	EPA 8270E	12-14-21	12-17-21	
bis(2-Chloroethoxy)methane	ND	0.95	EPA 8270E	12-14-21	12-17-21	
2,4-Dichlorophenol	ND	0.95	EPA 8270E	12-14-21	12-17-21	
1,2,4-Trichlorobenzene	ND	0.95	EPA 8270E	12-14-21	12-17-21	
Naphthalene	ND	0.095	EPA 8270E/SIM	12-14-21	12-14-21	
4-Chloroaniline	ND	0.95	EPA 8270E	12-14-21	12-17-21	
Hexachlorobutadiene	ND	0.95	EPA 8270E	12-14-21	12-17-21	
4-Chloro-3-methylphenol	ND	0.95	EPA 8270E	12-14-21	12-17-21	
2-Methylnaphthalene	ND	0.095	EPA 8270E/SIM	12-14-21	12-14-21	
1-Methylnaphthalene	ND	0.095	EPA 8270E/SIM	12-14-21	12-14-21	
Hexachlorocyclopentadiene	ND	0.95	EPA 8270E	12-14-21	12-17-21	
2,4,6-Trichlorophenol	ND	0.95	EPA 8270E	12-14-21	12-17-21	
2,3-Dichloroaniline	ND	0.95	EPA 8270E	12-14-21	12-17-21	
2,4,5-Trichlorophenol	ND	0.95	EPA 8270E	12-14-21	12-17-21	
2-Chloronaphthalene	ND	0.95	EPA 8270E	12-14-21	12-17-21	
2-Nitroaniline	ND	0.95	EPA 8270E	12-14-21	12-17-21	
1,4-Dinitrobenzene	ND	0.95	EPA 8270E	12-14-21	12-17-21	
Dimethylphthalate	ND	4.7	EPA 8270E	12-14-21	12-17-21	
1,3-Dinitrobenzene	ND	0.95	EPA 8270E	12-14-21	12-17-21	
2,6-Dinitrotoluene	ND	0.95	EPA 8270E	12-14-21	12-17-21	
1,2-Dinitrobenzene	ND	0.95	EPA 8270E	12-14-21	12-17-21	
Acenaphthylene	ND	0.21	EPA 8270E/SIM	12-14-21	12-14-21	
3-Nitroaniline	ND	0.95	EPA 8270E	12-14-21	12-17-21	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW2-211208					
Laboratory ID:	12-108-01					
2,4-Dinitrophenol	ND	4.7	EPA 8270E	12-14-21	12-17-21	
Acenaphthene	ND	0.095	EPA 8270E/SIM	12-14-21	12-14-21	
4-Nitrophenol	ND	4.7	EPA 8270E	12-14-21	12-17-21	
2,4-Dinitrotoluene	ND	0.95	EPA 8270E	12-14-21	12-17-21	
Dibenzofuran	ND	0.95	EPA 8270E	12-14-21	12-17-21	
2,3,5,6-Tetrachlorophenol	ND	1.1	EPA 8270E	12-14-21	12-17-21	
2,3,4,6-Tetrachlorophenol	ND	0.95	EPA 8270E	12-14-21	12-17-21	
Diethylphthalate	ND	0.95	EPA 8270E	12-14-21	12-17-21	
4-Chlorophenyl-phenylether	ND	0.95	EPA 8270E	12-14-21	12-17-21	
4-Nitroaniline	ND	0.95	EPA 8270E	12-14-21	12-17-21	
Fluorene	ND	0.095	EPA 8270E/SIM	12-14-21	12-14-21	
4,6-Dinitro-2-methylphenol	ND	4.7	EPA 8270E	12-14-21	12-17-21	
n-Nitrosodiphenylamine	ND	0.95	EPA 8270E	12-14-21	12-17-21	
1,2-Diphenylhydrazine	ND	0.95	EPA 8270E	12-14-21	12-17-21	
4-Bromophenyl-phenylether	ND	0.95	EPA 8270E	12-14-21	12-17-21	
Hexachlorobenzene	ND	0.95	EPA 8270E	12-14-21	12-17-21	
Pentachlorophenol	ND	4.7	EPA 8270E	12-14-21	12-17-21	
Phenanthrene	ND	0.095	EPA 8270E/SIM	12-14-21	12-14-21	
Anthracene	ND	0.095	EPA 8270E/SIM	12-14-21	12-14-21	
Carbazole	ND	0.95	EPA 8270E	12-14-21	12-17-21	
Di-n-butylphthalate	ND	4.7	EPA 8270E	12-14-21	12-17-21	
Fluoranthene	ND	0.095	EPA 8270E/SIM	12-14-21	12-14-21	
Pyrene	ND	0.095	EPA 8270E/SIM	12-14-21	12-14-21	
Butylbenzylphthalate	ND	0.95	EPA 8270E	12-14-21	12-17-21	
bis-2-Ethylhexyladipate	ND	4.7	EPA 8270E	12-14-21	12-17-21	
3,3'-Dichlorobenzidine	ND	0.95	EPA 8270E	12-14-21	12-17-21	
Benzo[a]anthracene	ND	0.0095	EPA 8270E/SIM	12-14-21	12-14-21	
Chrysene	ND	0.0095	EPA 8270E/SIM	12-14-21	12-14-21	
bis(2-Ethylhexyl)phthalate	ND	4.7	EPA 8270E	12-14-21	12-17-21	
Di-n-octylphthalate	ND	0.95	EPA 8270E	12-14-21	12-17-21	
Benzo[b]fluoranthene	ND	0.0095	EPA 8270E/SIM	12-14-21	12-14-21	
Benzo(j,k)fluoranthene	ND	0.0095	EPA 8270E/SIM	12-14-21	12-14-21	
Benzo[a]pyrene	ND	0.0095	EPA 8270E/SIM	12-14-21	12-14-21	
Indeno[1,2,3-cd]pyrene	ND	0.0095	EPA 8270E/SIM	12-14-21	12-14-21	
Dibenz[a,h]anthracene	ND	0.0095	EPA 8270E/SIM	12-14-21	12-14-21	
Benzo[g,h,i]perylene	ND	0.0095	EPA 8270E/SIM	12-14-21	12-14-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
2-Fluorophenol	37	10 - 82				
Phenol-d6	26	10 - 92				
Nitrobenzene-d5	61	32 - 105				
2-Fluorobiphenyl	67	38 - 105				
2,4,6-Tribromophenol	83	25 - 124				
Terphenyl-d14	64	42 - 116				



Date of Report: December 22, 2021
 Samples Submitted: December 10, 2021
 Laboratory Reference: 2112-108
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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW6-211209					
Laboratory ID:	12-108-03					
n-Nitrosodimethylamine	ND	0.98	EPA 8270E	12-14-21	12-17-21	
Pyridine	ND	0.98	EPA 8270E	12-14-21	12-17-21	
Phenol	ND	0.98	EPA 8270E	12-14-21	12-17-21	
Aniline	ND	4.9	EPA 8270E	12-14-21	12-17-21	
bis(2-Chloroethyl)ether	ND	0.98	EPA 8270E	12-14-21	12-17-21	
2-Chlorophenol	ND	0.98	EPA 8270E	12-14-21	12-17-21	
1,3-Dichlorobenzene	ND	0.98	EPA 8270E	12-14-21	12-17-21	
1,4-Dichlorobenzene	ND	0.98	EPA 8270E	12-14-21	12-17-21	
Benzyl alcohol	ND	0.98	EPA 8270E	12-14-21	12-17-21	
1,2-Dichlorobenzene	ND	0.98	EPA 8270E	12-14-21	12-17-21	
2-Methylphenol (o-Cresol)	ND	0.98	EPA 8270E	12-14-21	12-17-21	
bis(2-Chloroisopropyl)ether	ND	0.98	EPA 8270E	12-14-21	12-17-21	
(3+4)-Methylphenol (m,p-Cresol)	ND	0.98	EPA 8270E	12-14-21	12-17-21	
n-Nitroso-di-n-propylamine	ND	0.98	EPA 8270E	12-14-21	12-17-21	
Hexachloroethane	ND	0.98	EPA 8270E	12-14-21	12-17-21	
Nitrobenzene	ND	0.98	EPA 8270E	12-14-21	12-17-21	
Isophorone	ND	0.98	EPA 8270E	12-14-21	12-17-21	
2-Nitrophenol	ND	0.98	EPA 8270E	12-14-21	12-17-21	
2,4-Dimethylphenol	ND	0.98	EPA 8270E	12-14-21	12-17-21	
bis(2-Chloroethoxy)methane	ND	0.98	EPA 8270E	12-14-21	12-17-21	
2,4-Dichlorophenol	ND	0.98	EPA 8270E	12-14-21	12-17-21	
1,2,4-Trichlorobenzene	ND	0.98	EPA 8270E	12-14-21	12-17-21	
Naphthalene	ND	0.098	EPA 8270E/SIM	12-14-21	12-14-21	
4-Chloroaniline	ND	0.98	EPA 8270E	12-14-21	12-17-21	
Hexachlorobutadiene	ND	0.98	EPA 8270E	12-14-21	12-17-21	
4-Chloro-3-methylphenol	ND	0.98	EPA 8270E	12-14-21	12-17-21	
2-Methylnaphthalene	ND	0.098	EPA 8270E/SIM	12-14-21	12-14-21	
1-Methylnaphthalene	ND	0.098	EPA 8270E/SIM	12-14-21	12-14-21	
Hexachlorocyclopentadiene	ND	0.98	EPA 8270E	12-14-21	12-17-21	
2,4,6-Trichlorophenol	ND	0.98	EPA 8270E	12-14-21	12-17-21	
2,3-Dichloroaniline	ND	0.98	EPA 8270E	12-14-21	12-17-21	
2,4,5-Trichlorophenol	ND	0.98	EPA 8270E	12-14-21	12-17-21	
2-Chloronaphthalene	ND	0.98	EPA 8270E	12-14-21	12-17-21	
2-Nitroaniline	ND	0.98	EPA 8270E	12-14-21	12-17-21	
1,4-Dinitrobenzene	ND	0.98	EPA 8270E	12-14-21	12-17-21	
Dimethylphthalate	ND	4.9	EPA 8270E	12-14-21	12-17-21	
1,3-Dinitrobenzene	ND	0.98	EPA 8270E	12-14-21	12-17-21	
2,6-Dinitrotoluene	ND	0.98	EPA 8270E	12-14-21	12-17-21	
1,2-Dinitrobenzene	ND	0.98	EPA 8270E	12-14-21	12-17-21	
Acenaphthylene	ND	0.22	EPA 8270E/SIM	12-14-21	12-14-21	
3-Nitroaniline	ND	0.98	EPA 8270E	12-14-21	12-17-21	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW6-211209					
Laboratory ID:	12-108-03					
2,4-Dinitrophenol	ND	4.9	EPA 8270E	12-14-21	12-17-21	
Acenaphthene	ND	0.098	EPA 8270E/SIM	12-14-21	12-14-21	
4-Nitrophenol	ND	4.9	EPA 8270E	12-14-21	12-17-21	
2,4-Dinitrotoluene	ND	0.98	EPA 8270E	12-14-21	12-17-21	
Dibenzofuran	ND	0.98	EPA 8270E	12-14-21	12-17-21	
2,3,5,6-Tetrachlorophenol	ND	1.2	EPA 8270E	12-14-21	12-17-21	
2,3,4,6-Tetrachlorophenol	ND	0.98	EPA 8270E	12-14-21	12-17-21	
Diethylphthalate	ND	0.98	EPA 8270E	12-14-21	12-17-21	
4-Chlorophenyl-phenylether	ND	0.98	EPA 8270E	12-14-21	12-17-21	
4-Nitroaniline	ND	0.98	EPA 8270E	12-14-21	12-17-21	
Fluorene	ND	0.098	EPA 8270E/SIM	12-14-21	12-14-21	
4,6-Dinitro-2-methylphenol	ND	4.9	EPA 8270E	12-14-21	12-17-21	
n-Nitrosodiphenylamine	ND	0.98	EPA 8270E	12-14-21	12-17-21	
1,2-Diphenylhydrazine	ND	0.98	EPA 8270E	12-14-21	12-17-21	
4-Bromophenyl-phenylether	ND	0.98	EPA 8270E	12-14-21	12-17-21	
Hexachlorobenzene	ND	0.98	EPA 8270E	12-14-21	12-17-21	
Pentachlorophenol	ND	4.9	EPA 8270E	12-14-21	12-17-21	
Phenanthrene	ND	0.098	EPA 8270E/SIM	12-14-21	12-14-21	
Anthracene	ND	0.098	EPA 8270E/SIM	12-14-21	12-14-21	
Carbazole	ND	0.98	EPA 8270E	12-14-21	12-17-21	
Di-n-butylphthalate	ND	4.9	EPA 8270E	12-14-21	12-17-21	
Fluoranthene	ND	0.098	EPA 8270E/SIM	12-14-21	12-14-21	
Pyrene	ND	0.098	EPA 8270E/SIM	12-14-21	12-14-21	
Butylbenzylphthalate	ND	0.98	EPA 8270E	12-14-21	12-17-21	
bis(2-Ethylhexyl)adipate	ND	4.9	EPA 8270E	12-14-21	12-17-21	
3,3'-Dichlorobenzidine	ND	0.98	EPA 8270E	12-14-21	12-17-21	
Benzo[a]anthracene	ND	0.0098	EPA 8270E/SIM	12-14-21	12-14-21	
Chrysene	ND	0.0098	EPA 8270E/SIM	12-14-21	12-14-21	
bis(2-Ethylhexyl)phthalate	ND	4.9	EPA 8270E	12-14-21	12-17-21	
Di-n-octylphthalate	ND	0.98	EPA 8270E	12-14-21	12-17-21	
Benzo[b]fluoranthene	ND	0.0098	EPA 8270E/SIM	12-14-21	12-14-21	
Benzo(j,k)fluoranthene	0.018	0.0098	EPA 8270E/SIM	12-14-21	12-14-21	
Benzo[a]pyrene	ND	0.0098	EPA 8270E/SIM	12-14-21	12-14-21	
Indeno[1,2,3-cd]pyrene	ND	0.0098	EPA 8270E/SIM	12-14-21	12-14-21	
Dibenz[a,h]anthracene	ND	0.0098	EPA 8270E/SIM	12-14-21	12-14-21	
Benzo[g,h,i]perylene	ND	0.0098	EPA 8270E/SIM	12-14-21	12-14-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
2-Fluorophenol	44	10 - 82				
Phenol-d6	31	10 - 92				
Nitrobenzene-d5	65	32 - 105				
2-Fluorobiphenyl	72	38 - 105				
2,4,6-Tribromophenol	86	25 - 124				
Terphenyl-d14	68	42 - 116				



Date of Report: December 22, 2021
 Samples Submitted: December 10, 2021
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SEMIVOLATILE ORGANICS EPA 8270E/SIM
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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW7-211209					
Laboratory ID:	12-108-04					
n-Nitrosodimethylamine	ND	1.0	EPA 8270E	12-14-21	12-17-21	
Pyridine	ND	1.0	EPA 8270E	12-14-21	12-17-21	
Phenol	ND	1.0	EPA 8270E	12-14-21	12-17-21	
Aniline	ND	5.1	EPA 8270E	12-14-21	12-17-21	
bis(2-Chloroethyl)ether	ND	1.0	EPA 8270E	12-14-21	12-17-21	
2-Chlorophenol	ND	1.0	EPA 8270E	12-14-21	12-17-21	
1,3-Dichlorobenzene	ND	1.0	EPA 8270E	12-14-21	12-17-21	
1,4-Dichlorobenzene	ND	1.0	EPA 8270E	12-14-21	12-17-21	
Benzyl alcohol	ND	1.0	EPA 8270E	12-14-21	12-17-21	
1,2-Dichlorobenzene	ND	1.0	EPA 8270E	12-14-21	12-17-21	
2-Methylphenol (o-Cresol)	ND	1.0	EPA 8270E	12-14-21	12-17-21	
bis(2-Chloroisopropyl)ether	ND	1.0	EPA 8270E	12-14-21	12-17-21	
(3+4)-Methylphenol (m,p-Cresol)	ND	1.0	EPA 8270E	12-14-21	12-17-21	
n-Nitroso-di-n-propylamine	ND	1.0	EPA 8270E	12-14-21	12-17-21	
Hexachloroethane	ND	1.0	EPA 8270E	12-14-21	12-17-21	
Nitrobenzene	ND	1.0	EPA 8270E	12-14-21	12-17-21	
Isophorone	ND	1.0	EPA 8270E	12-14-21	12-17-21	
2-Nitrophenol	ND	1.0	EPA 8270E	12-14-21	12-17-21	
2,4-Dimethylphenol	ND	1.0	EPA 8270E	12-14-21	12-17-21	
bis(2-Chloroethoxy)methane	ND	1.0	EPA 8270E	12-14-21	12-17-21	
2,4-Dichlorophenol	ND	1.0	EPA 8270E	12-14-21	12-17-21	
1,2,4-Trichlorobenzene	ND	1.0	EPA 8270E	12-14-21	12-17-21	
Naphthalene	ND	0.10	EPA 8270E/SIM	12-14-21	12-14-21	
4-Chloroaniline	ND	1.0	EPA 8270E	12-14-21	12-17-21	
Hexachlorobutadiene	ND	1.0	EPA 8270E	12-14-21	12-17-21	
4-Chloro-3-methylphenol	ND	1.0	EPA 8270E	12-14-21	12-17-21	
2-Methylnaphthalene	ND	0.10	EPA 8270E/SIM	12-14-21	12-14-21	
1-Methylnaphthalene	ND	0.10	EPA 8270E/SIM	12-14-21	12-14-21	
Hexachlorocyclopentadiene	ND	1.0	EPA 8270E	12-14-21	12-17-21	
2,4,6-Trichlorophenol	ND	1.0	EPA 8270E	12-14-21	12-17-21	
2,3-Dichloroaniline	ND	1.0	EPA 8270E	12-14-21	12-17-21	
2,4,5-Trichlorophenol	ND	1.0	EPA 8270E	12-14-21	12-17-21	
2-Chloronaphthalene	ND	1.0	EPA 8270E	12-14-21	12-17-21	
2-Nitroaniline	ND	1.0	EPA 8270E	12-14-21	12-17-21	
1,4-Dinitrobenzene	ND	1.0	EPA 8270E	12-14-21	12-17-21	
Dimethylphthalate	ND	5.1	EPA 8270E	12-14-21	12-17-21	
1,3-Dinitrobenzene	ND	1.0	EPA 8270E	12-14-21	12-17-21	
2,6-Dinitrotoluene	ND	1.0	EPA 8270E	12-14-21	12-17-21	
1,2-Dinitrobenzene	ND	1.0	EPA 8270E	12-14-21	12-17-21	
Acenaphthylene	ND	0.22	EPA 8270E/SIM	12-14-21	12-14-21	
3-Nitroaniline	ND	1.0	EPA 8270E	12-14-21	12-17-21	



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 Samples Submitted: December 10, 2021
 Laboratory Reference: 2112-108
 Project: 6694-002-05 T700

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW7-211209					
Laboratory ID:	12-108-04					
2,4-Dinitrophenol	ND	5.1	EPA 8270E	12-14-21	12-17-21	
Acenaphthene	ND	0.10	EPA 8270E/SIM	12-14-21	12-14-21	
4-Nitrophenol	ND	5.1	EPA 8270E	12-14-21	12-17-21	
2,4-Dinitrotoluene	ND	1.0	EPA 8270E	12-14-21	12-17-21	
Dibenzofuran	ND	1.0	EPA 8270E	12-14-21	12-17-21	
2,3,5,6-Tetrachlorophenol	ND	1.2	EPA 8270E	12-14-21	12-17-21	
2,3,4,6-Tetrachlorophenol	ND	1.0	EPA 8270E	12-14-21	12-17-21	
Diethylphthalate	ND	1.0	EPA 8270E	12-14-21	12-17-21	
4-Chlorophenyl-phenylether	ND	1.0	EPA 8270E	12-14-21	12-17-21	
4-Nitroaniline	ND	1.0	EPA 8270E	12-14-21	12-17-21	
Fluorene	ND	0.10	EPA 8270E/SIM	12-14-21	12-14-21	
4,6-Dinitro-2-methylphenol	ND	5.1	EPA 8270E	12-14-21	12-17-21	
n-Nitrosodiphenylamine	ND	1.0	EPA 8270E	12-14-21	12-17-21	
1,2-Diphenylhydrazine	ND	1.0	EPA 8270E	12-14-21	12-17-21	
4-Bromophenyl-phenylether	ND	1.0	EPA 8270E	12-14-21	12-17-21	
Hexachlorobenzene	ND	1.0	EPA 8270E	12-14-21	12-17-21	
Pentachlorophenol	ND	5.1	EPA 8270E	12-14-21	12-17-21	
Phenanthrene	ND	0.10	EPA 8270E/SIM	12-14-21	12-14-21	
Anthracene	ND	0.10	EPA 8270E/SIM	12-14-21	12-14-21	
Carbazole	ND	1.0	EPA 8270E	12-14-21	12-17-21	
Di-n-butylphthalate	ND	5.1	EPA 8270E	12-14-21	12-17-21	
Fluoranthene	ND	0.10	EPA 8270E/SIM	12-14-21	12-14-21	
Pyrene	ND	0.10	EPA 8270E/SIM	12-14-21	12-14-21	
Butylbenzylphthalate	ND	1.0	EPA 8270E	12-14-21	12-17-21	
bis(2-Ethylhexyl)adipate	ND	5.1	EPA 8270E	12-14-21	12-17-21	
3,3'-Dichlorobenzidine	ND	1.0	EPA 8270E	12-14-21	12-17-21	
Benzo[a]anthracene	ND	0.010	EPA 8270E/SIM	12-14-21	12-14-21	
Chrysene	ND	0.010	EPA 8270E/SIM	12-14-21	12-14-21	
bis(2-Ethylhexyl)phthalate	ND	5.1	EPA 8270E	12-14-21	12-17-21	
Di-n-octylphthalate	ND	1.0	EPA 8270E	12-14-21	12-17-21	
Benzo[b]fluoranthene	ND	0.010	EPA 8270E/SIM	12-14-21	12-14-21	
Benzo(j,k)fluoranthene	0.016	0.010	EPA 8270E/SIM	12-14-21	12-14-21	
Benzo[a]pyrene	ND	0.010	EPA 8270E/SIM	12-14-21	12-14-21	
Indeno[1,2,3-cd]pyrene	ND	0.010	EPA 8270E/SIM	12-14-21	12-14-21	
Dibenz[a,h]anthracene	ND	0.010	EPA 8270E/SIM	12-14-21	12-14-21	
Benzo[g,h,i]perylene	ND	0.010	EPA 8270E/SIM	12-14-21	12-14-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
2-Fluorophenol	40	10 - 82				
Phenol-d6	28	10 - 92				
Nitrobenzene-d5	60	32 - 105				
2-Fluorobiphenyl	67	38 - 105				
2,4,6-Tribromophenol	82	25 - 124				
Terphenyl-d14	63	42 - 116				



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PCBs EPA 8082A

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW2-211208					
Laboratory ID:	12-108-01					
Aroclor 1016	ND	0.047	EPA 8082A	12-13-21	12-15-21	
Aroclor 1221	ND	0.047	EPA 8082A	12-13-21	12-15-21	
Aroclor 1232	ND	0.047	EPA 8082A	12-13-21	12-15-21	
Aroclor 1242	ND	0.047	EPA 8082A	12-13-21	12-15-21	
Aroclor 1248	ND	0.047	EPA 8082A	12-13-21	12-15-21	
Aroclor 1254	ND	0.047	EPA 8082A	12-13-21	12-15-21	
Aroclor 1260	ND	0.047	EPA 8082A	12-13-21	12-15-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
DCB	88	42-140				
Client ID:	MW6-211209					
Laboratory ID:	12-108-03					
Aroclor 1016	ND	0.048	EPA 8082A	12-13-21	12-15-21	
Aroclor 1221	ND	0.048	EPA 8082A	12-13-21	12-15-21	
Aroclor 1232	ND	0.048	EPA 8082A	12-13-21	12-15-21	
Aroclor 1242	ND	0.048	EPA 8082A	12-13-21	12-15-21	
Aroclor 1248	ND	0.048	EPA 8082A	12-13-21	12-15-21	
Aroclor 1254	ND	0.048	EPA 8082A	12-13-21	12-15-21	
Aroclor 1260	ND	0.048	EPA 8082A	12-13-21	12-15-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
DCB	77	42-140				
Client ID:	MW7-211209					
Laboratory ID:	12-108-04					
Aroclor 1016	ND	0.047	EPA 8082A	12-13-21	12-15-21	
Aroclor 1221	ND	0.047	EPA 8082A	12-13-21	12-15-21	
Aroclor 1232	ND	0.047	EPA 8082A	12-13-21	12-15-21	
Aroclor 1242	ND	0.047	EPA 8082A	12-13-21	12-15-21	
Aroclor 1248	ND	0.047	EPA 8082A	12-13-21	12-15-21	
Aroclor 1254	ND	0.047	EPA 8082A	12-13-21	12-15-21	
Aroclor 1260	ND	0.047	EPA 8082A	12-13-21	12-15-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
DCB	83	42-140				



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**ORGANOCHLORINE
 PESTICIDES EPA 8081B**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW2-211208					
Laboratory ID:	12-108-01					
alpha-BHC	ND	0.0047	EPA 8081B	12-13-21	12-13-21	
gamma-BHC (Lindane)	ND	0.0047	EPA 8081B	12-13-21	12-13-21	
beta-BHC	ND	0.0047	EPA 8081B	12-13-21	12-13-21	
delta-BHC	ND	0.0047	EPA 8081B	12-13-21	12-13-21	
Heptachlor	ND	0.0047	EPA 8081B	12-13-21	12-13-21	
Aldrin	ND	0.0019	EPA 8081B	12-13-21	12-13-21	
Heptachlor Epoxide	ND	0.0028	EPA 8081B	12-13-21	12-13-21	
gamma-Chlordane	ND	0.0047	EPA 8081B	12-13-21	12-13-21	
alpha-Chlordane	ND	0.0047	EPA 8081B	12-13-21	12-13-21	
4,4'-DDE	ND	0.0047	EPA 8081B	12-13-21	12-13-21	
Endosulfan I	ND	0.0047	EPA 8081B	12-13-21	12-13-21	
Dieldrin	ND	0.0047	EPA 8081B	12-13-21	12-13-21	
Endrin	ND	0.0047	EPA 8081B	12-13-21	12-13-21	
4,4'-DDD	ND	0.0047	EPA 8081B	12-13-21	12-13-21	
Endosulfan II	ND	0.0047	EPA 8081B	12-13-21	12-13-21	
4,4'-DDT	ND	0.0047	EPA 8081B	12-13-21	12-13-21	
Endrin Aldehyde	ND	0.0047	EPA 8081B	12-13-21	12-13-21	
Methoxychlor	ND	0.0095	EPA 8081B	12-13-21	12-13-21	
Endosulfan Sulfate	ND	0.0047	EPA 8081B	12-13-21	12-13-21	
Endrin Ketone	ND	0.019	EPA 8081B	12-13-21	12-13-21	
Toxaphene	ND	0.047	EPA 8081B	12-13-21	12-13-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
TCMX	64	25-114				
DCB	75	30-137				



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**ORGANOCHLORINE
 PESTICIDES EPA 8081B**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW6-211209					
Laboratory ID:	12-108-03					
alpha-BHC	ND	0.0048	EPA 8081B	12-13-21	12-13-21	
gamma-BHC (Lindane)	ND	0.0048	EPA 8081B	12-13-21	12-13-21	
beta-BHC	ND	0.0048	EPA 8081B	12-13-21	12-13-21	
delta-BHC	ND	0.0048	EPA 8081B	12-13-21	12-13-21	
Heptachlor	ND	0.0048	EPA 8081B	12-13-21	12-13-21	
Aldrin	ND	0.0019	EPA 8081B	12-13-21	12-13-21	
Heptachlor Epoxide	ND	0.0029	EPA 8081B	12-13-21	12-13-21	
gamma-Chlordane	ND	0.0048	EPA 8081B	12-13-21	12-13-21	
alpha-Chlordane	ND	0.0048	EPA 8081B	12-13-21	12-13-21	
4,4'-DDE	ND	0.0048	EPA 8081B	12-13-21	12-13-21	
Endosulfan I	ND	0.0048	EPA 8081B	12-13-21	12-13-21	
Dieldrin	ND	0.0048	EPA 8081B	12-13-21	12-13-21	
Endrin	ND	0.0048	EPA 8081B	12-13-21	12-13-21	
4,4'-DDD	ND	0.0048	EPA 8081B	12-13-21	12-13-21	
Endosulfan II	ND	0.0048	EPA 8081B	12-13-21	12-13-21	
4,4'-DDT	ND	0.0048	EPA 8081B	12-13-21	12-13-21	
Endrin Aldehyde	ND	0.0048	EPA 8081B	12-13-21	12-13-21	
Methoxychlor	ND	0.0095	EPA 8081B	12-13-21	12-13-21	
Endosulfan Sulfate	ND	0.0048	EPA 8081B	12-13-21	12-13-21	
Endrin Ketone	ND	0.019	EPA 8081B	12-13-21	12-13-21	
Toxaphene	ND	0.048	EPA 8081B	12-13-21	12-13-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
TCMX	63	25-114				
DCB	63	30-137				



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**ORGANOCHLORINE
 PESTICIDES EPA 8081B**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW7-211209					
Laboratory ID:	12-108-04					
alpha-BHC	ND	0.0047	EPA 8081B	12-13-21	12-13-21	
gamma-BHC (Lindane)	ND	0.0047	EPA 8081B	12-13-21	12-13-21	
beta-BHC	ND	0.0047	EPA 8081B	12-13-21	12-13-21	
delta-BHC	ND	0.0047	EPA 8081B	12-13-21	12-13-21	
Heptachlor	ND	0.0047	EPA 8081B	12-13-21	12-13-21	
Aldrin	ND	0.0019	EPA 8081B	12-13-21	12-13-21	
Heptachlor Epoxide	ND	0.0028	EPA 8081B	12-13-21	12-13-21	
gamma-Chlordane	ND	0.0047	EPA 8081B	12-13-21	12-13-21	
alpha-Chlordane	ND	0.0047	EPA 8081B	12-13-21	12-13-21	
4,4'-DDE	ND	0.0047	EPA 8081B	12-13-21	12-13-21	
Endosulfan I	ND	0.0047	EPA 8081B	12-13-21	12-13-21	
Dieldrin	ND	0.0047	EPA 8081B	12-13-21	12-13-21	
Endrin	ND	0.0047	EPA 8081B	12-13-21	12-13-21	
4,4'-DDD	ND	0.0047	EPA 8081B	12-13-21	12-13-21	
Endosulfan II	ND	0.0047	EPA 8081B	12-13-21	12-13-21	
4,4'-DDT	ND	0.0047	EPA 8081B	12-13-21	12-13-21	
Endrin Aldehyde	ND	0.0047	EPA 8081B	12-13-21	12-13-21	
Methoxychlor	ND	0.0095	EPA 8081B	12-13-21	12-13-21	
Endosulfan Sulfate	ND	0.0047	EPA 8081B	12-13-21	12-13-21	
Endrin Ketone	ND	0.019	EPA 8081B	12-13-21	12-13-21	
Toxaphene	ND	0.047	EPA 8081B	12-13-21	12-13-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
TCMX	68	25-114				
DCB	64	30-137				



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TOTAL METALS
EPA 200.7/200.8/7470A

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW2-211208					
Laboratory ID:	12-108-01					
Arsenic	4.8	3.3	EPA 200.8	12-13-21	12-13-21	
Cadmium	ND	4.4	EPA 200.8	12-13-21	12-13-21	
Chromium	ND	11	EPA 200.8	12-13-21	12-13-21	
Copper	ND	11	EPA 200.8	12-13-21	12-13-21	
Iron	370	56	EPA 200.7	12-16-21	12-16-21	
Lead	ND	1.1	EPA 200.8	12-13-21	12-13-21	
Magnesium	18000	1100	EPA 200.7	12-16-21	12-16-21	
Manganese	300	11	EPA 200.7	12-16-21	12-16-21	
Mercury	ND	0.025	EPA 7470A	12-15-21	12-15-21	
Nickel	ND	22	EPA 200.8	12-13-21	12-13-21	
Selenium	ND	5.6	EPA 200.8	12-13-21	12-13-21	
Zinc	ND	28	EPA 200.8	12-13-21	12-13-21	

Client ID:	MW6-211209					
Laboratory ID:	12-108-03					
Arsenic	3.5	3.3	EPA 200.8	12-13-21	12-13-21	
Cadmium	ND	4.4	EPA 200.8	12-13-21	12-13-21	
Chromium	ND	11	EPA 200.8	12-13-21	12-13-21	
Copper	ND	11	EPA 200.8	12-13-21	12-13-21	
Iron	420	56	EPA 200.7	12-16-21	12-16-21	
Lead	ND	1.1	EPA 200.8	12-13-21	12-13-21	
Magnesium	23000	1100	EPA 200.7	12-16-21	12-16-21	
Manganese	1800	11	EPA 200.7	12-16-21	12-16-21	
Mercury	ND	0.025	EPA 7470A	12-15-21	12-15-21	
Nickel	ND	22	EPA 200.8	12-13-21	12-13-21	
Selenium	ND	5.6	EPA 200.8	12-13-21	12-13-21	
Zinc	ND	28	EPA 200.8	12-13-21	12-13-21	



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TOTAL METALS
EPA 200.7/200.8/7470A

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW7-211209					
Laboratory ID:	12-108-04					
Arsenic	11	3.3	EPA 200.8	12-13-21	12-13-21	
Cadmium	ND	4.4	EPA 200.8	12-13-21	12-13-21	
Chromium	ND	11	EPA 200.8	12-13-21	12-13-21	
Copper	ND	11	EPA 200.8	12-13-21	12-13-21	
Iron	6900	56	EPA 200.7	12-16-21	12-16-21	
Lead	3.2	1.1	EPA 200.8	12-13-21	12-13-21	
Magnesium	18000	1100	EPA 200.7	12-16-21	12-16-21	
Manganese	680	11	EPA 200.7	12-16-21	12-16-21	
Mercury	ND	0.025	EPA 7470A	12-15-21	12-15-21	
Nickel	42	22	EPA 200.8	12-13-21	12-13-21	
Selenium	ND	5.6	EPA 200.8	12-13-21	12-13-21	
Zinc	ND	28	EPA 200.8	12-13-21	12-13-21	



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DISSOLVED METALS
EPA 200.7/200.8/7470A

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW2-211208					
Laboratory ID:	12-108-01					
Arsenic	4.2	3.0	EPA 200.8		12-10-21	
Cadmium	ND	4.0	EPA 200.8		12-10-21	
Calcium	22000	1100	EPA 200.7		12-10-21	
Chromium	ND	10	EPA 200.8		12-10-21	
Copper	ND	10	EPA 200.8		12-10-21	
Iron	ND	56	EPA 200.7		12-10-21	
Lead	ND	1.0	EPA 200.8		12-10-21	
Magnesium	16000	1100	EPA 200.7		12-10-21	
Manganese	270	11	EPA 200.7		12-10-21	
Mercury	ND	0.025	EPA 7470A		12-17-21	
Nickel	ND	20	EPA 200.8		12-10-21	
Potassium	2000	1100	EPA 200.7		12-10-21	
Selenium	ND	5.0	EPA 200.8		12-10-21	
Sodium	7000	1100	EPA 200.7		12-10-21	
Zinc	ND	25	EPA 200.8		12-10-21	
Client ID:	MW6-211209					
Laboratory ID:	12-108-03					
Arsenic	3.0	3.0	EPA 200.8		12-10-21	
Cadmium	ND	4.0	EPA 200.8		12-10-21	
Calcium	41000	1100	EPA 200.7		12-10-21	
Chromium	ND	10	EPA 200.8		12-10-21	
Copper	ND	10	EPA 200.8		12-10-21	
Iron	62	56	EPA 200.7		12-10-21	
Lead	ND	1.0	EPA 200.8		12-10-21	
Magnesium	22000	1100	EPA 200.7		12-10-21	
Manganese	1800	11	EPA 200.7		12-10-21	
Mercury	ND	0.025	EPA 7470A		12-17-21	
Nickel	ND	20	EPA 200.8		12-10-21	
Potassium	2400	1100	EPA 200.7		12-10-21	
Selenium	ND	5.0	EPA 200.8		12-10-21	
Sodium	18000	1100	EPA 200.7		12-10-21	
Zinc	ND	25	EPA 200.8		12-10-21	



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DISSOLVED METALS
EPA 200.7/200.8/7470A

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW7-211209					
Laboratory ID:	12-108-04					
Arsenic	8.5	3.0	EPA 200.8		12-10-21	
Cadmium	ND	4.0	EPA 200.8		12-10-21	
Calcium	20000	1100	EPA 200.7		12-10-21	
Chromium	ND	10	EPA 200.8		12-10-21	
Copper	ND	10	EPA 200.8		12-10-21	
Iron	ND	56	EPA 200.7		12-10-21	
Lead	ND	1.0	EPA 200.8		12-10-21	
Magnesium	14000	1100	EPA 200.7		12-10-21	
Manganese	250	11	EPA 200.7		12-10-21	
Mercury	ND	0.025	EPA 7470A		12-17-21	
Nickel	ND	20	EPA 200.8		12-10-21	
Potassium	1900	1100	EPA 200.7		12-10-21	
Selenium	ND	5.0	EPA 200.8		12-10-21	
Sodium	7600	1100	EPA 200.7		12-10-21	
Zinc	ND	25	EPA 200.8		12-10-21	



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**TOTAL DISSOLVED SOLIDS
 SM 2540C**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW2-211208					
Laboratory ID:	12-108-01					
Total Dissolved Solids	150	13	SM 2540C	12-13-21	12-14-21	
Client ID:	MW6-211209					
Laboratory ID:	12-108-03					
Total Dissolved Solids	250	13	SM 2540C	12-13-21	12-14-21	
Client ID:	MW7-211209					
Laboratory ID:	12-108-04					
Total Dissolved Solids	120	13	SM 2540C	12-13-21	12-14-21	



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**TOTAL ALKALINITY
 SM 2320B**

Matrix: Water
 Units: mg CaCO₃/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW2-211208					
Laboratory ID:	12-108-01					
Total Alkalinity	120	2.0	SM 2320B	12-10-21	12-10-21	
Client ID:	MW6-211209					
Laboratory ID:	12-108-03					
Total Alkalinity	190	2.0	SM 2320B	12-10-21	12-10-21	
Client ID:	MW7-211209					
Laboratory ID:	12-108-04					
Total Alkalinity	100	2.0	SM 2320B	12-10-21	12-10-21	



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**BICARBONATE
 SM 2320B**

Matrix: Water
 Units: mg CaCO₃/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW2-211208					
Laboratory ID:	12-108-01					
Bicarbonate Concentration	120	2.0	SM 2320B	12-10-21	12-10-21	
Client ID:	MW6-211209					
Laboratory ID:	12-108-03					
Bicarbonate Concentration	190	2.0	SM 2320B	12-10-21	12-10-21	
Client ID:	MW7-211209					
Laboratory ID:	12-108-04					
Bicarbonate Concentration	100	2.0	SM 2320B	12-10-21	12-10-21	



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**CHLORIDE
 SM 4500-Cl E**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW2-211208					
Laboratory ID:	12-108-01					
Chloride	5.7	2.0	SM 4500-Cl E	12-14-21	12-14-21	
Client ID:	MW6-211209					
Laboratory ID:	12-108-03					
Chloride	5.3	2.0	SM 4500-Cl E	12-14-21	12-14-21	
Client ID:	MW7-211209					
Laboratory ID:	12-108-04					
Chloride	9.0	2.0	SM 4500-Cl E	12-14-21	12-14-21	



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NITRATE (as Nitrogen)
EPA 353.2

Matrix: Water
 Units: mg/L-N

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW2-211208					
Laboratory ID:	12-108-01					
Nitrate	ND	0.050	EPA 353.2	12-10-21	12-10-21	
Client ID:	MW6-211209					
Laboratory ID:	12-108-03					
Nitrate	0.62	0.050	EPA 353.2	12-10-21	12-10-21	
Client ID:	MW7-211209					
Laboratory ID:	12-108-04					
Nitrate	0.22	0.050	EPA 353.2	12-10-21	12-10-21	



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 Project: 6694-002-05 T700

SULFATE
ASTM D516-11

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW2-211208					
Laboratory ID:	12-108-01					
Sulfate	12	5.0	ASTM D516-11	12-10-21	12-10-21	
Client ID:	MW6-211209					
Laboratory ID:	12-108-03					
Sulfate	26	10	ASTM D516-11	12-10-21	12-10-21	
Client ID:	MW7-211209					
Laboratory ID:	12-108-04					
Sulfate	8.5	5.0	ASTM D516-11	12-10-21	12-10-21	



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AMMONIA (as Nitrogen)
SM 4500-NH₃ D

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW2-211208					
Laboratory ID:	12-108-01					
Ammonia	0.097	0.050	SM 4500-NH3 D	12-13-21	12-13-21	
Client ID:	MW6-211209					
Laboratory ID:	12-108-03					
Ammonia	0.10	0.050	SM 4500-NH3 D	12-13-21	12-13-21	
Client ID:	MW7-211209					
Laboratory ID:	12-108-04					
Ammonia	ND	0.050	SM 4500-NH3 D	12-13-21	12-13-21	



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**GASOLINE RANGE ORGANICS
 NWTPH-Gx
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1213W1					
Gasoline	ND	100	NWTPH-Gx	12-13-21	12-13-21	
Surrogate:	Percent Recovery		Control Limits			
Fluorobenzene	90	66-117				

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	12-084-01							
	ORIG	DUP						
Gasoline	ND	ND	NA	NA	NA	NA	30	
Surrogate:								
Fluorobenzene				90	89	66-117		



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**DIESEL AND HEAVY OIL RANGE ORGANICS
 NWTPH-Dx
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1214W1					
Diesel Range Organics	ND	0.16	NWTPH-Dx	12-14-21	12-14-21	
Lube Oil Range Organics	ND	0.16	NWTPH-Dx	12-14-21	12-14-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	85	50-150				

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	12-107-04							
	ORIG	DUP						
Diesel Range	ND	ND	NA	NA	NA	NA	NA	NA
Lube Oil Range	ND	ND	NA	NA	NA	NA	NA	NA
<i>Surrogate:</i>								
<i>o-Terphenyl</i>				93	92	50-150		



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**VOLATILE ORGANICS EPA 8260D
 QUALITY CONTROL**

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Matrix: Water

Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1213W1					
Dichlorodifluoromethane	ND	0.31	EPA 8260D	12-13-21	12-13-21	
Chloromethane	ND	1.3	EPA 8260D	12-13-21	12-13-21	
Vinyl Chloride	ND	0.20	EPA 8260D	12-13-21	12-13-21	
Bromomethane	ND	0.33	EPA 8260D	12-13-21	12-13-21	
Chloroethane	ND	1.0	EPA 8260D	12-13-21	12-13-21	
Trichlorofluoromethane	ND	0.20	EPA 8260D	12-13-21	12-13-21	
1,1-Dichloroethene	ND	0.20	EPA 8260D	12-13-21	12-13-21	
Acetone	ND	5.0	EPA 8260D	12-13-21	12-13-21	
Iodomethane	ND	1.4	EPA 8260D	12-13-21	12-13-21	
Carbon Disulfide	ND	0.20	EPA 8260D	12-13-21	12-13-21	
Methylene Chloride	ND	1.0	EPA 8260D	12-13-21	12-13-21	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	12-13-21	12-13-21	
Methyl t-Butyl Ether	ND	0.20	EPA 8260D	12-13-21	12-13-21	
1,1-Dichloroethane	ND	0.20	EPA 8260D	12-13-21	12-13-21	
Vinyl Acetate	ND	1.0	EPA 8260D	12-13-21	12-13-21	
2,2-Dichloropropane	ND	0.20	EPA 8260D	12-13-21	12-13-21	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	12-13-21	12-13-21	
2-Butanone	ND	5.0	EPA 8260D	12-13-21	12-13-21	
Bromochloromethane	ND	0.20	EPA 8260D	12-13-21	12-13-21	
Chloroform	ND	0.20	EPA 8260D	12-13-21	12-13-21	
1,1,1-Trichloroethane	ND	0.20	EPA 8260D	12-13-21	12-13-21	
Carbon Tetrachloride	ND	0.20	EPA 8260D	12-13-21	12-13-21	
1,1-Dichloropropene	ND	0.20	EPA 8260D	12-13-21	12-13-21	
Benzene	ND	0.20	EPA 8260D	12-13-21	12-13-21	
1,2-Dichloroethane	ND	0.20	EPA 8260D	12-13-21	12-13-21	
Trichloroethene	ND	0.20	EPA 8260D	12-13-21	12-13-21	
1,2-Dichloropropane	ND	0.20	EPA 8260D	12-13-21	12-13-21	
Dibromomethane	ND	0.20	EPA 8260D	12-13-21	12-13-21	
Bromodichloromethane	ND	0.20	EPA 8260D	12-13-21	12-13-21	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260D	12-13-21	12-13-21	
Methyl Isobutyl Ketone	ND	2.0	EPA 8260D	12-13-21	12-13-21	
Toluene	ND	1.0	EPA 8260D	12-13-21	12-13-21	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260D	12-13-21	12-13-21	



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**VOLATILE ORGANICS EPA 8260D
 QUALITY CONTROL**

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1213W1					
1,1,2-Trichloroethane	ND	0.20	EPA 8260D	12-13-21	12-13-21	
Tetrachloroethene	ND	0.20	EPA 8260D	12-13-21	12-13-21	
1,3-Dichloropropane	ND	0.20	EPA 8260D	12-13-21	12-13-21	
2-Hexanone	ND	2.0	EPA 8260D	12-13-21	12-13-21	
Dibromochloromethane	ND	0.20	EPA 8260D	12-13-21	12-13-21	
1,2-Dibromoethane	ND	0.20	EPA 8260D	12-13-21	12-13-21	
Chlorobenzene	ND	0.20	EPA 8260D	12-13-21	12-13-21	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260D	12-13-21	12-13-21	
Ethylbenzene	ND	0.20	EPA 8260D	12-13-21	12-13-21	
m,p-Xylene	ND	0.40	EPA 8260D	12-13-21	12-13-21	
o-Xylene	ND	0.20	EPA 8260D	12-13-21	12-13-21	
Styrene	ND	0.20	EPA 8260D	12-13-21	12-13-21	
Bromoform	ND	1.0	EPA 8260D	12-13-21	12-13-21	
Isopropylbenzene	ND	0.20	EPA 8260D	12-13-21	12-13-21	
Bromobenzene	ND	0.20	EPA 8260D	12-13-21	12-13-21	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260D	12-13-21	12-13-21	
1,2,3-Trichloropropane	ND	0.20	EPA 8260D	12-13-21	12-13-21	
n-Propylbenzene	ND	0.20	EPA 8260D	12-13-21	12-13-21	
2-Chlorotoluene	ND	0.20	EPA 8260D	12-13-21	12-13-21	
4-Chlorotoluene	ND	0.20	EPA 8260D	12-13-21	12-13-21	
1,3,5-Trimethylbenzene	ND	0.20	EPA 8260D	12-13-21	12-13-21	
tert-Butylbenzene	ND	0.20	EPA 8260D	12-13-21	12-13-21	
1,2,4-Trimethylbenzene	ND	0.20	EPA 8260D	12-13-21	12-13-21	
sec-Butylbenzene	ND	0.20	EPA 8260D	12-13-21	12-13-21	
1,3-Dichlorobenzene	ND	0.20	EPA 8260D	12-13-21	12-13-21	
p-Isopropyltoluene	ND	0.20	EPA 8260D	12-13-21	12-13-21	
1,4-Dichlorobenzene	ND	0.20	EPA 8260D	12-13-21	12-13-21	
1,2-Dichlorobenzene	ND	0.20	EPA 8260D	12-13-21	12-13-21	
n-Butylbenzene	ND	0.20	EPA 8260D	12-13-21	12-13-21	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260D	12-13-21	12-13-21	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260D	12-13-21	12-13-21	
Hexachlorobutadiene	ND	1.0	EPA 8260D	12-13-21	12-13-21	
Naphthalene	ND	1.3	EPA 8260D	12-13-21	12-13-21	
1,2,3-Trichlorobenzene	ND	0.27	EPA 8260D	12-13-21	12-13-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>103</i>	<i>75-127</i>				
<i>Toluene-d8</i>	<i>101</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>99</i>	<i>78-125</i>				



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**VOLATILE ORGANICS EPA 8260D
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD	RPD	Flags
					SB	SBD	Limits	RPD	Limit	
SPIKE BLANKS										
Laboratory ID:	SB1213W1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	10.7	10.7	10.0	10.0	107	107	78-125	0	19	
Benzene	10.9	10.9	10.0	10.0	109	109	80-119	0	16	
Trichloroethene	10.9	11.1	10.0	10.0	109	111	80-121	2	18	
Toluene	10.7	10.9	10.0	10.0	107	109	80-117	2	18	
Chlorobenzene	10.1	10.1	10.0	10.0	101	101	80-117	0	17	
<i>Surrogate:</i>										
Dibromofluoromethane					97	94	75-127			
Toluene-d8					101	101	80-127			
4-Bromofluorobenzene					103	102	78-125			



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**SEMIVOLATILE ORGANICS EPA 8270E/SIM
 QUALITY CONTROL**

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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1214W1					
n-Nitrosodimethylamine	ND	1.0	EPA 8270E	12-14-21	12-17-21	
Pyridine	ND	1.0	EPA 8270E	12-14-21	12-17-21	
Phenol	ND	1.0	EPA 8270E	12-14-21	12-17-21	
Aniline	ND	5.0	EPA 8270E	12-14-21	12-17-21	
bis(2-Chloroethyl)ether	ND	1.0	EPA 8270E	12-14-21	12-17-21	
2-Chlorophenol	ND	1.0	EPA 8270E	12-14-21	12-17-21	
1,3-Dichlorobenzene	ND	1.0	EPA 8270E	12-14-21	12-17-21	
1,4-Dichlorobenzene	ND	1.0	EPA 8270E	12-14-21	12-17-21	
Benzyl alcohol	ND	1.0	EPA 8270E	12-14-21	12-17-21	
1,2-Dichlorobenzene	ND	1.0	EPA 8270E	12-14-21	12-17-21	
2-Methylphenol (o-Cresol)	ND	1.0	EPA 8270E	12-14-21	12-17-21	
bis(2-Chloroisopropyl)ether	ND	1.0	EPA 8270E	12-14-21	12-17-21	
(3+4)-Methylphenol (m,p-Cresol)	ND	1.0	EPA 8270E	12-14-21	12-17-21	
n-Nitroso-di-n-propylamine	ND	1.0	EPA 8270E	12-14-21	12-17-21	
Hexachloroethane	ND	1.0	EPA 8270E	12-14-21	12-17-21	
Nitrobenzene	ND	1.0	EPA 8270E	12-14-21	12-17-21	
Isophorone	ND	1.0	EPA 8270E	12-14-21	12-17-21	
2-Nitrophenol	ND	1.0	EPA 8270E	12-14-21	12-17-21	
2,4-Dimethylphenol	ND	1.0	EPA 8270E	12-14-21	12-17-21	
bis(2-Chloroethoxy)methane	ND	1.0	EPA 8270E	12-14-21	12-17-21	
2,4-Dichlorophenol	ND	1.0	EPA 8270E	12-14-21	12-17-21	
1,2,4-Trichlorobenzene	ND	1.0	EPA 8270E	12-14-21	12-17-21	
Naphthalene	ND	0.10	EPA 8270E/SIM	12-14-21	12-14-21	
4-Chloroaniline	ND	1.0	EPA 8270E	12-14-21	12-17-21	
Hexachlorobutadiene	ND	1.0	EPA 8270E	12-14-21	12-17-21	
4-Chloro-3-methylphenol	ND	1.0	EPA 8270E	12-14-21	12-17-21	
2-Methylnaphthalene	ND	0.10	EPA 8270E/SIM	12-14-21	12-14-21	
1-Methylnaphthalene	ND	0.10	EPA 8270E/SIM	12-14-21	12-14-21	
Hexachlorocyclopentadiene	ND	1.0	EPA 8270E	12-14-21	12-17-21	
2,4,6-Trichlorophenol	ND	1.0	EPA 8270E	12-14-21	12-17-21	
2,3-Dichloroaniline	ND	1.0	EPA 8270E	12-14-21	12-17-21	
2,4,5-Trichlorophenol	ND	1.0	EPA 8270E	12-14-21	12-17-21	
2-Chloronaphthalene	ND	1.0	EPA 8270E	12-14-21	12-17-21	
2-Nitroaniline	ND	1.0	EPA 8270E	12-14-21	12-17-21	
1,4-Dinitrobenzene	ND	1.0	EPA 8270E	12-14-21	12-17-21	
Dimethylphthalate	ND	5.0	EPA 8270E	12-14-21	12-17-21	
1,3-Dinitrobenzene	ND	1.0	EPA 8270E	12-14-21	12-17-21	
2,6-Dinitrotoluene	ND	1.0	EPA 8270E	12-14-21	12-17-21	
1,2-Dinitrobenzene	ND	1.0	EPA 8270E	12-14-21	12-17-21	
Acenaphthylene	ND	0.22	EPA 8270E/SIM	12-14-21	12-14-21	
3-Nitroaniline	ND	1.0	EPA 8270E	12-14-21	12-17-21	



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**SEMIVOLATILE ORGANICS EPA 8270E/SIM
 QUALITY CONTROL**

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1214W1					
2,4-Dinitrophenol	ND	5.0	EPA 8270E	12-14-21	12-17-21	
Acenaphthene	ND	0.10	EPA 8270E/SIM	12-14-21	12-14-21	
4-Nitrophenol	ND	5.0	EPA 8270E	12-14-21	12-17-21	
2,4-Dinitrotoluene	ND	1.0	EPA 8270E	12-14-21	12-17-21	
Dibenzofuran	ND	1.0	EPA 8270E	12-14-21	12-17-21	
2,3,5,6-Tetrachlorophenol	ND	1.2	EPA 8270E	12-14-21	12-17-21	
2,3,4,6-Tetrachlorophenol	ND	1.0	EPA 8270E	12-14-21	12-17-21	
Diethylphthalate	ND	1.0	EPA 8270E	12-14-21	12-17-21	
4-Chlorophenyl-phenylether	ND	1.0	EPA 8270E	12-14-21	12-17-21	
4-Nitroaniline	ND	1.0	EPA 8270E	12-14-21	12-17-21	
Fluorene	ND	0.10	EPA 8270E/SIM	12-14-21	12-14-21	
4,6-Dinitro-2-methylphenol	ND	5.0	EPA 8270E	12-14-21	12-17-21	
n-Nitrosodiphenylamine	ND	1.0	EPA 8270E	12-14-21	12-17-21	
1,2-Diphenylhydrazine	ND	1.0	EPA 8270E	12-14-21	12-17-21	
4-Bromophenyl-phenylether	ND	1.0	EPA 8270E	12-14-21	12-17-21	
Hexachlorobenzene	ND	1.0	EPA 8270E	12-14-21	12-17-21	
Pentachlorophenol	ND	5.0	EPA 8270E	12-14-21	12-17-21	
Phenanthrene	ND	0.10	EPA 8270E/SIM	12-14-21	12-14-21	
Anthracene	ND	0.10	EPA 8270E/SIM	12-14-21	12-14-21	
Carbazole	ND	1.0	EPA 8270E	12-14-21	12-17-21	
Di-n-butylphthalate	ND	5.0	EPA 8270E	12-14-21	12-17-21	
Fluoranthene	ND	0.10	EPA 8270E/SIM	12-14-21	12-14-21	
Pyrene	ND	0.10	EPA 8270E/SIM	12-14-21	12-14-21	
Butylbenzylphthalate	ND	1.0	EPA 8270E	12-14-21	12-17-21	
bis-2-Ethylhexyladipate	ND	5.0	EPA 8270E	12-14-21	12-17-21	
3,3'-Dichlorobenzidine	ND	1.0	EPA 8270E	12-14-21	12-17-21	
Benzo[a]anthracene	ND	0.010	EPA 8270E/SIM	12-14-21	12-14-21	
Chrysene	ND	0.010	EPA 8270E/SIM	12-14-21	12-14-21	
bis(2-Ethylhexyl)phthalate	ND	5.0	EPA 8270E	12-14-21	12-17-21	
Di-n-octylphthalate	ND	1.0	EPA 8270E	12-14-21	12-17-21	
Benzo[b]fluoranthene	ND	0.010	EPA 8270E/SIM	12-14-21	12-14-21	
Benzo(j,k)fluoranthene	ND	0.010	EPA 8270E/SIM	12-14-21	12-14-21	
Benzo[a]pyrene	ND	0.010	EPA 8270E/SIM	12-14-21	12-14-21	
Indeno[1,2,3-cd]pyrene	ND	0.010	EPA 8270E/SIM	12-14-21	12-14-21	
Dibenz[a,h]anthracene	ND	0.010	EPA 8270E/SIM	12-14-21	12-14-21	
Benzo[g,h,i]perylene	ND	0.010	EPA 8270E/SIM	12-14-21	12-14-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
2-Fluorophenol	39	10 - 82				
Phenol-d6	30	10 - 92				
Nitrobenzene-d5	59	32 - 105				
2-Fluorobiphenyl	67	38 - 105				
2,4,6-Tribromophenol	88	25 - 124				
Terphenyl-d14	72	42 - 116				



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**SEMIVOLATILE ORGANICS EPA 8270E/SIM
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB1214W1									
	SB	SBD	SB	SBD	SB	SBD				
Phenol	15.8	13.4	40.0	40.0	40	34	21 - 53	16	26	
2-Chlorophenol	30.7	27.4	40.0	40.0	77	69	38 - 92	11	28	
1,4-Dichlorobenzene	13.4	11.7	20.0	20.0	67	59	30 - 88	14	32	
n-Nitroso-di-n-propylamine	15.7	14.2	20.0	20.0	79	71	40 - 103	10	27	
1,2,4-Trichlorobenzene	14.5	12.8	20.0	20.0	73	64	37 - 95	12	29	
4-Chloro-3-methylphenol	33.6	29.6	40.0	40.0	84	74	50 - 101	13	17	
Acenaphthene	16.7	14.7	20.0	20.0	84	74	46 - 97	13	19	
4-Nitrophenol	25.0	21.7	40.0	40.0	63	54	23 - 64	14	34	
2,4-Dinitrotoluene	17.6	15.3	20.0	20.0	88	77	46 - 100	14	17	
Pentachlorophenol	39.8	32.9	40.0	40.0	100	82	39 - 123	19	29	
Pyrene	17.0	15.8	20.0	20.0	85	79	52 - 107	7	19	
<i>Surrogate:</i>										
2-Fluorophenol					46	40	10 - 82			
Phenol-d6					36	30	10 - 92			
Nitrobenzene-d5					63	56	32 - 105			
2-Fluorobiphenyl					70	64	38 - 105			
2,4,6-Tribromophenol					92	82	25 - 124			
Terphenyl-d14					71	67	42 - 116			



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**PCBs EPA 8082A
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1213W1					
Aroclor 1016	ND	0.050	EPA 8082A	12-13-21	12-13-21	
Aroclor 1221	ND	0.050	EPA 8082A	12-13-21	12-13-21	
Aroclor 1232	ND	0.050	EPA 8082A	12-13-21	12-13-21	
Aroclor 1242	ND	0.050	EPA 8082A	12-13-21	12-13-21	
Aroclor 1248	ND	0.050	EPA 8082A	12-13-21	12-13-21	
Aroclor 1254	ND	0.050	EPA 8082A	12-13-21	12-13-21	
Aroclor 1260	ND	0.050	EPA 8082A	12-13-21	12-13-21	
Surrogate:	Percent Recovery	Control Limits				
DCB	90	42-140				

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS											
Laboratory ID:	SB1213W1										
	SB	SBD	SB	SBD		SB	SBD				
Aroclor 1260	0.451	0.485	0.500	0.500	N/A	90	97	73-131	7	12	
Surrogate:											
DCB						90	91	42-140			



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**ORGANOCHLORINE
 PESTICIDES EPA 8081B
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1213W1					
alpha-BHC	ND	0.0050	EPA 8081B	12-13-21	12-13-21	
gamma-BHC (Lindane)	ND	0.0050	EPA 8081B	12-13-21	12-13-21	
beta-BHC	ND	0.0050	EPA 8081B	12-13-21	12-13-21	
delta-BHC	ND	0.0050	EPA 8081B	12-13-21	12-13-21	
Heptachlor	ND	0.0050	EPA 8081B	12-13-21	12-13-21	
Aldrin	ND	0.0020	EPA 8081B	12-13-21	12-13-21	
Heptachlor Epoxide	ND	0.0030	EPA 8081B	12-13-21	12-13-21	
gamma-Chlordane	ND	0.0050	EPA 8081B	12-13-21	12-13-21	
alpha-Chlordane	ND	0.0050	EPA 8081B	12-13-21	12-13-21	
4,4'-DDE	ND	0.0050	EPA 8081B	12-13-21	12-13-21	
Endosulfan I	ND	0.0050	EPA 8081B	12-13-21	12-13-21	
Dieldrin	ND	0.0050	EPA 8081B	12-13-21	12-13-21	
Endrin	ND	0.0050	EPA 8081B	12-13-21	12-13-21	
4,4'-DDD	ND	0.0050	EPA 8081B	12-13-21	12-13-21	
Endosulfan II	ND	0.0050	EPA 8081B	12-13-21	12-13-21	
4,4'-DDT	ND	0.0050	EPA 8081B	12-13-21	12-13-21	
Endrin Aldehyde	ND	0.0050	EPA 8081B	12-13-21	12-13-21	
Methoxychlor	ND	0.010	EPA 8081B	12-13-21	12-13-21	
Endosulfan Sulfate	ND	0.0050	EPA 8081B	12-13-21	12-13-21	
Endrin Ketone	ND	0.020	EPA 8081B	12-13-21	12-13-21	
Toxaphene	ND	0.050	EPA 8081B	12-13-21	12-13-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
TCMX	48	25-114				
DCB	74	30-137				



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**ORGANOCHLORINE
 PESTICIDES EPA 8081B
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS											
Laboratory ID:	SB1213W2										
	SB	SBD	SB	SBD		SB	SBD				
alpha-BHC	0.0790	0.0764	0.100	0.100	N/A	79	76	42-113	3	19	
gamma-BHC (Lindane)	0.0790	0.0774	0.100	0.100	N/A	79	77	45-114	2	15	
beta-BHC	0.0771	0.0746	0.100	0.100	N/A	77	75	40-118	3	15	
delta-BHC	0.0652	0.0634	0.100	0.100	N/A	65	63	20-125	3	15	
Heptachlor	0.0690	0.0659	0.100	0.100	N/A	69	66	41-120	5	16	
Aldrin	0.0630	0.0597	0.100	0.100	N/A	63	60	35-115	5	15	
Heptachlor Epoxide	0.0820	0.0805	0.100	0.100	N/A	82	80	50-118	2	15	
gamma-Chlordane	0.0754	0.0730	0.100	0.100	N/A	75	73	46-110	3	15	
alpha-Chlordane	0.0769	0.0742	0.100	0.100	N/A	77	74	38-112	4	15	
4,4'-DDE	0.0772	0.0773	0.100	0.100	N/A	77	77	41-127	0	15	
Endosulfan I	0.0858	0.0846	0.100	0.100	N/A	86	85	45-119	1	15	
Dieldrin	0.0900	0.0867	0.100	0.100	N/A	90	87	46-115	4	15	
Endrin	0.0877	0.0847	0.100	0.100	N/A	88	85	52-124	3	15	
4,4'-DDD	0.0884	0.0884	0.100	0.100	N/A	88	88	52-121	0	15	
Endosulfan II	0.0853	0.0847	0.100	0.100	N/A	85	85	44-114	1	15	
4,4'-DDT	0.0975	0.0987	0.100	0.100	N/A	98	99	48-123	1	15	
Endrin Aldehyde	0.108	0.106	0.100	0.100	N/A	108	106	45-114	2	15	
Methoxychlor	0.101	0.102	0.100	0.100	N/A	101	102	49-130	1	15	
Endosulfan Sulfate	0.0879	0.0868	0.100	0.100	N/A	88	87	39-117	1	15	
Endrin Ketone	0.0903	0.0881	0.100	0.100	N/A	90	88	53-119	2	15	
Surrogate:											
TCMX						52	49	25-114			
DCB						66	61	30-137			



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TOTAL METALS
EPA 200.7/200.8/7470A
QUALITY CONTROL

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1216WH1					
Iron	ND	56	EPA 200.7	12-16-21	12-16-21	
Magnesium	ND	1100	EPA 200.7	12-16-21	12-16-21	
Manganese	ND	11	EPA 200.7	12-16-21	12-16-21	
Laboratory ID:	MB1213WM1					
Arsenic	ND	3.3	EPA 200.8	12-13-21	12-13-21	
Cadmium	ND	4.4	EPA 200.8	12-13-21	12-13-21	
Chromium	ND	11	EPA 200.8	12-13-21	12-13-21	
Copper	ND	11	EPA 200.8	12-13-21	12-13-21	
Lead	ND	1.1	EPA 200.8	12-13-21	12-13-21	
Nickel	ND	22	EPA 200.8	12-13-21	12-13-21	
Selenium	ND	5.6	EPA 200.8	12-13-21	12-13-21	
Zinc	ND	28	EPA 200.8	12-13-21	12-13-21	
Laboratory ID:	MB1215W2					
Mercury	ND	0.025	EPA 7470A	12-15-21	12-15-21	



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TOTAL METALS
EPA 200.7/200.8/7470A
QUALITY CONTROL

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result		Spike Level		Source	Percent	Recovery	RPD		Flags
					Result	Recovery	Limits	RPD	Limit	
DUPLICATE										
Laboratory ID: 12-131-01										
	ORIG	DUP								
Iron	1280	1310	NA	NA		NA	NA	3	20	
Magnesium	50000	47300	NA	NA		NA	NA	6	20	
Manganese	2100	2020	NA	NA		NA	NA	4	20	
Laboratory ID: 12-089-01										
Arsenic	ND	ND	NA	NA		NA	NA	NA	20	
Cadmium	ND	ND	NA	NA		NA	NA	NA	20	
Chromium	ND	ND	NA	NA		NA	NA	NA	20	
Copper	ND	ND	NA	NA		NA	NA	NA	20	
Lead	ND	ND	NA	NA		NA	NA	NA	20	
Nickel	ND	ND	NA	NA		NA	NA	NA	20	
Selenium	ND	ND	NA	NA		NA	NA	NA	20	
Zinc	ND	ND	NA	NA		NA	NA	NA	20	
Laboratory ID: 12-108-01										
Mercury	ND	ND	NA	NA		NA	NA	NA	20	
MATRIX SPIKES										
Laboratory ID: 12-131-01										
	MS	MSD	MS	MSD		MS	MSD			
Iron	25000	24900	22200	22200	1310	107	106	75-125	0	20
Magnesium	76700	75600	22200	22200	50000	120	115	75-125	1	20
Manganese	2590	2660	556	556	2020	102	114	75-125	3	20
Laboratory ID: 12-089-01										
Arsenic	128	132	111	111	ND	116	119	75-125	3	20
Cadmium	124	130	111	111	ND	112	117	75-125	5	20
Chromium	118	124	111	111	ND	107	112	75-125	5	20
Copper	112	117	111	111	ND	101	105	75-125	4	20
Lead	116	120	111	111	ND	104	108	75-125	4	20
Nickel	115	121	111	111	ND	104	109	75-125	5	20
Selenium	126	133	111	111	ND	114	120	75-125	5	20
Zinc	116	122	111	111	ND	105	110	75-125	5	20
Laboratory ID: 12-108-01										
Mercury	5.60	5.58	6.25	6.25	ND	90	89	75-125	0	20



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**DISSOLVED METALS
 EPA 200.7/200.8/7470A
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1210D1					
Calcium	ND	1100	EPA 200.7		12-10-21	
Iron	ND	56	EPA 200.7		12-10-21	
Magnesium	ND	1100	EPA 200.7		12-10-21	
Manganese	ND	11	EPA 200.7		12-10-21	
Potassium	ND	1100	EPA 200.7		12-10-21	
Sodium	ND	1100	EPA 200.7		12-10-21	
Laboratory ID:	MB1209F1					
Arsenic	ND	3.0	EPA 200.8	12-9-21	12-10-21	
Cadmium	ND	4.0	EPA 200.8	12-9-21	12-10-21	
Chromium	ND	10	EPA 200.8	12-9-21	12-10-21	
Copper	ND	10	EPA 200.8	12-9-21	12-10-21	
Lead	ND	1.0	EPA 200.8	12-9-21	12-10-21	
Nickel	ND	20	EPA 200.8	12-9-21	12-10-21	
Selenium	ND	5.0	EPA 200.8	12-9-21	12-10-21	
Zinc	ND	25	EPA 200.8	12-9-21	12-10-21	
Laboratory ID:	MB1217D1					
Mercury	ND	0.025	EPA 7470A		12-17-21	



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**DISSOLVED METALS
 EPA 200.7/200.8/7470A
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result		Spike Level		Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE										
Laboratory ID:	12-104-01									
	ORIG	DUP								
Calcium	4460	4440	NA	NA		NA	NA	0	20	
Iron	ND	ND	NA	NA		NA	NA	NA	20	
Magnesium	2740	2720	NA	NA		NA	NA	1	20	
Manganese	ND	ND	NA	NA		NA	NA	NA	20	
Potassium	ND	ND	NA	NA		NA	NA	NA	20	
Sodium	2780	2120	NA	NA		NA	NA	27	20	C
Laboratory ID:	12-104-01									
Arsenic	ND	ND	NA	NA		NA	NA	NA	20	
Cadmium	ND	ND	NA	NA		NA	NA	NA	20	
Chromium	ND	ND	NA	NA		NA	NA	NA	20	
Copper	13.9	15.6	NA	NA		NA	NA	11	20	
Lead	ND	ND	NA	NA		NA	NA	NA	20	
Nickel	ND	ND	NA	NA		NA	NA	NA	20	
Selenium	ND	ND	NA	NA		NA	NA	NA	20	
Zinc	ND	ND	NA	NA		NA	NA	NA	20	
Laboratory ID:	12-108-01									
Mercury	ND	ND	NA	NA		NA	NA	NA	20	
MATRIX SPIKES										
Laboratory ID:	12-104-01									
	MS	MSD	MS	MSD		MS	MSD			
Calcium	27800	27600	22200	22200	4460	105	104	75-125	0	20
Iron	25100	25100	22200	22200	ND	113	113	75-125	0	20
Magnesium	27800	27900	22200	22200	2740	113	113	75-125	0	20
Manganese	583	581	556	556	ND	105	104	75-125	0	20
Potassium	23300	23200	22200	22200	ND	105	105	75-125	0	20
Sodium	28400	28000	22200	22200	2780	116	114	75-125	2	20
Laboratory ID:	12-104-01									
Arsenic	83.8	76.2	80.0	80.0	ND	105	95	75-125	9	20
Cadmium	79.2	78.0	80.0	80.0	ND	99	98	75-125	2	20
Chromium	77.4	73.6	80.0	80.0	ND	97	92	75-125	5	20
Copper	91.0	87.8	80.0	80.0	13.9	96	92	75-125	4	20
Lead	76.6	76.0	80.0	80.0	ND	96	95	75-125	1	20
Nickel	75.6	72.4	80.0	80.0	ND	95	91	75-125	4	20
Selenium	76.2	75.4	80.0	80.0	ND	95	94	75-125	1	20
Zinc	94.6	91.0	80.0	80.0	14.1	101	96	75-125	4	20
Laboratory ID:	12-108-01									
Mercury	5.78	5.75	6.25	6.25	ND	92	92	75-125	0	20



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**TOTAL DISSOLVED SOLIDS
 SM 2540C
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1213W1					
Total Dissolved Solids	ND	13	SM 2540C	12-13-21	12-14-21	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	12-085-01							
	ORIG	DUP						
Total Dissolved Solids	159	153	NA	NA	NA	4	29	

SPIKE BLANK								
Laboratory ID:	SB1213W1							
	SB	SB		SB				
Total Dissolved Solids	477	500	NA	95	84-110	NA	NA	



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**TOTAL ALKALINITY
 SM 2320B
 QUALITY CONTROL**

Matrix: Water
 Units: mg CaCO₃/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1210W1					
Total Alkalinity	ND	2.0	SM 2320B	12-10-21	12-10-21	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	12-075-01							
	ORIG	DUP						
Total Alkalinity	108	108	NA	NA	NA	0	10	

SPIKE BLANK								
Laboratory ID:	SB1210W1							
	SB	SB		SB				
Total Alkalinity	94.0	100	NA	94	89-110	NA	NA	



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**BICARBONATE
 SM 2320B
 QUALITY CONTROL**

Matrix: Water
 Units: mg CaCO₃/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1210W1					
Bicarbonate Concentration	ND	2.0	SM 2320B	12-10-21	12-10-21	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	12-075-01							
	ORIG	DUP						
Total Alkalinity	108	108	NA	NA	NA	0	10	

SPIKE BLANK								
Laboratory ID:	SB1210W1							
	SB	SB		SB				
Total Alkalinity	94.0	100	NA	94	89-110	NA	NA	



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**CHLORIDE
 SM 4500-Cl E
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1214W1					
Chloride	ND	2.0	SM 4500-Cl E	12-14-21	12-14-21	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	12-086-01							
	ORIG	DUP						
Chloride	4.05	4.11	NA	NA	NA	1	15	

MATRIX SPIKE								
Laboratory ID:	12-086-01							
	MS	MS		MS				
Chloride	58.8	50.0	4.05	110	86-115	NA	NA	

SPIKE BLANK								
Laboratory ID:	SB1214W1							
	SB	SB		SB				
Chloride	55.9	50.0	NA	112	86-115	NA	NA	



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**NITRATE (as Nitrogen)
 EPA 353.2
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L-N

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1210W1					
Nitrate	ND	0.050	EPA 353.2	12-10-21	12-10-21	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	12-086-01							
	ORIG	DUP						
Nitrate	0.460	0.450	NA	NA	NA	2	16	

MATRIX SPIKE								
Laboratory ID:	12-086-01							
	MS	MS		MS				
Nitrate	2.92	2.00	0.460	123	92-125	NA	NA	

SPIKE BLANK								
Laboratory ID:	SB1210W1							
	SB	SB		SB				
Nitrate	2.15	2.00	NA	108	90-121	NA	NA	



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**SULFATE
 ASTM D516-11
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1210W1					
Sulfate	ND	5.0	ASTM D516-11	12-10-21	12-10-21	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	12-075-01							
	ORIG	DUP						
Sulfate	13.9	13.9	NA	NA	NA	0	10	

MATRIX SPIKE								
Laboratory ID:	12-075-01							
	MS	MS		MS				
Sulfate	22.5	10.0	13.9	86	69-139	NA	NA	

SPIKE BLANK								
Laboratory ID:	SB1210W1							
	SB	SB		SB				
Sulfate	10.0	10.0	NA	100	89-117	NA	NA	



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**AMMONIA (as Nitrogen)
 SM 4500-NH₃ D
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1213W1					
Ammonia	ND	0.050	SM 4500-NH3 D	12-13-21	12-13-21	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	12-086-01							
	ORIG	DUP						
Ammonia	ND	ND	NA	NA	NA	NA	19	

MATRIX SPIKE								
Laboratory ID:	12-086-01							
	MS	MS		MS				
Ammonia	4.82	5.00	ND	96	80-113	NA	NA	

SPIKE BLANK								
Laboratory ID:	SB1213W1							
	SB	SB		SB				
Ammonia	4.99	5.00	NA	100	88-110	NA	NA	





Data Qualifiers and Abbreviations

- A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.
- B - The analyte indicated was also found in the blank sample.
- C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.
- E - The value reported exceeds the quantitation range and is an estimate.
- F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.
- H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.
- I - Compound recovery is outside of the control limits.
- J - The value reported was below the practical quantitation limit. The value is an estimate.
- K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.
- L - The RPD is outside of the control limits.
- M - Hydrocarbons in the gasoline range are impacting the diesel range result.
- M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.
- N - Hydrocarbons in the lube oil range are impacting the diesel range result.
- N1 - Hydrocarbons in diesel range are impacting lube oil range results.
- O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.
- P - The RPD of the detected concentrations between the two columns is greater than 40.
- Q - Surrogate recovery is outside of the control limits.
- S - Surrogate recovery data is not available due to the necessary dilution of the sample.
- T - The sample chromatogram is not similar to a typical _____.
- U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
- U1 - The practical quantitation limit is elevated due to interferences present in the sample.
- V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.
- W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.
- X - Sample extract treated with a mercury cleanup procedure.
- X1 - Sample extract treated with a sulfuric acid/silica gel cleanup procedure.
- Y - The calibration verification for this analyte exceeded the 20% drift specified in methods 8260 & 8270, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.

Z -

ND - Not Detected at PQL
 PQL - Practical Quantitation Limit
 RPD - Relative Percent Difference





OnSite Environmental Inc

David Baumeister
14648 NE 95th Street
Redmond, WA 98052

RE: 12-108

Work Order Number: 2112185

December 22, 2021

Attention David Baumeister:

Fremont Analytical, Inc. received 3 sample(s) on 12/10/2021 for the analyses presented in the following report.

Herbicides by EPA Method 8151A (GC/MS)

This report consists of the following:

- Case Narrative
- Analytical Results
- Applicable Quality Control Summary Reports
- Chain of Custody

All analyses were performed consistent with the Quality Assurance program of Fremont Analytical, Inc. Please contact the laboratory if you should have any questions about the results.

Thank you for using Fremont Analytical.

Sincerely,

Brianna Barnes
Project Manager



CLIENT: OnSite Environmental Inc
Project: 12-108
Work Order: 2112185

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received
2112185-001	MW2-211208	12/08/2021 3:00 PM	12/10/2021 3:19 PM
2112185-002	MW6-211209	12/09/2021 12:10 PM	12/10/2021 3:19 PM
2112185-003	MW7-211209	12/09/2021 3:00 PM	12/10/2021 3:19 PM

DRAFT

Note: If no "Time Collected" is supplied, a default of 12:00AM is assigned

CLIENT: OnSite Environmental Inc

Project: 12-108

I. SAMPLE RECEIPT:

Samples receipt information is recorded on the attached Sample Receipt Checklist.

II. GENERAL REPORTING COMMENTS:

Results are reported on a wet weight basis unless dry-weight correction is denoted in the units field on the analytical report ("mg/kg-dry" or "ug/kg-dry").

Matrix Spike (MS) and MS Duplicate (MSD) samples are tested from an analytical batch of "like" matrix to check for possible matrix effect. The MS and MSD will provide site specific matrix data only for those samples which are spiked by the laboratory. The sample chosen for spike purposes may or may not have been a sample submitted in this sample delivery group. The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The LCS and the MB are processed with the samples and the MS/MSD to ensure method criteria are achieved throughout the entire analytical process.

III. ANALYSES AND EXCEPTIONS:

Exceptions associated with this report will be footnoted in the analytical results page(s) or the quality control summary page(s) and/or noted below.

DRAFT

Qualifiers:

- * - Flagged value is not within established control limits
- B - Analyte detected in the associated Method Blank
- D - Dilution was required
- E - Value above quantitation range
- H - Holding times for preparation or analysis exceeded
- I - Analyte with an internal standard that does not meet established acceptance criteria
- J - Analyte detected below Reporting Limit
- N - Tentatively Identified Compound (TIC)
- Q - Analyte with an initial or continuing calibration that does not meet established acceptance criteria
- S - Spike recovery outside accepted recovery limits
- ND - Not detected at the Reporting Limit
- R - High relative percent difference observed

Acronyms:

- %Rec - Percent Recovery
- CCB - Continued Calibration Blank
- CCV - Continued Calibration Verification
- DF - Dilution Factor
- DUP - Sample Duplicate
- HEM - Hexane Extractable Material
- ICV - Initial Calibration Verification
- LCS/LCSD - Laboratory Control Sample / Laboratory Control Sample Duplicate
- MCL - Maximum Contaminant Level
- MB or MBLANK - Method Blank
- MDL - Method Detection Limit
- MS/MSD - Matrix Spike / Matrix Spike Duplicate
- PDS - Post Digestion Spike
- Ref Val - Reference Value
- REP - Sample Replicate
- RL - Reporting Limit
- RPD - Relative Percent Difference
- SD - Serial Dilution
- SGT - Silica Gel Treatment
- SPK - Spike
- Surr - Surrogate



Client: OnSite Environmental Inc

Collection Date: 12/8/2021 3:00:00 PM

Project: 12-108

Lab ID: 2112185-001

Matrix: Water

Client Sample ID: MW2-211208

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Herbicides by EPA Method 8151A (GC/MS)

Batch ID: 34715

Analyst: SB

Dicamba	ND	0.983		µg/L	1	12/17/2021 2:18:27 PM
2,4-D	ND	0.983		µg/L	1	12/17/2021 2:18:27 PM
2,4-DP	ND	0.983		µg/L	1	12/17/2021 2:18:27 PM
2,4,5-TP (Silvex)	ND	0.983		µg/L	1	12/17/2021 2:18:27 PM
2,4,5-T	ND	0.983		µg/L	1	12/17/2021 2:18:27 PM
Dinoseb	ND	0.983		µg/L	1	12/17/2021 2:18:27 PM
Dalapon	ND	1.97		µg/L	1	12/17/2021 2:18:27 PM
2,4-DB	ND	0.983		µg/L	1	12/17/2021 2:18:27 PM
MCP	ND	4.92		µg/L	1	12/17/2021 2:18:27 PM
MCPA	ND	4.92		µg/L	1	12/17/2021 2:18:27 PM
Picloram	ND	0.983		µg/L	1	12/17/2021 2:18:27 PM
Bentazon	ND	0.983		µg/L	1	12/17/2021 2:18:27 PM
Chloramben	ND	0.983		µg/L	1	12/17/2021 2:18:27 PM
Acifluorfen	ND	4.92		µg/L	1	12/17/2021 2:18:27 PM
3,5-Dichlorobenzoic acid	ND	0.983		µg/L	1	12/17/2021 2:18:27 PM
4-Nitrophenol	ND	0.983		µg/L	1	12/17/2021 2:18:27 PM
Dacthal (DCPA)	ND	1.97		µg/L	1	12/17/2021 2:18:27 PM
Surr: 2,4-Dichlorophenylacetic acid	113	62.3 - 134		%Rec	1	12/17/2021 2:18:27 PM



Client: OnSite Environmental Inc

Collection Date: 12/9/2021 12:10:00 PM

Project: 12-108

Lab ID: 2112185-002

Matrix: Water

Client Sample ID: MW6-211209

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Herbicides by EPA Method 8151A (GC/MS)

Batch ID: 34715

Analyst: SB

Dicamba	ND	0.997		µg/L	1	12/17/2021 2:39:03 PM
2,4-D	ND	0.997		µg/L	1	12/17/2021 2:39:03 PM
2,4-DP	ND	0.997		µg/L	1	12/17/2021 2:39:03 PM
2,4,5-TP (Silvex)	ND	0.997		µg/L	1	12/17/2021 2:39:03 PM
2,4,5-T	ND	0.997		µg/L	1	12/17/2021 2:39:03 PM
Dinoseb	ND	0.997		µg/L	1	12/17/2021 2:39:03 PM
Dalapon	ND	1.99		µg/L	1	12/17/2021 2:39:03 PM
2,4-DB	ND	0.997		µg/L	1	12/17/2021 2:39:03 PM
MCP	ND	4.99		µg/L	1	12/17/2021 2:39:03 PM
MCPA	ND	4.99		µg/L	1	12/17/2021 2:39:03 PM
Picloram	ND	0.997		µg/L	1	12/17/2021 2:39:03 PM
Bentazon	ND	0.997		µg/L	1	12/17/2021 2:39:03 PM
Chloramben	ND	0.997		µg/L	1	12/17/2021 2:39:03 PM
Acifluorfen	ND	4.99		µg/L	1	12/17/2021 2:39:03 PM
3,5-Dichlorobenzoic acid	ND	0.997		µg/L	1	12/17/2021 2:39:03 PM
4-Nitrophenol	ND	0.997		µg/L	1	12/17/2021 2:39:03 PM
Dacthal (DCPA)	ND	1.99		µg/L	1	12/17/2021 2:39:03 PM
Surr: 2,4-Dichlorophenylacetic acid	119	62.3 - 134		%Rec	1	12/17/2021 2:39:03 PM



Client: OnSite Environmental Inc

Collection Date: 12/9/2021 3:00:00 PM

Project: 12-108

Lab ID: 2112185-003

Matrix: Water

Client Sample ID: MW7-211209

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Herbicides by EPA Method 8151A (GC/MS)

Batch ID: 34715

Analyst: SB

Dicamba	ND	0.988		µg/L	1	12/17/2021 4:00:35 PM
2,4-D	ND	0.988		µg/L	1	12/17/2021 4:00:35 PM
2,4-DP	ND	0.988		µg/L	1	12/17/2021 4:00:35 PM
2,4,5-TP (Silvex)	ND	0.988		µg/L	1	12/17/2021 4:00:35 PM
2,4,5-T	ND	0.988		µg/L	1	12/17/2021 4:00:35 PM
Dinoseb	ND	0.988		µg/L	1	12/17/2021 4:00:35 PM
Dalapon	ND	1.98		µg/L	1	12/17/2021 4:00:35 PM
2,4-DB	ND	0.988		µg/L	1	12/17/2021 4:00:35 PM
MCPP	ND	4.94		µg/L	1	12/17/2021 4:00:35 PM
MCPA	ND	4.94		µg/L	1	12/17/2021 4:00:35 PM
Picloram	ND	0.988		µg/L	1	12/17/2021 4:00:35 PM
Bentazon	ND	0.988		µg/L	1	12/17/2021 4:00:35 PM
Chloramben	ND	0.988		µg/L	1	12/17/2021 4:00:35 PM
Acifluorfen	ND	4.94		µg/L	1	12/17/2021 4:00:35 PM
3,5-Dichlorobenzoic acid	ND	0.988		µg/L	1	12/17/2021 4:00:35 PM
4-Nitrophenol	ND	0.988		µg/L	1	12/17/2021 4:00:35 PM
Dacthal (DCPA)	ND	1.98		µg/L	1	12/17/2021 4:00:35 PM
Surr: 2,4-Dichlorophenylacetic acid	109	62.3 - 134		%Rec	1	12/17/2021 4:00:35 PM

Work Order: 2112185
 CLIENT: OnSite Environmental Inc
 Project: 12-108

QC SUMMARY REPORT
Herbicides by EPA Method 8151A (GC/MS)

Sample ID: MB-34715	SampType: MBLK	Units: µg/L	Prep Date: 12/10/2021	RunNo: 72079							
Client ID: MBLKW	Batch ID: 34715		Analysis Date: 12/17/2021	SeqNo: 1470518							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Dicamba	ND	0.988									
2,4-D	ND	0.988									
2,4-DP	ND	0.988									
2,4,5-TP (Silvex)	ND	0.988									
2,4,5-T	ND	0.988									
Dinoseb	ND	0.988									
Dalapon	ND	1.98									
2,4-DB	ND	0.988									
MCPD	ND	4.94									
MCPA	ND	4.94									
Picloram	ND	0.988									
Bentazon	ND	0.988									
Chloramben	ND	0.988									
Acifluorfen	ND	4.94									
3,5-Dichlorobenzoic acid	ND	0.988									
4-Nitrophenol	ND	0.988									
Dacthal (DCPA)	ND	1.98									
Surr: 2,4-Dichlorophenylacetic acid	26.5		19.76		134	62.3	134				

Sample ID: LCS-34715	SampType: LCS	Units: µg/L	Prep Date: 12/10/2021	RunNo: 72079							
Client ID: LCSW	Batch ID: 34715		Analysis Date: 12/17/2021	SeqNo: 1470519							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Dicamba	3.59	0.991	3.963	0	90.6	12.4	143				
2,4-D	4.29	0.991	3.963	0	108	43.3	143				
2,4-DP	3.92	0.991	3.963	0	98.9	49.7	129				
2,4,5-TP (Silvex)	4.00	0.991	3.963	0	101	45.2	134				
2,4,5-T	4.09	0.991	3.963	0	103	43.8	133				
Dinoseb	2.72	0.991	3.963	0	68.6	5	135				
Dalapon	13.3	1.98	19.81	0	67.3	6.92	95.8				

Work Order: 2112185
 CLIENT: OnSite Environmental Inc
 Project: 12-108

QC SUMMARY REPORT
Herbicides by EPA Method 8151A (GC/MS)

Sample ID: LCS-34715	SampType: LCS	Units: µg/L				Prep Date: 12/10/2021	RunNo: 72079				
Client ID: LCSW	Batch ID: 34715					Analysis Date: 12/17/2021	SeqNo: 1470519				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
2,4-DB	3.67	0.991	3.963	0	92.7	42	141				
MCPP	23.4	4.95	19.81	0	118	35	163				
MCPA	23.6	4.95	19.81	0	119	19	171				
Picloram	3.60	0.991	3.963	0	90.9	5	110				
Bentazon	3.43	0.991	3.963	0	86.5	36.1	139				
Chloramben	1.89	0.991	3.963	0	47.7	5	116				
Acifluorfen	2.81	4.95	3.963	0	70.8	8.43	153				
3,5-Dichlorobenzoic acid	3.20	0.991	3.963	0	80.7	56	122				
4-Nitrophenol	1.66	0.991	3.963	0	41.9	9.06	113				
Dacthal (DCPA)	1.34	1.98	3.963	0	34.5	5	54.3				
Surr: 2,4-Dichlorophenylacetic acid	26.6		19.81		134	62.3	134				

Sample ID: LCSW02	SampType: LCSW02	Units: µg/L				Prep Date: 12/10/2021	RunNo: 72079				
Client ID: LCSW02	Batch ID: 34715					Analysis Date: 12/17/2021	SeqNo: 1470520				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dicamba	3.08	0.990	3.961	0	77.7	12.4	143	3.592	15.4	30	
2,4-D	3.55	0.990	3.961	0	89.7	43.3	143	4.288	18.7	30	
2,4-DP	3.35	0.990	3.961	0	84.6	49.7	129	3.921	15.6	30	
2,4,5-TP (Silvex)	3.33	0.990	3.961	0	84.2	45.2	134	4.003	18.2	30	
2,4,5-T	3.50	0.990	3.961	0	88.5	43.8	133	4.085	15.3	30	
Dinoseb	2.00	0.990	3.961	0	50.4	5	135	2.717	30.6	30	
Dalapon	11.5	1.98	19.81	0	57.8	6.92	95.8	13.34	15.2	30	
2,4-DB	3.27	0.990	3.961	0	82.6	42	141	3.672	11.5	30	
MCPP	17.3	4.95	19.81	0	87.4	35	163	23.37	29.8	30	R
MCPA	17.7	4.95	19.81	0	89.3	19	171	23.63	28.8	30	R
Picloram	3.06	0.990	3.961	0	77.3	5	110	3.603	16.3	30	
Bentazon	2.96	0.990	3.961	0	74.7	36.1	139	3.427	14.6	30	
Chloramben	1.77	0.990	3.961	0	44.6	5	116	1.889	6.74	30	
Acifluorfen	2.62	4.95	3.961	0	66.2	8.43	153	2.807	6.76	30	

Work Order: 2112185
 CLIENT: OnSite Environmental Inc
 Project: 12-108

QC SUMMARY REPORT
Herbicides by EPA Method 8151A (GC/MS)

Sample ID: LCS D-34715	SampType: LCS D	Units: µg/L	Prep Date: 12/10/2021	RunNo: 72079							
Client ID: LCSW02	Batch ID: 34715		Analysis Date: 12/17/2021	SeqNo: 1470520							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
3,5-Dichlorobenzoic acid	2.80	0.990	3.961	0	70.7	56	122	3.198	13.3	30	
4-Nitrophenol	1.47	0.990	3.961	0	37.0	9.06	113	1.661	12.3	30	
Dacthal (DCPA)	1.17	1.98	3.961	0	29.5	5	54.3	1.369	15.8	30	
Surr: 2,4-Dichlorophenylacetic acid	22.7		19.81		115	62.3	134		0		

NOTES:

R - High RPD observed, spike recovery is within range.

Sample ID: 2112120-001AMS	SampType: MS	Units: µg/L	Prep Date: 12/10/2021	RunNo: 72079							
Client ID: BATCH	Batch ID: 34715		Analysis Date: 12/17/2021	SeqNo: 1470522							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dicamba	3.19	0.996	3.985	0	80.0	32.5	139				
2,4-D	3.73	0.996	3.985	0	93.5	45.9	150				
2,4-DP	3.44	0.996	3.985	0	86.3	44.1	144				
2,4,5-TP (Silvex)	3.53	0.996	3.985	0	88.5	46.3	136				
2,4,5-T	3.58	0.996	3.985	0	89.8	37	145				
Dinoseb	2.38	0.996	3.985	0	59.7	32.1	115				
Dalapon	12.3	1.99	19.92	0	62.0	17.7	108				
2,4-DB	3.27	0.996	3.985	0	82.0	37.6	153				
MCP P	17.7	4.98	19.92	0	88.9	41.3	186				
MCP A	18.1	4.98	19.92	0	90.9	48.9	173				
Picloram	3.52	0.996	3.985	0	88.4	23.2	104				
Bentazon	3.22	0.996	3.985	0	80.8	13.2	186				
Chloramben	1.85	0.996	3.985	0	46.4	5	115				
Acifluorfen	2.59	4.98	3.985	0	65.0	27.1	141				
3,5-Dichlorobenzoic acid	2.99	0.996	3.985	0	75.1	35.3	149				
4-Nitrophenol	1.49	0.996	3.985	0	37.3	5	118				
Dacthal (DCPA)	1.14	1.99	3.985	0	28.7	5	92.5				
Surr: 2,4-Dichlorophenylacetic acid	24.1		19.92		121	62.3	134				

Client Name: **ONSITE**

 Work Order Number: **2112185**

 Logged by: **Gabrielle Coeulle**

 Date Received: **12/10/2021 3:19:00 PM**

Chain of Custody

1. Is Chain of Custody complete? Yes No Not Present
2. How was the sample delivered? Courier

Log In

3. Coolers are present? Yes No NA
4. Shipping container/cooler in good condition? Yes No
5. Custody Seals present on shipping container/cooler?
(Refer to comments for Custody Seals not intact) Yes No Not Present
6. Was an attempt made to cool the samples? Yes No NA
7. Were all items received at a temperature of >2°C to 6°C * Yes No NA
8. Sample(s) in proper container(s)? Yes No
9. Sufficient sample volume for indicated test(s)? Yes No
10. Are samples properly preserved? Yes No
11. Was preservative added to bottles? Yes No NA
12. Is there headspace in the VOA vials? Yes No NA
13. Did all samples containers arrive in good condition(unbroken)? Yes No
14. Does paperwork match bottle labels? Yes No
15. Are matrices correctly identified on Chain of Custody? Yes No
16. Is it clear what analyses were requested? Yes No
17. Were all holding times able to be met? Yes No

Special Handling (if applicable)

18. Was client notified of all discrepancies with this order? Yes No NA

Person Notified:	<input type="text"/>	Date:	<input type="text"/>
By Whom:	<input type="text"/>	Via:	<input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:	<input type="text"/>		
Client Instructions:	<input type="text"/>		

19. Additional remarks:

Item Information

Item #	Temp °C
Sample 1	5.3

* Note: DoD/ELAP and TNI require items to be received at 4°C +/- 2°C

2112185



14648 NE 95th Street, Redmond, WA 98052 · (425) 883-3881

Laboratory: Fremont Analytical

Attention: Chelsea Ward

3600 Fremont Avenue N, Seattle, WA 98103

Phone Number: (206) 352-3790

Turnaround Request

1 Day 2 Day 3 Day

Standard

Other: _____

Laboratory Reference #: 12-108

Project Manager: David Baumeister

email: dbaumeister@onsite-env.com

Project Number: 669400205

Project Name: _____

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	# of Cont.	Requested Analyses
	MW2-211208	12/8/21	15:00	W	1	Chlorinated Acid Herbicides
	MW6-211209	12/9/21	12:10	W	1	Chlorinated Acid Herbicides
	MW7-211209	12/9/21	15:00	W	1	Chlorinated Acid Herbicides

Signature	Company	Date	Time	Comments/Special Instructions
Relinquished by: <i>Nichelle</i>	OSE	12/10/21	1400	EDDs
Received by: <i>J. Isaacson</i>	ALPHA	12/9/21	1350	
Relinquished by: <i>J. Isaacson</i>	ALPHA	12/10/21	1515	
Received by: <i>[Signature]</i>	FAI	12/10/21	1519	
Relinquished by:				
Received by:				

Chain of Custody

Company: Geo Engineers
 Project Number: 66940205
 Project Name: Geo East
 Project Manager: Cramett League
 Sampled by: Dexter Chen

Turnaround Request (in working days)


(Check One)

Same Day 1 Day
 2 Days 3 Days
 Standard (7 Days)
 _____ (other)

Laboratory Number: **12-108**

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers
1	MW2-211208	12/8/21	1500	W	18
2	TB-2-211208	12/8/21	—	W	1
3	MW6-211209	12/9/21	1210	W	18
4	MW7-211209	12/9/21	1500	W	15
5	TB-1-211209	12/9/21	—	W	1
6	TB-2-211209	12/9/21	—	W	1

NWTPH-HCID	NWTPH-Gx/BTEX	NWTPH-Gx	NWTPH-Dx (<input type="checkbox"/> Acid / SG Clean-up)	Volatiles 8260D	Halogenated Volatiles 8260D	EDB EPA 8011 (Waters Only)	Semivolatiles 8270E/SIM (with low-level PAHs)	PAHs 8270E/SIM (low-level)	PCBs 8082A	Organochlorine Pesticides 8081B	Organophosphorus Pesticides 8270E/SIM	Chlorinated Acid Herbicides 8151A	Total RCRA Metals	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664A	TDS	tot & disx. metals	alkalinity & bicarbonate SM 297-0	Dis. Cap. K. Na 2007/2008	% Moisture
	X	X	X	X			X		X	X	X	X					X	X	X	X	X
				X																	
	X	X	X	X			X		X	X	X	X					X	X	X	X	X
	X	X	X	X			X		X	X	X	X					X	X	X	X	X
				X																	
				X																	

Signature	Company	Date	Time	Comments/Special Instructions
	Geo Engineers	12/9/21		See Cramett for full list tot & disx. metals: As Cd Cr Cu Fe Pb Mn Hg Ni Se Zn Mg
Received				
Relinquished				
Received	COSE	12/10/21	0945	
Relinquished				
Received				
Reviewed/Date	Reviewed/Date	Data Package: Standard <input type="checkbox"/> Level III <input type="checkbox"/> Level IV <input type="checkbox"/>		
		Chromatograms with final report <input type="checkbox"/> Electronic Data Deliverables (EDDs) <input type="checkbox"/>		



14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

December 27, 2021

Garrett Leque
GeoEngineers, Inc.
554 West Bakerview Road
Bellingham, WA 98226

Re: Analytical Data for Project 6694-002-05 T700
Laboratory Reference No. 2112-131

Dear Garrett:

Enclosed are the analytical results and associated quality control data for samples submitted on December 14, 2021.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

A handwritten signature in black ink, appearing to read "DB", with a long horizontal stroke extending to the right.

David Baumeister
Project Manager

Enclosures



OnSite Environmental, Inc. 14648 NE 95th Street, Redmond, WA 98052 (425) 883-3881

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: December 27, 2021
Samples Submitted: December 14, 2021
Laboratory Reference: 2112-131
Project: 6694-002-05 T700

Case Narrative

Samples were collected on December 13, 2021 and received by the laboratory on December 14, 2021. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

Nitrate (as Nitrogen) Analysis EPA 353.2

The reported Nitrate results are a calculated value based on the subtraction of Nitrite from the Nitrate plus Nitrite result. The Nitrite analysis, which has a 48-hour holding time, was performed within the holding time. Immediately after this analysis, an aliquot of each sample was preserved with concentrated sulfuric acid and stored at 4 degrees C. The preserved samples were then analyzed within the maximum 28-day holding time for the Nitrate plus Nitrite analysis.

Any other QA/QC issues associated with this extraction and analysis will be indicated with a footnote reference and discussed in detail on the Data Qualifier page.



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ANALYTICAL REPORT FOR SAMPLES

Client ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
MW8-211213	12-131-01	Water	12-13-21	12-14-21	
TB-1-211213	12-131-02	Water	12-13-21	12-14-21	
DUP-211213	12-131-03	Water	12-13-21	12-14-21	

DRAFT



Date of Report: December 27, 2021
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**GASOLINE RANGE ORGANICS
 NWTPH-Gx**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW8-211213					
Laboratory ID:	12-131-01					
Gasoline	ND	100	NWTPH-Gx	12-15-21	12-15-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	98	66-117				
Client ID:	DUP-211213					
Laboratory ID:	12-131-03					
Gasoline	ND	100	NWTPH-Gx	12-15-21	12-15-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	98	66-117				



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**DIESEL AND HEAVY OIL RANGE ORGANICS
 NWTPH-Dx**

Matrix: Water
 Units: mg/L (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW8-211213					
Laboratory ID:	12-131-01					
Diesel Range Organics	ND	0.21	NWTPH-Dx	12-16-21	12-16-21	
Lube Oil Range Organics	ND	0.21	NWTPH-Dx	12-16-21	12-16-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	103	50-150				
Client ID:	DUP-211213					
Laboratory ID:	12-131-03					
Diesel Range Organics	ND	0.20	NWTPH-Dx	12-16-21	12-16-21	
Lube Oil Range Organics	ND	0.20	NWTPH-Dx	12-16-21	12-16-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	115	50-150				



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VOLATILE ORGANICS EPA 8260D
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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW8-211213					
Laboratory ID:	12-131-01					
Dichlorodifluoromethane	ND	0.20	EPA 8260D	12-15-21	12-15-21	
Chloromethane	ND	1.0	EPA 8260D	12-15-21	12-15-21	
Vinyl Chloride	ND	0.20	EPA 8260D	12-15-21	12-15-21	
Bromomethane	ND	0.20	EPA 8260D	12-15-21	12-15-21	
Chloroethane	ND	1.0	EPA 8260D	12-15-21	12-15-21	
Trichlorofluoromethane	ND	0.20	EPA 8260D	12-15-21	12-15-21	
1,1-Dichloroethene	ND	0.20	EPA 8260D	12-15-21	12-15-21	
Acetone	ND	6.6	EPA 8260D	12-15-21	12-15-21	
Iodomethane	ND	5.0	EPA 8260D	12-15-21	12-15-21	
Carbon Disulfide	ND	0.26	EPA 8260D	12-15-21	12-15-21	
Methylene Chloride	ND	1.0	EPA 8260D	12-15-21	12-15-21	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	12-15-21	12-15-21	
Methyl t-Butyl Ether	ND	0.20	EPA 8260D	12-15-21	12-15-21	
1,1-Dichloroethane	ND	0.20	EPA 8260D	12-15-21	12-15-21	
Vinyl Acetate	ND	1.0	EPA 8260D	12-15-21	12-15-21	
2,2-Dichloropropane	ND	0.20	EPA 8260D	12-15-21	12-15-21	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	12-15-21	12-15-21	
2-Butanone	ND	6.3	EPA 8260D	12-15-21	12-15-21	
Bromochloromethane	ND	0.20	EPA 8260D	12-15-21	12-15-21	
Chloroform	ND	0.20	EPA 8260D	12-15-21	12-15-21	
1,1,1-Trichloroethane	ND	0.20	EPA 8260D	12-15-21	12-15-21	
Carbon Tetrachloride	ND	0.20	EPA 8260D	12-15-21	12-15-21	
1,1-Dichloropropene	ND	0.20	EPA 8260D	12-15-21	12-15-21	
Benzene	ND	0.20	EPA 8260D	12-15-21	12-15-21	
1,2-Dichloroethane	ND	0.20	EPA 8260D	12-15-21	12-15-21	
Trichloroethene	ND	0.20	EPA 8260D	12-15-21	12-15-21	
1,2-Dichloropropane	ND	0.20	EPA 8260D	12-15-21	12-15-21	
Dibromomethane	ND	0.20	EPA 8260D	12-15-21	12-15-21	
Bromodichloromethane	ND	0.20	EPA 8260D	12-15-21	12-15-21	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260D	12-15-21	12-15-21	
Methyl Isobutyl Ketone	ND	2.0	EPA 8260D	12-15-21	12-15-21	
Toluene	ND	1.0	EPA 8260D	12-15-21	12-15-21	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260D	12-15-21	12-15-21	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW8-211213					
Laboratory ID:	12-131-01					
1,1,2-Trichloroethane	ND	0.20	EPA 8260D	12-15-21	12-15-21	
Tetrachloroethene	ND	0.20	EPA 8260D	12-15-21	12-15-21	
1,3-Dichloropropane	ND	0.20	EPA 8260D	12-15-21	12-15-21	
2-Hexanone	ND	2.0	EPA 8260D	12-15-21	12-15-21	
Dibromochloromethane	ND	0.20	EPA 8260D	12-15-21	12-15-21	
1,2-Dibromoethane	ND	0.20	EPA 8260D	12-15-21	12-15-21	
Chlorobenzene	ND	0.20	EPA 8260D	12-15-21	12-15-21	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260D	12-15-21	12-15-21	
Ethylbenzene	ND	0.20	EPA 8260D	12-15-21	12-15-21	
m,p-Xylene	ND	0.40	EPA 8260D	12-15-21	12-15-21	
o-Xylene	ND	0.20	EPA 8260D	12-15-21	12-15-21	
Styrene	ND	0.20	EPA 8260D	12-15-21	12-15-21	
Bromoform	ND	1.0	EPA 8260D	12-15-21	12-15-21	
Isopropylbenzene	ND	0.20	EPA 8260D	12-15-21	12-15-21	
Bromobenzene	ND	0.20	EPA 8260D	12-15-21	12-15-21	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260D	12-15-21	12-15-21	
1,2,3-Trichloropropane	ND	0.20	EPA 8260D	12-15-21	12-15-21	
n-Propylbenzene	ND	0.20	EPA 8260D	12-15-21	12-15-21	
2-Chlorotoluene	ND	0.20	EPA 8260D	12-15-21	12-15-21	
4-Chlorotoluene	ND	0.20	EPA 8260D	12-15-21	12-15-21	
1,3,5-Trimethylbenzene	ND	0.20	EPA 8260D	12-15-21	12-15-21	
tert-Butylbenzene	ND	0.20	EPA 8260D	12-15-21	12-15-21	
1,2,4-Trimethylbenzene	ND	0.20	EPA 8260D	12-15-21	12-15-21	
sec-Butylbenzene	ND	0.20	EPA 8260D	12-15-21	12-15-21	
1,3-Dichlorobenzene	ND	0.20	EPA 8260D	12-15-21	12-15-21	
p-Isopropyltoluene	ND	0.20	EPA 8260D	12-15-21	12-15-21	
1,4-Dichlorobenzene	ND	0.20	EPA 8260D	12-15-21	12-15-21	
1,2-Dichlorobenzene	ND	0.20	EPA 8260D	12-15-21	12-15-21	
n-Butylbenzene	ND	0.20	EPA 8260D	12-15-21	12-15-21	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260D	12-15-21	12-15-21	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260D	12-15-21	12-15-21	
Hexachlorobutadiene	ND	1.0	EPA 8260D	12-15-21	12-15-21	
Naphthalene	ND	1.3	EPA 8260D	12-15-21	12-15-21	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260D	12-15-21	12-15-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>105</i>	<i>75-127</i>				
<i>Toluene-d8</i>	<i>100</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>93</i>	<i>78-125</i>				



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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	TB-1-211213					
Laboratory ID:	12-131-02					
Dichlorodifluoromethane	ND	0.20	EPA 8260D	12-15-21	12-15-21	
Chloromethane	ND	1.0	EPA 8260D	12-15-21	12-15-21	
Vinyl Chloride	ND	0.20	EPA 8260D	12-15-21	12-15-21	
Bromomethane	ND	0.20	EPA 8260D	12-15-21	12-15-21	
Chloroethane	ND	1.0	EPA 8260D	12-15-21	12-15-21	
Trichlorofluoromethane	ND	0.20	EPA 8260D	12-15-21	12-15-21	
1,1-Dichloroethene	ND	0.20	EPA 8260D	12-15-21	12-15-21	
Acetone	ND	6.6	EPA 8260D	12-15-21	12-15-21	
Iodomethane	ND	5.0	EPA 8260D	12-15-21	12-15-21	
Carbon Disulfide	ND	0.26	EPA 8260D	12-15-21	12-15-21	
Methylene Chloride	ND	1.0	EPA 8260D	12-15-21	12-15-21	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	12-15-21	12-15-21	
Methyl t-Butyl Ether	ND	0.20	EPA 8260D	12-15-21	12-15-21	
1,1-Dichloroethane	ND	0.20	EPA 8260D	12-15-21	12-15-21	
Vinyl Acetate	ND	1.0	EPA 8260D	12-15-21	12-15-21	
2,2-Dichloropropane	ND	0.20	EPA 8260D	12-15-21	12-15-21	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	12-15-21	12-15-21	
2-Butanone	ND	6.3	EPA 8260D	12-15-21	12-15-21	
Bromochloromethane	ND	0.20	EPA 8260D	12-15-21	12-15-21	
Chloroform	ND	0.20	EPA 8260D	12-15-21	12-15-21	
1,1,1-Trichloroethane	ND	0.20	EPA 8260D	12-15-21	12-15-21	
Carbon Tetrachloride	ND	0.20	EPA 8260D	12-15-21	12-15-21	
1,1-Dichloropropene	ND	0.20	EPA 8260D	12-15-21	12-15-21	
Benzene	ND	0.20	EPA 8260D	12-15-21	12-15-21	
1,2-Dichloroethane	ND	0.20	EPA 8260D	12-15-21	12-15-21	
Trichloroethene	ND	0.20	EPA 8260D	12-15-21	12-15-21	
1,2-Dichloropropane	ND	0.20	EPA 8260D	12-15-21	12-15-21	
Dibromomethane	ND	0.20	EPA 8260D	12-15-21	12-15-21	
Bromodichloromethane	ND	0.20	EPA 8260D	12-15-21	12-15-21	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260D	12-15-21	12-15-21	
Methyl Isobutyl Ketone	ND	2.0	EPA 8260D	12-15-21	12-15-21	
Toluene	ND	1.0	EPA 8260D	12-15-21	12-15-21	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260D	12-15-21	12-15-21	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	TB-1-211213					
Laboratory ID:	12-131-02					
1,1,2-Trichloroethane	ND	0.20	EPA 8260D	12-15-21	12-15-21	
Tetrachloroethene	ND	0.20	EPA 8260D	12-15-21	12-15-21	
1,3-Dichloropropane	ND	0.20	EPA 8260D	12-15-21	12-15-21	
2-Hexanone	ND	2.0	EPA 8260D	12-15-21	12-15-21	
Dibromochloromethane	ND	0.20	EPA 8260D	12-15-21	12-15-21	
1,2-Dibromoethane	ND	0.20	EPA 8260D	12-15-21	12-15-21	
Chlorobenzene	ND	0.20	EPA 8260D	12-15-21	12-15-21	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260D	12-15-21	12-15-21	
Ethylbenzene	ND	0.20	EPA 8260D	12-15-21	12-15-21	
m,p-Xylene	ND	0.40	EPA 8260D	12-15-21	12-15-21	
o-Xylene	ND	0.20	EPA 8260D	12-15-21	12-15-21	
Styrene	ND	0.20	EPA 8260D	12-15-21	12-15-21	
Bromoform	ND	1.0	EPA 8260D	12-15-21	12-15-21	
Isopropylbenzene	ND	0.20	EPA 8260D	12-15-21	12-15-21	
Bromobenzene	ND	0.20	EPA 8260D	12-15-21	12-15-21	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260D	12-15-21	12-15-21	
1,2,3-Trichloropropane	ND	0.20	EPA 8260D	12-15-21	12-15-21	
n-Propylbenzene	ND	0.20	EPA 8260D	12-15-21	12-15-21	
2-Chlorotoluene	ND	0.20	EPA 8260D	12-15-21	12-15-21	
4-Chlorotoluene	ND	0.20	EPA 8260D	12-15-21	12-15-21	
1,3,5-Trimethylbenzene	ND	0.20	EPA 8260D	12-15-21	12-15-21	
tert-Butylbenzene	ND	0.20	EPA 8260D	12-15-21	12-15-21	
1,2,4-Trimethylbenzene	ND	0.20	EPA 8260D	12-15-21	12-15-21	
sec-Butylbenzene	ND	0.20	EPA 8260D	12-15-21	12-15-21	
1,3-Dichlorobenzene	ND	0.20	EPA 8260D	12-15-21	12-15-21	
p-Isopropyltoluene	ND	0.20	EPA 8260D	12-15-21	12-15-21	
1,4-Dichlorobenzene	ND	0.20	EPA 8260D	12-15-21	12-15-21	
1,2-Dichlorobenzene	ND	0.20	EPA 8260D	12-15-21	12-15-21	
n-Butylbenzene	ND	0.20	EPA 8260D	12-15-21	12-15-21	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260D	12-15-21	12-15-21	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260D	12-15-21	12-15-21	
Hexachlorobutadiene	ND	1.0	EPA 8260D	12-15-21	12-15-21	
Naphthalene	ND	1.3	EPA 8260D	12-15-21	12-15-21	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260D	12-15-21	12-15-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>106</i>	<i>75-127</i>				
<i>Toluene-d8</i>	<i>102</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>96</i>	<i>78-125</i>				



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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	DUP-211213					
Laboratory ID:	12-131-03					
Dichlorodifluoromethane	ND	0.20	EPA 8260D	12-15-21	12-15-21	
Chloromethane	ND	1.0	EPA 8260D	12-15-21	12-15-21	
Vinyl Chloride	ND	0.20	EPA 8260D	12-15-21	12-15-21	
Bromomethane	ND	0.20	EPA 8260D	12-15-21	12-15-21	
Chloroethane	ND	1.0	EPA 8260D	12-15-21	12-15-21	
Trichlorofluoromethane	ND	0.20	EPA 8260D	12-15-21	12-15-21	
1,1-Dichloroethene	ND	0.20	EPA 8260D	12-15-21	12-15-21	
Acetone	ND	6.6	EPA 8260D	12-15-21	12-15-21	
Iodomethane	ND	5.0	EPA 8260D	12-15-21	12-15-21	
Carbon Disulfide	ND	0.26	EPA 8260D	12-15-21	12-15-21	
Methylene Chloride	ND	1.0	EPA 8260D	12-15-21	12-15-21	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	12-15-21	12-15-21	
Methyl t-Butyl Ether	ND	0.20	EPA 8260D	12-15-21	12-15-21	
1,1-Dichloroethane	ND	0.20	EPA 8260D	12-15-21	12-15-21	
Vinyl Acetate	ND	1.0	EPA 8260D	12-15-21	12-15-21	
2,2-Dichloropropane	ND	0.20	EPA 8260D	12-15-21	12-15-21	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	12-15-21	12-15-21	
2-Butanone	ND	6.3	EPA 8260D	12-15-21	12-15-21	
Bromochloromethane	ND	0.20	EPA 8260D	12-15-21	12-15-21	
Chloroform	ND	0.20	EPA 8260D	12-15-21	12-15-21	
1,1,1-Trichloroethane	ND	0.20	EPA 8260D	12-15-21	12-15-21	
Carbon Tetrachloride	ND	0.20	EPA 8260D	12-15-21	12-15-21	
1,1-Dichloropropene	ND	0.20	EPA 8260D	12-15-21	12-15-21	
Benzene	ND	0.20	EPA 8260D	12-15-21	12-15-21	
1,2-Dichloroethane	ND	0.20	EPA 8260D	12-15-21	12-15-21	
Trichloroethene	ND	0.20	EPA 8260D	12-15-21	12-15-21	
1,2-Dichloropropane	ND	0.20	EPA 8260D	12-15-21	12-15-21	
Dibromomethane	ND	0.20	EPA 8260D	12-15-21	12-15-21	
Bromodichloromethane	ND	0.20	EPA 8260D	12-15-21	12-15-21	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260D	12-15-21	12-15-21	
Methyl Isobutyl Ketone	ND	2.0	EPA 8260D	12-15-21	12-15-21	
Toluene	ND	1.0	EPA 8260D	12-15-21	12-15-21	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260D	12-15-21	12-15-21	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	DUP-211213					
Laboratory ID:	12-131-03					
1,1,2-Trichloroethane	ND	0.20	EPA 8260D	12-15-21	12-15-21	
Tetrachloroethene	ND	0.20	EPA 8260D	12-15-21	12-15-21	
1,3-Dichloropropane	ND	0.20	EPA 8260D	12-15-21	12-15-21	
2-Hexanone	ND	2.0	EPA 8260D	12-15-21	12-15-21	
Dibromochloromethane	ND	0.20	EPA 8260D	12-15-21	12-15-21	
1,2-Dibromoethane	ND	0.20	EPA 8260D	12-15-21	12-15-21	
Chlorobenzene	ND	0.20	EPA 8260D	12-15-21	12-15-21	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260D	12-15-21	12-15-21	
Ethylbenzene	ND	0.20	EPA 8260D	12-15-21	12-15-21	
m,p-Xylene	ND	0.40	EPA 8260D	12-15-21	12-15-21	
o-Xylene	ND	0.20	EPA 8260D	12-15-21	12-15-21	
Styrene	ND	0.20	EPA 8260D	12-15-21	12-15-21	
Bromoform	ND	1.0	EPA 8260D	12-15-21	12-15-21	
Isopropylbenzene	ND	0.20	EPA 8260D	12-15-21	12-15-21	
Bromobenzene	ND	0.20	EPA 8260D	12-15-21	12-15-21	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260D	12-15-21	12-15-21	
1,2,3-Trichloropropane	ND	0.20	EPA 8260D	12-15-21	12-15-21	
n-Propylbenzene	ND	0.20	EPA 8260D	12-15-21	12-15-21	
2-Chlorotoluene	ND	0.20	EPA 8260D	12-15-21	12-15-21	
4-Chlorotoluene	ND	0.20	EPA 8260D	12-15-21	12-15-21	
1,3,5-Trimethylbenzene	ND	0.20	EPA 8260D	12-15-21	12-15-21	
tert-Butylbenzene	ND	0.20	EPA 8260D	12-15-21	12-15-21	
1,2,4-Trimethylbenzene	ND	0.20	EPA 8260D	12-15-21	12-15-21	
sec-Butylbenzene	ND	0.20	EPA 8260D	12-15-21	12-15-21	
1,3-Dichlorobenzene	ND	0.20	EPA 8260D	12-15-21	12-15-21	
p-Isopropyltoluene	ND	0.20	EPA 8260D	12-15-21	12-15-21	
1,4-Dichlorobenzene	ND	0.20	EPA 8260D	12-15-21	12-15-21	
1,2-Dichlorobenzene	ND	0.20	EPA 8260D	12-15-21	12-15-21	
n-Butylbenzene	ND	0.20	EPA 8260D	12-15-21	12-15-21	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260D	12-15-21	12-15-21	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260D	12-15-21	12-15-21	
Hexachlorobutadiene	ND	1.0	EPA 8260D	12-15-21	12-15-21	
Naphthalene	ND	1.3	EPA 8260D	12-15-21	12-15-21	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260D	12-15-21	12-15-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>106</i>	<i>75-127</i>				
<i>Toluene-d8</i>	<i>100</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>93</i>	<i>78-125</i>				



Date of Report: December 27, 2021
 Samples Submitted: December 14, 2021
 Laboratory Reference: 2112-131
 Project: 6694-002-05 T700

SEMIVOLATILE ORGANICS EPA 8270E/SIM
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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW8-211213					
Laboratory ID:	12-131-01					
n-Nitrosodimethylamine	ND	0.99	EPA 8270E	12-17-21	12-17-21	
Pyridine	ND	0.99	EPA 8270E	12-17-21	12-17-21	
Phenol	ND	0.99	EPA 8270E	12-17-21	12-17-21	
Aniline	ND	4.9	EPA 8270E	12-17-21	12-17-21	
bis(2-Chloroethyl)ether	ND	0.99	EPA 8270E	12-17-21	12-17-21	
2-Chlorophenol	ND	0.99	EPA 8270E	12-17-21	12-17-21	
1,3-Dichlorobenzene	ND	0.99	EPA 8270E	12-17-21	12-17-21	
1,4-Dichlorobenzene	ND	0.99	EPA 8270E	12-17-21	12-17-21	
Benzyl alcohol	ND	0.99	EPA 8270E	12-17-21	12-17-21	
1,2-Dichlorobenzene	ND	0.99	EPA 8270E	12-17-21	12-17-21	
2-Methylphenol (o-Cresol)	ND	0.99	EPA 8270E	12-17-21	12-17-21	
bis(2-Chloroisopropyl)ether	ND	0.99	EPA 8270E	12-17-21	12-17-21	
(3+4)-Methylphenol (m,p-Cresol)	ND	0.99	EPA 8270E	12-17-21	12-17-21	
n-Nitroso-di-n-propylamine	ND	0.99	EPA 8270E	12-17-21	12-17-21	
Hexachloroethane	ND	0.99	EPA 8270E	12-17-21	12-17-21	
Nitrobenzene	ND	0.99	EPA 8270E	12-17-21	12-17-21	
Isophorone	ND	0.99	EPA 8270E	12-17-21	12-17-21	
2-Nitrophenol	ND	0.99	EPA 8270E	12-17-21	12-17-21	
2,4-Dimethylphenol	ND	0.99	EPA 8270E	12-17-21	12-17-21	
bis(2-Chloroethoxy)methane	ND	0.99	EPA 8270E	12-17-21	12-17-21	
2,4-Dichlorophenol	ND	0.99	EPA 8270E	12-17-21	12-17-21	
1,2,4-Trichlorobenzene	ND	0.99	EPA 8270E	12-17-21	12-17-21	
Naphthalene	ND	0.099	EPA 8270E/SIM	12-17-21	12-17-21	
4-Chloroaniline	ND	0.99	EPA 8270E	12-17-21	12-17-21	
Hexachlorobutadiene	ND	0.99	EPA 8270E	12-17-21	12-17-21	
4-Chloro-3-methylphenol	ND	0.99	EPA 8270E	12-17-21	12-17-21	
2-Methylnaphthalene	ND	0.099	EPA 8270E/SIM	12-17-21	12-17-21	
1-Methylnaphthalene	ND	0.099	EPA 8270E/SIM	12-17-21	12-17-21	
Hexachlorocyclopentadiene	ND	0.99	EPA 8270E	12-17-21	12-17-21	
2,4,6-Trichlorophenol	ND	0.99	EPA 8270E	12-17-21	12-17-21	
2,3-Dichloroaniline	ND	0.99	EPA 8270E	12-17-21	12-17-21	
2,4,5-Trichlorophenol	ND	0.99	EPA 8270E	12-17-21	12-17-21	
2-Chloronaphthalene	ND	0.99	EPA 8270E	12-17-21	12-17-21	
2-Nitroaniline	ND	0.99	EPA 8270E	12-17-21	12-17-21	
1,4-Dinitrobenzene	ND	0.99	EPA 8270E	12-17-21	12-17-21	
Dimethylphthalate	ND	4.9	EPA 8270E	12-17-21	12-17-21	
1,3-Dinitrobenzene	ND	0.99	EPA 8270E	12-17-21	12-17-21	
2,6-Dinitrotoluene	ND	0.99	EPA 8270E	12-17-21	12-17-21	
1,2-Dinitrobenzene	ND	0.99	EPA 8270E	12-17-21	12-17-21	
Acenaphthylene	ND	0.099	EPA 8270E/SIM	12-17-21	12-17-21	
3-Nitroaniline	ND	0.99	EPA 8270E	12-17-21	12-17-21	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW8-211213					
Laboratory ID:	12-131-01					
2,4-Dinitrophenol	ND	4.9	EPA 8270E	12-17-21	12-17-21	
Acenaphthene	ND	0.099	EPA 8270E/SIM	12-17-21	12-17-21	
4-Nitrophenol	ND	4.9	EPA 8270E	12-17-21	12-17-21	
2,4-Dinitrotoluene	ND	0.99	EPA 8270E	12-17-21	12-17-21	
Dibenzofuran	ND	0.99	EPA 8270E	12-17-21	12-17-21	
2,3,5,6-Tetrachlorophenol	ND	0.99	EPA 8270E	12-17-21	12-17-21	
2,3,4,6-Tetrachlorophenol	ND	0.99	EPA 8270E	12-17-21	12-17-21	
Diethylphthalate	4.7	0.99	EPA 8270E	12-17-21	12-17-21	
4-Chlorophenyl-phenylether	ND	0.99	EPA 8270E	12-17-21	12-17-21	
4-Nitroaniline	ND	0.99	EPA 8270E	12-17-21	12-17-21	
Fluorene	ND	0.099	EPA 8270E/SIM	12-17-21	12-17-21	
4,6-Dinitro-2-methylphenol	ND	4.9	EPA 8270E	12-17-21	12-17-21	
n-Nitrosodiphenylamine	ND	0.99	EPA 8270E	12-17-21	12-17-21	
1,2-Diphenylhydrazine	ND	0.99	EPA 8270E	12-17-21	12-17-21	
4-Bromophenyl-phenylether	ND	0.99	EPA 8270E	12-17-21	12-17-21	
Hexachlorobenzene	ND	0.99	EPA 8270E	12-17-21	12-17-21	
Pentachlorophenol	ND	4.9	EPA 8270E	12-17-21	12-17-21	
Phenanthrene	ND	0.099	EPA 8270E/SIM	12-17-21	12-17-21	
Anthracene	ND	0.099	EPA 8270E/SIM	12-17-21	12-17-21	
Carbazole	ND	0.99	EPA 8270E	12-17-21	12-17-21	
Di-n-butylphthalate	ND	4.9	EPA 8270E	12-17-21	12-17-21	
Fluoranthene	ND	0.099	EPA 8270E/SIM	12-17-21	12-17-21	
Pyrene	ND	0.099	EPA 8270E/SIM	12-17-21	12-17-21	
Butylbenzylphthalate	ND	0.99	EPA 8270E	12-17-21	12-17-21	
bis(2-Ethylhexyl)adipate	ND	4.9	EPA 8270E	12-17-21	12-17-21	
3,3'-Dichlorobenzidine	ND	0.99	EPA 8270E	12-17-21	12-17-21	
Benzo[a]anthracene	ND	0.0099	EPA 8270E/SIM	12-17-21	12-17-21	
Chrysene	ND	0.0099	EPA 8270E/SIM	12-17-21	12-17-21	
bis(2-Ethylhexyl)phthalate	ND	4.9	EPA 8270E	12-17-21	12-17-21	
Di-n-octylphthalate	ND	0.99	EPA 8270E	12-17-21	12-17-21	
Benzo[b]fluoranthene	ND	0.0099	EPA 8270E/SIM	12-17-21	12-17-21	
Benzo(j,k)fluoranthene	ND	0.0099	EPA 8270E/SIM	12-17-21	12-17-21	
Benzo[a]pyrene	ND	0.0099	EPA 8270E/SIM	12-17-21	12-17-21	
Indeno[1,2,3-cd]pyrene	ND	0.0099	EPA 8270E/SIM	12-17-21	12-17-21	
Dibenz[a,h]anthracene	ND	0.0099	EPA 8270E/SIM	12-17-21	12-17-21	
Benzo[g,h,i]perylene	ND	0.0099	EPA 8270E/SIM	12-17-21	12-17-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
2-Fluorophenol	34	10 - 82				
Phenol-d6	25	10 - 92				
Nitrobenzene-d5	64	32 - 105				
2-Fluorobiphenyl	70	38 - 105				
2,4,6-Tribromophenol	83	25 - 124				
Terphenyl-d14	59	42 - 116				



Date of Report: December 27, 2021
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 Laboratory Reference: 2112-131
 Project: 6694-002-05 T700

SEMIVOLATILE ORGANICS EPA 8270E/SIM
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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	DUP-211213					
Laboratory ID:	12-131-03					
n-Nitrosodimethylamine	ND	1.0	EPA 8270E	12-17-21	12-17-21	
Pyridine	ND	1.0	EPA 8270E	12-17-21	12-17-21	
Phenol	ND	1.0	EPA 8270E	12-17-21	12-17-21	
Aniline	ND	5.0	EPA 8270E	12-17-21	12-17-21	
bis(2-Chloroethyl)ether	ND	1.0	EPA 8270E	12-17-21	12-17-21	
2-Chlorophenol	ND	1.0	EPA 8270E	12-17-21	12-17-21	
1,3-Dichlorobenzene	ND	1.0	EPA 8270E	12-17-21	12-17-21	
1,4-Dichlorobenzene	ND	1.0	EPA 8270E	12-17-21	12-17-21	
Benzyl alcohol	ND	1.0	EPA 8270E	12-17-21	12-17-21	
1,2-Dichlorobenzene	ND	1.0	EPA 8270E	12-17-21	12-17-21	
2-Methylphenol (o-Cresol)	ND	1.0	EPA 8270E	12-17-21	12-17-21	
bis(2-Chloroisopropyl)ether	ND	1.0	EPA 8270E	12-17-21	12-17-21	
(3+4)-Methylphenol (m,p-Cresol)	ND	1.0	EPA 8270E	12-17-21	12-17-21	
n-Nitroso-di-n-propylamine	ND	1.0	EPA 8270E	12-17-21	12-17-21	
Hexachloroethane	ND	1.0	EPA 8270E	12-17-21	12-17-21	
Nitrobenzene	ND	1.0	EPA 8270E	12-17-21	12-17-21	
Isophorone	ND	1.0	EPA 8270E	12-17-21	12-17-21	
2-Nitrophenol	ND	1.0	EPA 8270E	12-17-21	12-17-21	
2,4-Dimethylphenol	ND	1.0	EPA 8270E	12-17-21	12-17-21	
bis(2-Chloroethoxy)methane	ND	1.0	EPA 8270E	12-17-21	12-17-21	
2,4-Dichlorophenol	ND	1.0	EPA 8270E	12-17-21	12-17-21	
1,2,4-Trichlorobenzene	ND	1.0	EPA 8270E	12-17-21	12-17-21	
Naphthalene	ND	0.10	EPA 8270E/SIM	12-17-21	12-17-21	
4-Chloroaniline	ND	1.0	EPA 8270E	12-17-21	12-17-21	
Hexachlorobutadiene	ND	1.0	EPA 8270E	12-17-21	12-17-21	
4-Chloro-3-methylphenol	ND	1.0	EPA 8270E	12-17-21	12-17-21	
2-Methylnaphthalene	ND	0.10	EPA 8270E/SIM	12-17-21	12-17-21	
1-Methylnaphthalene	ND	0.10	EPA 8270E/SIM	12-17-21	12-17-21	
Hexachlorocyclopentadiene	ND	1.0	EPA 8270E	12-17-21	12-17-21	
2,4,6-Trichlorophenol	ND	1.0	EPA 8270E	12-17-21	12-17-21	
2,3-Dichloroaniline	ND	1.0	EPA 8270E	12-17-21	12-17-21	
2,4,5-Trichlorophenol	ND	1.0	EPA 8270E	12-17-21	12-17-21	
2-Chloronaphthalene	ND	1.0	EPA 8270E	12-17-21	12-17-21	
2-Nitroaniline	ND	1.0	EPA 8270E	12-17-21	12-17-21	
1,4-Dinitrobenzene	ND	1.0	EPA 8270E	12-17-21	12-17-21	
Dimethylphthalate	ND	5.0	EPA 8270E	12-17-21	12-17-21	
1,3-Dinitrobenzene	ND	1.0	EPA 8270E	12-17-21	12-17-21	
2,6-Dinitrotoluene	ND	1.0	EPA 8270E	12-17-21	12-17-21	
1,2-Dinitrobenzene	ND	1.0	EPA 8270E	12-17-21	12-17-21	
Acenaphthylene	ND	0.10	EPA 8270E/SIM	12-17-21	12-17-21	
3-Nitroaniline	ND	1.0	EPA 8270E	12-17-21	12-17-21	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	DUP-211213					
Laboratory ID:	12-131-03					
2,4-Dinitrophenol	ND	5.0	EPA 8270E	12-17-21	12-17-21	
Acenaphthene	ND	0.10	EPA 8270E/SIM	12-17-21	12-17-21	
4-Nitrophenol	ND	5.0	EPA 8270E	12-17-21	12-17-21	
2,4-Dinitrotoluene	ND	1.0	EPA 8270E	12-17-21	12-17-21	
Dibenzofuran	ND	1.0	EPA 8270E	12-17-21	12-17-21	
2,3,5,6-Tetrachlorophenol	ND	1.0	EPA 8270E	12-17-21	12-17-21	
2,3,4,6-Tetrachlorophenol	ND	1.0	EPA 8270E	12-17-21	12-17-21	
Diethylphthalate	ND	1.0	EPA 8270E	12-17-21	12-17-21	
4-Chlorophenyl-phenylether	ND	1.0	EPA 8270E	12-17-21	12-17-21	
4-Nitroaniline	ND	1.0	EPA 8270E	12-17-21	12-17-21	
Fluorene	ND	0.10	EPA 8270E/SIM	12-17-21	12-17-21	
4,6-Dinitro-2-methylphenol	ND	5.0	EPA 8270E	12-17-21	12-17-21	
n-Nitrosodiphenylamine	ND	1.0	EPA 8270E	12-17-21	12-17-21	
1,2-Diphenylhydrazine	ND	1.0	EPA 8270E	12-17-21	12-17-21	
4-Bromophenyl-phenylether	ND	1.0	EPA 8270E	12-17-21	12-17-21	
Hexachlorobenzene	ND	1.0	EPA 8270E	12-17-21	12-17-21	
Pentachlorophenol	ND	5.0	EPA 8270E	12-17-21	12-17-21	
Phenanthrene	ND	0.10	EPA 8270E/SIM	12-17-21	12-17-21	
Anthracene	ND	0.10	EPA 8270E/SIM	12-17-21	12-17-21	
Carbazole	ND	1.0	EPA 8270E	12-17-21	12-17-21	
Di-n-butylphthalate	ND	5.0	EPA 8270E	12-17-21	12-17-21	
Fluoranthene	ND	0.10	EPA 8270E/SIM	12-17-21	12-17-21	
Pyrene	ND	0.10	EPA 8270E/SIM	12-17-21	12-17-21	
Butylbenzylphthalate	ND	1.0	EPA 8270E	12-17-21	12-17-21	
bis(2-Ethylhexyl)adipate	ND	5.0	EPA 8270E	12-17-21	12-17-21	
3,3'-Dichlorobenzidine	ND	1.0	EPA 8270E	12-17-21	12-17-21	
Benzo[a]anthracene	ND	0.010	EPA 8270E/SIM	12-17-21	12-17-21	
Chrysene	ND	0.010	EPA 8270E/SIM	12-17-21	12-17-21	
bis(2-Ethylhexyl)phthalate	ND	5.0	EPA 8270E	12-17-21	12-17-21	
Di-n-octylphthalate	ND	1.0	EPA 8270E	12-17-21	12-17-21	
Benzo[b]fluoranthene	ND	0.010	EPA 8270E/SIM	12-17-21	12-17-21	
Benzo(j,k)fluoranthene	ND	0.010	EPA 8270E/SIM	12-17-21	12-17-21	
Benzo[a]pyrene	ND	0.010	EPA 8270E/SIM	12-17-21	12-17-21	
Indeno[1,2,3-cd]pyrene	ND	0.010	EPA 8270E/SIM	12-17-21	12-17-21	
Dibenz[a,h]anthracene	ND	0.010	EPA 8270E/SIM	12-17-21	12-17-21	
Benzo[g,h,i]perylene	ND	0.010	EPA 8270E/SIM	12-17-21	12-17-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>2-Fluorophenol</i>	<i>33</i>	<i>10 - 82</i>				
<i>Phenol-d6</i>	<i>24</i>	<i>10 - 92</i>				
<i>Nitrobenzene-d5</i>	<i>62</i>	<i>32 - 105</i>				
<i>2-Fluorobiphenyl</i>	<i>66</i>	<i>38 - 105</i>				
<i>2,4,6-Tribromophenol</i>	<i>82</i>	<i>25 - 124</i>				
<i>Terphenyl-d14</i>	<i>60</i>	<i>42 - 116</i>				



Date of Report: December 27, 2021
 Samples Submitted: December 14, 2021
 Laboratory Reference: 2112-131
 Project: 6694-002-05 T700

PCBs EPA 8082A

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW8-211213					
Laboratory ID:	12-131-01					
Aroclor 1016	ND	0.049	EPA 8082A	12-16-21	12-17-21	
Aroclor 1221	ND	0.049	EPA 8082A	12-16-21	12-17-21	
Aroclor 1232	ND	0.049	EPA 8082A	12-16-21	12-17-21	
Aroclor 1242	ND	0.049	EPA 8082A	12-16-21	12-17-21	
Aroclor 1248	ND	0.049	EPA 8082A	12-16-21	12-17-21	
Aroclor 1254	ND	0.049	EPA 8082A	12-16-21	12-17-21	
Aroclor 1260	ND	0.049	EPA 8082A	12-16-21	12-17-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
DCB	79	42-140				
Client ID:	DUP-211213					
Laboratory ID:	12-131-03					
Aroclor 1016	ND	0.049	EPA 8082A	12-16-21	12-17-21	
Aroclor 1221	ND	0.049	EPA 8082A	12-16-21	12-17-21	
Aroclor 1232	ND	0.049	EPA 8082A	12-16-21	12-17-21	
Aroclor 1242	ND	0.049	EPA 8082A	12-16-21	12-17-21	
Aroclor 1248	ND	0.049	EPA 8082A	12-16-21	12-17-21	
Aroclor 1254	ND	0.049	EPA 8082A	12-16-21	12-17-21	
Aroclor 1260	ND	0.049	EPA 8082A	12-16-21	12-17-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
DCB	73	42-140				



Date of Report: December 27, 2021
 Samples Submitted: December 14, 2021
 Laboratory Reference: 2112-131
 Project: 6694-002-05 T700

**ORGANOCHLORINE
 PESTICIDES EPA 8081B**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW8-211213					
Laboratory ID:	12-131-01					
alpha-BHC	ND	0.0049	EPA 8081B	12-16-21	12-16-21	
gamma-BHC (Lindane)	ND	0.0049	EPA 8081B	12-16-21	12-16-21	
beta-BHC	ND	0.0049	EPA 8081B	12-16-21	12-16-21	
delta-BHC	ND	0.0049	EPA 8081B	12-16-21	12-16-21	
Heptachlor	ND	0.0049	EPA 8081B	12-16-21	12-16-21	
Aldrin	ND	0.0019	EPA 8081B	12-16-21	12-16-21	
Heptachlor Epoxide	ND	0.0029	EPA 8081B	12-16-21	12-16-21	
gamma-Chlordane	ND	0.0049	EPA 8081B	12-16-21	12-16-21	
alpha-Chlordane	ND	0.0049	EPA 8081B	12-16-21	12-16-21	
4,4'-DDE	ND	0.0049	EPA 8081B	12-16-21	12-16-21	
Endosulfan I	ND	0.0049	EPA 8081B	12-16-21	12-16-21	
Dieldrin	ND	0.0049	EPA 8081B	12-16-21	12-16-21	
Endrin	ND	0.0049	EPA 8081B	12-16-21	12-16-21	
4,4'-DDD	ND	0.0049	EPA 8081B	12-16-21	12-16-21	
Endosulfan II	ND	0.0049	EPA 8081B	12-16-21	12-16-21	
4,4'-DDT	ND	0.0049	EPA 8081B	12-16-21	12-16-21	
Endrin Aldehyde	ND	0.0049	EPA 8081B	12-16-21	12-16-21	
Methoxychlor	ND	0.0097	EPA 8081B	12-16-21	12-16-21	
Endosulfan Sulfate	ND	0.0049	EPA 8081B	12-16-21	12-16-21	
Endrin Ketone	ND	0.019	EPA 8081B	12-16-21	12-16-21	
Toxaphene	ND	0.049	EPA 8081B	12-16-21	12-16-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
TCMX	62	25-114				
DCB	66	30-137				



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**ORGANOCHLORINE
 PESTICIDES EPA 8081B**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	DUP-211213					
Laboratory ID:	12-131-03					
alpha-BHC	ND	0.0049	EPA 8081B	12-16-21	12-16-21	
gamma-BHC (Lindane)	ND	0.0049	EPA 8081B	12-16-21	12-16-21	
beta-BHC	ND	0.0049	EPA 8081B	12-16-21	12-16-21	
delta-BHC	ND	0.0049	EPA 8081B	12-16-21	12-16-21	
Heptachlor	ND	0.0049	EPA 8081B	12-16-21	12-16-21	
Aldrin	ND	0.0019	EPA 8081B	12-16-21	12-16-21	
Heptachlor Epoxide	ND	0.0029	EPA 8081B	12-16-21	12-16-21	
gamma-Chlordane	ND	0.0049	EPA 8081B	12-16-21	12-16-21	
alpha-Chlordane	ND	0.0049	EPA 8081B	12-16-21	12-16-21	
4,4'-DDE	ND	0.0049	EPA 8081B	12-16-21	12-16-21	
Endosulfan I	ND	0.0049	EPA 8081B	12-16-21	12-16-21	
Dieldrin	ND	0.0049	EPA 8081B	12-16-21	12-16-21	
Endrin	ND	0.0049	EPA 8081B	12-16-21	12-16-21	
4,4'-DDD	ND	0.0049	EPA 8081B	12-16-21	12-16-21	
Endosulfan II	ND	0.0049	EPA 8081B	12-16-21	12-16-21	
4,4'-DDT	ND	0.0049	EPA 8081B	12-16-21	12-16-21	
Endrin Aldehyde	ND	0.0049	EPA 8081B	12-16-21	12-16-21	
Methoxychlor	ND	0.0097	EPA 8081B	12-16-21	12-16-21	
Endosulfan Sulfate	ND	0.0049	EPA 8081B	12-16-21	12-16-21	
Endrin Ketone	ND	0.019	EPA 8081B	12-16-21	12-16-21	
Toxaphene	ND	0.049	EPA 8081B	12-16-21	12-16-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
TCMX	47	25-114				
DCB	61	30-137				



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TOTAL METALS
EPA 200.7/200.8/7470A

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW8-211213					
Laboratory ID:	12-131-01					
Arsenic	ND	3.3	EPA 200.8	12-16-21	12-16-21	
Cadmium	ND	4.4	EPA 200.8	12-16-21	12-16-21	
Chromium	ND	11	EPA 200.8	12-16-21	12-16-21	
Copper	ND	11	EPA 200.8	12-16-21	12-16-21	
Iron	1300	56	EPA 200.7	12-16-21	12-16-21	
Lead	ND	1.1	EPA 200.8	12-16-21	12-16-21	
Magnesium	50000	5600	EPA 200.7	12-16-21	12-16-21	
Manganese	2100	11	EPA 200.7	12-16-21	12-16-21	
Mercury	ND	0.025	EPA 7470A	12-15-21	12-15-21	
Nickel	39	22	EPA 200.8	12-16-21	12-16-21	
Selenium	ND	5.6	EPA 200.8	12-16-21	12-16-21	
Zinc	ND	28	EPA 200.8	12-16-21	12-16-21	

Client ID:	DUP-211213					
Laboratory ID:	12-131-03					
Arsenic	ND	3.3	EPA 200.8	12-16-21	12-16-21	
Cadmium	ND	4.4	EPA 200.8	12-16-21	12-16-21	
Chromium	ND	11	EPA 200.8	12-16-21	12-16-21	
Copper	ND	11	EPA 200.8	12-16-21	12-16-21	
Iron	1400	56	EPA 200.7	12-16-21	12-16-21	
Lead	ND	1.1	EPA 200.8	12-16-21	12-16-21	
Magnesium	50000	1100	EPA 200.7	12-16-21	12-16-21	
Manganese	2200	11	EPA 200.7	12-16-21	12-16-21	
Mercury	ND	0.025	EPA 7470A	12-15-21	12-15-21	
Nickel	ND	22	EPA 200.8	12-16-21	12-16-21	
Selenium	ND	5.6	EPA 200.8	12-16-21	12-16-21	
Zinc	ND	28	EPA 200.8	12-16-21	12-16-21	



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DISSOLVED METALS
EPA 200.7/200.8/7470A

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW8-211213					
Laboratory ID:	12-131-01					
Arsenic	ND	3.0	EPA 200.8		12-15-21	
Cadmium	ND	4.0	EPA 200.8		12-15-21	
Calcium	37000	1100	EPA 200.7		12-15-21	
Chromium	ND	10	EPA 200.8		12-15-21	
Copper	ND	10	EPA 200.8		12-15-21	
Iron	120	56	EPA 200.7		12-15-21	
Lead	ND	1.0	EPA 200.8		12-15-21	
Magnesium	41000	1100	EPA 200.7		12-15-21	
Manganese	1900	11	EPA 200.7		12-15-21	
Mercury	ND	0.025	EPA 7470A		12-17-21	
Nickel	ND	20	EPA 200.8		12-15-21	
Potassium	4100	1100	EPA 200.7		12-15-21	
Selenium	ND	5.0	EPA 200.8		12-15-21	
Sodium	11000	1100	EPA 200.7		12-15-21	
Zinc	ND	25	EPA 200.8		12-15-21	
Client ID:	DUP-211213					
Laboratory ID:	12-131-03					
Arsenic	ND	3.0	EPA 200.8		12-15-21	
Cadmium	ND	4.0	EPA 200.8		12-15-21	
Calcium	38000	1100	EPA 200.7		12-15-21	
Chromium	ND	10	EPA 200.8		12-15-21	
Copper	ND	10	EPA 200.8		12-15-21	
Iron	110	56	EPA 200.7		12-15-21	
Lead	ND	1.0	EPA 200.8		12-15-21	
Magnesium	42000	1100	EPA 200.7		12-15-21	
Manganese	1900	11	EPA 200.7		12-15-21	
Mercury	ND	0.025	EPA 7470A		12-17-21	
Nickel	ND	20	EPA 200.8		12-15-21	
Potassium	4500	1100	EPA 200.7		12-15-21	
Selenium	ND	5.0	EPA 200.8		12-15-21	
Sodium	11000	1100	EPA 200.7		12-15-21	
Zinc	ND	25	EPA 200.8		12-15-21	



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**TOTAL ALKALINITY
 SM 2320B**

Matrix: Water
 Units: mg CaCO₃/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW8-211213					
Laboratory ID:	12-131-01					
Total Alkalinity	230	2.0	SM 2320B	12-15-21	12-15-21	
Client ID:	DUP-211213					
Laboratory ID:	12-131-03					
Total Alkalinity	220	2.0	SM 2320B	12-15-21	12-15-21	



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**TOTAL BICARBONATE
 SM 2320B**

Matrix: Water
 Units: mg CaCO₃/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW8-211213					
Laboratory ID:	12-131-01					
Bicarbonate Concentration	230	2.0	SM 2320B	12-15-21	12-15-21	
Client ID:	DUP-211213					
Laboratory ID:	12-131-03					
Bicarbonate Concentration	220	2.0	SM 2320B	12-15-21	12-15-21	



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**TOTAL DISSOLVED SOLIDS
 SM 2540C**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW8-211213					
Laboratory ID:	12-131-01					
Total Dissolved Solids	320	13	SM 2540C	12-17-21	12-20-21	

Client ID:	DUP-211213					
Laboratory ID:	12-131-03					
Total Dissolved Solids	320	13	SM 2540C	12-17-21	12-20-21	



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CHLORIDE
SM 4500-Cl E

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW8-211213					
Laboratory ID:	12-131-01					
Chloride	4.5	2.0	SM 4500-Cl E	12-20-21	12-20-21	
Client ID:	DUP-211213					
Laboratory ID:	12-131-03					
Chloride	4.5	2.0	SM 4500-Cl E	12-20-21	12-20-21	



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NITRATE (as Nitrogen)
EPA 353.2

Matrix: Water
 Units: mg/L-N

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW8-211213					
Laboratory ID:	12-131-01					
Nitrate	0.10	0.050	EPA 353.2	12-17-21	12-17-21	
Client ID:	DUP-211213					
Laboratory ID:	12-131-03					
Nitrate	0.65	0.050	EPA 353.2	12-17-21	12-17-21	



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SULFATE
ASTM D516-11

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW8-211213					
Laboratory ID:	12-131-01					
Sulfate	73	25	ASTM D516-11	12-16-21	12-16-21	
Client ID:	DUP-211213					
Laboratory ID:	12-131-03					
Sulfate	71	25	ASTM D516-11	12-16-21	12-16-21	



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AMMONIA (as Nitrogen)
SM 4500-NH₃ D

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW8-211213					
Laboratory ID:	12-131-01					
Ammonia	ND	0.050	SM 4500-NH3 D	12-17-21	12-17-21	
Client ID:	DUP-211213					
Laboratory ID:	12-131-03					
Ammonia	ND	0.050	SM 4500-NH3 D	12-17-21	12-17-21	



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**GASOLINE RANGE ORGANICS
 NWTPH-Gx
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1215W2					
Gasoline	ND	100	NWTPH-Gx	12-15-21	12-15-21	
Surrogate:	Percent Recovery		Control Limits			
Fluorobenzene	98	66-117				

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	12-123-02							
	ORIG	DUP						
Gasoline	ND	ND	NA	NA	NA	NA	30	
Surrogate:								
Fluorobenzene				97	97	66-117		



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**DIESEL AND HEAVY OIL RANGE ORGANICS
 NWTPH-Dx
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1216W1					
Diesel Range Organics	ND	0.15	NWTPH-Dx	12-16-21	12-16-21	
Lube Oil Range Organics	ND	0.15	NWTPH-Dx	12-16-21	12-16-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	97	50-150				

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	12-144-01							
	ORIG	DUP						
Diesel Range	ND	ND	NA	NA	NA	NA	NA	NA
Lube Oil Range	ND	ND	NA	NA	NA	NA	NA	NA
<i>Surrogate:</i>								
<i>o-Terphenyl</i>				99	99	50-150		



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**VOLATILE ORGANICS EPA 8260D
 QUALITY CONTROL**

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Matrix: Water

Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1215W1					
Dichlorodifluoromethane	ND	0.20	EPA 8260D	12-15-21	12-15-21	
Chloromethane	ND	1.0	EPA 8260D	12-15-21	12-15-21	
Vinyl Chloride	ND	0.20	EPA 8260D	12-15-21	12-15-21	
Bromomethane	ND	0.20	EPA 8260D	12-15-21	12-15-21	
Chloroethane	ND	1.0	EPA 8260D	12-15-21	12-15-21	
Trichlorofluoromethane	ND	0.20	EPA 8260D	12-15-21	12-15-21	
1,1-Dichloroethene	ND	0.20	EPA 8260D	12-15-21	12-15-21	
Acetone	ND	6.6	EPA 8260D	12-15-21	12-15-21	
Iodomethane	ND	5.0	EPA 8260D	12-15-21	12-15-21	
Carbon Disulfide	ND	0.26	EPA 8260D	12-15-21	12-15-21	
Methylene Chloride	ND	1.0	EPA 8260D	12-15-21	12-15-21	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	12-15-21	12-15-21	
Methyl t-Butyl Ether	ND	0.20	EPA 8260D	12-15-21	12-15-21	
1,1-Dichloroethane	ND	0.20	EPA 8260D	12-15-21	12-15-21	
Vinyl Acetate	ND	1.0	EPA 8260D	12-15-21	12-15-21	
2,2-Dichloropropane	ND	0.20	EPA 8260D	12-15-21	12-15-21	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	12-15-21	12-15-21	
2-Butanone	ND	6.3	EPA 8260D	12-15-21	12-15-21	
Bromochloromethane	ND	0.20	EPA 8260D	12-15-21	12-15-21	
Chloroform	ND	0.20	EPA 8260D	12-15-21	12-15-21	
1,1,1-Trichloroethane	ND	0.20	EPA 8260D	12-15-21	12-15-21	
Carbon Tetrachloride	ND	0.20	EPA 8260D	12-15-21	12-15-21	
1,1-Dichloropropene	ND	0.20	EPA 8260D	12-15-21	12-15-21	
Benzene	ND	0.20	EPA 8260D	12-15-21	12-15-21	
1,2-Dichloroethane	ND	0.20	EPA 8260D	12-15-21	12-15-21	
Trichloroethene	ND	0.20	EPA 8260D	12-15-21	12-15-21	
1,2-Dichloropropane	ND	0.20	EPA 8260D	12-15-21	12-15-21	
Dibromomethane	ND	0.20	EPA 8260D	12-15-21	12-15-21	
Bromodichloromethane	ND	0.20	EPA 8260D	12-15-21	12-15-21	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260D	12-15-21	12-15-21	
Methyl Isobutyl Ketone	ND	2.0	EPA 8260D	12-15-21	12-15-21	
Toluene	ND	1.0	EPA 8260D	12-15-21	12-15-21	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260D	12-15-21	12-15-21	



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**VOLATILE ORGANICS EPA 8260D
 QUALITY CONTROL**

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1215W1					
1,1,2-Trichloroethane	ND	0.20	EPA 8260D	12-15-21	12-15-21	
Tetrachloroethene	ND	0.20	EPA 8260D	12-15-21	12-15-21	
1,3-Dichloropropane	ND	0.20	EPA 8260D	12-15-21	12-15-21	
2-Hexanone	ND	2.0	EPA 8260D	12-15-21	12-15-21	
Dibromochloromethane	ND	0.20	EPA 8260D	12-15-21	12-15-21	
1,2-Dibromoethane	ND	0.20	EPA 8260D	12-15-21	12-15-21	
Chlorobenzene	ND	0.20	EPA 8260D	12-15-21	12-15-21	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260D	12-15-21	12-15-21	
Ethylbenzene	ND	0.20	EPA 8260D	12-15-21	12-15-21	
m,p-Xylene	ND	0.40	EPA 8260D	12-15-21	12-15-21	
o-Xylene	ND	0.20	EPA 8260D	12-15-21	12-15-21	
Styrene	ND	0.20	EPA 8260D	12-15-21	12-15-21	
Bromoform	ND	1.0	EPA 8260D	12-15-21	12-15-21	
Isopropylbenzene	ND	0.20	EPA 8260D	12-15-21	12-15-21	
Bromobenzene	ND	0.20	EPA 8260D	12-15-21	12-15-21	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260D	12-15-21	12-15-21	
1,2,3-Trichloropropane	ND	0.20	EPA 8260D	12-15-21	12-15-21	
n-Propylbenzene	ND	0.20	EPA 8260D	12-15-21	12-15-21	
2-Chlorotoluene	ND	0.20	EPA 8260D	12-15-21	12-15-21	
4-Chlorotoluene	ND	0.20	EPA 8260D	12-15-21	12-15-21	
1,3,5-Trimethylbenzene	ND	0.20	EPA 8260D	12-15-21	12-15-21	
tert-Butylbenzene	ND	0.20	EPA 8260D	12-15-21	12-15-21	
1,2,4-Trimethylbenzene	ND	0.20	EPA 8260D	12-15-21	12-15-21	
sec-Butylbenzene	ND	0.20	EPA 8260D	12-15-21	12-15-21	
1,3-Dichlorobenzene	ND	0.20	EPA 8260D	12-15-21	12-15-21	
p-Isopropyltoluene	ND	0.20	EPA 8260D	12-15-21	12-15-21	
1,4-Dichlorobenzene	ND	0.20	EPA 8260D	12-15-21	12-15-21	
1,2-Dichlorobenzene	ND	0.20	EPA 8260D	12-15-21	12-15-21	
n-Butylbenzene	ND	0.20	EPA 8260D	12-15-21	12-15-21	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260D	12-15-21	12-15-21	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260D	12-15-21	12-15-21	
Hexachlorobutadiene	ND	1.0	EPA 8260D	12-15-21	12-15-21	
Naphthalene	ND	1.3	EPA 8260D	12-15-21	12-15-21	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260D	12-15-21	12-15-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>103</i>	<i>75-127</i>				
<i>Toluene-d8</i>	<i>100</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>95</i>	<i>78-125</i>				



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**VOLATILE ORGANICS EPA 8260D
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD	RPD	Flags
					Recovery	Limits	RPD	Limit		
SPIKE BLANKS										
Laboratory ID:	SB1215W1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	9.17	9.30	10.0	10.0	92	93	78-125	1	19	
Benzene	9.17	9.26	10.0	10.0	92	93	80-119	1	16	
Trichloroethene	9.46	9.51	10.0	10.0	95	95	80-121	1	18	
Toluene	8.99	9.11	10.0	10.0	90	91	80-117	1	18	
Chlorobenzene	9.95	9.91	10.0	10.0	100	99	80-117	0	17	
<i>Surrogate:</i>										
Dibromofluoromethane					95	99	75-127			
Toluene-d8					98	99	80-127			
4-Bromofluorobenzene					96	98	78-125			



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**SEMIVOLATILE ORGANICS EPA 8270E/SIM
 QUALITY CONTROL**

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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1217W2					
n-Nitrosodimethylamine	ND	1.0	EPA 8270E	12-17-21	12-17-21	
Pyridine	ND	1.0	EPA 8270E	12-17-21	12-17-21	
Phenol	ND	1.0	EPA 8270E	12-17-21	12-17-21	
Aniline	ND	5.0	EPA 8270E	12-17-21	12-17-21	
bis(2-Chloroethyl)ether	ND	1.0	EPA 8270E	12-17-21	12-17-21	
2-Chlorophenol	ND	1.0	EPA 8270E	12-17-21	12-17-21	
1,3-Dichlorobenzene	ND	1.0	EPA 8270E	12-17-21	12-17-21	
1,4-Dichlorobenzene	ND	1.0	EPA 8270E	12-17-21	12-17-21	
Benzyl alcohol	ND	1.0	EPA 8270E	12-17-21	12-17-21	
1,2-Dichlorobenzene	ND	1.0	EPA 8270E	12-17-21	12-17-21	
2-Methylphenol (o-Cresol)	ND	1.0	EPA 8270E	12-17-21	12-17-21	
bis(2-Chloroisopropyl)ether	ND	1.0	EPA 8270E	12-17-21	12-17-21	
(3+4)-Methylphenol (m,p-Cresol)	ND	1.0	EPA 8270E	12-17-21	12-17-21	
n-Nitroso-di-n-propylamine	ND	1.0	EPA 8270E	12-17-21	12-17-21	
Hexachloroethane	ND	1.0	EPA 8270E	12-17-21	12-17-21	
Nitrobenzene	ND	1.0	EPA 8270E	12-17-21	12-17-21	
Isophorone	ND	1.0	EPA 8270E	12-17-21	12-17-21	
2-Nitrophenol	ND	1.0	EPA 8270E	12-17-21	12-17-21	
2,4-Dimethylphenol	ND	1.0	EPA 8270E	12-17-21	12-17-21	
bis(2-Chloroethoxy)methane	ND	1.0	EPA 8270E	12-17-21	12-17-21	
2,4-Dichlorophenol	ND	1.0	EPA 8270E	12-17-21	12-17-21	
1,2,4-Trichlorobenzene	ND	1.0	EPA 8270E	12-17-21	12-17-21	
Naphthalene	ND	0.10	EPA 8270E/SIM	12-17-21	12-17-21	
4-Chloroaniline	ND	1.0	EPA 8270E	12-17-21	12-17-21	
Hexachlorobutadiene	ND	1.0	EPA 8270E	12-17-21	12-17-21	
4-Chloro-3-methylphenol	ND	1.0	EPA 8270E	12-17-21	12-17-21	
2-Methylnaphthalene	ND	0.10	EPA 8270E/SIM	12-17-21	12-17-21	
1-Methylnaphthalene	ND	0.10	EPA 8270E/SIM	12-17-21	12-17-21	
Hexachlorocyclopentadiene	ND	1.0	EPA 8270E	12-17-21	12-17-21	
2,4,6-Trichlorophenol	ND	1.0	EPA 8270E	12-17-21	12-17-21	
2,3-Dichloroaniline	ND	1.0	EPA 8270E	12-17-21	12-17-21	
2,4,5-Trichlorophenol	ND	1.0	EPA 8270E	12-17-21	12-17-21	
2-Chloronaphthalene	ND	1.0	EPA 8270E	12-17-21	12-17-21	
2-Nitroaniline	ND	1.0	EPA 8270E	12-17-21	12-17-21	
1,4-Dinitrobenzene	ND	1.0	EPA 8270E	12-17-21	12-17-21	
Dimethylphthalate	ND	5.0	EPA 8270E	12-17-21	12-17-21	
1,3-Dinitrobenzene	ND	1.0	EPA 8270E	12-17-21	12-17-21	
2,6-Dinitrotoluene	ND	1.0	EPA 8270E	12-17-21	12-17-21	
1,2-Dinitrobenzene	ND	1.0	EPA 8270E	12-17-21	12-17-21	
Acenaphthylene	ND	0.10	EPA 8270E/SIM	12-17-21	12-17-21	
3-Nitroaniline	ND	1.0	EPA 8270E	12-17-21	12-17-21	



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**SEMIVOLATILE ORGANICS EPA 8270E/SIM
 QUALITY CONTROL**

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1217W2					
2,4-Dinitrophenol	ND	5.0	EPA 8270E	12-17-21	12-17-21	
Acenaphthene	ND	0.10	EPA 8270E/SIM	12-17-21	12-17-21	
4-Nitrophenol	ND	5.0	EPA 8270E	12-17-21	12-17-21	
2,4-Dinitrotoluene	ND	1.0	EPA 8270E	12-17-21	12-17-21	
Dibenzofuran	ND	1.0	EPA 8270E	12-17-21	12-17-21	
2,3,5,6-Tetrachlorophenol	ND	1.0	EPA 8270E	12-17-21	12-17-21	
2,3,4,6-Tetrachlorophenol	ND	1.0	EPA 8270E	12-17-21	12-17-21	
Diethylphthalate	ND	1.0	EPA 8270E	12-17-21	12-17-21	
4-Chlorophenyl-phenylether	ND	1.0	EPA 8270E	12-17-21	12-17-21	
4-Nitroaniline	ND	1.0	EPA 8270E	12-17-21	12-17-21	
Fluorene	ND	0.10	EPA 8270E/SIM	12-17-21	12-17-21	
4,6-Dinitro-2-methylphenol	ND	5.0	EPA 8270E	12-17-21	12-17-21	
n-Nitrosodiphenylamine	ND	1.0	EPA 8270E	12-17-21	12-17-21	
1,2-Diphenylhydrazine	ND	1.0	EPA 8270E	12-17-21	12-17-21	
4-Bromophenyl-phenylether	ND	1.0	EPA 8270E	12-17-21	12-17-21	
Hexachlorobenzene	ND	1.0	EPA 8270E	12-17-21	12-17-21	
Pentachlorophenol	ND	5.0	EPA 8270E	12-17-21	12-17-21	
Phenanthrene	ND	0.10	EPA 8270E/SIM	12-17-21	12-17-21	
Anthracene	ND	0.10	EPA 8270E/SIM	12-17-21	12-17-21	
Carbazole	ND	1.0	EPA 8270E	12-17-21	12-17-21	
Di-n-butylphthalate	ND	5.0	EPA 8270E	12-17-21	12-17-21	
Fluoranthene	ND	0.10	EPA 8270E/SIM	12-17-21	12-17-21	
Pyrene	ND	0.10	EPA 8270E/SIM	12-17-21	12-17-21	
Butylbenzylphthalate	ND	1.0	EPA 8270E	12-17-21	12-17-21	
bis-2-Ethylhexyladipate	ND	5.0	EPA 8270E	12-17-21	12-17-21	
3,3'-Dichlorobenzidine	ND	1.0	EPA 8270E	12-17-21	12-17-21	
Benzo[a]anthracene	ND	0.010	EPA 8270E/SIM	12-17-21	12-17-21	
Chrysene	ND	0.010	EPA 8270E/SIM	12-17-21	12-17-21	
bis(2-Ethylhexyl)phthalate	ND	5.0	EPA 8270E	12-17-21	12-17-21	
Di-n-octylphthalate	ND	1.0	EPA 8270E	12-17-21	12-17-21	
Benzo[b]fluoranthene	ND	0.010	EPA 8270E/SIM	12-17-21	12-17-21	
Benzo(j,k)fluoranthene	ND	0.010	EPA 8270E/SIM	12-17-21	12-17-21	
Benzo[a]pyrene	ND	0.010	EPA 8270E/SIM	12-17-21	12-17-21	
Indeno[1,2,3-cd]pyrene	ND	0.010	EPA 8270E/SIM	12-17-21	12-17-21	
Dibenz[a,h]anthracene	ND	0.010	EPA 8270E/SIM	12-17-21	12-17-21	
Benzo[g,h,i]perylene	ND	0.010	EPA 8270E/SIM	12-17-21	12-17-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
2-Fluorophenol	45	10 - 82				
Phenol-d6	31	10 - 92				
Nitrobenzene-d5	63	32 - 105				
2-Fluorobiphenyl	64	38 - 105				
2,4,6-Tribromophenol	84	25 - 124				
Terphenyl-d14	63	42 - 116				



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**SEMIVOLATILE ORGANICS EPA 8270E/SIM
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L

Analyte	Result		Spike Level		Source	Percent		Recovery	RPD	RPD	Flags
					Result	Recovery	Limits		Limit		
MATRIX SPIKES											
Laboratory ID:	12-151-01										
	MS	MSD	MS	MSD		MS	MSD				
Phenol	118	112	160	160	20.6	61	57	20 - 108	5		24
2-Chlorophenol	124	116	160	160	ND	78	73	24 - 105	7		32
1,4-Dichlorobenzene	58.6	54.1	80.0	80.0	ND	73	68	24 - 100	8		36
n-Nitroso-di-n-propylamine	97.6	97.7	80.0	80.0	ND	122	122	21 - 143	0		30
1,2,4-Trichlorobenzene	61.3	58.1	80.0	80.0	ND	77	73	34 - 105	5		34
4-Chloro-3-methylphenol	129	124	160	160	ND	81	78	44 - 113	4		21
Acenaphthene	68.0	64.1	80.0	80.0	ND	85	80	47 - 106	6		19
4-Nitrophenol	153	142	160	160	ND	96	89	20 - 127	7		37
2,4-Dinitrotoluene	62.1	59.6	80.0	80.0	ND	78	75	45 - 106	4		19
Pentachlorophenol	206	201	160	160	ND	129	126	20 - 136	2		39
Pyrene	61.2	57.8	80.0	80.0	ND	77	72	47 - 112	6		23
<i>Surrogate:</i>											
2-Fluorophenol						58	55	10 - 82			
Phenol-d6						61	57	10 - 92			
Nitrobenzene-d5						64	62	32 - 105			
2-Fluorobiphenyl						77	72	38 - 105			
2,4,6-Tribromophenol						83	78	25 - 124			
Terphenyl-d14						69	65	42 - 116			



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**PCBs EPA 8082A
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1216W1					
Aroclor 1016	ND	0.050	EPA 8082A	12-16-21	12-17-21	
Aroclor 1221	ND	0.050	EPA 8082A	12-16-21	12-17-21	
Aroclor 1232	ND	0.050	EPA 8082A	12-16-21	12-17-21	
Aroclor 1242	ND	0.050	EPA 8082A	12-16-21	12-17-21	
Aroclor 1248	ND	0.050	EPA 8082A	12-16-21	12-17-21	
Aroclor 1254	ND	0.050	EPA 8082A	12-16-21	12-17-21	
Aroclor 1260	ND	0.050	EPA 8082A	12-16-21	12-17-21	
Surrogate:	Percent Recovery	Control Limits				
DCB	76	42-140				

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS											
Laboratory ID:	SB1216W1										
	SB	SBD	SB	SBD		SB	SBD				
Aroclor 1260	0.415	0.419	0.500	0.500	N/A	83	84	73-131	1	12	
Surrogate:											
DCB						75	77	42-140			



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 Project: 6694-002-05 T700

**ORGANOCHLORINE
 PESTICIDES EPA 8081B
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1216W1					
alpha-BHC	ND	0.0050	EPA 8081B	12-16-21	12-16-21	
gamma-BHC (Lindane)	ND	0.0050	EPA 8081B	12-16-21	12-16-21	
beta-BHC	ND	0.0050	EPA 8081B	12-16-21	12-16-21	
delta-BHC	ND	0.0050	EPA 8081B	12-16-21	12-16-21	
Heptachlor	ND	0.0050	EPA 8081B	12-16-21	12-16-21	
Aldrin	ND	0.0020	EPA 8081B	12-16-21	12-16-21	
Heptachlor Epoxide	ND	0.0030	EPA 8081B	12-16-21	12-16-21	
gamma-Chlordane	ND	0.0050	EPA 8081B	12-16-21	12-16-21	
alpha-Chlordane	ND	0.0050	EPA 8081B	12-16-21	12-16-21	
4,4'-DDE	ND	0.0050	EPA 8081B	12-16-21	12-16-21	
Endosulfan I	ND	0.0050	EPA 8081B	12-16-21	12-16-21	
Dieldrin	ND	0.0050	EPA 8081B	12-16-21	12-16-21	
Endrin	ND	0.0050	EPA 8081B	12-16-21	12-16-21	
4,4'-DDD	ND	0.0050	EPA 8081B	12-16-21	12-16-21	
Endosulfan II	ND	0.0050	EPA 8081B	12-16-21	12-16-21	
4,4'-DDT	ND	0.0050	EPA 8081B	12-16-21	12-16-21	
Endrin Aldehyde	ND	0.0050	EPA 8081B	12-16-21	12-16-21	
Methoxychlor	ND	0.010	EPA 8081B	12-16-21	12-16-21	
Endosulfan Sulfate	ND	0.0050	EPA 8081B	12-16-21	12-16-21	
Endrin Ketone	ND	0.020	EPA 8081B	12-16-21	12-16-21	
Toxaphene	ND	0.050	EPA 8081B	12-16-21	12-16-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
TCMX	56	25-114				
DCB	75	30-137				



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**ORGANOCHLORINE
 PESTICIDES EPA 8081B
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS											
Laboratory ID:	SB1216W2										
	SB	SBD	SB	SBD		SB	SBD				
alpha-BHC	0.0792	0.0785	0.100	0.100	N/A	79	78	42-113	1	19	
gamma-BHC (Lindane)	0.0800	0.0791	0.100	0.100	N/A	80	79	45-114	1	15	
beta-BHC	0.0762	0.0742	0.100	0.100	N/A	76	74	40-118	3	15	
delta-BHC	0.0659	0.0637	0.100	0.100	N/A	66	64	20-125	3	15	
Heptachlor	0.0815	0.0770	0.100	0.100	N/A	82	77	41-120	6	16	
Aldrin	0.0774	0.0748	0.100	0.100	N/A	77	75	35-115	3	15	
Heptachlor Epoxide	0.0799	0.0766	0.100	0.100	N/A	80	77	50-118	4	15	
gamma-Chlordane	0.0802	0.0770	0.100	0.100	N/A	80	77	46-110	4	15	
alpha-Chlordane	0.0831	0.0795	0.100	0.100	N/A	83	79	38-112	4	15	
4,4'-DDE	0.0855	0.0756	0.100	0.100	N/A	85	76	41-127	12	15	
Endosulfan I	0.0874	0.0849	0.100	0.100	N/A	87	85	45-119	3	15	
Dieldrin	0.0889	0.0841	0.100	0.100	N/A	89	84	46-115	6	15	
Endrin	0.0867	0.0844	0.100	0.100	N/A	87	84	52-124	3	15	
4,4'-DDD	0.0900	0.0836	0.100	0.100	N/A	90	84	52-121	7	15	
Endosulfan II	0.0859	0.0817	0.100	0.100	N/A	86	82	44-114	5	15	
4,4'-DDT	0.0934	0.0964	0.100	0.100	N/A	93	96	48-123	3	15	
Endrin Aldehyde	0.106	0.106	0.100	0.100	N/A	106	106	45-114	0	15	
Methoxychlor	0.118	0.120	0.100	0.100	N/A	118	120	49-130	2	15	
Endosulfan Sulfate	0.0894	0.0846	0.100	0.100	N/A	89	85	39-117	6	15	
Endrin Ketone	0.0891	0.0866	0.100	0.100	N/A	89	87	53-119	3	15	
Surrogate:											
TCMX						71	66	25-114			
DCB						71	63	30-137			



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TOTAL METALS
EPA 200.7/200.8/7470A
QUALITY CONTROL

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1216WH1					
Iron	ND	56	EPA 200.7	12-16-21	12-16-21	
Magnesium	ND	1100	EPA 200.7	12-16-21	12-16-21	
Manganese	ND	11	EPA 200.7	12-16-21	12-16-21	
Laboratory ID:	MB1216WM1					
Arsenic	ND	3.3	EPA 200.8	12-16-21	12-16-21	
Cadmium	ND	4.4	EPA 200.8	12-16-21	12-16-21	
Chromium	ND	11	EPA 200.8	12-16-21	12-16-21	
Copper	ND	11	EPA 200.8	12-16-21	12-16-21	
Lead	ND	1.1	EPA 200.8	12-16-21	12-16-21	
Nickel	ND	22	EPA 200.8	12-16-21	12-16-21	
Selenium	ND	5.6	EPA 200.8	12-16-21	12-16-21	
Zinc	ND	28	EPA 200.8	12-16-21	12-16-21	
Laboratory ID:	MB1215W2					
Mercury	ND	0.025	EPA 7470A	12-15-21	12-15-21	



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TOTAL METALS
EPA 200.7/200.8/7470A
QUALITY CONTROL

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result		Spike Level		Source	Percent	Recovery	RPD		Flags
					Result	Recovery	Limits	RPD	Limit	
DUPLICATE										
Laboratory ID:	12-131-01									
	ORIG	DUP								
Iron	1280	1310	NA	NA		NA	NA	3	20	
Magnesium	50000	47300	NA	NA		NA	NA	6	20	
Manganese	2100	2020	NA	NA		NA	NA	4	20	
Laboratory ID:	12-107-07									
Arsenic	ND	ND	NA	NA		NA	NA	NA	20	
Cadmium	ND	ND	NA	NA		NA	NA	NA	20	
Chromium	ND	ND	NA	NA		NA	NA	NA	20	
Copper	13.8	13.0	NA	NA		NA	NA	5	20	
Lead	3.58	3.40	NA	NA		NA	NA	5	20	
Nickel	ND	ND	NA	NA		NA	NA	NA	20	
Selenium	ND	ND	NA	NA		NA	NA	NA	20	
Zinc	ND	ND	NA	NA		NA	NA	NA	20	
Laboratory ID:	12-108-01									
Mercury	ND	ND	NA	NA		NA	NA	NA	20	
MATRIX SPIKES										
Laboratory ID:	12-131-01									
	MS	MSD	MS	MSD		MS	MSD			
Iron	25000	24900	22200	22200	1280	107	106	75-125	0	20
Magnesium	76700	75600	22200	22200	50000	120	115	75-125	1	20
Manganese	2590	2660	556	556	2100	88	100	75-125	3	20
Laboratory ID:	12-107-07									
Arsenic	120	121	111	111	ND	108	109	75-125	1	20
Cadmium	118	120	111	111	ND	106	108	75-125	2	20
Chromium	127	132	111	111	ND	115	119	75-125	4	20
Copper	126	129	111	111	13.8	102	104	75-125	2	20
Lead	118	121	111	111	3.58	103	106	75-125	3	20
Nickel	120	125	111	111	ND	109	113	75-125	4	20
Selenium	117	119	111	111	ND	106	107	75-125	1	20
Zinc	136	140	111	111	22.4	102	106	75-125	3	20
Laboratory ID:	12-108-01									
Mercury	5.60	5.58	6.25	6.25	ND	90	89	75-125	0	20



OnSite Environmental, Inc. 14648 NE 95th Street, Redmond, WA 98052 (425) 883-3881

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

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 Samples Submitted: December 14, 2021
 Laboratory Reference: 2112-131
 Project: 6694-002-05 T700

**DISSOLVED METALS
 EPA 200.7/200.8/7470A
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1215D1					
Calcium	ND	1100	EPA 200.7		12-15-21	
Iron	ND	56	EPA 200.7		12-15-21	
Magnesium	ND	1100	EPA 200.7		12-15-21	
Manganese	ND	11	EPA 200.7		12-15-21	
Potassium	ND	1100	EPA 200.7		12-15-21	
Sodium	ND	1100	EPA 200.7		12-15-21	
Laboratory ID:	MB1215D1					
Arsenic	ND	3.0	EPA 200.8		12-15-21	
Cadmium	ND	4.0	EPA 200.8		12-15-21	
Chromium	ND	10	EPA 200.8		12-15-21	
Copper	ND	10	EPA 200.8		12-15-21	
Lead	ND	1.0	EPA 200.8		12-15-21	
Nickel	ND	20	EPA 200.8		12-15-21	
Selenium	ND	5.0	EPA 200.8		12-15-21	
Zinc	ND	25	EPA 200.8		12-15-21	
Laboratory ID:	MB1217D1					
Mercury	ND	0.025	EPA 7470A		12-17-21	



Date of Report: December 27, 2021
 Samples Submitted: December 14, 2021
 Laboratory Reference: 2112-131
 Project: 6694-002-05 T700

**DISSOLVED METALS
 EPA 200.7/200.8/7470A
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result		Spike Level		Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE										
Laboratory ID:	12-133-01									
	ORIG	DUP								
Calcium	8640	8520	NA	NA		NA	NA	1	20	
Iron	336	379	NA	NA		NA	NA	12	20	
Magnesium	4950	5000	NA	NA		NA	NA	1	20	
Manganese	120	120	NA	NA		NA	NA	0	20	
Potassium	1700	1750	NA	NA		NA	NA	3	20	
Sodium	6490	6400	NA	NA		NA	NA	1	20	
Laboratory ID:	12-131-03									
Arsenic	ND	ND	NA	NA		NA	NA	NA	20	
Cadmium	ND	ND	NA	NA		NA	NA	NA	20	
Chromium	ND	ND	NA	NA		NA	NA	NA	20	
Copper	ND	ND	NA	NA		NA	NA	NA	20	
Lead	ND	ND	NA	NA		NA	NA	NA	20	
Nickel	ND	ND	NA	NA		NA	NA	NA	20	
Selenium	ND	ND	NA	NA		NA	NA	NA	20	
Zinc	ND	ND	NA	NA		NA	NA	NA	20	
Laboratory ID:	12-108-01									
Mercury	ND	ND	NA	NA		NA	NA	NA	20	
MATRIX SPIKES										
Laboratory ID:	12-133-01									
	MS	MSD	MS	MSD		MS	MSD			
Calcium	30000	30200	22200	22200	8640	96	97	75-125	1	20
Iron	23100	23100	22200	22200	336	102	102	75-125	0	20
Magnesium	27900	27900	22200	22200	4950	103	103	75-125	0	20
Manganese	672	677	556	556	120	99	100	75-125	1	20
Potassium	24500	24600	22200	22200	1700	103	103	75-125	0	20
Sodium	27300	27300	22200	22200	6490	94	94	75-125	0	20
Laboratory ID:	12-131-03									
Arsenic	85.0	91.0	80.0	80.0	ND	106	114	75-125	7	20
Cadmium	83.8	84.0	80.0	80.0	ND	105	105	75-125	0	20
Chromium	78.8	79.4	80.0	80.0	ND	99	99	75-125	1	20
Copper	75.0	75.6	80.0	80.0	ND	94	95	75-125	1	20
Lead	78.6	78.6	80.0	80.0	ND	98	98	75-125	0	20
Nickel	84.8	85.2	80.0	80.0	ND	106	107	75-125	0	20
Selenium	92.4	93.2	80.0	80.0	ND	116	117	75-125	1	20
Zinc	83.0	82.8	80.0	80.0	ND	104	104	75-125	0	20
Laboratory ID:	12-108-01									
Mercury	5.78	5.75	6.25	6.25	ND	92	92	75-125	0	20



Date of Report: December 27, 2021
 Samples Submitted: December 14, 2021
 Laboratory Reference: 2112-131
 Project: 6694-002-05 T700

**TOTAL ALKALINITY
 SM 2320B
 QUALITY CONTROL**

Matrix: Water
 Units: mg CaCO₃/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1215W1					
Total Alkalinity	ND	2.0	SM 2320B	12-15-21	12-15-21	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	12-140-02							
	ORIG	DUP						
Total Alkalinity	76.0	76.0	NA	NA	NA	0	10	

SPIKE BLANK								
Laboratory ID:	SB1215W1							
	SB	SB		SB				
Total Alkalinity	94.0	100	NA	94	89-110	NA	NA	



Date of Report: December 27, 2021
 Samples Submitted: December 14, 2021
 Laboratory Reference: 2112-131
 Project: 6694-002-05 T700

**TOTAL BICARBONATE
 SM 2320B
 QUALITY CONTROL**

Matrix: Water
 Units: mg CaCO₃/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1215W1					
Bicarbonate Concentration	ND	2.0	SM 2320B	12-15-21	12-15-21	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	12-140-02							
	ORIG	DUP						
Total Alkalinity	76.0	76.0	NA	NA	NA	0	10	

SPIKE BLANK								
Laboratory ID:	SB1215W1							
	SB	SB		SB				
Total Alkalinity	94.0	100	NA	94	89-110	NA	NA	



Date of Report: December 27, 2021
 Samples Submitted: December 14, 2021
 Laboratory Reference: 2112-131
 Project: 6694-002-05 T700

**TOTAL DISSOLVED SOLIDS
 SM 2540C
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1217W1					
Total Dissolved Solids	ND	13	SM 2540C	12-17-21	12-20-21	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	12-133-01							
	ORIG	DUP						
Total Dissolved Solids	76.0	69.3	NA	NA	NA	9	29	

SPIKE BLANK								
Laboratory ID:	SB1217W1							
	SB	SB		SB				
Total Dissolved Solids	469	500	NA	94	84-110	NA	NA	



Date of Report: December 27, 2021
 Samples Submitted: December 14, 2021
 Laboratory Reference: 2112-131
 Project: 6694-002-05 T700

**CHLORIDE
 SM 4500-Cl E
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1220W1					
Chloride	ND	2.0	SM 4500-Cl E	12-20-21	12-20-21	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	12-133-01							
	ORIG	DUP						
Chloride	2.30	2.14	NA	NA	NA	7	15	

MATRIX SPIKE								
Laboratory ID:	12-133-01							
	MS	MS		MS				
Chloride	55.9	50.0	2.30	107	86-115	NA	NA	

SPIKE BLANK								
Laboratory ID:	SB1220W1							
	SB	SB		SB				
Chloride	52.8	50.0	NA	106	86-115	NA	NA	



Date of Report: December 27, 2021
 Samples Submitted: December 14, 2021
 Laboratory Reference: 2112-131
 Project: 6694-002-05 T700

**NITRATE (as Nitrogen)
 EPA 353.2
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L-N

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1217W1					
Nitrate	ND	0.050	EPA 353.2	12-17-21	12-17-21	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	12-133-01							
	ORIG	DUP						
Nitrate	ND	ND	NA	NA	NA	NA	16	

MATRIX SPIKE								
Laboratory ID:	12-133-01							
	MS	MS		MS				
Nitrate	2.19	2.00	ND	110	92-125	NA	NA	

SPIKE BLANK								
Laboratory ID:	SB1217W1							
	SB	SB		SB				
Nitrate	2.09	2.00	NA	105	90-121	NA	NA	



Date of Report: December 27, 2021
 Samples Submitted: December 14, 2021
 Laboratory Reference: 2112-131
 Project: 6694-002-05 T700

**SULFATE
 ASTM D516-11
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1216W1					
Sulfate	ND	5.0	ASTM D516-11	12-16-21	12-16-21	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	12-133-01							
	ORIG	DUP						
Sulfate	ND	ND	NA	NA	NA	NA	10	

MATRIX SPIKE								
Laboratory ID:	12-133-01							
	MS	MS		MS				
Sulfate	9.84	10.0	ND	98	69-139	NA	NA	

SPIKE BLANK								
Laboratory ID:	SB1216W1							
	SB	SB		SB				
Sulfate	9.80	10.0	NA	98	89-117	NA	NA	



Date of Report: December 27, 2021
 Samples Submitted: December 14, 2021
 Laboratory Reference: 2112-131
 Project: 6694-002-05 T700

**AMMONIA (as Nitrogen)
 SM 4500-NH₃ D
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1217W1					
Ammonia	ND	0.050	SM 4500-NH ₃ D	12-17-21	12-17-21	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	12-133-01							
	ORIG	DUP						
Ammonia	0.105	0.106	NA	NA	NA	1	19	

MATRIX SPIKE								
Laboratory ID:	12-133-01							
	MS	MS		MS				
Ammonia	4.90	5.00	0.105	96	80-113	NA	NA	

SPIKE BLANK								
Laboratory ID:	SB1217W1							
	SB	SB		SB				
Ammonia	4.83	5.00	NA	97	88-110	NA	NA	





Data Qualifiers and Abbreviations

- A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.
- B - The analyte indicated was also found in the blank sample.
- C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.
- E - The value reported exceeds the quantitation range and is an estimate.
- F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.
- H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.
- I - Compound recovery is outside of the control limits.
- J - The value reported was below the practical quantitation limit. The value is an estimate.
- K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.
- L - The RPD is outside of the control limits.
- M - Hydrocarbons in the gasoline range are impacting the diesel range result.
- M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.
- N - Hydrocarbons in the lube oil range are impacting the diesel range result.
- N1 - Hydrocarbons in diesel range are impacting lube oil range results.
- O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.
- P - The RPD of the detected concentrations between the two columns is greater than 40.
- Q - Surrogate recovery is outside of the control limits.
- S - Surrogate recovery data is not available due to the necessary dilution of the sample.
- T - The sample chromatogram is not similar to a typical _____.
- U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
- U1 - The practical quantitation limit is elevated due to interferences present in the sample.
- V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.
- W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.
- X - Sample extract treated with a mercury cleanup procedure.
- X1 - Sample extract treated with a sulfuric acid/silica gel cleanup procedure.
- Y - The calibration verification for this analyte exceeded the 20% drift specified in methods 8260 & 8270, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.

Z -

ND - Not Detected at PQL
 PQL - Practical Quantitation Limit
 RPD - Relative Percent Difference





OnSite Environmental Inc

David Baumeister
14648 NE 95th Street
Redmond, WA 98052

RE: 12-131

Work Order Number: 2112257

December 23, 2021

Attention David Baumeister:

Fremont Analytical, Inc. received 2 sample(s) on 12/15/2021 for the analyses presented in the following report.

Herbicides by EPA Method 8151A (GC/MS)

This report consists of the following:

- Case Narrative
- Analytical Results
- Applicable Quality Control Summary Reports
- Chain of Custody

All analyses were performed consistent with the Quality Assurance program of Fremont Analytical, Inc. Please contact the laboratory if you should have any questions about the results.

Thank you for using Fremont Analytical.

Sincerely,

Brianna Barnes
Project Manager

CLIENT: OnSite Environmental Inc
Project: 12-131
Work Order: 2112257

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received
2112257-001	MW8-211213	12/13/2021 2:00 PM	12/15/2021 1:22 PM
2112257-002	DUP-211213	12/13/2021 8:00 AM	12/15/2021 1:22 PM

DRAFT

Note: If no "Time Collected" is supplied, a default of 12:00AM is assigned

CLIENT: OnSite Environmental Inc

Project: 12-131

I. SAMPLE RECEIPT:

Samples receipt information is recorded on the attached Sample Receipt Checklist.

II. GENERAL REPORTING COMMENTS:

Results are reported on a wet weight basis unless dry-weight correction is denoted in the units field on the analytical report ("mg/kg-dry" or "ug/kg-dry").

Matrix Spike (MS) and MS Duplicate (MSD) samples are tested from an analytical batch of "like" matrix to check for possible matrix effect. The MS and MSD will provide site specific matrix data only for those samples which are spiked by the laboratory. The sample chosen for spike purposes may or may not have been a sample submitted in this sample delivery group. The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The LCS and the MB are processed with the samples and the MS/MSD to ensure method criteria are achieved throughout the entire analytical process.

III. ANALYSES AND EXCEPTIONS:

Exceptions associated with this report will be footnoted in the analytical results page(s) or the quality control summary page(s) and/or noted below.

DRAFT

Qualifiers:

- * - Flagged value is not within established control limits
- B - Analyte detected in the associated Method Blank
- D - Dilution was required
- E - Value above quantitation range
- H - Holding times for preparation or analysis exceeded
- I - Analyte with an internal standard that does not meet established acceptance criteria
- J - Analyte detected below Reporting Limit
- N - Tentatively Identified Compound (TIC)
- Q - Analyte with an initial or continuing calibration that does not meet established acceptance criteria
- S - Spike recovery outside accepted recovery limits
- ND - Not detected at the Reporting Limit
- R - High relative percent difference observed

Acronyms:

- %Rec - Percent Recovery
- CCB - Continued Calibration Blank
- CCV - Continued Calibration Verification
- DF - Dilution Factor
- DUP - Sample Duplicate
- HEM - Hexane Extractable Material
- ICV - Initial Calibration Verification
- LCS/LCSD - Laboratory Control Sample / Laboratory Control Sample Duplicate
- MCL - Maximum Contaminant Level
- MB or MBLANK - Method Blank
- MDL - Method Detection Limit
- MS/MSD - Matrix Spike / Matrix Spike Duplicate
- PDS - Post Digestion Spike
- Ref Val - Reference Value
- REP - Sample Replicate
- RL - Reporting Limit
- RPD - Relative Percent Difference
- SD - Serial Dilution
- SGT - Silica Gel Treatment
- SPK - Spike
- Surr - Surrogate



Client: OnSite Environmental Inc

Collection Date: 12/13/2021 2:00:00 PM

Project: 12-131

Lab ID: 2112257-001

Matrix: Water

Client Sample ID: MW8-211213

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Herbicides by EPA Method 8151A (GC/MS)

Batch ID: 34796

Analyst: SB

Dicamba	ND	0.994		µg/L	1	12/20/2021 1:50:44 PM
2,4-D	ND	0.994		µg/L	1	12/20/2021 1:50:44 PM
2,4-DP	ND	0.994		µg/L	1	12/20/2021 1:50:44 PM
2,4,5-TP (Silvex)	ND	0.994		µg/L	1	12/20/2021 1:50:44 PM
2,4,5-T	ND	0.994		µg/L	1	12/20/2021 1:50:44 PM
Dinoseb	ND	0.994		µg/L	1	12/20/2021 1:50:44 PM
Dalapon	ND	1.99		µg/L	1	12/20/2021 1:50:44 PM
2,4-DB	ND	0.994		µg/L	1	12/20/2021 1:50:44 PM
MCPP	ND	4.97		µg/L	1	12/20/2021 1:50:44 PM
MCPA	ND	4.97		µg/L	1	12/20/2021 1:50:44 PM
Picloram	ND	0.994		µg/L	1	12/20/2021 1:50:44 PM
Bentazon	ND	0.994		µg/L	1	12/20/2021 1:50:44 PM
Chloramben	ND	0.994		µg/L	1	12/20/2021 1:50:44 PM
Acifluorfen	ND	4.97		µg/L	1	12/20/2021 1:50:44 PM
3,5-Dichlorobenzoic acid	ND	0.994		µg/L	1	12/20/2021 1:50:44 PM
4-Nitrophenol	ND	0.994		µg/L	1	12/20/2021 1:50:44 PM
Dacthal (DCPA)	ND	1.99		µg/L	1	12/20/2021 1:50:44 PM
Surr: 2,4-Dichlorophenylacetic acid	121	62.3 - 134		%Rec	1	12/20/2021 1:50:44 PM



Client: OnSite Environmental Inc

Collection Date: 12/13/2021 8:00:00 AM

Project: 12-131

Lab ID: 2112257-002

Matrix: Water

Client Sample ID: DUP-211213

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Herbicides by EPA Method 8151A (GC/MS)

Batch ID: 34796

Analyst: SB

Dicamba	ND	1.00		µg/L	1	12/20/2021 2:11:16 PM
2,4-D	ND	1.00		µg/L	1	12/20/2021 2:11:16 PM
2,4-DP	ND	1.00		µg/L	1	12/20/2021 2:11:16 PM
2,4,5-TP (Silvex)	ND	1.00		µg/L	1	12/20/2021 2:11:16 PM
2,4,5-T	ND	1.00		µg/L	1	12/20/2021 2:11:16 PM
Dinoseb	ND	1.00		µg/L	1	12/20/2021 2:11:16 PM
Dalapon	ND	2.00		µg/L	1	12/20/2021 2:11:16 PM
2,4-DB	ND	1.00		µg/L	1	12/20/2021 2:11:16 PM
MCPP	ND	5.00		µg/L	1	12/20/2021 2:11:16 PM
MCPA	ND	5.00		µg/L	1	12/20/2021 2:11:16 PM
Picloram	ND	1.00		µg/L	1	12/20/2021 2:11:16 PM
Bentazon	ND	1.00		µg/L	1	12/20/2021 2:11:16 PM
Chloramben	ND	1.00		µg/L	1	12/20/2021 2:11:16 PM
Acifluorfen	ND	5.00		µg/L	1	12/20/2021 2:11:16 PM
3,5-Dichlorobenzoic acid	ND	1.00		µg/L	1	12/20/2021 2:11:16 PM
4-Nitrophenol	ND	1.00		µg/L	1	12/20/2021 2:11:16 PM
Dacthal (DCPA)	ND	2.00		µg/L	1	12/20/2021 2:11:16 PM
Surr: 2,4-Dichlorophenylacetic acid	111	62.3 - 134		%Rec	1	12/20/2021 2:11:16 PM

Work Order: 2112257
 CLIENT: OnSite Environmental Inc
 Project: 12-131

QC SUMMARY REPORT
Herbicides by EPA Method 8151A (GC/MS)

Sample ID: MB-34796	SampType: MBLK	Units: µg/L	Prep Date: 12/16/2021	RunNo: 72095							
Client ID: MBLKW	Batch ID: 34796		Analysis Date: 12/20/2021	SeqNo: 1470972							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Dicamba	ND	1.00									
2,4-D	ND	1.00									
2,4-DP	ND	1.00									
2,4,5-TP (Silvex)	ND	1.00									
2,4,5-T	ND	1.00									
Dinoseb	ND	1.00									
Dalapon	ND	2.00									
2,4-DB	ND	1.00									
MCPD	ND	5.00									
MCPA	ND	5.00									
Picloram	ND	1.00									
Bentazon	ND	1.00									
Chloramben	ND	1.00									
Acifluorfen	ND	5.00									
3,5-Dichlorobenzoic acid	ND	1.00									
4-Nitrophenol	ND	1.00									
Dacthal (DCPA)	ND	2.00									
Surr: 2,4-Dichlorophenylacetic acid	28.9		20.00		144	62.3	134				S

NOTES:

S - Outlying surrogate recovery(ies) observed (high bias). Sample is non-detect; result meets QC requirements.

Sample ID: LCS-34796	SampType: LCS	Units: µg/L	Prep Date: 12/16/2021	RunNo: 72095							
Client ID: LCSW	Batch ID: 34796		Analysis Date: 12/20/2021	SeqNo: 1470973							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Dicamba	3.42	1.00	4.000	0	85.6	12.4	143				
2,4-D	4.12	1.00	4.000	0	103	43.3	143				
2,4-DP	3.82	1.00	4.000	0	95.6	49.7	129				
2,4,5-TP (Silvex)	3.93	1.00	4.000	0	98.2	45.2	134				
2,4,5-T	3.96	1.00	4.000	0	99.0	43.8	133				
Dinoseb	1.87	1.00	4.000	0	46.8	5	135				

Work Order: 2112257
 CLIENT: OnSite Environmental Inc
 Project: 12-131

QC SUMMARY REPORT
Herbicides by EPA Method 8151A (GC/MS)

Sample ID: LCS-34796	SampType: LCS	Units: µg/L	Prep Date: 12/16/2021	RunNo: 72095							
Client ID: LCSW	Batch ID: 34796		Analysis Date: 12/20/2021	SeqNo: 1470973							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Dalapon	12.4	2.00	20.00	0	61.8	6.92	95.8				
2,4-DB	3.62	1.00	4.000	0	90.6	42	141				
MCPP	23.8	5.00	20.00	0	119	35	163				
MCPA	24.1	5.00	20.00	0	121	19	171				
Picloram	3.77	1.00	4.000	0	94.1	5	110				
Bentazon	3.31	1.00	4.000	0	82.7	36.1	139				
Chloramben	1.38	1.00	4.000	0	34.5	5	116				
Acifluorfen	2.28	5.00	4.000	0	57.0	8.43	153				
3,5-Dichlorobenzoic acid	3.12	1.00	4.000	0	78.0	56	122				
4-Nitrophenol	0.767	1.00	4.000	0	19.2	9.06	113				
Dacthal (DCPA)	1.53	2.00	4.000	0	38.3	5	54.3				
Surr: 2,4-Dichlorophenylacetic acid	27.1		20.00		135	62.3	134				S

NOTES:

S - Outlying surrogate recovery(ies) observed.

Sample ID: LCS-34796	SampType: LCS	Units: µg/L	Prep Date: 12/16/2021	RunNo: 72095							
Client ID: LCSW02	Batch ID: 34796		Analysis Date: 12/20/2021	SeqNo: 1470974							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Dicamba	3.46	1.00	4.000	0	86.6	12.4	143	3.424	1.17	30	
2,4-D	4.16	1.00	4.000	0	104	43.3	143	4.115	0.998	30	
2,4-DP	3.82	1.00	4.000	0	95.4	49.7	129	3.822	0.183	30	
2,4,5-TP (Silvex)	4.02	1.00	4.000	0	101	45.2	134	3.928	2.34	30	
2,4,5-T	4.01	1.00	4.000	0	100	43.8	133	3.959	1.30	30	
Dinoseb	0.880	1.00	4.000	0	22.0	5	135	1.871	72.1	30	
Dalapon	12.0	2.00	20.00	0	60.0	6.92	95.8	12.36	2.91	30	
2,4-DB	3.73	1.00	4.000	0	93.2	42	141	3.622	2.91	30	
MCPP	32.6	5.00	20.00	0	163	35	163	23.79	31.1	30	R
MCPA	32.8	5.00	20.00	0	164	19	171	24.14	30.3	30	R
Picloram	3.78	1.00	4.000	0	94.4	5	110	3.766	0.283	30	
Bentazon	3.45	1.00	4.000	0	86.2	36.1	139	3.309	4.16	30	

Work Order: 2112257
 CLIENT: OnSite Environmental Inc
 Project: 12-131

QC SUMMARY REPORT
Herbicides by EPA Method 8151A (GC/MS)

Sample ID: LCS D-34796	SampType: LCS D	Units: µg/L	Prep Date: 12/16/2021	RunNo: 72095							
Client ID: LCSW02	Batch ID: 34796		Analysis Date: 12/20/2021	SeqNo: 1470974							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloramben	1.51	1.00	4.000	0	37.8	5	116	1.379	9.33	30	
Acifluorfen	2.21	5.00	4.000	0	55.3	8.43	153	2.279	2.99	30	
3,5-Dichlorobenzoic acid	3.10	1.00	4.000	0	77.5	56	122	3.122	0.718	30	
4-Nitrophenol	1.24	1.00	4.000	0	31.0	9.06	113	0.7673	47.0	30	
Dacthal (DCPA)	1.47	2.00	4.000	0	36.8	5	54.3	1.531	3.96	30	
Surr: 2,4-Dichlorophenylacetic acid	28.4		20.00		142	62.3	134		0		S

NOTES:

R - High RPD observed, spike recovery is within range.
 S - Outlying surrogate recovery(ies) observed.

Sample ID: 2112257-001AMS	SampType: MS	Units: µg/L	Prep Date: 12/16/2021	RunNo: 72095							
Client ID: MW8-211213	Batch ID: 34796		Analysis Date: 12/20/2021	SeqNo: 1470975							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dicamba	3.07	0.997	3.986	0	77.1	32.5	139				
2,4-D	3.67	0.997	3.986	0	91.9	45.9	150				
2,4-DP	3.44	0.997	3.986	0	86.3	44.1	144				
2,4,5-TP (Silvex)	3.53	0.997	3.986	0	88.5	46.3	136				
2,4,5-T	3.58	0.997	3.986	0	89.7	37	145				
Dinoseb	2.59	0.997	3.986	0	65.1	32.1	115				
Dalapon	12.1	1.99	19.93	0	60.5	17.7	108				
2,4-DB	3.35	0.997	3.986	0	84.0	37.6	153				
MCPP	18.8	4.98	19.93	0	94.4	41.3	186				
MCPA	19.1	4.98	19.93	0	95.9	48.9	173				
Picloram	3.48	0.997	3.986	0	87.4	23.2	104				
Bentazon	2.89	0.997	3.986	0	72.5	13.2	186				
Chloramben	1.18	0.997	3.986	0	29.6	5	115				
Acifluorfen	2.56	4.98	3.986	0	64.1	27.1	141				
3,5-Dichlorobenzoic acid	2.65	0.997	3.986	0	66.4	35.3	149				
4-Nitrophenol	0.763	0.997	3.986	0	19.1	5	118				
Dacthal (DCPA)	1.26	1.99	3.986	0	31.7	5	92.5				



Work Order: 2112257
CLIENT: OnSite Environmental Inc
Project: 12-131

QC SUMMARY REPORT
Herbicides by EPA Method 8151A (GC/MS)

Sample ID: 2112257-001AMS	SampType: MS	Units: µg/L	Prep Date: 12/16/2021	RunNo: 72095							
Client ID: MW8-211213	Batch ID: 34796	Analysis Date: 12/20/2021	SeqNo: 1470975								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Surr: 2,4-Dichlorophenylacetic acid	69.8		39.86		175	62.3	134				S
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NOTES:
S - Outlying surrogate recovery(ies) observed.

DRAFT

Client Name: **ONSITE**

 Work Order Number: **2112257**

 Logged by: **Clare Griggs**

 Date Received: **12/15/2021 1:22:00 PM**

Chain of Custody

1. Is Chain of Custody complete? Yes No Not Present
2. How was the sample delivered? Client

Log In

3. Coolers are present? Yes No NA
4. Shipping container/cooler in good condition? Yes No
5. Custody Seals present on shipping container/cooler?
(Refer to comments for Custody Seals not intact) Yes No Not Present
6. Was an attempt made to cool the samples? Yes No NA
7. Were all items received at a temperature of >2°C to 6°C * Yes No NA
8. Sample(s) in proper container(s)? Yes No
9. Sufficient sample volume for indicated test(s)? Yes No
10. Are samples properly preserved? Yes No
11. Was preservative added to bottles? Yes No NA
12. Is there headspace in the VOA vials? Yes No NA
13. Did all samples containers arrive in good condition(unbroken)? Yes No
14. Does paperwork match bottle labels? Yes No
15. Are matrices correctly identified on Chain of Custody? Yes No
16. Is it clear what analyses were requested? Yes No
17. Were all holding times able to be met? Yes No

Special Handling (if applicable)

18. Was client notified of all discrepancies with this order? Yes No NA

Person Notified:	<input type="text"/>	Date:	<input type="text"/>
By Whom:	<input type="text"/>	Via:	<input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:	<input type="text"/>		
Client Instructions:	<input type="text"/>		

19. Additional remarks:

Item Information

Item #	Temp °C
Sample	5.8

* Note: DoD/ELAP and TNI require items to be received at 4°C +/- 2°C

2112257



14648 NE 95th Street, Redmond, WA 98052 · (425) 883-3881

Laboratory: Fremont Analytical
Attention: Chelsea Ward
3600 Fremont Avenue N, Seattle, WA 98103
Phone Number: (206) 352-3790

Turnaround Request
1 Day 2 Day 3 Day
Standard
Other: _____

Laboratory Reference #: 12-131
Project Manager: David Baumeister
email: dbaumeister@onsite-env.com
Project Number: 669400205
Project Name: _____

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	# of Cont.	Requested Analyses
	MW8-211213	12/13/21	14:00	W	1	Chlorinated Acid Herbicides 8151A
	DUP-211213	12/13/21	8:00	W	1	Chlorinated Acid Herbicides 8151A

Signature	Company	Date	Time	Comments/Special Instructions
Relinquished by:	COSE	12/15/21	11:30	
Received by:	Alpha	12/15/21	11:30	
Relinquished by:	Alpha	12/15/21	1:11	
Received by:	FAT	12/15/21	13:22	
Relinquished by:				
Received by:				

Chain of Custody

Company: GREENENGINEERS

Project Number: 669400205

Project Name: Go East

Project Manager: Garrett League

Sampled by: Dexter Chan

Turnaround Request (in working days)

(Check One)

Same Day 1 Day

2 Days 3 Days

Standard (7 Days)

_____ (other)

Laboratory Number: **12-131**

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	Analytical Parameters																						
						NWTPH-HCID	NWTPH-Gx/BTEX	NWTPH-Gx	NWTPH-Dx (<input type="checkbox"/> Acid / SG Clean-up)	Volatiles 8260D	Halogenated Volatiles 8260D	EDB EPA 8011 (Waters Only)	Semivolatiles 8270E/SIM (with low-level PAHs)	PAHs 8270E/SIM (low-level)	PCBs 8082A	Organochlorine Pesticides 8081B	Organophosphorus Pesticides 8270E/SIM	Chlorinated Acid Herbicides 8151A	Total RCRA Metals	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664A	TDS	total dissolved metals *	alkalinity & bicarbonate	dissolved Ca, K, Na	Measures of NH ₃	
1	MWB-21213	12/3/21	1400	W	18			X	X	X			X	X	X	X								X	X	X	X	X
2	TB-1-21213	↓	1400	W	1					X																		
3	DUP-21213	↓	0800	W	18		X	X	X			X	X	X	X									X	X	X	X	X

Signature	Company	Date	Time	Comments/Special Instructions
	Gen	12/14/21		
	Alpha	12-14-21	1327	metals
	Alpha	12-14-21	1411	As Cd Cr Cu Fe Pb Mn Hg Ni Se
	OSE	12/14/21	1411	Zn Mg
				Data Package: Standard <input type="checkbox"/> Level III <input type="checkbox"/> Level IV <input type="checkbox"/>
Reviewed/Date	Reviewed/Date			Chromatograms with final report <input type="checkbox"/> Electronic Data Deliverables (EDDs) <input type="checkbox"/>



14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

January 6, 2022

Garrett Leque
GeoEngineers, Inc.
554 West Bakerview Road
Bellingham, WA 98226

Re: Analytical Data for Project 6694-002-05 T700
Laboratory Reference No. 2112-210

Dear Garrett:

Enclosed are the analytical results and associated quality control data for samples submitted on December 20, 2021.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

A handwritten signature in black ink, appearing to read "DB", with a horizontal line extending to the right.

David Baumeister
Project Manager

Enclosures



OnSite Environmental, Inc. 14648 NE 95th Street, Redmond, WA 98052 (425) 883-3881

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: January 6, 2022
Samples Submitted: December 20, 2021
Laboratory Reference: 2112-210
Project: 6694-002-05 T700

Case Narrative

Samples were collected on December 20, 2021 and received by the laboratory on December 20, 2021. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.



Date of Report: January 6, 2022
Samples Submitted: December 20, 2021
Laboratory Reference: 2112-210
Project: 6694-002-05 T700

ANALYTICAL REPORT FOR SAMPLES

Client ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
RINSE-20211220	12-210-01	Water	12-20-21	12-20-21	

DRAFT



Date of Report: January 6, 2022
 Samples Submitted: December 20, 2021
 Laboratory Reference: 2112-210
 Project: 6694-002-05 T700

GASOLINE RANGE ORGANICS
NWTPH-Gx

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	RINSE-20211220					
Laboratory ID:	12-210-01					
Gasoline	ND	100	NWTPH-Gx	12-28-21	12-28-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	72	66-117				



Date of Report: January 6, 2022
 Samples Submitted: December 20, 2021
 Laboratory Reference: 2112-210
 Project: 6694-002-05 T700

**DIESEL AND HEAVY OIL RANGE ORGANICS
 NWTPH-Dx**

Matrix: Water
 Units: mg/L (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	RINSE-20211220					
Laboratory ID:	12-210-01					
Diesel Range Organics	ND	0.15	NWTPH-Dx	12-27-21	12-27-21	
Lube Oil Range Organics	ND	0.20	NWTPH-Dx	12-27-21	12-27-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	90	50-150				



Date of Report: January 6, 2022
 Samples Submitted: December 20, 2021
 Laboratory Reference: 2112-210
 Project: 6694-002-05 T700

VOLATILE ORGANICS EPA 8260D
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	RINSE-20211220					
Laboratory ID:	12-210-01					
Dichlorodifluoromethane	ND	0.20	EPA 8260D	12-20-21	12-20-21	
Chloromethane	ND	1.0	EPA 8260D	12-20-21	12-20-21	
Vinyl Chloride	ND	0.20	EPA 8260D	12-20-21	12-20-21	
Bromomethane	ND	0.20	EPA 8260D	12-20-21	12-20-21	
Chloroethane	ND	1.0	EPA 8260D	12-20-21	12-20-21	
Trichlorofluoromethane	ND	0.20	EPA 8260D	12-20-21	12-20-21	
1,1-Dichloroethene	ND	0.20	EPA 8260D	12-20-21	12-20-21	
Acetone	ND	5.0	EPA 8260D	12-20-21	12-20-21	
Iodomethane	ND	5.0	EPA 8260D	12-20-21	12-20-21	
Carbon Disulfide	ND	0.20	EPA 8260D	12-20-21	12-20-21	
Methylene Chloride	ND	1.0	EPA 8260D	12-20-21	12-20-21	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	12-20-21	12-20-21	
Methyl t-Butyl Ether	ND	0.20	EPA 8260D	12-20-21	12-20-21	
1,1-Dichloroethane	ND	0.20	EPA 8260D	12-20-21	12-20-21	
Vinyl Acetate	ND	1.0	EPA 8260D	12-20-21	12-20-21	
2,2-Dichloropropane	ND	0.20	EPA 8260D	12-20-21	12-20-21	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	12-20-21	12-20-21	
2-Butanone	ND	5.0	EPA 8260D	12-20-21	12-20-21	
Bromochloromethane	ND	0.20	EPA 8260D	12-20-21	12-20-21	
Chloroform	0.26	0.20	EPA 8260D	12-20-21	12-20-21	
1,1,1-Trichloroethane	ND	0.20	EPA 8260D	12-20-21	12-20-21	
Carbon Tetrachloride	ND	0.20	EPA 8260D	12-20-21	12-20-21	
1,1-Dichloropropene	ND	0.20	EPA 8260D	12-20-21	12-20-21	
Benzene	ND	0.20	EPA 8260D	12-20-21	12-20-21	
1,2-Dichloroethane	ND	0.20	EPA 8260D	12-20-21	12-20-21	
Trichloroethene	ND	0.20	EPA 8260D	12-20-21	12-20-21	
1,2-Dichloropropane	ND	0.20	EPA 8260D	12-20-21	12-20-21	
Dibromomethane	ND	0.20	EPA 8260D	12-20-21	12-20-21	
Bromodichloromethane	ND	0.20	EPA 8260D	12-20-21	12-20-21	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260D	12-20-21	12-20-21	
Methyl Isobutyl Ketone	ND	2.0	EPA 8260D	12-20-21	12-20-21	
Toluene	ND	1.0	EPA 8260D	12-20-21	12-20-21	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260D	12-20-21	12-20-21	



Date of Report: January 6, 2022
 Samples Submitted: December 20, 2021
 Laboratory Reference: 2112-210
 Project: 6694-002-05 T700

VOLATILE ORGANICS EPA 8260D
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	RINSE-20211220					
Laboratory ID:	12-210-01					
1,1,2-Trichloroethane	ND	0.20	EPA 8260D	12-20-21	12-20-21	
Tetrachloroethene	ND	0.20	EPA 8260D	12-20-21	12-20-21	
1,3-Dichloropropane	ND	0.20	EPA 8260D	12-20-21	12-20-21	
2-Hexanone	ND	2.0	EPA 8260D	12-20-21	12-20-21	
Dibromochloromethane	ND	0.20	EPA 8260D	12-20-21	12-20-21	
1,2-Dibromoethane	ND	0.20	EPA 8260D	12-20-21	12-20-21	
Chlorobenzene	ND	0.20	EPA 8260D	12-20-21	12-20-21	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260D	12-20-21	12-20-21	
Ethylbenzene	ND	0.20	EPA 8260D	12-20-21	12-20-21	
m,p-Xylene	ND	0.40	EPA 8260D	12-20-21	12-20-21	
o-Xylene	ND	0.20	EPA 8260D	12-20-21	12-20-21	
Styrene	ND	0.20	EPA 8260D	12-20-21	12-20-21	
Bromoform	ND	1.0	EPA 8260D	12-20-21	12-20-21	
Isopropylbenzene	ND	0.20	EPA 8260D	12-20-21	12-20-21	
Bromobenzene	ND	0.20	EPA 8260D	12-20-21	12-20-21	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260D	12-20-21	12-20-21	
1,2,3-Trichloropropane	ND	0.20	EPA 8260D	12-20-21	12-20-21	
n-Propylbenzene	ND	0.20	EPA 8260D	12-20-21	12-20-21	
2-Chlorotoluene	ND	0.20	EPA 8260D	12-20-21	12-20-21	
4-Chlorotoluene	ND	0.20	EPA 8260D	12-20-21	12-20-21	
1,3,5-Trimethylbenzene	ND	0.20	EPA 8260D	12-20-21	12-20-21	
tert-Butylbenzene	ND	0.20	EPA 8260D	12-20-21	12-20-21	
1,2,4-Trimethylbenzene	ND	0.20	EPA 8260D	12-20-21	12-20-21	
sec-Butylbenzene	ND	0.20	EPA 8260D	12-20-21	12-20-21	
1,3-Dichlorobenzene	ND	0.20	EPA 8260D	12-20-21	12-20-21	
p-Isopropyltoluene	ND	0.20	EPA 8260D	12-20-21	12-20-21	
1,4-Dichlorobenzene	ND	0.20	EPA 8260D	12-20-21	12-20-21	
1,2-Dichlorobenzene	ND	0.20	EPA 8260D	12-20-21	12-20-21	
n-Butylbenzene	ND	0.20	EPA 8260D	12-20-21	12-20-21	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260D	12-20-21	12-20-21	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260D	12-20-21	12-20-21	
Hexachlorobutadiene	ND	1.0	EPA 8260D	12-20-21	12-20-21	
Naphthalene	ND	1.0	EPA 8260D	12-20-21	12-20-21	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260D	12-20-21	12-20-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>102</i>	<i>75-127</i>				
<i>Toluene-d8</i>	<i>103</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>99</i>	<i>78-125</i>				



Date of Report: January 6, 2022
 Samples Submitted: December 20, 2021
 Laboratory Reference: 2112-210
 Project: 6694-002-05 T700

SEMIVOLATILE ORGANICS EPA 8270E/SIM
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	RINSE-20211220					
Laboratory ID:	12-210-01					
n-Nitrosodimethylamine	ND	0.95	EPA 8270E	12-27-21	12-28-21	
Pyridine	ND	0.95	EPA 8270E	12-27-21	12-28-21	
Phenol	ND	0.95	EPA 8270E	12-27-21	12-28-21	
Aniline	ND	4.7	EPA 8270E	12-27-21	12-28-21	
bis(2-Chloroethyl)ether	ND	0.95	EPA 8270E	12-27-21	12-28-21	
2-Chlorophenol	ND	0.95	EPA 8270E	12-27-21	12-28-21	
1,3-Dichlorobenzene	ND	0.95	EPA 8270E	12-27-21	12-28-21	
1,4-Dichlorobenzene	ND	0.95	EPA 8270E	12-27-21	12-28-21	
Benzyl alcohol	ND	0.95	EPA 8270E	12-27-21	12-28-21	
1,2-Dichlorobenzene	ND	0.95	EPA 8270E	12-27-21	12-28-21	
2-Methylphenol (o-Cresol)	ND	0.95	EPA 8270E	12-27-21	12-28-21	
bis(2-Chloroisopropyl)ether	ND	0.95	EPA 8270E	12-27-21	12-28-21	
(3+4)-Methylphenol (m,p-Cresol)	ND	0.95	EPA 8270E	12-27-21	12-28-21	
n-Nitroso-di-n-propylamine	ND	0.95	EPA 8270E	12-27-21	12-28-21	
Hexachloroethane	ND	0.95	EPA 8270E	12-27-21	12-28-21	
Nitrobenzene	ND	0.95	EPA 8270E	12-27-21	12-28-21	
Isophorone	ND	0.95	EPA 8270E	12-27-21	12-28-21	
2-Nitrophenol	ND	0.95	EPA 8270E	12-27-21	12-28-21	
2,4-Dimethylphenol	ND	0.95	EPA 8270E	12-27-21	12-28-21	
bis(2-Chloroethoxy)methane	ND	0.95	EPA 8270E	12-27-21	12-28-21	
2,4-Dichlorophenol	ND	0.95	EPA 8270E	12-27-21	12-28-21	
1,2,4-Trichlorobenzene	ND	0.95	EPA 8270E	12-27-21	12-28-21	
Naphthalene	ND	0.095	EPA 8270E/SIM	12-27-21	12-28-21	
4-Chloroaniline	ND	0.95	EPA 8270E	12-27-21	12-28-21	
Hexachlorobutadiene	ND	0.95	EPA 8270E	12-27-21	12-28-21	
4-Chloro-3-methylphenol	ND	0.95	EPA 8270E	12-27-21	12-28-21	
2-Methylnaphthalene	ND	0.095	EPA 8270E/SIM	12-27-21	12-28-21	
1-Methylnaphthalene	ND	0.095	EPA 8270E/SIM	12-27-21	12-28-21	
Hexachlorocyclopentadiene	ND	1.8	EPA 8270E	12-27-21	12-28-21	
2,4,6-Trichlorophenol	ND	0.95	EPA 8270E	12-27-21	12-28-21	
2,3-Dichloroaniline	ND	0.95	EPA 8270E	12-27-21	12-28-21	
2,4,5-Trichlorophenol	ND	0.95	EPA 8270E	12-27-21	12-28-21	
2-Chloronaphthalene	ND	0.95	EPA 8270E	12-27-21	12-28-21	
2-Nitroaniline	ND	0.95	EPA 8270E	12-27-21	12-28-21	
1,4-Dinitrobenzene	ND	0.95	EPA 8270E	12-27-21	12-28-21	
Dimethylphthalate	ND	4.7	EPA 8270E	12-27-21	12-28-21	
1,3-Dinitrobenzene	ND	0.95	EPA 8270E	12-27-21	12-28-21	
2,6-Dinitrotoluene	ND	0.95	EPA 8270E	12-27-21	12-28-21	
1,2-Dinitrobenzene	ND	0.95	EPA 8270E	12-27-21	12-28-21	
Acenaphthylene	ND	0.095	EPA 8270E/SIM	12-27-21	12-28-21	
3-Nitroaniline	ND	0.95	EPA 8270E	12-27-21	12-28-21	



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SEMIVOLATILE ORGANICS EPA 8270E/SIM
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	RINSE-20211220					
Laboratory ID:	12-210-01					
2,4-Dinitrophenol	ND	6.5	EPA 8270E	12-27-21	12-28-21	
Acenaphthene	ND	0.095	EPA 8270E/SIM	12-27-21	12-28-21	
4-Nitrophenol	ND	4.7	EPA 8270E	12-27-21	12-28-21	
2,4-Dinitrotoluene	ND	0.95	EPA 8270E	12-27-21	12-28-21	
Dibenzofuran	ND	0.95	EPA 8270E	12-27-21	12-28-21	
2,3,5,6-Tetrachlorophenol	ND	0.95	EPA 8270E	12-27-21	12-28-21	
2,3,4,6-Tetrachlorophenol	ND	0.95	EPA 8270E	12-27-21	12-28-21	
Diethylphthalate	ND	0.95	EPA 8270E	12-27-21	12-28-21	
4-Chlorophenyl-phenylether	ND	0.95	EPA 8270E	12-27-21	12-28-21	
4-Nitroaniline	ND	0.95	EPA 8270E	12-27-21	12-28-21	
Fluorene	ND	0.095	EPA 8270E/SIM	12-27-21	12-28-21	
4,6-Dinitro-2-methylphenol	ND	6.0	EPA 8270E	12-27-21	12-28-21	
n-Nitrosodiphenylamine	ND	0.95	EPA 8270E	12-27-21	12-28-21	
1,2-Diphenylhydrazine	ND	0.95	EPA 8270E	12-27-21	12-28-21	
4-Bromophenyl-phenylether	ND	0.95	EPA 8270E	12-27-21	12-28-21	
Hexachlorobenzene	ND	0.95	EPA 8270E	12-27-21	12-28-21	
Pentachlorophenol	ND	4.7	EPA 8270E	12-27-21	12-28-21	
Phenanthrene	ND	0.095	EPA 8270E/SIM	12-27-21	12-28-21	
Anthracene	ND	0.095	EPA 8270E/SIM	12-27-21	12-28-21	
Carbazole	ND	0.95	EPA 8270E	12-27-21	12-28-21	
Di-n-butylphthalate	ND	4.7	EPA 8270E	12-27-21	12-28-21	
Fluoranthene	ND	0.095	EPA 8270E/SIM	12-27-21	12-28-21	
Pyrene	ND	0.095	EPA 8270E/SIM	12-27-21	12-28-21	
Butylbenzylphthalate	ND	0.95	EPA 8270E	12-27-21	12-28-21	
bis(2-Ethylhexyl)adipate	ND	4.7	EPA 8270E	12-27-21	12-28-21	
3,3'-Dichlorobenzidine	ND	0.95	EPA 8270E	12-27-21	12-28-21	
Benzo[a]anthracene	ND	0.0095	EPA 8270E/SIM	12-27-21	12-28-21	
Chrysene	ND	0.0095	EPA 8270E/SIM	12-27-21	12-28-21	
bis(2-Ethylhexyl)phthalate	ND	4.7	EPA 8270E	12-27-21	12-28-21	
Di-n-octylphthalate	ND	0.95	EPA 8270E	12-27-21	12-28-21	
Benzo[b]fluoranthene	ND	0.0095	EPA 8270E/SIM	12-27-21	12-28-21	
Benzo(j,k)fluoranthene	ND	0.0095	EPA 8270E/SIM	12-27-21	12-28-21	
Benzo[a]pyrene	ND	0.0095	EPA 8270E/SIM	12-27-21	12-28-21	
Indeno[1,2,3-cd]pyrene	ND	0.0095	EPA 8270E/SIM	12-27-21	12-28-21	
Dibenz[a,h]anthracene	ND	0.0095	EPA 8270E/SIM	12-27-21	12-28-21	
Benzo[g,h,i]perylene	ND	0.0095	EPA 8270E/SIM	12-27-21	12-28-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
2-Fluorophenol	42	10 - 82				
Phenol-d6	28	10 - 92				
Nitrobenzene-d5	66	32 - 105				
2-Fluorobiphenyl	68	38 - 105				
2,4,6-Tribromophenol	82	25 - 124				
Terphenyl-d14	66	42 - 116				



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PCBs EPA 8082A

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	RINSE-20211220					
Laboratory ID:	12-210-01					
Aroclor 1016	ND	0.048	EPA 8082A	12-22-21	12-27-21	
Aroclor 1221	ND	0.048	EPA 8082A	12-22-21	12-27-21	
Aroclor 1232	ND	0.048	EPA 8082A	12-22-21	12-27-21	
Aroclor 1242	ND	0.048	EPA 8082A	12-22-21	12-27-21	
Aroclor 1248	ND	0.048	EPA 8082A	12-22-21	12-27-21	
Aroclor 1254	ND	0.048	EPA 8082A	12-22-21	12-27-21	
Aroclor 1260	ND	0.048	EPA 8082A	12-22-21	12-27-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>DCB</i>	83	42-140				



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**ORGANOCHLORINE
 PESTICIDES EPA 8081B**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	RINSE-20211220					
Laboratory ID:	12-210-01					
alpha-BHC	ND	0.0048	EPA 8081B	12-22-21	12-27-21	
gamma-BHC (Lindane)	ND	0.0048	EPA 8081B	12-22-21	12-27-21	
beta-BHC	ND	0.0048	EPA 8081B	12-22-21	12-27-21	
delta-BHC	ND	0.0048	EPA 8081B	12-22-21	12-27-21	
Heptachlor	ND	0.0048	EPA 8081B	12-22-21	12-27-21	
Aldrin	ND	0.0019	EPA 8081B	12-22-21	12-27-21	
Heptachlor Epoxide	ND	0.0029	EPA 8081B	12-22-21	12-27-21	
gamma-Chlordane	ND	0.0048	EPA 8081B	12-22-21	12-27-21	
alpha-Chlordane	ND	0.0048	EPA 8081B	12-22-21	12-27-21	
4,4'-DDE	ND	0.0048	EPA 8081B	12-22-21	12-27-21	
Endosulfan I	ND	0.0048	EPA 8081B	12-22-21	12-27-21	
Dieldrin	ND	0.0048	EPA 8081B	12-22-21	12-27-21	
Endrin	ND	0.0048	EPA 8081B	12-22-21	12-27-21	
4,4'-DDD	ND	0.0048	EPA 8081B	12-22-21	12-27-21	
Endosulfan II	ND	0.0048	EPA 8081B	12-22-21	12-27-21	
4,4'-DDT	ND	0.0048	EPA 8081B	12-22-21	12-27-21	
Endrin Aldehyde	ND	0.0048	EPA 8081B	12-22-21	12-27-21	
Methoxychlor	ND	0.0095	EPA 8081B	12-22-21	12-27-21	
Endosulfan Sulfate	ND	0.0048	EPA 8081B	12-22-21	12-27-21	
Endrin Ketone	ND	0.019	EPA 8081B	12-22-21	12-27-21	
Toxaphene	ND	0.048	EPA 8081B	12-22-21	12-27-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
TCMX	61	25-114				
DCB	67	30-137				



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TOTAL METALS
EPA 200.7/200.8/7470A

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	RINSE-20211220					
Laboratory ID:	12-210-01					
Arsenic	ND	3.3	EPA 200.8	12-21-21	12-21-21	
Cadmium	ND	4.4	EPA 200.8	12-21-21	12-21-21	
Chromium	ND	11	EPA 200.8	12-21-21	12-21-21	
Copper	ND	11	EPA 200.8	12-21-21	12-21-21	
Iron	ND	56	EPA 200.7	12-22-21	12-22-21	
Lead	ND	1.1	EPA 200.8	12-21-21	12-21-21	
Manganese	ND	11	EPA 200.7	12-22-21	12-22-21	
Mercury	ND	0.025	EPA 7470A	12-21-21	12-21-21	
Nickel	ND	22	EPA 200.8	12-21-21	12-21-21	
Selenium	ND	5.6	EPA 200.8	12-21-21	12-21-21	
Zinc	ND	28	EPA 200.8	12-21-21	12-21-21	



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**GASOLINE RANGE ORGANICS
 NWTPH-Gx
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1228W2					
Gasoline	ND	100	NWTPH-Gx	12-28-21	12-28-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
Fluorobenzene	78	66-117				

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	12-249-02							
	ORIG	DUP						
Gasoline	341	339	NA	NA	NA	NA	1	30
<i>Surrogate:</i>								
Fluorobenzene				78	74	66-117		



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**DIESEL AND HEAVY OIL RANGE ORGANICS
 NWTPH-Dx
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1227W1					
Diesel Range Organics	ND	0.060	NWTPH-Dx	12-27-21	12-27-21	
Lube Oil Range Organics	ND	0.080	NWTPH-Dx	12-27-21	12-27-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	100	50-150				

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	SB1227W1							
	ORIG	DUP						
Diesel Fuel #2	0.465	0.444	NA	NA	NA	NA	5	NA
<i>Surrogate:</i>								
<i>o-Terphenyl</i>			112	106	50-150			



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**VOLATILE ORGANICS EPA 8260D
 QUALITY CONTROL**

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Matrix: Water

Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1220W2					
Dichlorodifluoromethane	ND	0.20	EPA 8260D	12-20-21	12-20-21	
Chloromethane	ND	1.0	EPA 8260D	12-20-21	12-20-21	
Vinyl Chloride	ND	0.20	EPA 8260D	12-20-21	12-20-21	
Bromomethane	ND	0.20	EPA 8260D	12-20-21	12-20-21	
Chloroethane	ND	1.0	EPA 8260D	12-20-21	12-20-21	
Trichlorofluoromethane	ND	0.20	EPA 8260D	12-20-21	12-20-21	
1,1-Dichloroethene	ND	0.20	EPA 8260D	12-20-21	12-20-21	
Acetone	ND	5.0	EPA 8260D	12-20-21	12-20-21	
Iodomethane	ND	5.0	EPA 8260D	12-20-21	12-20-21	
Carbon Disulfide	ND	0.20	EPA 8260D	12-20-21	12-20-21	
Methylene Chloride	ND	1.0	EPA 8260D	12-20-21	12-20-21	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	12-20-21	12-20-21	
Methyl t-Butyl Ether	ND	0.20	EPA 8260D	12-20-21	12-20-21	
1,1-Dichloroethane	ND	0.20	EPA 8260D	12-20-21	12-20-21	
Vinyl Acetate	ND	1.0	EPA 8260D	12-20-21	12-20-21	
2,2-Dichloropropane	ND	0.20	EPA 8260D	12-20-21	12-20-21	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	12-20-21	12-20-21	
2-Butanone	ND	5.0	EPA 8260D	12-20-21	12-20-21	
Bromochloromethane	ND	0.20	EPA 8260D	12-20-21	12-20-21	
Chloroform	ND	0.20	EPA 8260D	12-20-21	12-20-21	
1,1,1-Trichloroethane	ND	0.20	EPA 8260D	12-20-21	12-20-21	
Carbon Tetrachloride	ND	0.20	EPA 8260D	12-20-21	12-20-21	
1,1-Dichloropropene	ND	0.20	EPA 8260D	12-20-21	12-20-21	
Benzene	ND	0.20	EPA 8260D	12-20-21	12-20-21	
1,2-Dichloroethane	ND	0.20	EPA 8260D	12-20-21	12-20-21	
Trichloroethene	ND	0.20	EPA 8260D	12-20-21	12-20-21	
1,2-Dichloropropane	ND	0.20	EPA 8260D	12-20-21	12-20-21	
Dibromomethane	ND	0.20	EPA 8260D	12-20-21	12-20-21	
Bromodichloromethane	ND	0.20	EPA 8260D	12-20-21	12-20-21	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260D	12-20-21	12-20-21	
Methyl Isobutyl Ketone	ND	2.0	EPA 8260D	12-20-21	12-20-21	
Toluene	ND	1.0	EPA 8260D	12-20-21	12-20-21	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260D	12-20-21	12-20-21	



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**VOLATILE ORGANICS EPA 8260D
 QUALITY CONTROL**

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1220W2					
1,1,2-Trichloroethane	ND	0.20	EPA 8260D	12-20-21	12-20-21	
Tetrachloroethene	ND	0.20	EPA 8260D	12-20-21	12-20-21	
1,3-Dichloropropane	ND	0.20	EPA 8260D	12-20-21	12-20-21	
2-Hexanone	ND	2.0	EPA 8260D	12-20-21	12-20-21	
Dibromochloromethane	ND	0.20	EPA 8260D	12-20-21	12-20-21	
1,2-Dibromoethane	ND	0.20	EPA 8260D	12-20-21	12-20-21	
Chlorobenzene	ND	0.20	EPA 8260D	12-20-21	12-20-21	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260D	12-20-21	12-20-21	
Ethylbenzene	ND	0.20	EPA 8260D	12-20-21	12-20-21	
m,p-Xylene	ND	0.40	EPA 8260D	12-20-21	12-20-21	
o-Xylene	ND	0.20	EPA 8260D	12-20-21	12-20-21	
Styrene	ND	0.20	EPA 8260D	12-20-21	12-20-21	
Bromoform	ND	1.0	EPA 8260D	12-20-21	12-20-21	
Isopropylbenzene	ND	0.20	EPA 8260D	12-20-21	12-20-21	
Bromobenzene	ND	0.20	EPA 8260D	12-20-21	12-20-21	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260D	12-20-21	12-20-21	
1,2,3-Trichloropropane	ND	0.20	EPA 8260D	12-20-21	12-20-21	
n-Propylbenzene	ND	0.20	EPA 8260D	12-20-21	12-20-21	
2-Chlorotoluene	ND	0.20	EPA 8260D	12-20-21	12-20-21	
4-Chlorotoluene	ND	0.20	EPA 8260D	12-20-21	12-20-21	
1,3,5-Trimethylbenzene	ND	0.20	EPA 8260D	12-20-21	12-20-21	
tert-Butylbenzene	ND	0.20	EPA 8260D	12-20-21	12-20-21	
1,2,4-Trimethylbenzene	ND	0.20	EPA 8260D	12-20-21	12-20-21	
sec-Butylbenzene	ND	0.20	EPA 8260D	12-20-21	12-20-21	
1,3-Dichlorobenzene	ND	0.20	EPA 8260D	12-20-21	12-20-21	
p-Isopropyltoluene	ND	0.20	EPA 8260D	12-20-21	12-20-21	
1,4-Dichlorobenzene	ND	0.20	EPA 8260D	12-20-21	12-20-21	
1,2-Dichlorobenzene	ND	0.20	EPA 8260D	12-20-21	12-20-21	
n-Butylbenzene	ND	0.20	EPA 8260D	12-20-21	12-20-21	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260D	12-20-21	12-20-21	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260D	12-20-21	12-20-21	
Hexachlorobutadiene	ND	1.0	EPA 8260D	12-20-21	12-20-21	
Naphthalene	ND	1.0	EPA 8260D	12-20-21	12-20-21	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260D	12-20-21	12-20-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>100</i>	<i>75-127</i>				
<i>Toluene-d8</i>	<i>102</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>99</i>	<i>78-125</i>				



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**VOLATILE ORGANICS EPA 8260D
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD	RPD	Flags
					SB	SBD	Limits	RPD	Limit	
SPIKE BLANKS										
Laboratory ID:	SB1220W2									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	10.7	10.2	10.0	10.0	107	102	78-125	5	19	
Benzene	10.4	9.87	10.0	10.0	104	99	80-119	5	16	
Trichloroethene	10.7	10.2	10.0	10.0	107	102	80-121	5	18	
Toluene	10.0	9.61	10.0	10.0	100	96	80-117	4	18	
Chlorobenzene	9.85	9.42	10.0	10.0	99	94	80-117	4	17	
<i>Surrogate:</i>										
Dibromofluoromethane					102	102	75-127			
Toluene-d8					103	103	80-127			
4-Bromofluorobenzene					102	101	78-125			



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**SEMIVOLATILE ORGANICS EPA 8270E/SIM
 QUALITY CONTROL**

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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1227W1					
n-Nitrosodimethylamine	ND	1.0	EPA 8270E	12-27-21	12-28-21	
Pyridine	ND	1.0	EPA 8270E	12-27-21	12-28-21	
Phenol	ND	1.0	EPA 8270E	12-27-21	12-28-21	
Aniline	ND	5.0	EPA 8270E	12-27-21	12-28-21	
bis(2-Chloroethyl)ether	ND	1.0	EPA 8270E	12-27-21	12-28-21	
2-Chlorophenol	ND	1.0	EPA 8270E	12-27-21	12-28-21	
1,3-Dichlorobenzene	ND	1.0	EPA 8270E	12-27-21	12-28-21	
1,4-Dichlorobenzene	ND	1.0	EPA 8270E	12-27-21	12-28-21	
Benzyl alcohol	ND	1.0	EPA 8270E	12-27-21	12-28-21	
1,2-Dichlorobenzene	ND	1.0	EPA 8270E	12-27-21	12-28-21	
2-Methylphenol (o-Cresol)	ND	1.0	EPA 8270E	12-27-21	12-28-21	
bis(2-Chloroisopropyl)ether	ND	1.0	EPA 8270E	12-27-21	12-28-21	
(3+4)-Methylphenol (m,p-Cresol)	ND	1.0	EPA 8270E	12-27-21	12-28-21	
n-Nitroso-di-n-propylamine	ND	1.0	EPA 8270E	12-27-21	12-28-21	
Hexachloroethane	ND	1.0	EPA 8270E	12-27-21	12-28-21	
Nitrobenzene	ND	1.0	EPA 8270E	12-27-21	12-28-21	
Isophorone	ND	1.0	EPA 8270E	12-27-21	12-28-21	
2-Nitrophenol	ND	1.0	EPA 8270E	12-27-21	12-28-21	
2,4-Dimethylphenol	ND	1.0	EPA 8270E	12-27-21	12-28-21	
bis(2-Chloroethoxy)methane	ND	1.0	EPA 8270E	12-27-21	12-28-21	
2,4-Dichlorophenol	ND	1.0	EPA 8270E	12-27-21	12-28-21	
1,2,4-Trichlorobenzene	ND	1.0	EPA 8270E	12-27-21	12-28-21	
Naphthalene	ND	0.10	EPA 8270E/SIM	12-27-21	12-28-21	
4-Chloroaniline	ND	1.0	EPA 8270E	12-27-21	12-28-21	
Hexachlorobutadiene	ND	1.0	EPA 8270E	12-27-21	12-28-21	
4-Chloro-3-methylphenol	ND	1.0	EPA 8270E	12-27-21	12-28-21	
2-Methylnaphthalene	ND	0.10	EPA 8270E/SIM	12-27-21	12-28-21	
1-Methylnaphthalene	ND	0.10	EPA 8270E/SIM	12-27-21	12-28-21	
Hexachlorocyclopentadiene	ND	1.9	EPA 8270E	12-27-21	12-28-21	
2,4,6-Trichlorophenol	ND	1.0	EPA 8270E	12-27-21	12-28-21	
2,3-Dichloroaniline	ND	1.0	EPA 8270E	12-27-21	12-28-21	
2,4,5-Trichlorophenol	ND	1.0	EPA 8270E	12-27-21	12-28-21	
2-Chloronaphthalene	ND	1.0	EPA 8270E	12-27-21	12-28-21	
2-Nitroaniline	ND	1.0	EPA 8270E	12-27-21	12-28-21	
1,4-Dinitrobenzene	ND	1.0	EPA 8270E	12-27-21	12-28-21	
Dimethylphthalate	ND	5.0	EPA 8270E	12-27-21	12-28-21	
1,3-Dinitrobenzene	ND	1.0	EPA 8270E	12-27-21	12-28-21	
2,6-Dinitrotoluene	ND	1.0	EPA 8270E	12-27-21	12-28-21	
1,2-Dinitrobenzene	ND	1.0	EPA 8270E	12-27-21	12-28-21	
Acenaphthylene	ND	0.10	EPA 8270E/SIM	12-27-21	12-28-21	
3-Nitroaniline	ND	1.0	EPA 8270E	12-27-21	12-28-21	



Date of Report: January 6, 2022
 Samples Submitted: December 20, 2021
 Laboratory Reference: 2112-210
 Project: 6694-002-05 T700

**SEMIVOLATILE ORGANICS EPA 8270E/SIM
 QUALITY CONTROL**

page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1227W1					
2,4-Dinitrophenol	ND	6.9	EPA 8270E	12-27-21	12-28-21	
Acenaphthene	ND	0.10	EPA 8270E/SIM	12-27-21	12-28-21	
4-Nitrophenol	ND	5.0	EPA 8270E	12-27-21	12-28-21	
2,4-Dinitrotoluene	ND	1.0	EPA 8270E	12-27-21	12-28-21	
Dibenzofuran	ND	1.0	EPA 8270E	12-27-21	12-28-21	
2,3,5,6-Tetrachlorophenol	ND	1.0	EPA 8270E	12-27-21	12-28-21	
2,3,4,6-Tetrachlorophenol	ND	1.0	EPA 8270E	12-27-21	12-28-21	
Diethylphthalate	ND	1.0	EPA 8270E	12-27-21	12-28-21	
4-Chlorophenyl-phenylether	ND	1.0	EPA 8270E	12-27-21	12-28-21	
4-Nitroaniline	ND	1.0	EPA 8270E	12-27-21	12-28-21	
Fluorene	ND	0.10	EPA 8270E/SIM	12-27-21	12-28-21	
4,6-Dinitro-2-methylphenol	ND	6.4	EPA 8270E	12-27-21	12-28-21	
n-Nitrosodiphenylamine	ND	1.0	EPA 8270E	12-27-21	12-28-21	
1,2-Diphenylhydrazine	ND	1.0	EPA 8270E	12-27-21	12-28-21	
4-Bromophenyl-phenylether	ND	1.0	EPA 8270E	12-27-21	12-28-21	
Hexachlorobenzene	ND	1.0	EPA 8270E	12-27-21	12-28-21	
Pentachlorophenol	ND	5.0	EPA 8270E	12-27-21	12-28-21	
Phenanthrene	ND	0.10	EPA 8270E/SIM	12-27-21	12-28-21	
Anthracene	ND	0.10	EPA 8270E/SIM	12-27-21	12-28-21	
Carbazole	ND	1.0	EPA 8270E	12-27-21	12-28-21	
Di-n-butylphthalate	ND	5.0	EPA 8270E	12-27-21	12-28-21	
Fluoranthene	ND	0.10	EPA 8270E/SIM	12-27-21	12-28-21	
Pyrene	ND	0.10	EPA 8270E/SIM	12-27-21	12-28-21	
Butylbenzylphthalate	ND	1.0	EPA 8270E	12-27-21	12-28-21	
bis-2-Ethylhexyladipate	ND	5.0	EPA 8270E	12-27-21	12-28-21	
3,3'-Dichlorobenzidine	ND	1.0	EPA 8270E	12-27-21	12-28-21	
Benzo[a]anthracene	ND	0.010	EPA 8270E/SIM	12-27-21	12-28-21	
Chrysene	ND	0.010	EPA 8270E/SIM	12-27-21	12-28-21	
bis(2-Ethylhexyl)phthalate	ND	5.0	EPA 8270E	12-27-21	12-28-21	
Di-n-octylphthalate	ND	1.0	EPA 8270E	12-27-21	12-28-21	
Benzo[b]fluoranthene	ND	0.010	EPA 8270E/SIM	12-27-21	12-28-21	
Benzo(j,k)fluoranthene	ND	0.010	EPA 8270E/SIM	12-27-21	12-28-21	
Benzo[a]pyrene	ND	0.010	EPA 8270E/SIM	12-27-21	12-28-21	
Indeno[1,2,3-cd]pyrene	ND	0.010	EPA 8270E/SIM	12-27-21	12-28-21	
Dibenz[a,h]anthracene	ND	0.010	EPA 8270E/SIM	12-27-21	12-28-21	
Benzo[g,h,i]perylene	ND	0.010	EPA 8270E/SIM	12-27-21	12-28-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
2-Fluorophenol	42	10 - 82				
Phenol-d6	30	10 - 92				
Nitrobenzene-d5	60	32 - 105				
2-Fluorobiphenyl	64	38 - 105				
2,4,6-Tribromophenol	87	25 - 124				
Terphenyl-d14	68	42 - 116				



Date of Report: January 6, 2022
 Samples Submitted: December 20, 2021
 Laboratory Reference: 2112-210
 Project: 6694-002-05 T700

**SEMIVOLATILE ORGANICS EPA 8270E/SIM
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L

Analyte	Result		Spike Level		Source	Percent		Recovery	RPD	RPD	Flags
					Result	Recovery	Limits			Limit	
MATRIX SPIKES											
Laboratory ID:	12-259-01										
	MS	MSD	MS	MSD		MS	MSD				
Phenol	65.2	62.6	160	160	ND	41	39	20 - 108	4	24	
2-Chlorophenol	116	116	160	160	ND	73	73	24 - 105	0	32	
1,4-Dichlorobenzene	53.0	52.0	80.0	80.0	ND	66	65	24 - 100	2	36	
n-Nitroso-di-n-propylamine	72.9	75.0	80.0	80.0	ND	91	94	21 - 143	3	30	
1,2,4-Trichlorobenzene	56.9	57.6	80.0	80.0	ND	71	72	34 - 105	1	34	
4-Chloro-3-methylphenol	123	127	160	160	ND	77	79	44 - 113	3	21	
Acenaphthene	66.3	70.2	80.0	80.0	ND	83	88	47 - 106	6	19	
4-Nitrophenol	132	136	160	160	ND	83	85	20 - 127	3	37	
2,4-Dinitrotoluene	60.0	61.5	80.0	80.0	ND	75	77	45 - 106	2	19	
Pentachlorophenol	183	191	160	160	ND	114	119	20 - 136	4	39	
Pyrene	61.0	64.6	80.0	80.0	ND	76	81	47 - 112	6	23	
<i>Surrogate:</i>											
2-Fluorophenol						56	56	10 - 82			
Phenol-d6						32	31	10 - 92			
Nitrobenzene-d5						61	62	32 - 105			
2-Fluorobiphenyl						73	76	38 - 105			
2,4,6-Tribromophenol						78	83	25 - 124			
Terphenyl-d14						68	72	42 - 116			



Date of Report: January 6, 2022
 Samples Submitted: December 20, 2021
 Laboratory Reference: 2112-210
 Project: 6694-002-05 T700

**PCBs EPA 8082A
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1222W2					
Aroclor 1016	ND	0.050	EPA 8082A	12-22-21	12-27-21	
Aroclor 1221	ND	0.050	EPA 8082A	12-22-21	12-27-21	
Aroclor 1232	ND	0.050	EPA 8082A	12-22-21	12-27-21	
Aroclor 1242	ND	0.050	EPA 8082A	12-22-21	12-27-21	
Aroclor 1248	ND	0.050	EPA 8082A	12-22-21	12-27-21	
Aroclor 1254	ND	0.050	EPA 8082A	12-22-21	12-27-21	
Aroclor 1260	ND	0.050	EPA 8082A	12-22-21	12-27-21	
Surrogate:	Percent Recovery	Control Limits				
DCB	89	42-140				

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS											
Laboratory ID:	SB1222W2										
	SB	SBD	SB	SBD		SB	SBD				
Aroclor 1260	0.426	0.432	0.500	0.500	N/A	85	86	73-131	1	12	
Surrogate:											
DCB						86	88	42-140			



Date of Report: January 6, 2022
 Samples Submitted: December 20, 2021
 Laboratory Reference: 2112-210
 Project: 6694-002-05 T700

**ORGANOCHLORINE
 PESTICIDES EPA 8081B
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1222W2					
alpha-BHC	ND	0.0050	EPA 8081B	12-22-21	12-27-21	
gamma-BHC (Lindane)	ND	0.0050	EPA 8081B	12-22-21	12-27-21	
beta-BHC	ND	0.0050	EPA 8081B	12-22-21	12-27-21	
delta-BHC	ND	0.0050	EPA 8081B	12-22-21	12-27-21	
Heptachlor	ND	0.0050	EPA 8081B	12-22-21	12-27-21	
Aldrin	ND	0.0020	EPA 8081B	12-22-21	12-27-21	
Heptachlor Epoxide	ND	0.0030	EPA 8081B	12-22-21	12-27-21	
gamma-Chlordane	ND	0.0050	EPA 8081B	12-22-21	12-27-21	
alpha-Chlordane	ND	0.0050	EPA 8081B	12-22-21	12-27-21	
4,4'-DDE	ND	0.0050	EPA 8081B	12-22-21	12-27-21	
Endosulfan I	ND	0.0050	EPA 8081B	12-22-21	12-27-21	
Dieldrin	ND	0.0050	EPA 8081B	12-22-21	12-27-21	
Endrin	ND	0.0050	EPA 8081B	12-22-21	12-27-21	
4,4'-DDD	ND	0.0050	EPA 8081B	12-22-21	12-27-21	
Endosulfan II	ND	0.0050	EPA 8081B	12-22-21	12-27-21	
4,4'-DDT	ND	0.0050	EPA 8081B	12-22-21	12-27-21	
Endrin Aldehyde	ND	0.0050	EPA 8081B	12-22-21	12-27-21	
Methoxychlor	ND	0.010	EPA 8081B	12-22-21	12-27-21	
Endosulfan Sulfate	ND	0.0050	EPA 8081B	12-22-21	12-27-21	
Endrin Ketone	ND	0.020	EPA 8081B	12-22-21	12-27-21	
Toxaphene	ND	0.050	EPA 8081B	12-22-21	12-27-21	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
TCMX	57	25-114				
DCB	71	30-137				



Date of Report: January 6, 2022
 Samples Submitted: December 20, 2021
 Laboratory Reference: 2112-210
 Project: 6694-002-05 T700

**ORGANOCHLORINE
 PESTICIDES EPA 8081B
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS											
Laboratory ID:	SB1222W3										
	SB	SBD	SB	SBD		SB	SBD				
alpha-BHC	0.0769	0.0729	0.100	0.100	N/A	77	73	42-113	5	19	
gamma-BHC (Lindane)	0.0780	0.0750	0.100	0.100	N/A	78	75	45-114	4	15	
beta-BHC	0.0752	0.0708	0.100	0.100	N/A	75	71	40-118	6	15	
delta-BHC	0.0645	0.0587	0.100	0.100	N/A	65	59	20-125	9	15	
Heptachlor	0.0727	0.0698	0.100	0.100	N/A	73	70	41-120	4	16	
Aldrin	0.0674	0.0669	0.100	0.100	N/A	67	67	35-115	1	15	
Heptachlor Epoxide	0.0788	0.0726	0.100	0.100	N/A	79	73	50-118	8	15	
gamma-Chlordane	0.0718	0.0686	0.100	0.100	N/A	72	69	46-110	5	15	
alpha-Chlordane	0.0714	0.0658	0.100	0.100	N/A	71	66	38-112	8	15	
4,4'-DDE	0.0765	0.0714	0.100	0.100	N/A	77	71	41-127	7	15	
Endosulfan I	0.0825	0.0770	0.100	0.100	N/A	82	77	45-119	7	15	
Dieldrin	0.0807	0.0769	0.100	0.100	N/A	81	77	46-115	5	15	
Endrin	0.0813	0.0783	0.100	0.100	N/A	81	78	52-124	4	15	
4,4'-DDD	0.0859	0.0820	0.100	0.100	N/A	86	82	52-121	5	15	
Endosulfan II	0.0836	0.0784	0.100	0.100	N/A	84	78	44-114	6	15	
4,4'-DDT	0.0894	0.0882	0.100	0.100	N/A	89	88	48-123	1	15	
Endrin Aldehyde	0.0985	0.0937	0.100	0.100	N/A	99	94	45-114	5	15	
Methoxychlor	0.102	0.102	0.100	0.100	N/A	102	102	49-130	0	15	
Endosulfan Sulfate	0.0817	0.0777	0.100	0.100	N/A	82	78	39-117	5	15	
Endrin Ketone	0.0827	0.0795	0.100	0.100	N/A	83	79	53-119	4	15	
Surrogate:											
TCMX						67	60	25-114			
DCB						65	58	30-137			



Date of Report: January 6, 2022
 Samples Submitted: December 20, 2021
 Laboratory Reference: 2112-210
 Project: 6694-002-05 T700

**TOTAL METALS
 EPA 200.7/200.8/7470A
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1222WH2					
Iron	ND	56	EPA 200.7	12-22-21	12-22-21	
Manganese	ND	11	EPA 200.7	12-22-21	12-22-21	
Laboratory ID:	MB1221WM1					
Arsenic	ND	3.3	EPA 200.8	12-21-21	12-21-21	
Cadmium	ND	4.4	EPA 200.8	12-21-21	12-21-21	
Chromium	ND	11	EPA 200.8	12-21-21	12-21-21	
Copper	ND	11	EPA 200.8	12-21-21	12-21-21	
Lead	ND	1.1	EPA 200.8	12-21-21	12-21-21	
Nickel	ND	22	EPA 200.8	12-21-21	12-21-21	
Selenium	ND	5.6	EPA 200.8	12-21-21	12-21-21	
Zinc	ND	28	EPA 200.8	12-21-21	12-21-21	
Laboratory ID:	MB1221W2					
Mercury	ND	0.025	EPA 7470A	12-21-21	12-21-21	



Date of Report: January 6, 2022
 Samples Submitted: December 20, 2021
 Laboratory Reference: 2112-210
 Project: 6694-002-05 T700

TOTAL METALS
EPA 200.7/200.8/7470A
QUALITY CONTROL

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result		Spike Level		Source	Percent	Recovery	RPD	Flags	
	Result	Result	Result	Result	Result	Recovery	Limits	RPD		
DUPLICATE										
Laboratory ID:	12-210-01									
	ORIG	DUP								
Iron	ND	ND	NA	NA		NA	NA	NA	20	
Manganese	ND	ND	NA	NA		NA	NA	NA	20	
Laboratory ID:	12-188-09									
Arsenic	ND	ND	NA	NA		NA	NA	NA	20	
Cadmium	ND	ND	NA	NA		NA	NA	NA	20	
Chromium	ND	ND	NA	NA		NA	NA	NA	20	
Copper	ND	ND	NA	NA		NA	NA	NA	20	
Lead	ND	ND	NA	NA		NA	NA	NA	20	
Nickel	ND	ND	NA	NA		NA	NA	NA	20	
Selenium	ND	ND	NA	NA		NA	NA	NA	20	
Zinc	ND	ND	NA	NA		NA	NA	NA	20	
Laboratory ID:	12-210-01									
Mercury	ND	ND	NA	NA		NA	NA	NA	20	
MATRIX SPIKES										
Laboratory ID:	12-210-01									
	MS	MSD	MS	MSD		MS	MSD			
Iron	24100	23800	22200	22200	ND	109	107	75-125	1	20
Manganese	603	592	556	556	ND	109	107	75-125	2	20
Laboratory ID:	12-188-09									
Arsenic	119	124	111	111	ND	108	111	75-125	3	20
Cadmium	118	121	111	111	ND	107	109	75-125	2	20
Chromium	116	121	111	111	ND	105	109	75-125	4	20
Copper	114	118	111	111	ND	103	106	75-125	3	20
Lead	117	119	111	111	ND	106	107	75-125	2	20
Nickel	115	120	111	111	ND	104	108	75-125	4	20
Selenium	114	115	111	111	ND	103	103	75-125	0	20
Zinc	119	120	111	111	ND	107	108	75-125	1	20
Laboratory ID:	12-210-01									
Mercury	5.83	6.03	6.25	6.25	ND	93	96	75-125	3	20





Data Qualifiers and Abbreviations

- A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.
 - B - The analyte indicated was also found in the blank sample.
 - C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.
 - E - The value reported exceeds the quantitation range and is an estimate.
 - F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.
 - H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.
 - I - Compound recovery is outside of the control limits.
 - J - The value reported was below the practical quantitation limit. The value is an estimate.
 - K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.
 - L - The RPD is outside of the control limits.
 - M - Hydrocarbons in the gasoline range are impacting the diesel range result.
 - M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.
 - N - Hydrocarbons in the lube oil range are impacting the diesel range result.
 - N1 - Hydrocarbons in diesel range are impacting lube oil range results.
 - O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.
 - P - The RPD of the detected concentrations between the two columns is greater than 40.
 - Q - Surrogate recovery is outside of the control limits.
 - S - Surrogate recovery data is not available due to the necessary dilution of the sample.
 - T - The sample chromatogram is not similar to a typical _____.
 - U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
 - U1 - The practical quantitation limit is elevated due to interferences present in the sample.
 - V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.
 - W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.
 - X - Sample extract treated with a mercury cleanup procedure.
 - X1 - Sample extract treated with a sulfuric acid/silica gel cleanup procedure.
 - Y - The calibration verification for this analyte exceeded the 20% drift specified in methods 8260 & 8270, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.
 - Z -
- ND - Not Detected at PQL
 PQL - Practical Quantitation Limit
 RPD - Relative Percent Difference





OnSite Environmental Inc

David Baumeister
14648 NE 95th Street
Redmond, WA 98052

RE: 12-210

Work Order Number: 2112356

January 06, 2022

Attention David Baumeister:

Fremont Analytical, Inc. received 1 sample(s) on 12/21/2021 for the analyses presented in the following report.

Herbicides by EPA Method 8151A (GC/MS)

This report consists of the following:

- Case Narrative
- Analytical Results
- Applicable Quality Control Summary Reports
- Chain of Custody

All analyses were performed consistent with the Quality Assurance program of Fremont Analytical, Inc. Please contact the laboratory if you should have any questions about the results.

Thank you for using Fremont Analytical.

Sincerely,

Brianna Barnes
Project Manager



CLIENT: OnSite Environmental Inc
Project: 12-210
Work Order: 2112356

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received
2112356-001	RINSE-20211220	12/20/2021 1:40 PM	12/21/2021 12:33 PM

DRAFT

Note: If no "Time Collected" is supplied, a default of 12:00AM is assigned

CLIENT: OnSite Environmental Inc

Project: 12-210

I. SAMPLE RECEIPT:

Samples receipt information is recorded on the attached Sample Receipt Checklist.

II. GENERAL REPORTING COMMENTS:

Results are reported on a wet weight basis unless dry-weight correction is denoted in the units field on the analytical report ("mg/kg-dry" or "ug/kg-dry").

Matrix Spike (MS) and MS Duplicate (MSD) samples are tested from an analytical batch of "like" matrix to check for possible matrix effect. The MS and MSD will provide site specific matrix data only for those samples which are spiked by the laboratory. The sample chosen for spike purposes may or may not have been a sample submitted in this sample delivery group. The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The LCS and the MB are processed with the samples and the MS/MSD to ensure method criteria are achieved throughout the entire analytical process.

III. ANALYSES AND EXCEPTIONS:

Exceptions associated with this report will be footnoted in the analytical results page(s) or the quality control summary page(s) and/or noted below.

DRAFT



Qualifiers:

- * - Flagged value is not within established control limits
- B - Analyte detected in the associated Method Blank
- D - Dilution was required
- E - Value above quantitation range
- H - Holding times for preparation or analysis exceeded
- I - Analyte with an internal standard that does not meet established acceptance criteria
- J - Analyte detected below Reporting Limit
- N - Tentatively Identified Compound (TIC)
- Q - Analyte with an initial or continuing calibration that does not meet established acceptance criteria
- S - Spike recovery outside accepted recovery limits
- ND - Not detected at the Reporting Limit
- R - High relative percent difference observed

Acronyms:

- %Rec - Percent Recovery
- CCB - Continued Calibration Blank
- CCV - Continued Calibration Verification
- DF - Dilution Factor
- DUP - Sample Duplicate
- HEM - Hexane Extractable Material
- ICV - Initial Calibration Verification
- LCS/LCSD - Laboratory Control Sample / Laboratory Control Sample Duplicate
- MCL - Maximum Contaminant Level
- MB or MBLANK - Method Blank
- MDL - Method Detection Limit
- MS/MSD - Matrix Spike / Matrix Spike Duplicate
- PDS - Post Digestion Spike
- Ref Val - Reference Value
- REP - Sample Replicate
- RL - Reporting Limit
- RPD - Relative Percent Difference
- SD - Serial Dilution
- SGT - Silica Gel Treatment
- SPK - Spike
- Surr - Surrogate



Client: OnSite Environmental Inc

Collection Date: 12/20/2021 1:40:00 PM

Project: 12-210

Lab ID: 2112356-001

Matrix: Water

Client Sample ID: RINSE-20211220

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Herbicides by EPA Method 8151A (GC/MS)

Batch ID: 34869

Analyst: SB

Dicamba	ND	0.967		µg/L	1	1/5/2022 1:03:15 PM
2,4-D	ND	0.967		µg/L	1	1/5/2022 1:03:15 PM
2,4-DP	ND	0.967		µg/L	1	1/5/2022 1:03:15 PM
2,4,5-TP (Silvex)	ND	0.967		µg/L	1	1/5/2022 1:03:15 PM
2,4,5-T	ND	0.967		µg/L	1	1/5/2022 1:03:15 PM
Dinoseb	ND	0.967		µg/L	1	1/5/2022 1:03:15 PM
Dalapon	ND	1.93		µg/L	1	1/5/2022 1:03:15 PM
2,4-DB	ND	0.967		µg/L	1	1/5/2022 1:03:15 PM
MCPP	ND	4.84		µg/L	1	1/5/2022 1:03:15 PM
MCPA	ND	4.84		µg/L	1	1/5/2022 1:03:15 PM
Picloram	ND	0.967		µg/L	1	1/5/2022 1:03:15 PM
Bentazon	ND	0.967		µg/L	1	1/5/2022 1:03:15 PM
Chloramben	ND	0.967		µg/L	1	1/5/2022 1:03:15 PM
Acifluorfen	ND	4.84		µg/L	1	1/5/2022 1:03:15 PM
3,5-Dichlorobenzoic acid	ND	0.967		µg/L	1	1/5/2022 1:03:15 PM
4-Nitrophenol	ND	0.967		µg/L	1	1/5/2022 1:03:15 PM
Dacthal (DCPA)	ND	1.93		µg/L	1	1/5/2022 1:03:15 PM
Surr: 2,4-Dichlorophenylacetic acid	105	62.3 - 134		%Rec	1	1/5/2022 1:03:15 PM

Work Order: 2112356
 CLIENT: OnSite Environmental Inc
 Project: 12-210

QC SUMMARY REPORT
Herbicides by EPA Method 8151A (GC/MS)

Sample ID: MB-34869	SampType: MBLK	Units: µg/L	Prep Date: 12/27/2021	RunNo: 72391							
Client ID: MBLKW	Batch ID: 34869		Analysis Date: 1/5/2022	SeqNo: 1478009							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Dicamba	ND	1.00									
2,4-D	ND	1.00									
2,4-DP	ND	1.00									
2,4,5-TP (Silvex)	ND	1.00									
2,4,5-T	ND	1.00									
Dinoseb	ND	1.00									
Dalapon	ND	2.00									
2,4-DB	ND	1.00									
MCPP	ND	5.00									
MCPA	ND	5.00									
Picloram	ND	1.00									
Bentazon	ND	1.00									
Chloramben	ND	1.00									
Acifluorfen	ND	5.00									
3,5-Dichlorobenzoic acid	ND	1.00									
4-Nitrophenol	ND	1.00									
Dacthal (DCPA)	ND	2.00									
Surr: 2,4-Dichlorophenylacetic acid	20.7		20.00		104	62.3	134				

Sample ID: LCS-34869	SampType: LCS	Units: µg/L	Prep Date: 12/27/2021	RunNo: 72391							
Client ID: LCSW	Batch ID: 34869		Analysis Date: 1/5/2022	SeqNo: 1478010							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Dicamba	3.04	1.00	4.000	0	75.9	12.4	143				
2,4-D	3.67	1.00	4.000	0	91.8	43.3	143				
2,4-DP	3.29	1.00	4.000	0	82.4	49.7	129				
2,4,5-TP (Silvex)	3.46	1.00	4.000	0	86.5	45.2	134				
2,4,5-T	3.48	1.00	4.000	0	86.9	43.8	133				
Dinoseb	0.396	1.00	4.000	0	9.89	5	135				
Dalapon	11.2	2.00	20.00	0	55.9	6.92	95.8				

Work Order: 2112356
 CLIENT: OnSite Environmental Inc
 Project: 12-210

QC SUMMARY REPORT
Herbicides by EPA Method 8151A (GC/MS)

Sample ID: LCS-34869	SampType: LCS	Units: µg/L				Prep Date: 12/27/2021	RunNo: 72391				
Client ID: LCSW	Batch ID: 34869					Analysis Date: 1/5/2022	SeqNo: 1478010				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
2,4-DB	3.22	1.00	4.000	0	80.6	42	141				
MCPP	32.1	5.00	20.00	0	161	35	163				
MCPA	32.2	5.00	20.00	0	161	19	171				
Picloram	3.33	1.00	4.000	0	83.3	5	110				
Bentazon	2.75	1.00	4.000	0	68.9	36.1	139				
Chloramben	0.912	1.00	4.000	0	22.8	5	116				
Acifluorfen	1.15	5.00	4.000	0	28.7	8.43	153				
3,5-Dichlorobenzoic acid	2.69	1.00	4.000	0	67.4	56	122				
4-Nitrophenol	0.589	1.00	4.000	0	14.7	9.06	113				
Dacthal (DCPA)	1.11	2.00	4.000	0	27.6	5	54.3				
Surr: 2,4-Dichlorophenylacetic acid	18.0		20.00		90.1	62.3	134				

Sample ID: LCS-34869	SampType: LCS	Units: µg/L				Prep Date: 12/27/2021	RunNo: 72391				
Client ID: LCSW02	Batch ID: 34869					Analysis Date: 1/5/2022	SeqNo: 1478011				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dicamba	3.22	1.00	4.000	0	80.4	12.4	143	3.036	5.82	30	
2,4-D	3.91	1.00	4.000	0	97.8	43.3	143	3.673	6.34	30	
2,4-DP	3.49	1.00	4.000	0	87.2	49.7	129	3.295	5.70	30	
2,4,5-TP (Silvex)	3.69	1.00	4.000	0	92.3	45.2	134	3.459	6.52	30	
2,4,5-T	3.70	1.00	4.000	0	92.4	43.8	133	3.477	6.11	30	
Dinoseb	1.20	1.00	4.000	0	29.9	5	135	0.3955	101	30	
Dalapon	12.9	2.00	20.00	0	64.6	6.92	95.8	11.19	14.3	30	
2,4-DB	3.42	1.00	4.000	0	85.4	42	141	3.224	5.77	30	
MCPP	29.2	5.00	20.00	0	146	35	163	32.14	9.63	30	
MCPA	29.1	5.00	20.00	0	145	19	171	32.24	10.4	30	
Picloram	3.54	1.00	4.000	0	88.5	5	110	3.331	6.09	30	
Bentazon	3.09	1.00	4.000	0	77.2	36.1	139	2.754	11.4	30	
Chloramben	1.13	1.00	4.000	0	28.3	5	116	0.9123	21.4	30	
Acifluorfen	1.27	5.00	4.000	0	31.7	8.43	153	1.150	9.95	30	

Work Order: 2112356
 CLIENT: OnSite Environmental Inc
 Project: 12-210

QC SUMMARY REPORT
Herbicides by EPA Method 8151A (GC/MS)

Sample ID: LCS D-34869	SampType: LCS D	Units: µg/L	Prep Date: 12/27/2021	RunNo: 72391							
Client ID: LCS W02	Batch ID: 34869		Analysis Date: 1/5/2022	SeqNo: 1478011							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
3,5-Dichlorobenzoic acid	2.91	1.00	4.000	0	72.6	56	122	2.695	7.52	30	
4-Nitrophenol	0.739	1.00	4.000	0	18.5	9.06	113	0.5887	22.6	30	
Dacthal (DCPA)	1.20	2.00	4.000	0	30.1	5	54.3	1.105	8.47	30	
Surr: 2,4-Dichlorophenylacetic acid	20.3		20.00		102	62.3	134		0		

Sample ID: 2112356-001AMS	SampType: MS	Units: µg/L	Prep Date: 12/27/2021	RunNo: 72391							
Client ID: RINSE-20211220	Batch ID: 34869		Analysis Date: 1/5/2022	SeqNo: 1478013							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dicamba	3.74	0.960	3.840	0	97.3	32.5	139				
2,4-D	4.58	0.960	3.840	0	119	45.9	150				
2,4-DP	4.14	0.960	3.840	0	108	44.1	144				
2,4,5-TP (Silvex)	4.33	0.960	3.840	0	113	46.3	136				
2,4,5-T	4.48	0.960	3.840	0	117	37	145				
Dinoseb	2.16	0.960	3.840	0	56.1	32.1	115				
Dalapon	14.4	1.92	19.20	0	75.0	17.7	108				
2,4-DB	4.08	0.960	3.840	0	106	37.6	153				
MCPP	42.0	4.80	19.20	0	219	41.3	186				S
MCPA	42.1	4.80	19.20	0	219	48.9	173				S
Picloram	4.02	0.960	3.840	0	105	23.2	104				S
Bentazon	3.69	0.960	3.840	0	96.2	13.2	186				
Chloramben	1.19	0.960	3.840	0	30.9	5	115				
Acifluorfen	1.98	4.80	3.840	0	51.6	27.1	141				
3,5-Dichlorobenzoic acid	3.51	0.960	3.840	0	91.4	35.3	149				
4-Nitrophenol	1.09	0.960	3.840	0	28.4	5	118				
Dacthal (DCPA)	1.33	1.92	3.840	0	34.6	5	92.5				
Surr: 2,4-Dichlorophenylacetic acid	23.9		19.20		124	62.3	134				

NOTES:

S - Spike recovery indicates a possible matrix effect.

Client Name: **ONSITE**

 Work Order Number: **2112356**

 Logged by: **Gabrielle Coeuille**

 Date Received: **12/21/2021 12:33:00 PM**
Chain of Custody

1. Is Chain of Custody complete? Yes No Not Present
2. How was the sample delivered? Courier

Log In

3. Coolers are present? Yes No NA
4. Shipping container/cooler in good condition? Yes No
5. Custody Seals present on shipping container/cooler?
(Refer to comments for Custody Seals not intact) Yes No Not Present
6. Was an attempt made to cool the samples? Yes No NA
7. Were all items received at a temperature of >2°C to 6°C * Yes No NA
8. Sample(s) in proper container(s)? Yes No
9. Sufficient sample volume for indicated test(s)? Yes No
10. Are samples properly preserved? Yes No
11. Was preservative added to bottles? Yes No NA
12. Is there headspace in the VOA vials? Yes No NA
13. Did all samples containers arrive in good condition(unbroken)? Yes No
14. Does paperwork match bottle labels? Yes No
15. Are matrices correctly identified on Chain of Custody? Yes No
16. Is it clear what analyses were requested? Yes No
17. Were all holding times able to be met? Yes No

Special Handling (if applicable)

18. Was client notified of all discrepancies with this order? Yes No NA

Person Notified:	<input type="text"/>	Date:	<input type="text"/>
By Whom:	<input type="text"/>	Via:	<input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:	<input type="text"/>		
Client Instructions:	<input type="text"/>		

19. Additional remarks:

Item Information

Item #	Temp °C
Sample 1	4.5

* Note: DoD/ELAP and TNI require items to be received at 4°C +/- 2°C

2112356

Laboratory: Fremont Analytical

Turnaround Request

Project Manager: David Baumeister

Attention: Chelsea Ward

1 Day 2 Day 3 Day

email: dbaumeister@onsite-env.com

3600 Fremont Avenue N, Seattle, WA 98103

Standard

Project Number: 6694-002-05

Phone Number: (206) 352-3790

Other: _____

Project Name: _____

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	# of Cont.	Requested Analyses
	RINSE-20211220	12/20/21	13:40	W	1	Chlorinated Acid Herbicides 8151
Signature	Company	Date	Time	Comments/Special Instructions		
Relinquished by: <i>[Signature]</i>	OSE	12/21/21	1200	EDDs		
Received by: <i>[Signature]</i>	ALPHA	12/21/21	1200			
Relinquished by: <i>[Signature]</i>	ALPHA	12/21/21	1231			
Received by: <i>[Signature]</i>	FAI	12/21/21	1233			
Relinquished by:						
Received by:						

Chain of Custody

Company: Geo Engineers
 Project Number: 6694-002-05
 Project Name: Go East
 Project Manager: Garette Legue
 Sampled by: AG, PR

Turnaround Request (in working days)
 (Check One)
 Same Day 1 Day
 2 Days 3 Days
 Standard (7 Days)
 _____ (other)

Laboratory Number: **12-210**

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX	NWTPH-Gx	NWTPH-Dx (<input type="checkbox"/> Acid / SG Clean-up)	Volatiles 8280D	Halogenated Volatiles 8260D	EDB EPA 8011 (Waters Only)	Semivolatiles 8270E/SIM (with low-level PAHs)	PAHs 8270E/SIM (low-level)	PCBs 8082A	Organochlorine Pesticides 8081B	Organophosphorus Pesticides 8270E/SIM ^{DB}	Chlorinated Acid Herbicides 8151A	Total PCRA Metals	Total MTCA Metals	TCC Metals XX Total	HEM (oil and grease) 1664A	% Moisture
1	RINSE - 2021220	12/20	1340	Ag.	13			X	X	X			X		X	X	X	X			X		

	Signature	Company	Date	Time	Comments/Special Instructions
Relinquished	<u>Alondra Gray</u>	<u>GEI</u>	<u>12/20</u>	<u>15:35</u>	<u>xx As, Cd, Cr, Cu, Fe, Pb, Mn, Hg, Ni, Se, Zn</u>
Received	<u>[Signature]</u>	<u>GEI</u>	<u>12/20/21</u>	<u>1535</u>	
Relinquished					
Received					
Relinquished					
Received					
Reviewed/Date		Reviewed/Date			Data Package: Standard <input type="checkbox"/> Level III <input type="checkbox"/> Level IV <input type="checkbox"/> Chromatograms with final report <input type="checkbox"/> Electronic Data Deliverables (EDDs) <input type="checkbox"/>

Project:	March and April 2022 Groundwater and Surface Water Sampling Results Go East Landfill Site, Everett, Washington
GEI File:	6694-002-05
Date:	May 3, 2022

This report documents the results of a United States Environmental Protection Agency (USEPA)-defined Stage 2A data validation (USEPA Document 540-R-08-005; USEPA 2009) of analytical data from the analyses of water samples collected as part of the March and April 2022 sampling events, and the associated laboratory quality control (QC) samples. The samples were obtained from the Go East Landfill Site located in Everett, Washington.

OBJECTIVE AND QUALITY CONTROL ELEMENTS

GeoEngineers, Inc. (GeoEngineers) completed the data validation consistent with the USEPA Contract Laboratory Program National Functional Guidelines for Organic Superfund Data Review (USEPA 2020a) and Inorganic Superfund Data Review (USEPA 2020b) to determine if the laboratory analytical results meet the project objectives and are usable for their intended purpose. Data usability was assessed by determining if:

- The samples were analyzed using well-defined and acceptable methods that provide reporting limits below applicable regulatory criteria;
- The precision and accuracy of the data are measured by well-defined control limits to provide defensible data; and
- The quality assurance/quality control (QA/QC) procedures utilized by the laboratory meet acceptable industry practices and standards.

The data validation included review of the following QC elements:

- Data Package Completeness
- Chain-of-Custody Documentation
- Holding Times and Sample Preservation
- Method Blanks
- Surrogates
- Matrix Spikes/Matrix Spike Duplicates
- Laboratory Control Samples/Laboratory Control Sample Duplicates
- Laboratory Duplicates
- Reporting Limits

VALIDATED SAMPLE DELIVERY GROUPS

This data validation included review of the sample delivery groups (SDGs) listed below in Table 1.

TABLE 1: SUMMARY OF VALIDATED SAMPLE DELIVERY GROUP

2203-089	GW-5-20220307
2203-124	MW-3-30922
2203-149	MW-6-31122
2203-173	MW7-20220314
2203-222	Seep 1-220317, Seep 2-220317
2203-233	MW2-20220318
2203-234	SWS-1-20220321
2203-257	MW8-20220322
2203-363	MW1-220330
2204-036	MW-9-20220404, MW-10-20220404

CHEMICAL ANALYSIS PERFORMED

OnSite Environmental, Inc. (OnSite) of Redmond, Washington, performed laboratory analysis on the water samples using one or more of the following methods:

- Gasoline-range Hydrocarbons (NWTPH-Gx) by Method NWTPH-Gx;
- Petroleum Hydrocarbons (NWTPH-Dx) by Method NWTPH-Dx;
- Petroleum Hydrocarbons with Silica Gel (SG) Cleanup (NWTPH-Dx/SG) by Method NWTPH-Dx/SG;
- Volatile Organic Compounds (VOCs) by Method EPA 8260D;
- Semi-volatile Organic Compounds (SVOCs) by Method EPA 8270E (Full-scan Compound list);

- Low-level Polycyclic Aromatic Hydrocarbons (PAHs) by Method EPA 8270E/Selective Ion Monitoring (SIM);
- Polychlorinated Biphenyls (PCB) Aroclors by Method EPA 8082A;
- Organochlorine Pesticides by Method EPA 8081B;
- Chlorinated Acid Herbicides by Method EPA 8151A;
- Total and Dissolved Metals by Methods EPA 200.7, EPA 200.8, or EPA 7470A;
- Total Alkalinity and Bicarbonate by Method SM2320B;
- Total Dissolved Solids (TDS) by Method SM2540C;
- Total Organic Carbon (TOC) by Method SM5310B;
- Chloride by Method SM4500-Cl E;
- Nitrate by Method EPA 353.2;
- Sulfate by ASTM D516-11; and
- Ammonia by Method SM4500-NH3 D

OnSite subcontracted to Fremont Analytical, Inc., (Fremont) located in Seattle, Washington for laboratory analyses on the water samples using the following method:

- Chlorinated Acid Herbicides by Method EPA 8151A

DATA VALIDATION SUMMARY

The results for each of the QC elements are summarized below.

Data Package Completeness

OnSite provided the required deliverables for the data validation according to the National Functional Guidelines. The laboratory followed adequate corrective action processes and the identified anomalies were discussed in the relevant laboratory case narrative.

Chain-of-Custody Documentation

Chain-of-custody (COC) forms were provided with the laboratory analytical reports. The COCs were accurate and complete when submitted to the laboratory. The forms were appropriately signed and dated by both field collectors and laboratory personnel upon receipt.

Holding Times and Sample Preservation

The sample holding time is defined as the time that elapses between sample collection and sample analysis. Maximum holding time criteria exist for each analysis to help ensure that the analyte concentrations found at the time of analysis reflect the concentration present at the time of sample collection. Established holding times were met for each analysis, with the exceptions noted below. The sample coolers arrived at the laboratory within the appropriate temperatures of between two and six degrees Celsius.

SDG 2203-149: (Nitrate) The 48-hour holding time for nitrate analysis was exceeded by two days in Sample MW-6-31122. The positive result for this target analyte was qualified as estimated (J) in this sample.

SDG 2203-173: (Nitrate) The 48-hour holding time for nitrate analysis was exceeded by six days in Sample MW7-20220314. The positive result for this target analyte was qualified as estimated (J) in this sample.

SDG 2203-233: (Nitrate) The 48-hour holding time for nitrate analysis was exceeded by two days in Sample MW2-20220318. The positive result for this target analyte was qualified as estimated (J) in this sample.

Method Blanks

Method blanks are analyzed to ensure that laboratory procedures and reagents do not introduce measurable concentrations of the analytes of interest. A method blank was analyzed with each batch of samples, at a frequency of 1 per 20 samples. For each sample batch, method blanks for the applicable methods were analyzed at the required frequency. None of the analytes of interest were detected above the reporting limits in the method blanks.

Surrogate Recoveries

A surrogate compound is a compound that is chemically similar to the organic analytes of interest, but unlikely to be found in an environmental sample. Surrogates are used for organic analyses and are added to the samples, standards, and blanks to serve as an accuracy and specificity check of each analysis. The surrogates are added to the samples at a known concentration and percent recoveries are calculated following analysis. The surrogate percent recoveries for field samples were within the laboratory control limits.

Matrix Spikes/Matrix Spike Duplicates

Since the actual analyte concentration in an environmental sample is not known, the accuracy of a particular analysis is usually inferred by performing a matrix spike (MS) analysis on one sample from the associated batch, known as the parent sample. One aliquot of the sample is analyzed in the normal manner and then a second aliquot of the sample is spiked with a known amount of analyte concentration and analyzed. From these analyses, a percent recovery is calculated. Matrix spike duplicate (MSD) analyses are generally performed for organic analyses as a precision check and analyzed in the same sequence as a matrix spike. Using the result values from the MS and MSD, the relative percent difference (RPD) is calculated. The percent recovery control limits for MS and MSD analyses are specified in the laboratory documents, as are the RPD control limits for MS/MSD sample sets.

For inorganic methods, the matrix spike is followed by a post-digestion spike sample if an element percent recovery was outside the control limits in the matrix spike. The percent recovery control limits for matrix spikes are 75% to 125%.

One MS/MSD analysis should be performed for every analytical batch or every 20 field samples, whichever is more frequent. The frequency requirements were met for each analysis and the percent recovery and RPD values were within the proper control limits, with the following exception:

SDG 2203-149: (Total Metals) The laboratory performed an MS/MSD sample set with a QC outlier; however, it was performed on a sample that was not associated with the field sample collected by GeoEngineers. For this reason, no action was required.

Laboratory Control Samples/Laboratory Control Sample Duplicates

A Laboratory Control Sample (LCS) is a blank sample that is spiked with a known amount of analyte and then analyzed. An LCS is similar to an MS, but without the possibility of matrix interference. Given that matrix interference is not an issue, control limits for accuracy and precision in the LCS and its duplicate (LCSD) are usually more rigorous than for MS/MSD analyses. Additionally, data qualification based on LCS/LCSD analyses would apply to each sample in the associated batch, instead of just the parent sample. The percent recovery control limits for LCS and LCSD analyses are specified in the laboratory documents, as are the RPD control limits for LCS/LCSD sample sets.

One LCS/LCSD analysis should be performed for every analytical batch or every 20 field samples, whichever is more frequent. The frequency requirements were met for each analysis and the percent recovery and RPD values were within the proper control limits, with the following exceptions:

SDGs 2203-089 and 2203-124: (Herbicides) The RPD for chloramben was greater than the control limits in the LCS/LCSD extracted on 3/14/2022. There were no positive results for this target analyte in the associated field sample; therefore, no qualification was required.

SDG 2203-363: (SVOCs) The percent recoveries for pentachlorophenol were greater than the control limits in the LCS/LCSD extracted on 4/4/2022. There were no positive results for this target analyte in the associated field sample; therefore, no qualification was required.

(Herbicides) The RPD for 4-Nitrophenol was greater than the control limits in the LCS/LCSD extracted on 4/5/2022. There were no positive results for this target analyte in the associated field sample; therefore, no qualification was required.

Laboratory Duplicates

Internal laboratory duplicate analyses are performed to monitor the precision of the analyses. Two separate aliquots of a sample are analyzed as distinct samples in the laboratory and the RPD between the two results is calculated. Duplicate analyses should be performed once per analytical batch. If one or more of the samples used has a concentration less than five times the reporting limit for that sample, the absolute difference is used instead of the RPD. For organic analyses, the RPD control limits are specified in the laboratory documents. For inorganic analyses, the RPD control limit for water samples is 20 percent. Laboratory duplicates were analyzed at the proper frequency and the specified acceptance criteria were met, with the following exception:

SDG 2203-089: (Total Metals) A laboratory duplicate sample set was performed on Sample MW-5-20220307. The RPD for total iron was greater than the control limit in the laboratory duplicate digested on 3/11/2022. The positive result for this target analyte was qualified as estimated (J) in this sample.

Reporting Limits

The contract required quantitation limits (CRQL) were met by the laboratory for the target analytes throughout this sampling event, with some exceptions where the CRQL was elevated due to required sample dilution.

OVERALL ASSESSMENT

As was determined by this data validation, the laboratory followed the specified analytical methods. Accuracy was acceptable, as demonstrated by the surrogates, LCS/LCSD, and MS/MSD percent recovery values, with the exceptions noted above. Precision was also acceptable, as demonstrated by the LCS/LCSD, MS/MSD, and laboratory duplicate RPD values, with the exceptions noted above.

The data are acceptable for the intended use, with the following qualifications listed below in Table 2.

TABLE 2: SUMMARY OF QUALIFIED SAMPLES

Sample ID	Analyte	Qualifier	Reason
MW2-20220318	Nitrate	J	Holding Time
MW-5-20220307	Total iron	J	Laboratory Duplicate Precision
MW-6-31122	Nitrate	J	Holding Time
MW7-20220314	Nitrate	J	Holding Time

REFERENCES

- GeoEngineers, Inc., "Interim Action Work Plan, Go East Corp Landfill Site, Everett, Washington, Ecology Agreed Order No. DE 18121 - prepared for Washington State Department of Ecology on Behalf of PG&E, LLC. GEI File No. 6694-002-03, April 23, 2020.
- U.S. Environmental Protection Agency (USEPA). "Guidance for Labeling Externally Validated Laboratory Analytical Data for Superfund Use," EPA-540-R-08-005. January 2009.
- U.S. Environmental Protection Agency (USEPA) 2020a. Contract Laboratory Program National Functional Guidelines for Organic Superfund Methods Data Review, EPA-540-R-20-005. November 2020.
- U.S. Environmental Protection Agency (USEPA) 2020b. Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Methods Data Review, EPA-542-R-20-006. November 2020.



14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

March 24, 2022

Garrett Leque
GeoEngineers, Inc.
554 West Bakerview Road
Bellingham, WA 98226

Re: Analytical Data for Project 6694-002-05 T700
Laboratory Reference No. 2203-089

Dear Garrett:

Enclosed are the analytical results and associated quality control data for samples submitted on March 7, 2022.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

A handwritten signature in black ink, appearing to read "DB", with a long horizontal stroke extending to the right.

David Baumeister
Project Manager

Enclosures



OnSite Environmental, Inc. 14648 NE 95th Street, Redmond, WA 98052 (425) 883-3881

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: March 24, 2022
Samples Submitted: March 7, 2022
Laboratory Reference: 2203-089
Project: 6694-002-05 T700

Case Narrative

Samples were collected on March 7, 2022 and received by the laboratory on March 7, 2022. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

Nitrate (as Nitrogen) EPA 353.2 Analysis

The reported Nitrate results are a calculated value based on the subtraction of Nitrite from the Nitrate plus Nitrite result. The Nitrite analysis, which has a 48-hour holding time, was performed within the holding time. Immediately after this analysis, an aliquot from each sample was preserved with concentrated sulfuric acid and stored at 4 degrees C. The preserved samples were then analyzed within the maximum 28-day holding time for the Nitrate plus Nitrite analysis.

Any other QA/QC issues associated with this extraction and analysis will be indicated with a footnote reference and discussed in detail on the Data Qualifier page.



Date of Report: March 24, 2022
Samples Submitted: March 7, 2022
Laboratory Reference: 2203-089
Project: 6694-002-05 T700

ANALYTICAL REPORT FOR SAMPLES

Client ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
GW-5-20220307	03-089-01	Water	3-7-22	3-7-22	

DRAFT



Date of Report: March 24, 2022
 Samples Submitted: March 7, 2022
 Laboratory Reference: 2203-089
 Project: 6694-002-05 T700

GASOLINE RANGE ORGANICS
NWTPH-Gx

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-5-20220307					
Laboratory ID:	03-089-01					
Gasoline	ND	100	NWTPH-Gx	3-9-22	3-9-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	86	66-117				



Date of Report: March 24, 2022
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**DIESEL AND HEAVY OIL RANGE ORGANICS
 NWTPH-Dx**

Matrix: Water
 Units: mg/L (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-5-20220307					
Laboratory ID:	03-089-01					
Diesel Range Organics	ND	0.21	NWTPH-Dx	3-15-22	3-15-22	X1
Lube Oil Range Organics	ND	0.21	NWTPH-Dx	3-15-22	3-15-22	X1
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	<i>108</i>	<i>50-150</i>				



Date of Report: March 24, 2022
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 Project: 6694-002-05 T700

VOLATILE ORGANICS EPA 8260D
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-5-20220307					
Laboratory ID:	03-089-01					
Dichlorodifluoromethane	ND	0.28	EPA 8260D	3-9-22	3-9-22	
Chloromethane	ND	1.6	EPA 8260D	3-9-22	3-9-22	
Vinyl Chloride	ND	0.20	EPA 8260D	3-9-22	3-9-22	
Bromomethane	ND	2.8	EPA 8260D	3-9-22	3-9-22	
Chloroethane	ND	1.0	EPA 8260D	3-9-22	3-9-22	
Trichlorofluoromethane	ND	0.20	EPA 8260D	3-9-22	3-9-22	
1,1-Dichloroethene	ND	0.20	EPA 8260D	3-9-22	3-9-22	
Acetone	ND	5.0	EPA 8260D	3-9-22	3-9-22	
Iodomethane	ND	8.5	EPA 8260D	3-9-22	3-9-22	
Carbon Disulfide	ND	0.20	EPA 8260D	3-9-22	3-9-22	
Methylene Chloride	ND	1.0	EPA 8260D	3-9-22	3-9-22	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	3-9-22	3-9-22	
Methyl t-Butyl Ether	ND	0.20	EPA 8260D	3-9-22	3-9-22	
1,1-Dichloroethane	ND	0.20	EPA 8260D	3-9-22	3-9-22	
Vinyl Acetate	ND	1.0	EPA 8260D	3-9-22	3-9-22	
2,2-Dichloropropane	ND	0.20	EPA 8260D	3-9-22	3-9-22	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	3-9-22	3-9-22	
2-Butanone	ND	5.0	EPA 8260D	3-9-22	3-9-22	
Bromochloromethane	ND	0.20	EPA 8260D	3-9-22	3-9-22	
Chloroform	ND	0.20	EPA 8260D	3-9-22	3-9-22	
1,1,1-Trichloroethane	ND	0.20	EPA 8260D	3-9-22	3-9-22	
Carbon Tetrachloride	ND	0.28	EPA 8260D	3-9-22	3-9-22	
1,1-Dichloropropene	ND	0.20	EPA 8260D	3-9-22	3-9-22	
Benzene	ND	0.20	EPA 8260D	3-9-22	3-9-22	
1,2-Dichloroethane	ND	0.20	EPA 8260D	3-9-22	3-9-22	
Trichloroethene	ND	0.20	EPA 8260D	3-9-22	3-9-22	
1,2-Dichloropropane	ND	0.20	EPA 8260D	3-9-22	3-9-22	
Dibromomethane	ND	0.20	EPA 8260D	3-9-22	3-9-22	
Bromodichloromethane	ND	0.20	EPA 8260D	3-9-22	3-9-22	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260D	3-9-22	3-9-22	
Methyl Isobutyl Ketone	ND	2.0	EPA 8260D	3-9-22	3-9-22	
Toluene	ND	1.0	EPA 8260D	3-9-22	3-9-22	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260D	3-9-22	3-9-22	



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VOLATILE ORGANICS EPA 8260D
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-5-20220307					
Laboratory ID:	03-089-01					
1,1,2-Trichloroethane	ND	0.20	EPA 8260D	3-9-22	3-9-22	
Tetrachloroethene	ND	0.20	EPA 8260D	3-9-22	3-9-22	
1,3-Dichloropropane	ND	0.20	EPA 8260D	3-9-22	3-9-22	
2-Hexanone	ND	2.0	EPA 8260D	3-9-22	3-9-22	
Dibromochloromethane	ND	0.20	EPA 8260D	3-9-22	3-9-22	
1,2-Dibromoethane	ND	0.20	EPA 8260D	3-9-22	3-9-22	
Chlorobenzene	ND	0.20	EPA 8260D	3-9-22	3-9-22	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260D	3-9-22	3-9-22	
Ethylbenzene	ND	0.20	EPA 8260D	3-9-22	3-9-22	
m,p-Xylene	ND	0.40	EPA 8260D	3-9-22	3-9-22	
o-Xylene	ND	0.20	EPA 8260D	3-9-22	3-9-22	
Styrene	ND	0.20	EPA 8260D	3-9-22	3-9-22	
Bromoform	ND	1.0	EPA 8260D	3-9-22	3-9-22	
Isopropylbenzene	ND	0.20	EPA 8260D	3-9-22	3-9-22	
Bromobenzene	ND	0.20	EPA 8260D	3-9-22	3-9-22	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260D	3-9-22	3-9-22	
1,2,3-Trichloropropane	ND	0.20	EPA 8260D	3-9-22	3-9-22	
n-Propylbenzene	ND	0.20	EPA 8260D	3-9-22	3-9-22	
2-Chlorotoluene	ND	0.20	EPA 8260D	3-9-22	3-9-22	
4-Chlorotoluene	ND	0.20	EPA 8260D	3-9-22	3-9-22	
1,3,5-Trimethylbenzene	ND	0.20	EPA 8260D	3-9-22	3-9-22	
tert-Butylbenzene	ND	0.20	EPA 8260D	3-9-22	3-9-22	
1,2,4-Trimethylbenzene	ND	0.20	EPA 8260D	3-9-22	3-9-22	
sec-Butylbenzene	ND	0.20	EPA 8260D	3-9-22	3-9-22	
1,3-Dichlorobenzene	ND	0.20	EPA 8260D	3-9-22	3-9-22	
p-Isopropyltoluene	ND	0.20	EPA 8260D	3-9-22	3-9-22	
1,4-Dichlorobenzene	ND	0.20	EPA 8260D	3-9-22	3-9-22	
1,2-Dichlorobenzene	ND	0.20	EPA 8260D	3-9-22	3-9-22	
n-Butylbenzene	ND	0.20	EPA 8260D	3-9-22	3-9-22	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260D	3-9-22	3-9-22	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260D	3-9-22	3-9-22	
Hexachlorobutadiene	ND	1.0	EPA 8260D	3-9-22	3-9-22	
Naphthalene	10	1.0	EPA 8260D	3-9-22	3-9-22	Y
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260D	3-9-22	3-9-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>102</i>	<i>75-127</i>				
<i>Toluene-d8</i>	<i>100</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>96</i>	<i>78-125</i>				



Date of Report: March 24, 2022
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 Laboratory Reference: 2203-089
 Project: 6694-002-05 T700

SEMIVOLATILE ORGANICS EPA 8270E/SIM
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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-5-20220307					
Laboratory ID:	03-089-01					
n-Nitrosodimethylamine	ND	1.0	EPA 8270E	3-11-22	3-11-22	
Pyridine	ND	1.0	EPA 8270E	3-11-22	3-11-22	
Phenol	ND	1.0	EPA 8270E	3-11-22	3-11-22	
Aniline	ND	5.0	EPA 8270E	3-11-22	3-11-22	
bis(2-Chloroethyl)ether	ND	1.0	EPA 8270E	3-11-22	3-11-22	
2-Chlorophenol	ND	1.0	EPA 8270E	3-11-22	3-11-22	
1,3-Dichlorobenzene	ND	1.0	EPA 8270E	3-11-22	3-11-22	
1,4-Dichlorobenzene	ND	1.0	EPA 8270E	3-11-22	3-11-22	
Benzyl alcohol	ND	1.0	EPA 8270E	3-11-22	3-11-22	
1,2-Dichlorobenzene	ND	1.0	EPA 8270E	3-11-22	3-11-22	
2-Methylphenol (o-Cresol)	ND	1.0	EPA 8270E	3-11-22	3-11-22	
bis(2-Chloroisopropyl)ether	ND	1.0	EPA 8270E	3-11-22	3-11-22	
(3+4)-Methylphenol (m,p-Cresol)	ND	1.0	EPA 8270E	3-11-22	3-11-22	
n-Nitroso-di-n-propylamine	ND	1.0	EPA 8270E	3-11-22	3-11-22	
Hexachloroethane	ND	1.0	EPA 8270E	3-11-22	3-11-22	
Nitrobenzene	ND	1.0	EPA 8270E	3-11-22	3-11-22	
Isophorone	ND	1.0	EPA 8270E	3-11-22	3-11-22	
2-Nitrophenol	ND	1.0	EPA 8270E	3-11-22	3-11-22	
2,4-Dimethylphenol	ND	1.0	EPA 8270E	3-11-22	3-11-22	
bis(2-Chloroethoxy)methane	ND	1.0	EPA 8270E	3-11-22	3-11-22	
2,4-Dichlorophenol	ND	1.0	EPA 8270E	3-11-22	3-11-22	
1,2,4-Trichlorobenzene	ND	1.0	EPA 8270E	3-11-22	3-11-22	
Naphthalene	ND	0.10	EPA 8270E/SIM	3-11-22	3-11-22	
4-Chloroaniline	ND	1.0	EPA 8270E	3-11-22	3-11-22	
Hexachlorobutadiene	ND	1.0	EPA 8270E	3-11-22	3-11-22	
4-Chloro-3-methylphenol	ND	1.0	EPA 8270E	3-11-22	3-11-22	
2-Methylnaphthalene	ND	0.10	EPA 8270E/SIM	3-11-22	3-11-22	
1-Methylnaphthalene	ND	0.10	EPA 8270E/SIM	3-11-22	3-11-22	
Hexachlorocyclopentadiene	ND	1.0	EPA 8270E	3-11-22	3-11-22	
2,4,6-Trichlorophenol	ND	1.0	EPA 8270E	3-11-22	3-11-22	
2,3-Dichloroaniline	ND	1.0	EPA 8270E	3-11-22	3-11-22	
2,4,5-Trichlorophenol	ND	1.0	EPA 8270E	3-11-22	3-11-22	
2-Chloronaphthalene	ND	1.0	EPA 8270E	3-11-22	3-11-22	
2-Nitroaniline	ND	1.0	EPA 8270E	3-11-22	3-11-22	
1,4-Dinitrobenzene	ND	1.0	EPA 8270E	3-11-22	3-11-22	
Dimethylphthalate	ND	5.0	EPA 8270E	3-11-22	3-11-22	
1,3-Dinitrobenzene	ND	1.0	EPA 8270E	3-11-22	3-11-22	
2,6-Dinitrotoluene	ND	1.0	EPA 8270E	3-11-22	3-11-22	
1,2-Dinitrobenzene	ND	1.0	EPA 8270E	3-11-22	3-11-22	
Acenaphthylene	ND	0.10	EPA 8270E/SIM	3-11-22	3-11-22	
3-Nitroaniline	ND	1.0	EPA 8270E	3-11-22	3-11-22	



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SEMIVOLATILE ORGANICS EPA 8270E/SIM
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-5-20220307					
Laboratory ID:	03-089-01					
2,4-Dinitrophenol	ND	7.9	EPA 8270E	3-11-22	3-11-22	
Acenaphthene	ND	0.10	EPA 8270E/SIM	3-11-22	3-11-22	
4-Nitrophenol	ND	5.0	EPA 8270E	3-11-22	3-11-22	
2,4-Dinitrotoluene	ND	1.0	EPA 8270E	3-11-22	3-11-22	
Dibenzofuran	ND	1.0	EPA 8270E	3-11-22	3-11-22	
2,3,5,6-Tetrachlorophenol	ND	1.0	EPA 8270E	3-11-22	3-11-22	
2,3,4,6-Tetrachlorophenol	ND	1.0	EPA 8270E	3-11-22	3-11-22	
Diethylphthalate	ND	1.0	EPA 8270E	3-11-22	3-11-22	
4-Chlorophenyl-phenylether	ND	1.0	EPA 8270E	3-11-22	3-11-22	
4-Nitroaniline	ND	1.0	EPA 8270E	3-11-22	3-11-22	
Fluorene	ND	0.10	EPA 8270E/SIM	3-11-22	3-11-22	
4,6-Dinitro-2-methylphenol	ND	5.0	EPA 8270E	3-11-22	3-11-22	
n-Nitrosodiphenylamine	ND	1.0	EPA 8270E	3-11-22	3-11-22	
1,2-Diphenylhydrazine	ND	1.0	EPA 8270E	3-11-22	3-11-22	
4-Bromophenyl-phenylether	ND	1.0	EPA 8270E	3-11-22	3-11-22	
Hexachlorobenzene	ND	1.0	EPA 8270E	3-11-22	3-11-22	
Pentachlorophenol	ND	5.0	EPA 8270E	3-11-22	3-11-22	
Phenanthrene	ND	0.10	EPA 8270E/SIM	3-11-22	3-11-22	
Anthracene	ND	0.10	EPA 8270E/SIM	3-11-22	3-11-22	
Carbazole	ND	1.0	EPA 8270E	3-11-22	3-11-22	
Di-n-butylphthalate	ND	5.0	EPA 8270E	3-11-22	3-11-22	
Fluoranthene	ND	0.10	EPA 8270E/SIM	3-11-22	3-11-22	
Pyrene	ND	0.10	EPA 8270E/SIM	3-11-22	3-11-22	
Butylbenzylphthalate	ND	1.0	EPA 8270E	3-11-22	3-11-22	
bis(2-Ethylhexyl)adipate	ND	5.0	EPA 8270E	3-11-22	3-11-22	
3,3'-Dichlorobenzidine	ND	1.0	EPA 8270E	3-11-22	3-11-22	
Benzo[a]anthracene	ND	0.010	EPA 8270E/SIM	3-11-22	3-11-22	
Chrysene	ND	0.010	EPA 8270E/SIM	3-11-22	3-11-22	
bis(2-Ethylhexyl)phthalate	ND	5.0	EPA 8270E	3-11-22	3-11-22	
Di-n-octylphthalate	ND	1.0	EPA 8270E	3-11-22	3-11-22	
Benzo[b]fluoranthene	ND	0.010	EPA 8270E/SIM	3-11-22	3-11-22	
Benzo(j,k)fluoranthene	ND	0.010	EPA 8270E/SIM	3-11-22	3-11-22	
Benzo[a]pyrene	ND	0.010	EPA 8270E/SIM	3-11-22	3-11-22	
Indeno[1,2,3-cd]pyrene	ND	0.010	EPA 8270E/SIM	3-11-22	3-11-22	
Dibenz[a,h]anthracene	ND	0.010	EPA 8270E/SIM	3-11-22	3-11-22	
Benzo[g,h,i]perylene	ND	0.010	EPA 8270E/SIM	3-11-22	3-11-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
2-Fluorophenol	46	10 - 82				
Phenol-d6	34	10 - 92				
Nitrobenzene-d5	71	32 - 105				
2-Fluorobiphenyl	68	38 - 105				
2,4,6-Tribromophenol	78	25 - 124				
Terphenyl-d14	70	42 - 116				



Date of Report: March 24, 2022
 Samples Submitted: March 7, 2022
 Laboratory Reference: 2203-089
 Project: 6694-002-05 T700

PCBs EPA 8082A

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-5-20220307					
Laboratory ID:	03-089-01					
Aroclor 1016	ND	0.048	EPA 8082A	3-10-22	3-16-22	
Aroclor 1221	ND	0.048	EPA 8082A	3-10-22	3-16-22	
Aroclor 1232	ND	0.048	EPA 8082A	3-10-22	3-16-22	
Aroclor 1242	ND	0.048	EPA 8082A	3-10-22	3-16-22	
Aroclor 1248	ND	0.048	EPA 8082A	3-10-22	3-16-22	
Aroclor 1254	ND	0.048	EPA 8082A	3-10-22	3-16-22	
Aroclor 1260	ND	0.048	EPA 8082A	3-10-22	3-16-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>DCB</i>	90	42-140				



Date of Report: March 24, 2022
 Samples Submitted: March 7, 2022
 Laboratory Reference: 2203-089
 Project: 6694-002-05 T700

**ORGANOCHLORINE
 PESTICIDES EPA 8081B**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-5-20220307					
Laboratory ID:	03-089-01					
alpha-BHC	ND	0.0048	EPA 8081B	3-10-22	3-15-22	
gamma-BHC (Lindane)	ND	0.0048	EPA 8081B	3-10-22	3-15-22	
beta-BHC	ND	0.0048	EPA 8081B	3-10-22	3-15-22	
delta-BHC	ND	0.0048	EPA 8081B	3-10-22	3-15-22	
Heptachlor	ND	0.0048	EPA 8081B	3-10-22	3-15-22	
Aldrin	ND	0.0019	EPA 8081B	3-10-22	3-15-22	
Heptachlor Epoxide	ND	0.0029	EPA 8081B	3-10-22	3-15-22	
gamma-Chlordane	ND	0.0048	EPA 8081B	3-10-22	3-15-22	
alpha-Chlordane	ND	0.0048	EPA 8081B	3-10-22	3-15-22	
4,4'-DDE	ND	0.0048	EPA 8081B	3-10-22	3-15-22	
Endosulfan I	ND	0.0048	EPA 8081B	3-10-22	3-15-22	
Dieldrin	ND	0.0048	EPA 8081B	3-10-22	3-15-22	
Endrin	ND	0.0048	EPA 8081B	3-10-22	3-15-22	
4,4'-DDD	ND	0.0048	EPA 8081B	3-10-22	3-15-22	
Endosulfan II	ND	0.0048	EPA 8081B	3-10-22	3-15-22	
4,4'-DDT	ND	0.0048	EPA 8081B	3-10-22	3-15-22	
Endrin Aldehyde	ND	0.0048	EPA 8081B	3-10-22	3-15-22	
Methoxychlor	ND	0.0095	EPA 8081B	3-10-22	3-15-22	
Endosulfan Sulfate	ND	0.0048	EPA 8081B	3-10-22	3-15-22	
Endrin Ketone	ND	0.019	EPA 8081B	3-10-22	3-15-22	
Toxaphene	ND	0.048	EPA 8081B	3-10-22	3-15-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
TCMX	49	25-114				
DCB	67	30-137				



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TOTAL METALS
EPA 200.7/200.8/7470A

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-5-20220307					
Laboratory ID:	03-089-01					
Arsenic	6.6	3.3	EPA 200.8	3-14-22	3-14-22	
Cadmium	ND	4.4	EPA 200.8	3-14-22	3-14-22	
Chromium	ND	11	EPA 200.8	3-14-22	3-14-22	
Copper	ND	11	EPA 200.8	3-14-22	3-14-22	
Iron	130	50	EPA 200.7	3-11-22	3-11-22	
Lead	ND	1.1	EPA 200.8	3-14-22	3-14-22	
Magnesium	13000	1000	EPA 200.7	3-11-22	3-11-22	
Manganese	270	10	EPA 200.7	3-11-22	3-11-22	
Mercury	ND	0.025	EPA 7470A	3-16-22	3-16-22	
Nickel	ND	22	EPA 200.8	3-14-22	3-14-22	
Selenium	ND	5.6	EPA 200.8	3-14-22	3-14-22	
Zinc	ND	28	EPA 200.8	3-14-22	3-14-22	



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DISSOLVED METALS
EPA 200.7/200.8/7470A

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-5-20220307					
Laboratory ID:	03-089-01					
Arsenic	5.7	3.0	EPA 200.8		3-10-22	
Cadmium	ND	4.0	EPA 200.8		3-10-22	
Calcium	28000	1100	EPA 200.7		3-15-22	
Chromium	ND	10	EPA 200.8		3-10-22	
Copper	ND	10	EPA 200.8		3-10-22	
Iron	65	56	EPA 200.7		3-15-22	
Lead	ND	1.0	EPA 200.8		3-10-22	
Magnesium	14000	1100	EPA 200.7		3-15-22	
Manganese	280	11	EPA 200.7		3-15-22	
Mercury	ND	0.025	EPA 7470A		3-11-22	
Nickel	ND	20	EPA 200.8		3-10-22	
Potassium	2000	1100	EPA 200.7		3-15-22	
Selenium	ND	5.0	EPA 200.8		3-10-22	
Sodium	6500	1100	EPA 200.7		3-15-22	
Zinc	ND	25	EPA 200.8		3-10-22	



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TOTAL ALKALINITY
SM 2320B

Matrix: Water
Units: mg CaCO₃/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-5-20220307					
Laboratory ID:	03-089-01					
Total Alkalinity	120	2.0	SM 2320B	3-11-22	3-11-22	



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**BICARBONATE
SM 2320B**

Matrix: Water
Units: mg CaCO₃/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-5-20220307					
Laboratory ID:	03-089-01					
Bicarbonate Concentration	120	2.0	SM 2320B	3-11-22	3-11-22	



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**TOTAL DISSOLVED SOLIDS
SM 2540C**

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-5-20220307					
Laboratory ID:	03-089-01					
Total Dissolved Solids	150	13	SM 2540C	3-11-22	3-11-22	



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CHLORIDE
SM 4500-Cl E

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-5-20220307					
Laboratory ID:	03-089-01					
Chloride	6.2	2.0	SM 4500-Cl E	3-11-22	3-11-22	



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NITRATE (as Nitrogen)
EPA 353.2

Matrix: Water
Units: mg/L-N

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-5-20220307					
Laboratory ID:	03-089-01					
Nitrate	ND	0.050	EPA 353.2	3-11-22	3-11-22	



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SULFATE
ASTM D516-11

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-5-20220307					
Laboratory ID:	03-089-01					
Sulfate	14	5.0	ASTM D516-11	3-14-22	3-14-22	



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AMMONIA (as Nitrogen)
SM 4500-NH₃ D

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-5-20220307					
Laboratory ID:	03-089-01					
Ammonia	ND	0.050	SM 4500-NH3 D	3-10-22	3-10-22	



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**GASOLINE RANGE ORGANICS
 NWTPH-Gx
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0309W2					
Gasoline	ND	100	NWTPH-Gx	3-9-22	3-9-22	
Surrogate:	Percent Recovery		Control Limits			
Fluorobenzene	86	66-117				

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	03-080-02							
	ORIG	DUP						
Gasoline	ND	ND	NA	NA	NA	NA	30	
Surrogate:								
Fluorobenzene				86	86	66-117		



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**DIESEL AND HEAVY OIL RANGE ORGANICS
 NWTPH-Dx
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0315W1					
Diesel Range Organics	ND	0.20	NWTPH-Dx	3-15-22	3-15-22	X1
Lube Oil Range Organics	ND	0.20	NWTPH-Dx	3-15-22	3-15-22	X1
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	104	50-150				

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	SB0315W1							
	ORIG	DUP						
Diesel Fuel #2	0.450	0.417	NA	NA	NA	NA	8	NA X1
<i>Surrogate:</i>								
<i>o-Terphenyl</i>				120	110	50-150		



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VOLATILE ORGANICS EPA 8260D
QUALITY CONTROL
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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0309W1					
Dichlorodifluoromethane	ND	0.28	EPA 8260D	3-9-22	3-9-22	
Chloromethane	ND	1.6	EPA 8260D	3-9-22	3-9-22	
Vinyl Chloride	ND	0.20	EPA 8260D	3-9-22	3-9-22	
Bromomethane	ND	2.8	EPA 8260D	3-9-22	3-9-22	
Chloroethane	ND	1.0	EPA 8260D	3-9-22	3-9-22	
Trichlorofluoromethane	ND	0.20	EPA 8260D	3-9-22	3-9-22	
1,1-Dichloroethene	ND	0.20	EPA 8260D	3-9-22	3-9-22	
Acetone	ND	5.0	EPA 8260D	3-9-22	3-9-22	
Iodomethane	ND	8.5	EPA 8260D	3-9-22	3-9-22	
Carbon Disulfide	ND	0.20	EPA 8260D	3-9-22	3-9-22	
Methylene Chloride	ND	1.0	EPA 8260D	3-9-22	3-9-22	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	3-9-22	3-9-22	
Methyl t-Butyl Ether	ND	0.20	EPA 8260D	3-9-22	3-9-22	
1,1-Dichloroethane	ND	0.20	EPA 8260D	3-9-22	3-9-22	
Vinyl Acetate	ND	1.0	EPA 8260D	3-9-22	3-9-22	
2,2-Dichloropropane	ND	0.20	EPA 8260D	3-9-22	3-9-22	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	3-9-22	3-9-22	
2-Butanone	ND	5.0	EPA 8260D	3-9-22	3-9-22	
Bromochloromethane	ND	0.20	EPA 8260D	3-9-22	3-9-22	
Chloroform	ND	0.20	EPA 8260D	3-9-22	3-9-22	
1,1,1-Trichloroethane	ND	0.20	EPA 8260D	3-9-22	3-9-22	
Carbon Tetrachloride	ND	0.28	EPA 8260D	3-9-22	3-9-22	
1,1-Dichloropropene	ND	0.20	EPA 8260D	3-9-22	3-9-22	
Benzene	ND	0.20	EPA 8260D	3-9-22	3-9-22	
1,2-Dichloroethane	ND	0.20	EPA 8260D	3-9-22	3-9-22	
Trichloroethene	ND	0.20	EPA 8260D	3-9-22	3-9-22	
1,2-Dichloropropane	ND	0.20	EPA 8260D	3-9-22	3-9-22	
Dibromomethane	ND	0.20	EPA 8260D	3-9-22	3-9-22	
Bromodichloromethane	ND	0.20	EPA 8260D	3-9-22	3-9-22	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260D	3-9-22	3-9-22	
Methyl Isobutyl Ketone	ND	2.0	EPA 8260D	3-9-22	3-9-22	
Toluene	ND	1.0	EPA 8260D	3-9-22	3-9-22	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260D	3-9-22	3-9-22	



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**VOLATILE ORGANICS EPA 8260D
 QUALITY CONTROL**

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0309W1					
1,1,2-Trichloroethane	ND	0.20	EPA 8260D	3-9-22	3-9-22	
Tetrachloroethene	ND	0.20	EPA 8260D	3-9-22	3-9-22	
1,3-Dichloropropane	ND	0.20	EPA 8260D	3-9-22	3-9-22	
2-Hexanone	ND	2.0	EPA 8260D	3-9-22	3-9-22	
Dibromochloromethane	ND	0.20	EPA 8260D	3-9-22	3-9-22	
1,2-Dibromoethane	ND	0.20	EPA 8260D	3-9-22	3-9-22	
Chlorobenzene	ND	0.20	EPA 8260D	3-9-22	3-9-22	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260D	3-9-22	3-9-22	
Ethylbenzene	ND	0.20	EPA 8260D	3-9-22	3-9-22	
m,p-Xylene	ND	0.40	EPA 8260D	3-9-22	3-9-22	
o-Xylene	ND	0.20	EPA 8260D	3-9-22	3-9-22	
Styrene	ND	0.20	EPA 8260D	3-9-22	3-9-22	
Bromoform	ND	1.0	EPA 8260D	3-9-22	3-9-22	
Isopropylbenzene	ND	0.20	EPA 8260D	3-9-22	3-9-22	
Bromobenzene	ND	0.20	EPA 8260D	3-9-22	3-9-22	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260D	3-9-22	3-9-22	
1,2,3-Trichloropropane	ND	0.20	EPA 8260D	3-9-22	3-9-22	
n-Propylbenzene	ND	0.20	EPA 8260D	3-9-22	3-9-22	
2-Chlorotoluene	ND	0.20	EPA 8260D	3-9-22	3-9-22	
4-Chlorotoluene	ND	0.20	EPA 8260D	3-9-22	3-9-22	
1,3,5-Trimethylbenzene	ND	0.20	EPA 8260D	3-9-22	3-9-22	
tert-Butylbenzene	ND	0.20	EPA 8260D	3-9-22	3-9-22	
1,2,4-Trimethylbenzene	ND	0.20	EPA 8260D	3-9-22	3-9-22	
sec-Butylbenzene	ND	0.20	EPA 8260D	3-9-22	3-9-22	
1,3-Dichlorobenzene	ND	0.20	EPA 8260D	3-9-22	3-9-22	
p-Isopropyltoluene	ND	0.20	EPA 8260D	3-9-22	3-9-22	
1,4-Dichlorobenzene	ND	0.20	EPA 8260D	3-9-22	3-9-22	
1,2-Dichlorobenzene	ND	0.20	EPA 8260D	3-9-22	3-9-22	
n-Butylbenzene	ND	0.20	EPA 8260D	3-9-22	3-9-22	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260D	3-9-22	3-9-22	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260D	3-9-22	3-9-22	
Hexachlorobutadiene	ND	1.0	EPA 8260D	3-9-22	3-9-22	
Naphthalene	ND	1.0	EPA 8260D	3-9-22	3-9-22	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260D	3-9-22	3-9-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>97</i>	<i>75-127</i>				
<i>Toluene-d8</i>	<i>99</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>98</i>	<i>78-125</i>				



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**VOLATILE ORGANICS EPA 8260D
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD	RPD	Flags
					Recovery	Limits	RPD	Limit		
SPIKE BLANKS										
Laboratory ID:	SB0309W1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	9.88	9.85	10.0	10.0	99	99	78-125	0	19	
Benzene	9.38	9.33	10.0	10.0	94	93	80-119	1	16	
Trichloroethene	10.3	10.4	10.0	10.0	103	104	80-121	1	18	
Toluene	9.97	9.99	10.0	10.0	100	100	80-117	0	18	
Chlorobenzene	10.7	10.3	10.0	10.0	107	103	80-117	4	17	
<i>Surrogate:</i>										
Dibromofluoromethane					96	93	75-127			
Toluene-d8					101	101	80-127			
4-Bromofluorobenzene					100	98	78-125			



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**SEMIVOLATILE ORGANICS EPA 8270E/SIM
 QUALITY CONTROL**

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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0311W1					
n-Nitrosodimethylamine	ND	1.0	EPA 8270E	3-11-22	3-11-22	
Pyridine	ND	1.0	EPA 8270E	3-11-22	3-11-22	
Phenol	ND	1.0	EPA 8270E	3-11-22	3-11-22	
Aniline	ND	5.0	EPA 8270E	3-11-22	3-11-22	
bis(2-Chloroethyl)ether	ND	1.0	EPA 8270E	3-11-22	3-11-22	
2-Chlorophenol	ND	1.0	EPA 8270E	3-11-22	3-11-22	
1,3-Dichlorobenzene	ND	1.0	EPA 8270E	3-11-22	3-11-22	
1,4-Dichlorobenzene	ND	1.0	EPA 8270E	3-11-22	3-11-22	
Benzyl alcohol	ND	1.0	EPA 8270E	3-11-22	3-11-22	
1,2-Dichlorobenzene	ND	1.0	EPA 8270E	3-11-22	3-11-22	
2-Methylphenol (o-Cresol)	ND	1.0	EPA 8270E	3-11-22	3-11-22	
bis(2-Chloroisopropyl)ether	ND	1.0	EPA 8270E	3-11-22	3-11-22	
(3+4)-Methylphenol (m,p-Cresol)	ND	1.0	EPA 8270E	3-11-22	3-11-22	
n-Nitroso-di-n-propylamine	ND	1.0	EPA 8270E	3-11-22	3-11-22	
Hexachloroethane	ND	1.0	EPA 8270E	3-11-22	3-11-22	
Nitrobenzene	ND	1.0	EPA 8270E	3-11-22	3-11-22	
Isophorone	ND	1.0	EPA 8270E	3-11-22	3-11-22	
2-Nitrophenol	ND	1.0	EPA 8270E	3-11-22	3-11-22	
2,4-Dimethylphenol	ND	1.0	EPA 8270E	3-11-22	3-11-22	
bis(2-Chloroethoxy)methane	ND	1.0	EPA 8270E	3-11-22	3-11-22	
2,4-Dichlorophenol	ND	1.0	EPA 8270E	3-11-22	3-11-22	
1,2,4-Trichlorobenzene	ND	1.0	EPA 8270E	3-11-22	3-11-22	
Naphthalene	ND	0.10	EPA 8270E/SIM	3-11-22	3-11-22	
4-Chloroaniline	ND	1.0	EPA 8270E	3-11-22	3-11-22	
Hexachlorobutadiene	ND	1.0	EPA 8270E	3-11-22	3-11-22	
4-Chloro-3-methylphenol	ND	1.0	EPA 8270E	3-11-22	3-11-22	
2-Methylnaphthalene	ND	0.10	EPA 8270E/SIM	3-11-22	3-11-22	
1-Methylnaphthalene	ND	0.10	EPA 8270E/SIM	3-11-22	3-11-22	
Hexachlorocyclopentadiene	ND	1.0	EPA 8270E	3-11-22	3-11-22	
2,4,6-Trichlorophenol	ND	1.0	EPA 8270E	3-11-22	3-11-22	
2,3-Dichloroaniline	ND	1.0	EPA 8270E	3-11-22	3-11-22	
2,4,5-Trichlorophenol	ND	1.0	EPA 8270E	3-11-22	3-11-22	
2-Chloronaphthalene	ND	1.0	EPA 8270E	3-11-22	3-11-22	
2-Nitroaniline	ND	1.0	EPA 8270E	3-11-22	3-11-22	
1,4-Dinitrobenzene	ND	1.0	EPA 8270E	3-11-22	3-11-22	
Dimethylphthalate	ND	5.0	EPA 8270E	3-11-22	3-11-22	
1,3-Dinitrobenzene	ND	1.0	EPA 8270E	3-11-22	3-11-22	
2,6-Dinitrotoluene	ND	1.0	EPA 8270E	3-11-22	3-11-22	
1,2-Dinitrobenzene	ND	1.0	EPA 8270E	3-11-22	3-11-22	
Acenaphthylene	ND	0.10	EPA 8270E/SIM	3-11-22	3-11-22	
3-Nitroaniline	ND	1.0	EPA 8270E	3-11-22	3-11-22	



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**SEMIVOLATILE ORGANICS EPA 8270E/SIM
 QUALITY CONTROL**

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0311W1					
2,4-Dinitrophenol	ND	7.9	EPA 8270E	3-11-22	3-11-22	
Acenaphthene	ND	0.10	EPA 8270E/SIM	3-11-22	3-11-22	
4-Nitrophenol	ND	5.0	EPA 8270E	3-11-22	3-11-22	
2,4-Dinitrotoluene	ND	1.0	EPA 8270E	3-11-22	3-11-22	
Dibenzofuran	ND	1.0	EPA 8270E	3-11-22	3-11-22	
2,3,5,6-Tetrachlorophenol	ND	1.0	EPA 8270E	3-11-22	3-11-22	
2,3,4,6-Tetrachlorophenol	ND	1.0	EPA 8270E	3-11-22	3-11-22	
Diethylphthalate	ND	1.0	EPA 8270E	3-11-22	3-11-22	
4-Chlorophenyl-phenylether	ND	1.0	EPA 8270E	3-11-22	3-11-22	
4-Nitroaniline	ND	1.0	EPA 8270E	3-11-22	3-11-22	
Fluorene	ND	0.10	EPA 8270E/SIM	3-11-22	3-11-22	
4,6-Dinitro-2-methylphenol	ND	5.0	EPA 8270E	3-11-22	3-11-22	
n-Nitrosodiphenylamine	ND	1.0	EPA 8270E	3-11-22	3-11-22	
1,2-Diphenylhydrazine	ND	1.0	EPA 8270E	3-11-22	3-11-22	
4-Bromophenyl-phenylether	ND	1.0	EPA 8270E	3-11-22	3-11-22	
Hexachlorobenzene	ND	1.0	EPA 8270E	3-11-22	3-11-22	
Pentachlorophenol	ND	5.0	EPA 8270E	3-11-22	3-11-22	
Phenanthrene	ND	0.10	EPA 8270E/SIM	3-11-22	3-11-22	
Anthracene	ND	0.10	EPA 8270E/SIM	3-11-22	3-11-22	
Carbazole	ND	1.0	EPA 8270E	3-11-22	3-11-22	
Di-n-butylphthalate	ND	5.0	EPA 8270E	3-11-22	3-11-22	
Fluoranthene	ND	0.10	EPA 8270E/SIM	3-11-22	3-11-22	
Pyrene	ND	0.10	EPA 8270E/SIM	3-11-22	3-11-22	
Butylbenzylphthalate	ND	1.0	EPA 8270E	3-11-22	3-11-22	
bis-2-Ethylhexyladipate	ND	5.0	EPA 8270E	3-11-22	3-11-22	
3,3'-Dichlorobenzidine	ND	1.0	EPA 8270E	3-11-22	3-11-22	
Benzo[a]anthracene	ND	0.010	EPA 8270E/SIM	3-11-22	3-11-22	
Chrysene	ND	0.010	EPA 8270E/SIM	3-11-22	3-11-22	
bis(2-Ethylhexyl)phthalate	ND	5.0	EPA 8270E	3-11-22	3-11-22	
Di-n-octylphthalate	ND	1.0	EPA 8270E	3-11-22	3-11-22	
Benzo[b]fluoranthene	ND	0.010	EPA 8270E/SIM	3-11-22	3-11-22	
Benzo(j,k)fluoranthene	ND	0.010	EPA 8270E/SIM	3-11-22	3-11-22	
Benzo[a]pyrene	ND	0.010	EPA 8270E/SIM	3-11-22	3-11-22	
Indeno[1,2,3-cd]pyrene	ND	0.010	EPA 8270E/SIM	3-11-22	3-11-22	
Dibenz[a,h]anthracene	ND	0.010	EPA 8270E/SIM	3-11-22	3-11-22	
Benzo[g,h,i]perylene	ND	0.010	EPA 8270E/SIM	3-11-22	3-11-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
2-Fluorophenol	51	10 - 82				
Phenol-d6	37	10 - 92				
Nitrobenzene-d5	75	32 - 105				
2-Fluorobiphenyl	67	38 - 105				
2,4,6-Tribromophenol	86	25 - 124				
Terphenyl-d14	75	42 - 116				



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**SEMIVOLATILE ORGANICS EPA 8270E/SIM
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD	RPD	Flags
					Recovery	Limits	Limit			
SPIKE BLANKS										
Laboratory ID:	SB0311W1									
	SB	SBD	SB	SBD	SB	SBD				
Phenol	14.9	12.8	40.0	40.0	37	32	21 - 53	15	26	
2-Chlorophenol	28.8	24.6	40.0	40.0	72	62	38 - 92	16	28	
1,4-Dichlorobenzene	10.5	9.56	20.0	20.0	53	48	30 - 88	9	32	
n-Nitroso-di-n-propylamine	15.0	13.2	20.0	20.0	75	66	40 - 103	13	27	
1,2,4-Trichlorobenzene	12.1	10.7	20.0	20.0	61	54	37 - 95	12	29	
4-Chloro-3-methylphenol	31.8	29.9	40.0	40.0	80	75	50 - 101	6	17	
Acenaphthene	14.0	13.3	20.0	20.0	70	67	46 - 97	5	19	
4-Nitrophenol	19.4	19.2	40.0	40.0	49	48	23 - 64	1	34	
2,4-Dinitrotoluene	14.9	14.3	20.0	20.0	75	72	46 - 100	4	17	
Pentachlorophenol	38.5	35.6	40.0	40.0	96	89	39 - 123	8	29	
Pyrene	14.8	14.4	20.0	20.0	74	72	52 - 107	3	19	
<i>Surrogate:</i>										
2-Fluorophenol					54	45	10 - 82			
Phenol-d6					39	33	10 - 92			
Nitrobenzene-d5					76	65	32 - 105			
2-Fluorobiphenyl					66	64	38 - 105			
2,4,6-Tribromophenol					87	80	25 - 124			
Terphenyl-d14					71	69	42 - 116			



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**PCBs EPA 8082A
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0310W1					
Aroclor 1016	ND	0.050	EPA 8082A	3-10-22	3-10-22	
Aroclor 1221	ND	0.050	EPA 8082A	3-10-22	3-10-22	
Aroclor 1232	ND	0.050	EPA 8082A	3-10-22	3-10-22	
Aroclor 1242	ND	0.050	EPA 8082A	3-10-22	3-10-22	
Aroclor 1248	ND	0.050	EPA 8082A	3-10-22	3-10-22	
Aroclor 1254	ND	0.050	EPA 8082A	3-10-22	3-10-22	
Aroclor 1260	ND	0.050	EPA 8082A	3-10-22	3-10-22	
Surrogate:	Percent Recovery	Control Limits				
DCB	48	42-140				

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS											
Laboratory ID:	SB0310W1										
	SB	SBD	SB	SBD		SB	SBD				
Aroclor 1260	0.408	0.408	0.500	0.500	N/A	82	82	73-131	0	12	
Surrogate:											
DCB						86	90	42-140			



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**ORGANOCHLORINE
 PESTICIDES EPA 8081B
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0310W1					
alpha-BHC	ND	0.0050	EPA 8081B	3-10-22	3-15-22	
gamma-BHC (Lindane)	ND	0.0050	EPA 8081B	3-10-22	3-15-22	
beta-BHC	ND	0.0050	EPA 8081B	3-10-22	3-15-22	
delta-BHC	ND	0.0050	EPA 8081B	3-10-22	3-15-22	
Heptachlor	ND	0.0050	EPA 8081B	3-10-22	3-15-22	
Aldrin	ND	0.0020	EPA 8081B	3-10-22	3-15-22	
Heptachlor Epoxide	ND	0.0030	EPA 8081B	3-10-22	3-15-22	
gamma-Chlordane	ND	0.0050	EPA 8081B	3-10-22	3-15-22	
alpha-Chlordane	ND	0.0050	EPA 8081B	3-10-22	3-15-22	
4,4'-DDE	ND	0.0050	EPA 8081B	3-10-22	3-15-22	
Endosulfan I	ND	0.0050	EPA 8081B	3-10-22	3-15-22	
Dieldrin	ND	0.0050	EPA 8081B	3-10-22	3-15-22	
Endrin	ND	0.0050	EPA 8081B	3-10-22	3-15-22	
4,4'-DDD	ND	0.0050	EPA 8081B	3-10-22	3-15-22	
Endosulfan II	ND	0.0050	EPA 8081B	3-10-22	3-15-22	
4,4'-DDT	ND	0.0050	EPA 8081B	3-10-22	3-15-22	
Endrin Aldehyde	ND	0.0050	EPA 8081B	3-10-22	3-15-22	
Methoxychlor	ND	0.010	EPA 8081B	3-10-22	3-15-22	
Endosulfan Sulfate	ND	0.0050	EPA 8081B	3-10-22	3-15-22	
Endrin Ketone	ND	0.020	EPA 8081B	3-10-22	3-15-22	
Toxaphene	ND	0.050	EPA 8081B	3-10-22	3-15-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
TCMX	56	25-114				
DCB	50	30-137				



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**ORGANOCHLORINE
 PESTICIDES EPA 8081B
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS											
Laboratory ID:	SB0310W2										
	SB	SBD	SB	SBD		SB	SBD				
alpha-BHC	0.0855	0.0766	0.100	0.100	N/A	85	77	42-113	11	19	
gamma-BHC (Lindane)	0.0829	0.0725	0.100	0.100	N/A	83	72	45-114	13	15	
beta-BHC	0.0823	0.0736	0.100	0.100	N/A	82	74	40-118	11	15	
delta-BHC	0.0875	0.0761	0.100	0.100	N/A	88	76	20-125	14	15	
Heptachlor	0.0774	0.0758	0.100	0.100	N/A	77	76	41-120	2	16	
Aldrin	0.0734	0.0736	0.100	0.100	N/A	73	74	35-115	0	15	
Heptachlor Epoxide	0.0818	0.0762	0.100	0.100	N/A	82	76	50-118	7	15	
gamma-Chlordane	0.0786	0.0700	0.100	0.100	N/A	79	70	46-110	12	15	
alpha-Chlordane	0.0783	0.0702	0.100	0.100	N/A	78	70	38-112	11	15	
4,4'-DDE	0.0837	0.0754	0.100	0.100	N/A	84	75	41-127	10	15	
Endosulfan I	0.0848	0.0771	0.100	0.100	N/A	85	77	45-119	10	15	
Dieldrin	0.0841	0.0743	0.100	0.100	N/A	84	74	46-115	12	15	
Endrin	0.0977	0.0854	0.100	0.100	N/A	98	85	52-124	13	15	
4,4'-DDD	0.0946	0.0836	0.100	0.100	N/A	95	84	52-121	12	15	
Endosulfan II	0.0875	0.0760	0.100	0.100	N/A	87	76	44-114	14	15	
4,4'-DDT	0.0929	0.0899	0.100	0.100	N/A	93	90	48-123	3	15	
Endrin Aldehyde	0.101	0.0913	0.100	0.100	N/A	101	91	45-114	10	15	
Methoxychlor	0.123	0.107	0.100	0.100	N/A	123	107	49-130	14	15	
Endosulfan Sulfate	0.0859	0.0754	0.100	0.100	N/A	86	75	39-117	13	15	
Endrin Ketone	0.0842	0.0768	0.100	0.100	N/A	84	77	53-119	9	15	
Surrogate:											
TCMX						60	64	25-114			
DCB						80	67	30-137			



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**TOTAL METALS
 EPA 200.7/200.8/7470A
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0311WH1					
Iron	ND	50	EPA 200.7	3-11-22	3-11-22	
Magnesium	ND	1000	EPA 200.7	3-11-22	3-11-22	
Manganese	ND	10	EPA 200.7	3-11-22	3-11-22	
Laboratory ID:	MB0314WM1					
Arsenic	ND	3.3	EPA 200.8	3-14-22	3-14-22	
Cadmium	ND	4.4	EPA 200.8	3-14-22	3-14-22	
Chromium	ND	11	EPA 200.8	3-14-22	3-14-22	
Copper	ND	11	EPA 200.8	3-14-22	3-14-22	
Lead	ND	1.1	EPA 200.8	3-14-22	3-14-22	
Nickel	ND	22	EPA 200.8	3-14-22	3-14-22	
Selenium	ND	5.6	EPA 200.8	3-14-22	3-14-22	
Zinc	ND	28	EPA 200.8	3-14-22	3-14-22	
Laboratory ID:	MB0316W1					
Mercury	ND	0.025	EPA 7470A	3-16-22	3-16-22	



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TOTAL METALS
EPA 200.7/200.8/7470A
QUALITY CONTROL

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result		Spike Level		Source	Percent	Recovery	RPD		Flags
					Result	Recovery	Limits	RPD	Limit	
DUPLICATE										
Laboratory ID: 03-089-01										
	ORIG	DUP								
Iron	131	188	NA	NA		NA	NA	36	20	C
Magnesium	13300	13900	NA	NA		NA	NA	4	20	
Manganese	266	278	NA	NA		NA	NA	4	20	
Laboratory ID: 03-091-01										
Arsenic	ND	ND	NA	NA		NA	NA	NA	20	
Cadmium	ND	ND	NA	NA		NA	NA	NA	20	
Chromium	ND	ND	NA	NA		NA	NA	NA	20	
Copper	ND	ND	NA	NA		NA	NA	NA	20	
Lead	ND	ND	NA	NA		NA	NA	NA	20	
Nickel	ND	ND	NA	NA		NA	NA	NA	20	
Selenium	ND	ND	NA	NA		NA	NA	NA	20	
Zinc	ND	ND	NA	NA		NA	NA	NA	20	
Laboratory ID: 03-124-01										
Mercury	ND	ND	NA	NA		NA	NA	NA	20	
MATRIX SPIKES										
Laboratory ID: 03-089-01										
	MS	MSD	MS	MSD		MS	MSD			
Iron	20800	20600	20000	20000	131	103	102	75-125	1	20
Magnesium	32400	31700	20000	20000	13300	96	92	75-125	2	20
Manganese	740	727	500	500	266	95	92	75-125	2	20
Laboratory ID: 03-091-01										
Arsenic	122	118	111	111	ND	110	106	75-125	4	20
Cadmium	118	108	111	111	ND	107	97	75-125	9	20
Chromium	117	108	111	111	ND	106	98	75-125	8	20
Copper	110	100	111	111	ND	99	90	75-125	9	20
Lead	113	102	111	111	ND	102	92	75-125	10	20
Nickel	112	102	111	111	ND	101	92	75-125	10	20
Selenium	125	111	111	111	ND	113	100	75-125	11	20
Zinc	116	109	111	111	ND	105	98	75-125	7	20
Laboratory ID: 03-124-01										
Mercury	6.35	6.38	6.25	6.25	ND	102	102	75-125	0	20



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**DISSOLVED METALS
 EPA 200.7/200.8/7470A
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0315D1					
Calcium	ND	1100	EPA 200.7		3-15-22	
Iron	ND	56	EPA 200.7		3-15-22	
Magnesium	ND	1100	EPA 200.7		3-15-22	
Manganese	ND	11	EPA 200.7		3-15-22	
Potassium	ND	1100	EPA 200.7		3-15-22	
Sodium	ND	1100	EPA 200.7		3-15-22	
Laboratory ID:	MB0309F1					
Arsenic	ND	3.0	EPA 200.8		3-10-22	
Cadmium	ND	4.0	EPA 200.8		3-10-22	
Chromium	ND	10	EPA 200.8		3-10-22	
Copper	ND	10	EPA 200.8		3-10-22	
Lead	ND	1.0	EPA 200.8		3-10-22	
Nickel	ND	20	EPA 200.8		3-10-22	
Selenium	ND	5.0	EPA 200.8		3-10-22	
Zinc	ND	25	EPA 200.8		3-10-22	
Laboratory ID:	MB0311D1					
Mercury	ND	0.025	EPA 7470A		3-11-22	



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DISSOLVED METALS
EPA 200.7/200.8/7470A
QUALITY CONTROL

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result		Spike Level		Source	Percent	Recovery	RPD		Flags
					Result	Recovery	Limits	RPD	Limit	
DUPLICATE										
Laboratory ID:	03-124-01									
	ORIG	DUP								
Calcium	24100	24400	NA	NA	NA	NA	NA	1	20	
Iron	ND	ND	NA	NA	NA	NA	NA	NA	20	
Magnesium	13000	13200	NA	NA	NA	NA	NA	2	20	
Manganese	178	181	NA	NA	NA	NA	NA	2	20	
Potassium	1860	1820	NA	NA	NA	NA	NA	2	20	
Sodium	7050	7030	NA	NA	NA	NA	NA	0	20	
Laboratory ID:	03-114-01									
Arsenic	ND	ND	NA	NA	NA	NA	NA	NA	20	
Cadmium	ND	ND	NA	NA	NA	NA	NA	NA	20	
Chromium	ND	ND	NA	NA	NA	NA	NA	NA	20	
Copper	ND	ND	NA	NA	NA	NA	NA	NA	20	
Lead	ND	ND	NA	NA	NA	NA	NA	NA	20	
Nickel	ND	ND	NA	NA	NA	NA	NA	NA	20	
Selenium	ND	ND	NA	NA	NA	NA	NA	NA	20	
Zinc	ND	ND	NA	NA	NA	NA	NA	NA	20	
Laboratory ID:	03-089-01									
Mercury	ND	ND	NA	NA	NA	NA	NA	NA	20	



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**DISSOLVED METALS
 EPA 200.7/200.8/7470A
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result		Spike Level		Source	Percent	Recovery	RPD		
					Result	Recovery	Limits	RPD	Limit	Flags
MATRIX SPIKES										
Laboratory ID:	03-124-01									
	MS	MSD	MS	MSD		MS	MSD			
Calcium	48000	47800	22200	22200	24100	108	107	75-125	0	20
Iron	25600	25900	22200	22200	ND	116	117	75-125	1	20
Magnesium	36500	36500	22200	22200	13000	106	106	75-125	0	20
Manganese	729	727	556	556	178	99	99	75-125	0	20
Potassium	28000	28300	22200	22200	1860	118	119	75-125	1	20
Sodium	30700	30900	22200	22200	7050	107	107	75-125	0	20
Laboratory ID:	03-114-01									
Arsenic	82.6	81.4	80.0	80.0	ND	103	102	75-125	1	20
Cadmium	78.8	79.0	80.0	80.0	ND	99	99	75-125	0	20
Chromium	76.0	74.4	80.0	80.0	ND	95	93	75-125	2	20
Copper	72.2	71.4	80.0	80.0	ND	90	89	75-125	1	20
Lead	77.4	76.2	80.0	80.0	ND	97	95	75-125	2	20
Nickel	75.6	74.8	80.0	80.0	ND	95	94	75-125	1	20
Selenium	77.4	76.2	80.0	80.0	ND	97	95	75-125	2	20
Zinc	83.6	84.4	80.0	80.0	ND	105	106	75-125	1	20
Laboratory ID:	03-089-01									
Mercury	6.05	6.03	6.25	6.25	ND	97	96	75-125	0	20



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**TOTAL ALKALINITY
 SM 2320B
 QUALITY CONTROL**

Matrix: Water
 Units: mg CaCO₃/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0311W1					
Total Alkalinity	ND	2.0	SM 2320B	3-11-22	3-11-22	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	03-052-02							
	ORIG	DUP						
Total Alkalinity	25.0	25.5	NA	NA	NA	2	10	

SPIKE BLANK								
Laboratory ID:	SB0311W1							
	SB	SB		SB				
Total Alkalinity	104	100	NA	104	89-110	NA	NA	



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**BICARBONATE
 SM 2320B
 QUALITY CONTROL**

Matrix: Water
 Units: mg CaCO₃/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0311W1					
Bicarbonate Concentration	ND	2.0	SM 2320B	3-11-22	3-11-22	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	03-052-02							
	ORIG	DUP						
Total Alkalinity	25.0	25.5	NA	NA	NA	2	10	

SPIKE BLANK								
Laboratory ID:	SB0311W1							
	SB	SB		SB				
Total Alkalinity	104	100	NA	104	89-110	NA	NA	



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**TOTAL DISSOLVED SOLIDS
 SM 2540C
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0311W1					
Total Dissolved Solids	ND	13	SM 2540C	3-11-22	3-11-22	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	03-120-02							
	ORIG	DUP						
Total Dissolved Solids	360	376	NA	NA	NA	4	29	

SPIKE BLANK								
Laboratory ID:	SB0311W1							
	SB	SB		SB				
Total Dissolved Solids	489	500	NA	98	84-110	NA	NA	



Date of Report: March 24, 2022
 Samples Submitted: March 7, 2022
 Laboratory Reference: 2203-089
 Project: 6694-002-05 T700

**CHLORIDE
 SM 4500-Cl E
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0311W1					
Chloride	ND	2.0	SM 4500-Cl E	3-11-22	3-11-22	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	03-089-01							
	ORIG	DUP						
Chloride	6.16	6.12	NA	NA	NA	1	15	

MATRIX SPIKE								
Laboratory ID:	03-089-01							
	MS	MS		MS				
Chloride	58.2	50.0	6.16	104	86-115	NA	NA	

SPIKE BLANK								
Laboratory ID:	SB0311W1							
	SB	SB		SB				
Chloride	50.7	50.0	NA	101	86-115	NA	NA	



Date of Report: March 24, 2022
 Samples Submitted: March 7, 2022
 Laboratory Reference: 2203-089
 Project: 6694-002-05 T700

**NITRATE (as Nitrogen)
 EPA 353.2
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L-N

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0311W1					
Nitrate	ND	0.050	EPA 353.2	3-11-22	3-11-22	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	03-089-01							
	ORIG	DUP						
Nitrate	ND	ND	NA	NA	NA	NA	16	

MATRIX SPIKE								
Laboratory ID:	03-089-01							
	MS	MS		MS				
Nitrate	2.37	2.00	ND	119	92-125	NA	NA	

SPIKE BLANK								
Laboratory ID:	SB0311W1							
	SB	SB		SB				
Nitrate	2.25	2.00	NA	113	90-121	NA	NA	



Date of Report: March 24, 2022
 Samples Submitted: March 7, 2022
 Laboratory Reference: 2203-089
 Project: 6694-002-05 T700

**SULFATE
 ASTM D516-11
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0314W1					
Sulfate	ND	5.0	ASTM D516-11	3-14-22	3-14-22	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	03-080-04							
	ORIG	DUP						
Sulfate	8.40	8.46	NA	NA	NA	1	10	

MATRIX SPIKE								
Laboratory ID:	03-080-04							
	MS	MS		MS				
Sulfate	18.2	10.0	8.40	98	69-139	NA	NA	

SPIKE BLANK								
Laboratory ID:	SB0314W1							
	SB	SB		SB				
Sulfate	8.91	10.0	NA	89	89-117	NA	NA	



Date of Report: March 24, 2022
 Samples Submitted: March 7, 2022
 Laboratory Reference: 2203-089
 Project: 6694-002-05 T700

**AMMONIA (as Nitrogen)
 SM 4500-NH₃ D
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0310W1					
Ammonia	ND	0.050	SM 4500-NH3 D	3-10-22	3-10-22	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	03-034-01							
	ORIG	DUP						
Ammonia	ND	ND	NA	NA	NA	NA	19	

MATRIX SPIKE								
Laboratory ID:	03-034-01							
	MS	MS		MS				
Ammonia	4.82	5.00	ND	96	80-113	NA	NA	

SPIKE BLANK								
Laboratory ID:	SB0310W1							
	SB	SB		SB				
Ammonia	4.82	5.00	NA	96	88-110	NA	NA	





Data Qualifiers and Abbreviations

- A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.
 - B - The analyte indicated was also found in the blank sample.
 - C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.
 - E - The value reported exceeds the quantitation range and is an estimate.
 - F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.
 - H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.
 - I - Compound recovery is outside of the control limits.
 - J - The value reported was below the practical quantitation limit. The value is an estimate.
 - K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.
 - L - The RPD is outside of the control limits.
 - M - Hydrocarbons in the gasoline range are impacting the diesel range result.
 - M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.
 - N - Hydrocarbons in the lube oil range are impacting the diesel range result.
 - N1 - Hydrocarbons in diesel range are impacting lube oil range results.
 - O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.
 - P - The RPD of the detected concentrations between the two columns is greater than 40.
 - Q - Surrogate recovery is outside of the control limits.
 - S - Surrogate recovery data is not available due to the necessary dilution of the sample.
 - T - The sample chromatogram is not similar to a typical _____.
 - U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
 - U1 - The practical quantitation limit is elevated due to interferences present in the sample.
 - V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.
 - W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.
 - X - Sample extract treated with a mercury cleanup procedure.
 - X1 - Sample extract treated with a sulfuric acid/silica gel cleanup procedure.
 - Y - The calibration verification for this analyte exceeded the 20% drift specified in methods 8260 & 8270, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.
 - Z -
- ND - Not Detected at PQL
 PQL - Practical Quantitation Limit
 RPD - Relative Percent Difference





OnSite Environmental Inc

David Baumeister
14648 NE 95th Street
Redmond, WA 98052

RE: 03-089

Work Order Number: 2203262

March 24, 2022

Attention David Baumeister:

Fremont Analytical, Inc. received 1 sample(s) on 3/10/2022 for the analyses presented in the following report.

Herbicides by EPA Method 8151A (GC/MS)

This report consists of the following:

- Case Narrative
- Analytical Results
- Applicable Quality Control Summary Reports
- Chain of Custody

All analyses were performed consistent with the Quality Assurance program of Fremont Analytical, Inc. Please contact the laboratory if you should have any questions about the results.

Thank you for using Fremont Analytical.

Sincerely,

Brianna Barnes
Project Manager



CLIENT: OnSite Environmental Inc
Project: 03-089
Work Order: 2203262

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received
2203262-001	GW-5-20220307	03/07/2022 2:30 PM	03/10/2022 11:36 AM

DRAFT

Note: If no "Time Collected" is supplied, a default of 12:00AM is assigned

CLIENT: OnSite Environmental Inc

Project: 03-089

I. SAMPLE RECEIPT:

Samples receipt information is recorded on the attached Sample Receipt Checklist.

II. GENERAL REPORTING COMMENTS:

Results are reported on a wet weight basis unless dry-weight correction is denoted in the units field on the analytical report ("mg/kg-dry" or "ug/kg-dry").

Matrix Spike (MS) and MS Duplicate (MSD) samples are tested from an analytical batch of "like" matrix to check for possible matrix effect. The MS and MSD will provide site specific matrix data only for those samples which are spiked by the laboratory. The sample chosen for spike purposes may or may not have been a sample submitted in this sample delivery group. The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The LCS and the MB are processed with the samples and the MS/MSD to ensure method criteria are achieved throughout the entire analytical process.

III. ANALYSES AND EXCEPTIONS:

Exceptions associated with this report will be footnoted in the analytical results page(s) or the quality control summary page(s) and/or noted below.

DRAFT

Qualifiers:

- * - Flagged value is not within established control limits
- B - Analyte detected in the associated Method Blank
- D - Dilution was required
- E - Value above quantitation range
- H - Holding times for preparation or analysis exceeded
- I - Analyte with an internal standard that does not meet established acceptance criteria
- J - Analyte detected below Reporting Limit
- N - Tentatively Identified Compound (TIC)
- Q - Analyte with an initial or continuing calibration that does not meet established acceptance criteria
- S - Spike recovery outside accepted recovery limits
- ND - Not detected at the Reporting Limit
- R - High relative percent difference observed

Acronyms:

- %Rec - Percent Recovery
- CCB - Continued Calibration Blank
- CCV - Continued Calibration Verification
- DF - Dilution Factor
- DUP - Sample Duplicate
- HEM - Hexane Extractable Material
- ICV - Initial Calibration Verification
- LCS/LCSD - Laboratory Control Sample / Laboratory Control Sample Duplicate
- MCL - Maximum Contaminant Level
- MB or MBLANK - Method Blank
- MDL - Method Detection Limit
- MS/MSD - Matrix Spike / Matrix Spike Duplicate
- PDS - Post Digestion Spike
- Ref Val - Reference Value
- REP - Sample Replicate
- RL - Reporting Limit
- RPD - Relative Percent Difference
- SD - Serial Dilution
- SGT - Silica Gel Treatment
- SPK - Spike
- Surr - Surrogate



Client: OnSite Environmental Inc
Project: 03-089
Lab ID: 2203262-001
Client Sample ID: GW-5-20220307

Collection Date: 3/7/2022 2:30:00 PM
Matrix: Water

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Herbicides by EPA Method 8151A (GC/MS)

Batch ID: 35716 Analyst: SB

Dicamba	ND	0.996		µg/L	1	3/21/2022 1:01:23 PM
2,4-D	ND	0.996		µg/L	1	3/21/2022 1:01:23 PM
2,4-DP	ND	0.996		µg/L	1	3/21/2022 1:01:23 PM
2,4,5-TP (Silvex)	ND	0.996		µg/L	1	3/21/2022 1:01:23 PM
2,4,5-T	ND	0.996		µg/L	1	3/21/2022 1:01:23 PM
Dinoseb	ND	0.996		µg/L	1	3/21/2022 1:01:23 PM
Dalapon	ND	1.99		µg/L	1	3/21/2022 1:01:23 PM
2,4-DB	ND	0.996		µg/L	1	3/21/2022 1:01:23 PM
MCPP	ND	4.98		µg/L	1	3/21/2022 1:01:23 PM
MCPA	ND	4.98		µg/L	1	3/21/2022 1:01:23 PM
Picloram	ND	0.996		µg/L	1	3/21/2022 1:01:23 PM
Bentazon	ND	0.996		µg/L	1	3/21/2022 1:01:23 PM
Chloramben	ND	0.996		µg/L	1	3/21/2022 1:01:23 PM
Acifluorfen	ND	4.98		µg/L	1	3/21/2022 1:01:23 PM
3,5-Dichlorobenzoic acid	ND	0.996		µg/L	1	3/21/2022 1:01:23 PM
4-Nitrophenol	ND	0.996		µg/L	1	3/21/2022 1:01:23 PM
Dacthal (DCPA)	ND	1.99		µg/L	1	3/21/2022 1:01:23 PM
Surr: 2,4-Dichlorophenylacetic acid	91.9	65.7 - 136		%Rec	1	3/21/2022 1:01:23 PM

Work Order: 2203262
 CLIENT: OnSite Environmental Inc
 Project: 03-089

QC SUMMARY REPORT
Herbicides by EPA Method 8151A (GC/MS)

Sample ID: MB-35716	SampType: MBLK	Units: µg/L	Prep Date: 3/14/2022	RunNo: 74173							
Client ID: MBLKW	Batch ID: 35716		Analysis Date: 3/21/2022	SeqNo: 1521239							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Dicamba	ND	1.00									
2,4-D	ND	1.00									
2,4-DP	ND	1.00									
2,4,5-TP (Silvex)	ND	1.00									
2,4,5-T	ND	1.00									
Dinoseb	ND	1.00									
Dalapon	ND	2.00									
2,4-DB	ND	1.00									
MCPP	ND	5.00									
MCPA	ND	5.00									
Picloram	ND	1.00									
Bentazon	ND	1.00									
Chloramben	ND	1.00									
Acifluorfen	ND	5.00									
3,5-Dichlorobenzoic acid	ND	1.00									
4-Nitrophenol	ND	1.00									
Dacthal (DCPA)	ND	2.00									
Surr: 2,4-Dichlorophenylacetic acid	15.5		20.00		77.7	65.7	136				

Sample ID: LCS-35716	SampType: LCS	Units: µg/L	Prep Date: 3/14/2022	RunNo: 74173							
Client ID: LCSW	Batch ID: 35716		Analysis Date: 3/21/2022	SeqNo: 1521240							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Dicamba	3.21	1.00	4.000	0	80.1	16.6	148				
2,4-D	3.48	1.00	4.000	0	86.9	50.4	150				
2,4-DP	3.29	1.00	4.000	0	82.1	53	135				
2,4,5-TP (Silvex)	3.24	1.00	4.000	0	81.1	53.6	140				
2,4,5-T	3.27	1.00	4.000	0	81.8	50	141				
Dinoseb	2.25	1.00	4.000	0	56.2	5	119				
Dalapon	12.6	2.00	20.00	0	62.9	5.65	97.2				

Work Order: 2203262
 CLIENT: OnSite Environmental Inc
 Project: 03-089

QC SUMMARY REPORT
Herbicides by EPA Method 8151A (GC/MS)

Sample ID: LCS-35716	SampType: LCS	Units: µg/L	Prep Date: 3/14/2022	RunNo: 74173							
Client ID: LCSW	Batch ID: 35716		Analysis Date: 3/21/2022	SeqNo: 1521240							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
2,4-DB	3.31	1.00	4.000	0	82.7	54.9	141				
MCPP	16.9	5.00	20.00	0	84.3	28.7	166				
MCPA	17.4	5.00	20.00	0	87.0	20.7	176				
Picloram	2.24	1.00	4.000	0	56.1	9.72	120				
Bentazon	2.82	1.00	4.000	0	70.5	41.2	141				
Chloramben	1.40	1.00	4.000	0	35.1	5	109				
Acifluorfen	2.03	5.00	4.000	0	50.9	7.62	139				
3,5-Dichlorobenzoic acid	2.93	1.00	4.000	0	73.2	52.4	120				
4-Nitrophenol	1.89	1.00	4.000	0	47.2	5	107				
Dacthal (DCPA)	1.50	2.00	4.000	0	37.4	5	65.4				
Surr: 2,4-Dichlorophenylacetic acid	17.5		20.00		87.5	65.7	136				

Sample ID: LCS-D-35716	SampType: LCS-D	Units: µg/L	Prep Date: 3/14/2022	RunNo: 74173							
Client ID: LCSW02	Batch ID: 35716		Analysis Date: 3/21/2022	SeqNo: 1521241							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dicamba	2.90	1.00	4.000	0	72.5	16.6	148	3.206	9.95	30	
2,4-D	3.18	1.00	4.000	0	79.4	50.4	150	3.476	9.01	30	
2,4-DP	2.98	1.00	4.000	0	74.6	53	135	3.286	9.62	30	
2,4,5-TP (Silvex)	2.96	1.00	4.000	0	73.9	53.6	140	3.243	9.20	30	
2,4,5-T	2.93	1.00	4.000	0	73.1	50	141	3.270	11.1	30	
Dinoseb	2.12	1.00	4.000	0	53.1	5	119	2.247	5.71	30	
Dalapon	11.4	2.00	20.00	0	57.0	5.65	97.2	12.58	9.80	30	
2,4-DB	3.02	1.00	4.000	0	75.5	54.9	141	3.306	9.04	30	
MCPP	15.5	5.00	20.00	0	77.6	28.7	166	16.85	8.19	30	
MCPA	16.1	5.00	20.00	0	80.7	20.7	176	17.39	7.44	30	
Picloram	1.81	1.00	4.000	0	45.2	9.72	120	2.245	21.7	30	
Bentazon	2.55	1.00	4.000	0	63.8	41.2	141	2.819	9.99	30	
Chloramben	0.980	1.00	4.000	0	24.5	5	109	1.404	35.6	30	
Acifluorfen	1.90	5.00	4.000	0	47.4	7.62	139	2.034	6.99	30	

Work Order: 2203262
 CLIENT: OnSite Environmental Inc
 Project: 03-089

QC SUMMARY REPORT
Herbicides by EPA Method 8151A (GC/MS)

Sample ID: LCS D-35716	SampType: LCS D	Units: µg/L	Prep Date: 3/14/2022	RunNo: 74173							
Client ID: LCS W02	Batch ID: 35716		Analysis Date: 3/21/2022	SeqNo: 1521241							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

3,5-Dichlorobenzoic acid	2.69	1.00	4.000	0	67.2	52.4	120	2.929	8.54	30	
4-Nitrophenol	1.65	1.00	4.000	0	41.1	5	107	1.886	13.6	30	
Dacthal (DCPA)	1.34	2.00	4.000	0	33.4	5	65.4	1.496	11.2	30	
Surr: 2,4-Dichlorophenylacetic acid	16.4		20.00		82.0	65.7	136		0		

Sample ID: 2203262-001AMS	SampType: MS	Units: µg/L	Prep Date: 3/14/2022	RunNo: 74173							
Client ID: GW-5-20220307	Batch ID: 35716		Analysis Date: 3/21/2022	SeqNo: 1521244							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Dicamba	3.43	0.996	3.983	0	86.1	31	142				
2,4-D	3.71	0.996	3.983	0	93.2	50.3	149				
2,4-DP	3.48	0.996	3.983	0	87.3	49.9	143				
2,4,5-TP (Silvex)	3.53	0.996	3.983	0	88.8	47.7	141				
2,4,5-T	3.50	0.996	3.983	0	87.8	34.4	139				
Dinoseb	2.94	0.996	3.983	0	73.8	27.3	117				
Dalapon	13.5	1.99	19.91	0	67.8	14.2	113				
2,4-DB	3.56	0.996	3.983	0	89.3	31.3	147				
MCPP	17.9	4.98	19.91	0	90.1	30.5	177				
MCPA	18.5	4.98	19.91	0	92.9	36.8	163				
Picloram	2.67	0.996	3.983	0	66.9	18.8	115				
Bentazon	3.03	0.996	3.983	0	76.1	11.9	176				
Chloramben	1.79	0.996	3.983	0	44.9	5	112				
Acifluorfen	2.70	4.98	3.983	0	67.7	28.1	146				
3,5-Dichlorobenzoic acid	3.17	0.996	3.983	0	79.6	36.2	146				
4-Nitrophenol	1.57	0.996	3.983	0	39.3	5	116				
Dacthal (DCPA)	1.51	1.99	3.983	0	38.0	5	84.6				
Surr: 2,4-Dichlorophenylacetic acid	19.4		19.91		97.2	65.7	136				

Client Name: **ONSITE**

 Work Order Number: **2203262**

 Logged by: **Elisabeth Samoray**

 Date Received: **3/10/2022 11:36:00 AM**
Chain of Custody

1. Is Chain of Custody complete? Yes No Not Present
2. How was the sample delivered? Client

Log In

3. Coolers are present? Yes No NA
4. Shipping container/cooler in good condition? Yes No
5. Custody Seals present on shipping container/cooler?
(Refer to comments for Custody Seals not intact) Yes No Not Present
6. Was an attempt made to cool the samples? Yes No NA
7. Were all items received at a temperature of >2°C to 6°C * Yes No NA
8. Sample(s) in proper container(s)? Yes No
9. Sufficient sample volume for indicated test(s)? Yes No
10. Are samples properly preserved? Yes No
11. Was preservative added to bottles? Yes No NA
12. Is there headspace in the VOA vials? Yes No NA
13. Did all samples containers arrive in good condition(unbroken)? Yes No
14. Does paperwork match bottle labels? Yes No
15. Are matrices correctly identified on Chain of Custody? Yes No
16. Is it clear what analyses were requested? Yes No
17. Were all holding times able to be met? Yes No

Special Handling (if applicable)

18. Was client notified of all discrepancies with this order? Yes No NA

Person Notified:	<input type="text"/>	Date:	<input type="text"/>
By Whom:	<input type="text"/>	Via:	<input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:	<input type="text"/>		
Client Instructions:	<input type="text"/>		

19. Additional remarks:

Item Information

Item #	Temp °C
Sample 1	5.8

* Note: DoD/ELAP and TNI require items to be received at 4°C +/- 2°C



14648 NE 95th Street, Redmond, WA 98052 · (425) 883-3881

Laboratory: Fremont Analytical
 Attention: Chelsea Ward
 3600 Fremont Avenue N, Seattle, WA 98103
 Phone Number: (206) 352-3790

2203262

Laboratory Reference #: 03-089

Project Manager: David Baumeister
 email: dbaumeister@onsite-env.com
 Project Number: 6694-002-05
 Project Name:

Turnaround Request

1 Day 2 Day 3 Day

Standard

Other: _____

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	# of Cont.	Requested Analyses
	GW-5-20220307	3/7/22	14:30	W	1	Chlorinated Acid Herbicides 8151A
<p>HOLD TIME 3/14 14:30</p>						
Signature		Company		Date	Time	Comments/Special Instructions
Relinquished by: <i>[Signature]</i>		OSE		3/10/22	1030	EDDs
Received by: <i>[Signature]</i>		Saly		3/10/22	1030	
Relinquished by: <i>[Signature]</i>		Saly		3/10/22	1133	
Received by: <i>[Signature]</i>		FAI		3/10/22	11:36	
Relinquished by:						
Received by:						



Analytical Laboratory Testing Services
 14648 NE 95th Street • Redmond, WA 98052
 Phone: (425) 883-3881 • www.onsite-env.com

Chain of Custody

Company: GeoEngineers

Project Number: 6694-002-05

Project Name: Go East

Project Manager: Ganett Legue

Sampled by: Akanksha Gay

Turnaround Request (in working days)

(Check One)

Same Day 1 Day

2 Days 3 Days

Standard (7 Days)

_____ (other)

Laboratory Number: **03-089**

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers
1	Gw-5-20220307	3/7/22	1430	Aq.	20 21

NWTPH-HCID	NWTPH-Gx/BTEX	NWTPH-Gx	NWTPH-Dx <input checked="" type="checkbox"/> Acid / SG Clean-up)	Volatiles 8260D	Halogenated Volatiles 8260D	EDB EPA 8011 (Waters Only)	Semivolatiles 8270E/SIM (with low-level PAHs)	PAHs 8270E/SIM (low-level)	PCBs 8082A	Organochlorine Pesticides 8081B	Organophosphorus Pesticides 8270E/SIM	Chlorinated Acid Herbicides 8151A	Total PCPA Metals	Total MTGA Metals DISSOLVED	Total MLP Metals DISSOLVED	HEM (oil and grease) 1664A	NH₃, TDS, TPE	Alkalinity + bicarbonate sm 300 B	Cl, NO ₃ , SO ₄ , % Moisture
	X	X	X				X		X	X	X	X	X	X	X		X	X	X

	Signature	Company	Date	Time	Comments/Special Instructions
Relinquished	<u>Akanksha Gay</u>	<u>GEI</u>	<u>3/7</u>	<u>1541</u>	<u>T/D Metals: As, Cd, Cr, Cu, Fe, Pb, Mn, Hg, Ni, Se, Mg, Zn</u>
Received	<u>Celia Jones</u>	<u>SPEDY</u>	<u>3/7</u>	<u>15:41</u>	
Relinquished	<u>Celia Jones</u>	<u>"</u>	<u>3/7</u>	<u>14:16</u>	
Received	<u>[Signature]</u>	<u>GEI</u>	<u>3/7/22</u>	<u>1616</u>	
Relinquished					
Received					Data Package: Standard <input type="checkbox"/> Level III <input type="checkbox"/> Level IV <input type="checkbox"/>
Reviewed/Date		Reviewed/Date			Chromatograms with final report <input type="checkbox"/> Electronic Data Deliverables (EDDs) <input type="checkbox"/>



14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

March 24, 2022

Garrett Leque
GeoEngineers, Inc.
554 West Bakerview Road
Bellingham, WA 98226

Re: Analytical Data for Project 6694-002-05 T700
Laboratory Reference No. 2203-124

Dear Garrett:

Enclosed are the analytical results and associated quality control data for samples submitted on March 9, 2022.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

A handwritten signature in black ink, appearing to read "DB", with a long horizontal stroke extending to the right.

David Baumeister
Project Manager

Enclosures



OnSite Environmental, Inc. 14648 NE 95th Street, Redmond, WA 98052 (425) 883-3881

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: March 24, 2022
Samples Submitted: March 9, 2022
Laboratory Reference: 2203-124
Project: 6694-002-05 T700

Case Narrative

Samples were collected on March 9, 2022 and received by the laboratory on March 9, 2022. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.



Date of Report: March 24, 2022
Samples Submitted: March 9, 2022
Laboratory Reference: 2203-124
Project: 6694-002-05 T700

ANALYTICAL REPORT FOR SAMPLES

Client ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
MW-3-30922	03-124-01	Water	3-9-22	3-9-22	

DRAFT



Date of Report: March 24, 2022
 Samples Submitted: March 9, 2022
 Laboratory Reference: 2203-124
 Project: 6694-002-05 T700

GASOLINE RANGE ORGANICS
NWTPH-Gx

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-3-30922					
Laboratory ID:	03-124-01					
Gasoline	ND	100	NWTPH-Gx	3-10-22	3-10-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	88	66-117				



Date of Report: March 24, 2022
 Samples Submitted: March 9, 2022
 Laboratory Reference: 2203-124
 Project: 6694-002-05 T700

DIESEL AND HEAVY OIL RANGE ORGANICS
NWTPH-Dx

Matrix: Water
 Units: mg/L (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-3-30922					
Laboratory ID:	03-124-01					
Diesel Range Organics	ND	0.23	NWTPH-Dx	3-15-22	3-15-22	X1
Lube Oil Range Organics	ND	0.23	NWTPH-Dx	3-15-22	3-15-22	X1
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	<i>108</i>	<i>50-150</i>				



Date of Report: March 24, 2022
 Samples Submitted: March 9, 2022
 Laboratory Reference: 2203-124
 Project: 6694-002-05 T700

VOLATILE ORGANICS EPA 8260D
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-3-30922					
Laboratory ID:	03-124-01					
Dichlorodifluoromethane	ND	100	EPA 8260D	3-11-22	3-11-22	
Chloromethane	ND	100	EPA 8260D	3-11-22	3-11-22	
Vinyl Chloride	ND	20	EPA 8260D	3-11-22	3-11-22	
Bromomethane	ND	100	EPA 8260D	3-11-22	3-11-22	
Chloroethane	ND	100	EPA 8260D	3-11-22	3-11-22	
Trichlorofluoromethane	ND	20	EPA 8260D	3-11-22	3-11-22	
1,1-Dichloroethene	ND	20	EPA 8260D	3-11-22	3-11-22	
Acetone	3900	500	EPA 8260D	3-11-22	3-11-22	
Iodomethane	ND	500	EPA 8260D	3-11-22	3-11-22	
Carbon Disulfide	ND	20	EPA 8260D	3-11-22	3-11-22	
Methylene Chloride	ND	100	EPA 8260D	3-11-22	3-11-22	
(trans) 1,2-Dichloroethene	ND	20	EPA 8260D	3-11-22	3-11-22	
Methyl t-Butyl Ether	ND	20	EPA 8260D	3-11-22	3-11-22	
1,1-Dichloroethane	ND	20	EPA 8260D	3-11-22	3-11-22	
Vinyl Acetate	ND	100	EPA 8260D	3-11-22	3-11-22	
2,2-Dichloropropane	ND	20	EPA 8260D	3-11-22	3-11-22	
(cis) 1,2-Dichloroethene	ND	20	EPA 8260D	3-11-22	3-11-22	
2-Butanone	540	500	EPA 8260D	3-11-22	3-11-22	
Bromochloromethane	ND	20	EPA 8260D	3-11-22	3-11-22	
Chloroform	ND	20	EPA 8260D	3-11-22	3-11-22	
1,1,1-Trichloroethane	ND	20	EPA 8260D	3-11-22	3-11-22	
Carbon Tetrachloride	ND	20	EPA 8260D	3-11-22	3-11-22	
1,1-Dichloropropene	ND	20	EPA 8260D	3-11-22	3-11-22	
Benzene	ND	20	EPA 8260D	3-11-22	3-11-22	
1,2-Dichloroethane	ND	20	EPA 8260D	3-11-22	3-11-22	
Trichloroethene	ND	20	EPA 8260D	3-11-22	3-11-22	
1,2-Dichloropropane	ND	20	EPA 8260D	3-11-22	3-11-22	
Dibromomethane	ND	20	EPA 8260D	3-11-22	3-11-22	
Bromodichloromethane	ND	20	EPA 8260D	3-11-22	3-11-22	
(cis) 1,3-Dichloropropene	ND	20	EPA 8260D	3-11-22	3-11-22	
Methyl Isobutyl Ketone	ND	200	EPA 8260D	3-11-22	3-11-22	
Toluene	ND	100	EPA 8260D	3-11-22	3-11-22	
(trans) 1,3-Dichloropropene	ND	20	EPA 8260D	3-11-22	3-11-22	



Date of Report: March 24, 2022
 Samples Submitted: March 9, 2022
 Laboratory Reference: 2203-124
 Project: 6694-002-05 T700

VOLATILE ORGANICS EPA 8260D
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-3-30922					
Laboratory ID:	03-124-01					
1,1,2-Trichloroethane	ND	20	EPA 8260D	3-11-22	3-11-22	
Tetrachloroethene	ND	20	EPA 8260D	3-11-22	3-11-22	
1,3-Dichloropropane	ND	20	EPA 8260D	3-11-22	3-11-22	
2-Hexanone	ND	200	EPA 8260D	3-11-22	3-11-22	
Dibromochloromethane	ND	20	EPA 8260D	3-11-22	3-11-22	
1,2-Dibromoethane	ND	20	EPA 8260D	3-11-22	3-11-22	
Chlorobenzene	ND	20	EPA 8260D	3-11-22	3-11-22	
1,1,1,2-Tetrachloroethane	ND	20	EPA 8260D	3-11-22	3-11-22	
Ethylbenzene	ND	20	EPA 8260D	3-11-22	3-11-22	
m,p-Xylene	ND	40	EPA 8260D	3-11-22	3-11-22	
o-Xylene	ND	20	EPA 8260D	3-11-22	3-11-22	
Styrene	ND	20	EPA 8260D	3-11-22	3-11-22	
Bromoform	ND	100	EPA 8260D	3-11-22	3-11-22	
Isopropylbenzene	ND	20	EPA 8260D	3-11-22	3-11-22	
Bromobenzene	ND	20	EPA 8260D	3-11-22	3-11-22	
1,1,2,2-Tetrachloroethane	ND	20	EPA 8260D	3-11-22	3-11-22	
1,2,3-Trichloropropane	ND	20	EPA 8260D	3-11-22	3-11-22	
n-Propylbenzene	ND	20	EPA 8260D	3-11-22	3-11-22	
2-Chlorotoluene	ND	20	EPA 8260D	3-11-22	3-11-22	
4-Chlorotoluene	ND	20	EPA 8260D	3-11-22	3-11-22	
1,3,5-Trimethylbenzene	ND	20	EPA 8260D	3-11-22	3-11-22	
tert-Butylbenzene	ND	20	EPA 8260D	3-11-22	3-11-22	
1,2,4-Trimethylbenzene	ND	20	EPA 8260D	3-11-22	3-11-22	
sec-Butylbenzene	ND	20	EPA 8260D	3-11-22	3-11-22	
1,3-Dichlorobenzene	ND	20	EPA 8260D	3-11-22	3-11-22	
p-Isopropyltoluene	ND	20	EPA 8260D	3-11-22	3-11-22	
1,4-Dichlorobenzene	ND	20	EPA 8260D	3-11-22	3-11-22	
1,2-Dichlorobenzene	ND	20	EPA 8260D	3-11-22	3-11-22	
n-Butylbenzene	ND	20	EPA 8260D	3-11-22	3-11-22	
1,2-Dibromo-3-chloropropane	ND	100	EPA 8260D	3-11-22	3-11-22	
1,2,4-Trichlorobenzene	ND	20	EPA 8260D	3-11-22	3-11-22	
Hexachlorobutadiene	ND	100	EPA 8260D	3-11-22	3-11-22	
Naphthalene	ND	100	EPA 8260D	3-11-22	3-11-22	
1,2,3-Trichlorobenzene	ND	20	EPA 8260D	3-11-22	3-11-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	99	75-127				
<i>Toluene-d8</i>	99	80-127				
<i>4-Bromofluorobenzene</i>	97	78-125				



Date of Report: March 24, 2022
 Samples Submitted: March 9, 2022
 Laboratory Reference: 2203-124
 Project: 6694-002-05 T700

SEMIVOLATILE ORGANICS EPA 8270E/SIM
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-3-30922					
Laboratory ID:	03-124-01					
n-Nitrosodimethylamine	ND	0.97	EPA 8270E	3-11-22	3-11-22	
Pyridine	ND	0.97	EPA 8270E	3-11-22	3-11-22	
Phenol	ND	0.97	EPA 8270E	3-11-22	3-11-22	
Aniline	ND	4.9	EPA 8270E	3-11-22	3-11-22	
bis(2-Chloroethyl)ether	ND	0.97	EPA 8270E	3-11-22	3-11-22	
2-Chlorophenol	ND	0.97	EPA 8270E	3-11-22	3-11-22	
1,3-Dichlorobenzene	ND	0.97	EPA 8270E	3-11-22	3-11-22	
1,4-Dichlorobenzene	ND	0.97	EPA 8270E	3-11-22	3-11-22	
Benzyl alcohol	ND	0.97	EPA 8270E	3-11-22	3-11-22	
1,2-Dichlorobenzene	ND	0.97	EPA 8270E	3-11-22	3-11-22	
2-Methylphenol (o-Cresol)	ND	0.97	EPA 8270E	3-11-22	3-11-22	
bis(2-Chloroisopropyl)ether	ND	0.97	EPA 8270E	3-11-22	3-11-22	
(3+4)-Methylphenol (m,p-Cresol)	ND	0.97	EPA 8270E	3-11-22	3-11-22	
n-Nitroso-di-n-propylamine	ND	0.97	EPA 8270E	3-11-22	3-11-22	
Hexachloroethane	ND	0.97	EPA 8270E	3-11-22	3-11-22	
Nitrobenzene	ND	0.97	EPA 8270E	3-11-22	3-11-22	
Isophorone	ND	0.97	EPA 8270E	3-11-22	3-11-22	
2-Nitrophenol	ND	0.97	EPA 8270E	3-11-22	3-11-22	
2,4-Dimethylphenol	ND	0.97	EPA 8270E	3-11-22	3-11-22	
bis(2-Chloroethoxy)methane	ND	0.97	EPA 8270E	3-11-22	3-11-22	
2,4-Dichlorophenol	ND	0.97	EPA 8270E	3-11-22	3-11-22	
1,2,4-Trichlorobenzene	ND	0.97	EPA 8270E	3-11-22	3-11-22	
Naphthalene	ND	0.097	EPA 8270E/SIM	3-11-22	3-11-22	
4-Chloroaniline	ND	0.97	EPA 8270E	3-11-22	3-11-22	
Hexachlorobutadiene	ND	0.97	EPA 8270E	3-11-22	3-11-22	
4-Chloro-3-methylphenol	ND	0.97	EPA 8270E	3-11-22	3-11-22	
2-Methylnaphthalene	ND	0.097	EPA 8270E/SIM	3-11-22	3-11-22	
1-Methylnaphthalene	ND	0.097	EPA 8270E/SIM	3-11-22	3-11-22	
Hexachlorocyclopentadiene	ND	0.97	EPA 8270E	3-11-22	3-11-22	
2,4,6-Trichlorophenol	ND	0.97	EPA 8270E	3-11-22	3-11-22	
2,3-Dichloroaniline	ND	0.97	EPA 8270E	3-11-22	3-11-22	
2,4,5-Trichlorophenol	ND	0.97	EPA 8270E	3-11-22	3-11-22	
2-Chloronaphthalene	ND	0.97	EPA 8270E	3-11-22	3-11-22	
2-Nitroaniline	ND	0.97	EPA 8270E	3-11-22	3-11-22	
1,4-Dinitrobenzene	ND	0.97	EPA 8270E	3-11-22	3-11-22	
Dimethylphthalate	ND	4.9	EPA 8270E	3-11-22	3-11-22	
1,3-Dinitrobenzene	ND	0.97	EPA 8270E	3-11-22	3-11-22	
2,6-Dinitrotoluene	ND	0.97	EPA 8270E	3-11-22	3-11-22	
1,2-Dinitrobenzene	ND	0.97	EPA 8270E	3-11-22	3-11-22	
Acenaphthylene	ND	0.097	EPA 8270E/SIM	3-11-22	3-11-22	
3-Nitroaniline	ND	0.97	EPA 8270E	3-11-22	3-11-22	



Date of Report: March 24, 2022
 Samples Submitted: March 9, 2022
 Laboratory Reference: 2203-124
 Project: 6694-002-05 T700

SEMIVOLATILE ORGANICS EPA 8270E/SIM
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-3-30922					
Laboratory ID:	03-124-01					
2,4-Dinitrophenol	ND	7.7	EPA 8270E	3-11-22	3-11-22	
Acenaphthene	ND	0.097	EPA 8270E/SIM	3-11-22	3-11-22	
4-Nitrophenol	ND	4.9	EPA 8270E	3-11-22	3-11-22	
2,4-Dinitrotoluene	ND	0.97	EPA 8270E	3-11-22	3-11-22	
Dibenzofuran	ND	0.97	EPA 8270E	3-11-22	3-11-22	
2,3,5,6-Tetrachlorophenol	ND	0.97	EPA 8270E	3-11-22	3-11-22	
2,3,4,6-Tetrachlorophenol	ND	0.97	EPA 8270E	3-11-22	3-11-22	
Diethylphthalate	ND	0.97	EPA 8270E	3-11-22	3-11-22	
4-Chlorophenyl-phenylether	ND	0.97	EPA 8270E	3-11-22	3-11-22	
4-Nitroaniline	ND	0.97	EPA 8270E	3-11-22	3-11-22	
Fluorene	ND	0.097	EPA 8270E/SIM	3-11-22	3-11-22	
4,6-Dinitro-2-methylphenol	ND	4.9	EPA 8270E	3-11-22	3-11-22	
n-Nitrosodiphenylamine	ND	0.97	EPA 8270E	3-11-22	3-11-22	
1,2-Diphenylhydrazine	ND	0.97	EPA 8270E	3-11-22	3-11-22	
4-Bromophenyl-phenylether	ND	0.97	EPA 8270E	3-11-22	3-11-22	
Hexachlorobenzene	ND	0.97	EPA 8270E	3-11-22	3-11-22	
Pentachlorophenol	ND	4.9	EPA 8270E	3-11-22	3-11-22	
Phenanthrene	ND	0.097	EPA 8270E/SIM	3-11-22	3-11-22	
Anthracene	ND	0.097	EPA 8270E/SIM	3-11-22	3-11-22	
Carbazole	ND	0.97	EPA 8270E	3-11-22	3-11-22	
Di-n-butylphthalate	ND	4.9	EPA 8270E	3-11-22	3-11-22	
Fluoranthene	ND	0.097	EPA 8270E/SIM	3-11-22	3-11-22	
Pyrene	ND	0.097	EPA 8270E/SIM	3-11-22	3-11-22	
Butylbenzylphthalate	ND	0.97	EPA 8270E	3-11-22	3-11-22	
bis(2-Ethylhexyl)adipate	ND	4.9	EPA 8270E	3-11-22	3-11-22	
3,3'-Dichlorobenzidine	ND	0.97	EPA 8270E	3-11-22	3-11-22	
Benzo[a]anthracene	ND	0.0097	EPA 8270E/SIM	3-11-22	3-11-22	
Chrysene	ND	0.0097	EPA 8270E/SIM	3-11-22	3-11-22	
bis(2-Ethylhexyl)phthalate	ND	4.9	EPA 8270E	3-11-22	3-11-22	
Di-n-octylphthalate	ND	0.97	EPA 8270E	3-11-22	3-11-22	
Benzo[b]fluoranthene	ND	0.0097	EPA 8270E/SIM	3-11-22	3-11-22	
Benzo(j,k)fluoranthene	ND	0.0097	EPA 8270E/SIM	3-11-22	3-11-22	
Benzo[a]pyrene	ND	0.0097	EPA 8270E/SIM	3-11-22	3-11-22	
Indeno[1,2,3-cd]pyrene	ND	0.0097	EPA 8270E/SIM	3-11-22	3-11-22	
Dibenz[a,h]anthracene	ND	0.0097	EPA 8270E/SIM	3-11-22	3-11-22	
Benzo[g,h,i]perylene	ND	0.0097	EPA 8270E/SIM	3-11-22	3-11-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>2-Fluorophenol</i>	<i>44</i>	<i>10 - 82</i>				
<i>Phenol-d6</i>	<i>31</i>	<i>10 - 92</i>				
<i>Nitrobenzene-d5</i>	<i>68</i>	<i>32 - 105</i>				
<i>2-Fluorobiphenyl</i>	<i>67</i>	<i>38 - 105</i>				
<i>2,4,6-Tribromophenol</i>	<i>80</i>	<i>25 - 124</i>				
<i>Terphenyl-d14</i>	<i>69</i>	<i>42 - 116</i>				



Date of Report: March 24, 2022
 Samples Submitted: March 9, 2022
 Laboratory Reference: 2203-124
 Project: 6694-002-05 T700

PCBs EPA 8082A

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-3-30922					
Laboratory ID:	03-124-01					
Aroclor 1016	ND	0.050	EPA 8082A	3-10-22	3-16-22	
Aroclor 1221	ND	0.050	EPA 8082A	3-10-22	3-16-22	
Aroclor 1232	ND	0.050	EPA 8082A	3-10-22	3-16-22	
Aroclor 1242	ND	0.050	EPA 8082A	3-10-22	3-16-22	
Aroclor 1248	ND	0.050	EPA 8082A	3-10-22	3-16-22	
Aroclor 1254	ND	0.050	EPA 8082A	3-10-22	3-16-22	
Aroclor 1260	ND	0.050	EPA 8082A	3-10-22	3-16-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>DCB</i>	86	42-140				



Date of Report: March 24, 2022
 Samples Submitted: March 9, 2022
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**ORGANOCHLORINE
 PESTICIDES EPA 8081B**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-3-30922					
Laboratory ID:	03-124-01					
alpha-BHC	ND	0.0050	EPA 8081B	3-10-22	3-15-22	
gamma-BHC (Lindane)	ND	0.0050	EPA 8081B	3-10-22	3-15-22	
beta-BHC	ND	0.0050	EPA 8081B	3-10-22	3-15-22	
delta-BHC	ND	0.0050	EPA 8081B	3-10-22	3-15-22	
Heptachlor	ND	0.0050	EPA 8081B	3-10-22	3-15-22	
Aldrin	ND	0.0020	EPA 8081B	3-10-22	3-15-22	
Heptachlor Epoxide	ND	0.0030	EPA 8081B	3-10-22	3-15-22	
gamma-Chlordane	ND	0.0050	EPA 8081B	3-10-22	3-15-22	
alpha-Chlordane	ND	0.0050	EPA 8081B	3-10-22	3-15-22	
4,4'-DDE	ND	0.0050	EPA 8081B	3-10-22	3-15-22	
Endosulfan I	ND	0.0050	EPA 8081B	3-10-22	3-15-22	
Dieldrin	ND	0.0050	EPA 8081B	3-10-22	3-15-22	
Endrin	ND	0.0050	EPA 8081B	3-10-22	3-15-22	
4,4'-DDD	ND	0.0050	EPA 8081B	3-10-22	3-15-22	
Endosulfan II	ND	0.0050	EPA 8081B	3-10-22	3-15-22	
4,4'-DDT	ND	0.0050	EPA 8081B	3-10-22	3-15-22	
Endrin Aldehyde	ND	0.0050	EPA 8081B	3-10-22	3-15-22	
Methoxychlor	ND	0.010	EPA 8081B	3-10-22	3-15-22	
Endosulfan Sulfate	ND	0.0050	EPA 8081B	3-10-22	3-15-22	
Endrin Ketone	ND	0.020	EPA 8081B	3-10-22	3-15-22	
Toxaphene	ND	0.050	EPA 8081B	3-10-22	3-15-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
TCMX	62	25-114				
DCB	64	30-137				



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TOTAL METALS
EPA 200.8/200.7/7470A

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-3-30922					
Laboratory ID:	03-124-01					
Arsenic	5.0	3.3	EPA 200.8	3-14-22	3-14-22	
Cadmium	ND	4.4	EPA 200.8	3-14-22	3-14-22	
Chromium	ND	11	EPA 200.8	3-14-22	3-14-22	
Copper	ND	11	EPA 200.8	3-14-22	3-14-22	
Iron	2500	50	EPA 200.7	3-11-22	3-11-22	
Lead	1.2	1.1	EPA 200.8	3-14-22	3-14-22	
Magnesium	14000	1000	EPA 200.7	3-11-22	3-11-22	
Manganese	240	10	EPA 200.7	3-11-22	3-11-22	
Mercury	ND	0.025	EPA 7470A	3-16-22	3-16-22	
Nickel	ND	22	EPA 200.8	3-14-22	3-14-22	
Selenium	ND	5.6	EPA 200.8	3-14-22	3-14-22	
Zinc	ND	28	EPA 200.8	3-14-22	3-14-22	



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DISSOLVED METALS
EPA 200.8/200.7/7470A

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-3-30922					
Laboratory ID:	03-124-01					
Arsenic	3.4	3.0	EPA 200.8		3-10-22	
Cadmium	ND	4.0	EPA 200.8		3-10-22	
Calcium	24000	1100	EPA 200.7		3-15-22	
Chromium	ND	10	EPA 200.8		3-10-22	
Copper	ND	10	EPA 200.8		3-10-22	
Iron	ND	56	EPA 200.7		3-15-22	
Lead	ND	1.0	EPA 200.8		3-10-22	
Magnesium	13000	1100	EPA 200.7		3-15-22	
Manganese	180	11	EPA 200.7		3-15-22	
Mercury	ND	0.025	EPA 7470A		3-11-22	
Nickel	ND	20	EPA 200.8		3-10-22	
Potassium	1900	1100	EPA 200.7		3-15-22	
Selenium	ND	5.0	EPA 200.8		3-10-22	
Sodium	7000	1100	EPA 200.7		3-15-22	
Zinc	ND	25	EPA 200.8		3-10-22	



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**TOTAL ALKALINITY
SM 2320B**

Matrix: Water
Units: mg CaCO₃/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-3-30922					
Laboratory ID:	03-124-01					
Total Alkalinity	110	2.0	SM 2320B	3-11-22	3-11-22	



Date of Report: December 15, 2021
Samples Submitted: December 7, 2021
Laboratory Reference: 2112-075
Project: 6694-002-05 T700

**BICARBONATE
SM 2320B**

Matrix: Water
Units: mg CaCO₃/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-3-30922					
Laboratory ID:	03-124-01					
Bicarbonate Concentration	110	2.0	SM 2320B	3-11-22	3-11-22	



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**TOTAL DISSOLVED SOLIDS
 SM 2540C**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-3-30922					
Laboratory ID:	03-124-01					
Total Dissolved Solids	170	13	SM 2540C	3-11-22	3-11-22	



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CHLORIDE
SM 4500-Cl E

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-3-30922					
Laboratory ID:	03-124-01					
Chloride	6.6	2.0	SM 4500-Cl E	3-11-22	3-11-22	



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NITRATE (as Nitrogen)
EPA 353.2

Matrix: Water
Units: mg/L-N

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-3-30922					
Laboratory ID:	03-124-01					
Nitrate	0.090	0.050	EPA 353.2	3-11-22	3-11-22	



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SULFATE
ASTM D516-11

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-3-30922					
Laboratory ID:	03-124-01					
Sulfate	9.7	5.0	ASTM D516-11	3-14-22	3-14-22	



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AMMONIA (as Nitrogen)
SM 4500-NH₃ D

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-3-30922					
Laboratory ID:	03-124-01					
Ammonia	0.061	0.050	SM 4500-NH3 D	3-10-22	3-10-22	



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**GASOLINE RANGE ORGANICS
 NWTPH-Gx
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0310W1					
Gasoline	ND	100	NWTPH-Gx	3-10-22	3-10-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
Fluorobenzene	93	66-117				

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	03-123-01							
	ORIG	DUP						
Gasoline	651	600	NA	NA	NA	NA	8	30
<i>Surrogate:</i>								
Fluorobenzene				100	101	66-117		



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**DIESEL AND HEAVY OIL RANGE ORGANICS
 NWTPH-Dx
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0315W1					
Diesel Range Organics	ND	0.20	NWTPH-Dx	3-15-22	3-15-22	X1
Lube Oil Range Organics	ND	0.20	NWTPH-Dx	3-15-22	3-15-22	X1
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	104	50-150				

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	SB0315W1							
	ORIG	DUP						
Diesel Fuel #2	0.450	0.417	NA	NA	NA	NA	8	NA X1
<i>Surrogate:</i>								
<i>o-Terphenyl</i>				120	110	50-150		



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VOLATILE ORGANICS EPA 8260D
QUALITY CONTROL
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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0311W2					
Dichlorodifluoromethane	ND	1.0	EPA 8260D	3-11-22	3-11-22	
Chloromethane	ND	1.0	EPA 8260D	3-11-22	3-11-22	
Vinyl Chloride	ND	0.20	EPA 8260D	3-11-22	3-11-22	
Bromomethane	ND	1.0	EPA 8260D	3-11-22	3-11-22	
Chloroethane	ND	1.0	EPA 8260D	3-11-22	3-11-22	
Trichlorofluoromethane	ND	0.20	EPA 8260D	3-11-22	3-11-22	
1,1-Dichloroethene	ND	0.20	EPA 8260D	3-11-22	3-11-22	
Acetone	ND	5.0	EPA 8260D	3-11-22	3-11-22	
Iodomethane	ND	5.0	EPA 8260D	3-11-22	3-11-22	
Carbon Disulfide	ND	0.20	EPA 8260D	3-11-22	3-11-22	
Methylene Chloride	ND	1.0	EPA 8260D	3-11-22	3-11-22	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	3-11-22	3-11-22	
Methyl t-Butyl Ether	ND	0.20	EPA 8260D	3-11-22	3-11-22	
1,1-Dichloroethane	ND	0.20	EPA 8260D	3-11-22	3-11-22	
Vinyl Acetate	ND	1.0	EPA 8260D	3-11-22	3-11-22	
2,2-Dichloropropane	ND	0.20	EPA 8260D	3-11-22	3-11-22	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	3-11-22	3-11-22	
2-Butanone	ND	5.0	EPA 8260D	3-11-22	3-11-22	
Bromochloromethane	ND	0.20	EPA 8260D	3-11-22	3-11-22	
Chloroform	ND	0.20	EPA 8260D	3-11-22	3-11-22	
1,1,1-Trichloroethane	ND	0.20	EPA 8260D	3-11-22	3-11-22	
Carbon Tetrachloride	ND	0.20	EPA 8260D	3-11-22	3-11-22	
1,1-Dichloropropene	ND	0.20	EPA 8260D	3-11-22	3-11-22	
Benzene	ND	0.20	EPA 8260D	3-11-22	3-11-22	
1,2-Dichloroethane	ND	0.20	EPA 8260D	3-11-22	3-11-22	
Trichloroethene	ND	0.20	EPA 8260D	3-11-22	3-11-22	
1,2-Dichloropropane	ND	0.20	EPA 8260D	3-11-22	3-11-22	
Dibromomethane	ND	0.20	EPA 8260D	3-11-22	3-11-22	
Bromodichloromethane	ND	0.20	EPA 8260D	3-11-22	3-11-22	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260D	3-11-22	3-11-22	
Methyl Isobutyl Ketone	ND	2.0	EPA 8260D	3-11-22	3-11-22	
Toluene	ND	1.0	EPA 8260D	3-11-22	3-11-22	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260D	3-11-22	3-11-22	



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**VOLATILE ORGANICS EPA 8260D
 QUALITY CONTROL**

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0311W2					
1,1,2-Trichloroethane	ND	0.20	EPA 8260D	3-11-22	3-11-22	
Tetrachloroethene	ND	0.20	EPA 8260D	3-11-22	3-11-22	
1,3-Dichloropropane	ND	0.20	EPA 8260D	3-11-22	3-11-22	
2-Hexanone	ND	2.0	EPA 8260D	3-11-22	3-11-22	
Dibromochloromethane	ND	0.20	EPA 8260D	3-11-22	3-11-22	
1,2-Dibromoethane	ND	0.20	EPA 8260D	3-11-22	3-11-22	
Chlorobenzene	ND	0.20	EPA 8260D	3-11-22	3-11-22	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260D	3-11-22	3-11-22	
Ethylbenzene	ND	0.20	EPA 8260D	3-11-22	3-11-22	
m,p-Xylene	ND	0.40	EPA 8260D	3-11-22	3-11-22	
o-Xylene	ND	0.20	EPA 8260D	3-11-22	3-11-22	
Styrene	ND	0.20	EPA 8260D	3-11-22	3-11-22	
Bromoform	ND	1.0	EPA 8260D	3-11-22	3-11-22	
Isopropylbenzene	ND	0.20	EPA 8260D	3-11-22	3-11-22	
Bromobenzene	ND	0.20	EPA 8260D	3-11-22	3-11-22	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260D	3-11-22	3-11-22	
1,2,3-Trichloropropane	ND	0.20	EPA 8260D	3-11-22	3-11-22	
n-Propylbenzene	ND	0.20	EPA 8260D	3-11-22	3-11-22	
2-Chlorotoluene	ND	0.20	EPA 8260D	3-11-22	3-11-22	
4-Chlorotoluene	ND	0.20	EPA 8260D	3-11-22	3-11-22	
1,3,5-Trimethylbenzene	ND	0.20	EPA 8260D	3-11-22	3-11-22	
tert-Butylbenzene	ND	0.20	EPA 8260D	3-11-22	3-11-22	
1,2,4-Trimethylbenzene	ND	0.20	EPA 8260D	3-11-22	3-11-22	
sec-Butylbenzene	ND	0.20	EPA 8260D	3-11-22	3-11-22	
1,3-Dichlorobenzene	ND	0.20	EPA 8260D	3-11-22	3-11-22	
p-Isopropyltoluene	ND	0.20	EPA 8260D	3-11-22	3-11-22	
1,4-Dichlorobenzene	ND	0.20	EPA 8260D	3-11-22	3-11-22	
1,2-Dichlorobenzene	ND	0.20	EPA 8260D	3-11-22	3-11-22	
n-Butylbenzene	ND	0.20	EPA 8260D	3-11-22	3-11-22	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260D	3-11-22	3-11-22	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260D	3-11-22	3-11-22	
Hexachlorobutadiene	ND	1.0	EPA 8260D	3-11-22	3-11-22	
Naphthalene	ND	1.0	EPA 8260D	3-11-22	3-11-22	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260D	3-11-22	3-11-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>100</i>	<i>75-127</i>				
<i>Toluene-d8</i>	<i>101</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>98</i>	<i>78-125</i>				



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**VOLATILE ORGANICS EPA 8260D
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD	RPD	Flags
					SB	SBD	Limits	RPD	Limit	
SPIKE BLANKS										
Laboratory ID:	SB0311W2									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	12.4	12.4	10.0	10.0	124	124	78-125	0	19	
Benzene	11.2	11.2	10.0	10.0	112	112	80-119	0	16	
Trichloroethene	10.9	11.1	10.0	10.0	109	111	80-121	2	18	
Toluene	11.0	11.0	10.0	10.0	110	110	80-117	0	18	
Chlorobenzene	11.0	11.1	10.0	10.0	110	111	80-117	1	17	
<i>Surrogate:</i>										
Dibromofluoromethane					98	97	75-127			
Toluene-d8					99	99	80-127			
4-Bromofluorobenzene					100	99	78-125			



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**SEMIVOLATILE ORGANICS EPA 8270E/SIM
 QUALITY CONTROL**

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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0311W1					
n-Nitrosodimethylamine	ND	1.0	EPA 8270E	3-11-22	3-11-22	
Pyridine	ND	1.0	EPA 8270E	3-11-22	3-11-22	
Phenol	ND	1.0	EPA 8270E	3-11-22	3-11-22	
Aniline	ND	5.0	EPA 8270E	3-11-22	3-11-22	
bis(2-Chloroethyl)ether	ND	1.0	EPA 8270E	3-11-22	3-11-22	
2-Chlorophenol	ND	1.0	EPA 8270E	3-11-22	3-11-22	
1,3-Dichlorobenzene	ND	1.0	EPA 8270E	3-11-22	3-11-22	
1,4-Dichlorobenzene	ND	1.0	EPA 8270E	3-11-22	3-11-22	
Benzyl alcohol	ND	1.0	EPA 8270E	3-11-22	3-11-22	
1,2-Dichlorobenzene	ND	1.0	EPA 8270E	3-11-22	3-11-22	
2-Methylphenol (o-Cresol)	ND	1.0	EPA 8270E	3-11-22	3-11-22	
bis(2-Chloroisopropyl)ether	ND	1.0	EPA 8270E	3-11-22	3-11-22	
(3+4)-Methylphenol (m,p-Cresol)	ND	1.0	EPA 8270E	3-11-22	3-11-22	
n-Nitroso-di-n-propylamine	ND	1.0	EPA 8270E	3-11-22	3-11-22	
Hexachloroethane	ND	1.0	EPA 8270E	3-11-22	3-11-22	
Nitrobenzene	ND	1.0	EPA 8270E	3-11-22	3-11-22	
Isophorone	ND	1.0	EPA 8270E	3-11-22	3-11-22	
2-Nitrophenol	ND	1.0	EPA 8270E	3-11-22	3-11-22	
2,4-Dimethylphenol	ND	1.0	EPA 8270E	3-11-22	3-11-22	
bis(2-Chloroethoxy)methane	ND	1.0	EPA 8270E	3-11-22	3-11-22	
2,4-Dichlorophenol	ND	1.0	EPA 8270E	3-11-22	3-11-22	
1,2,4-Trichlorobenzene	ND	1.0	EPA 8270E	3-11-22	3-11-22	
Naphthalene	ND	0.10	EPA 8270E/SIM	3-11-22	3-11-22	
4-Chloroaniline	ND	1.0	EPA 8270E	3-11-22	3-11-22	
Hexachlorobutadiene	ND	1.0	EPA 8270E	3-11-22	3-11-22	
4-Chloro-3-methylphenol	ND	1.0	EPA 8270E	3-11-22	3-11-22	
2-Methylnaphthalene	ND	0.10	EPA 8270E/SIM	3-11-22	3-11-22	
1-Methylnaphthalene	ND	0.10	EPA 8270E/SIM	3-11-22	3-11-22	
Hexachlorocyclopentadiene	ND	1.0	EPA 8270E	3-11-22	3-11-22	
2,4,6-Trichlorophenol	ND	1.0	EPA 8270E	3-11-22	3-11-22	
2,3-Dichloroaniline	ND	1.0	EPA 8270E	3-11-22	3-11-22	
2,4,5-Trichlorophenol	ND	1.0	EPA 8270E	3-11-22	3-11-22	
2-Chloronaphthalene	ND	1.0	EPA 8270E	3-11-22	3-11-22	
2-Nitroaniline	ND	1.0	EPA 8270E	3-11-22	3-11-22	
1,4-Dinitrobenzene	ND	1.0	EPA 8270E	3-11-22	3-11-22	
Dimethylphthalate	ND	5.0	EPA 8270E	3-11-22	3-11-22	
1,3-Dinitrobenzene	ND	1.0	EPA 8270E	3-11-22	3-11-22	
2,6-Dinitrotoluene	ND	1.0	EPA 8270E	3-11-22	3-11-22	
1,2-Dinitrobenzene	ND	1.0	EPA 8270E	3-11-22	3-11-22	
Acenaphthylene	ND	0.10	EPA 8270E/SIM	3-11-22	3-11-22	
3-Nitroaniline	ND	1.0	EPA 8270E	3-11-22	3-11-22	



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**SEMIVOLATILE ORGANICS EPA 8270E/SIM
 QUALITY CONTROL**

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0311W1					
2,4-Dinitrophenol	ND	7.9	EPA 8270E	3-11-22	3-11-22	
Acenaphthene	ND	0.10	EPA 8270E/SIM	3-11-22	3-11-22	
4-Nitrophenol	ND	5.0	EPA 8270E	3-11-22	3-11-22	
2,4-Dinitrotoluene	ND	1.0	EPA 8270E	3-11-22	3-11-22	
Dibenzofuran	ND	1.0	EPA 8270E	3-11-22	3-11-22	
2,3,5,6-Tetrachlorophenol	ND	1.0	EPA 8270E	3-11-22	3-11-22	
2,3,4,6-Tetrachlorophenol	ND	1.0	EPA 8270E	3-11-22	3-11-22	
Diethylphthalate	ND	1.0	EPA 8270E	3-11-22	3-11-22	
4-Chlorophenyl-phenylether	ND	1.0	EPA 8270E	3-11-22	3-11-22	
4-Nitroaniline	ND	1.0	EPA 8270E	3-11-22	3-11-22	
Fluorene	ND	0.10	EPA 8270E/SIM	3-11-22	3-11-22	
4,6-Dinitro-2-methylphenol	ND	5.0	EPA 8270E	3-11-22	3-11-22	
n-Nitrosodiphenylamine	ND	1.0	EPA 8270E	3-11-22	3-11-22	
1,2-Diphenylhydrazine	ND	1.0	EPA 8270E	3-11-22	3-11-22	
4-Bromophenyl-phenylether	ND	1.0	EPA 8270E	3-11-22	3-11-22	
Hexachlorobenzene	ND	1.0	EPA 8270E	3-11-22	3-11-22	
Pentachlorophenol	ND	5.0	EPA 8270E	3-11-22	3-11-22	
Phenanthrene	ND	0.10	EPA 8270E/SIM	3-11-22	3-11-22	
Anthracene	ND	0.10	EPA 8270E/SIM	3-11-22	3-11-22	
Carbazole	ND	1.0	EPA 8270E	3-11-22	3-11-22	
Di-n-butylphthalate	ND	5.0	EPA 8270E	3-11-22	3-11-22	
Fluoranthene	ND	0.10	EPA 8270E/SIM	3-11-22	3-11-22	
Pyrene	ND	0.10	EPA 8270E/SIM	3-11-22	3-11-22	
Butylbenzylphthalate	ND	1.0	EPA 8270E	3-11-22	3-11-22	
bis-2-Ethylhexyladipate	ND	5.0	EPA 8270E	3-11-22	3-11-22	
3,3'-Dichlorobenzidine	ND	1.0	EPA 8270E	3-11-22	3-11-22	
Benzo[a]anthracene	ND	0.010	EPA 8270E/SIM	3-11-22	3-11-22	
Chrysene	ND	0.010	EPA 8270E/SIM	3-11-22	3-11-22	
bis(2-Ethylhexyl)phthalate	ND	5.0	EPA 8270E	3-11-22	3-11-22	
Di-n-octylphthalate	ND	1.0	EPA 8270E	3-11-22	3-11-22	
Benzo[b]fluoranthene	ND	0.010	EPA 8270E/SIM	3-11-22	3-11-22	
Benzo(j,k)fluoranthene	ND	0.010	EPA 8270E/SIM	3-11-22	3-11-22	
Benzo[a]pyrene	ND	0.010	EPA 8270E/SIM	3-11-22	3-11-22	
Indeno[1,2,3-cd]pyrene	ND	0.010	EPA 8270E/SIM	3-11-22	3-11-22	
Dibenz[a,h]anthracene	ND	0.010	EPA 8270E/SIM	3-11-22	3-11-22	
Benzo[g,h,i]perylene	ND	0.010	EPA 8270E/SIM	3-11-22	3-11-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
2-Fluorophenol	51	10 - 82				
Phenol-d6	37	10 - 92				
Nitrobenzene-d5	75	32 - 105				
2-Fluorobiphenyl	67	38 - 105				
2,4,6-Tribromophenol	86	25 - 124				
Terphenyl-d14	75	42 - 116				



OnSite Environmental, Inc. 14648 NE 95th Street, Redmond, WA 98052 (425) 883-3881

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: March 24, 2022
 Samples Submitted: March 9, 2022
 Laboratory Reference: 2203-124
 Project: 6694-002-05 T700

**SEMIVOLATILE ORGANICS EPA 8270E/SIM
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD	RPD	Flags
					Recovery	Limits	Limit			
SPIKE BLANKS										
Laboratory ID:	SB0311W1									
	SB	SBD	SB	SBD	SB	SBD				
Phenol	14.9	12.8	40.0	40.0	37	32	21 - 53	15	26	
2-Chlorophenol	28.8	24.6	40.0	40.0	72	62	38 - 92	16	28	
1,4-Dichlorobenzene	10.5	9.56	20.0	20.0	53	48	30 - 88	9	32	
n-Nitroso-di-n-propylamine	15.0	13.2	20.0	20.0	75	66	40 - 103	13	27	
1,2,4-Trichlorobenzene	12.1	10.7	20.0	20.0	61	54	37 - 95	12	29	
4-Chloro-3-methylphenol	31.8	29.9	40.0	40.0	80	75	50 - 101	6	17	
Acenaphthene	14.0	13.3	20.0	20.0	70	67	46 - 97	5	19	
4-Nitrophenol	19.4	19.2	40.0	40.0	49	48	23 - 64	1	34	
2,4-Dinitrotoluene	14.9	14.3	20.0	20.0	75	72	46 - 100	4	17	
Pentachlorophenol	38.5	35.6	40.0	40.0	96	89	39 - 123	8	29	
Pyrene	14.8	14.4	20.0	20.0	74	72	52 - 107	3	19	
<i>Surrogate:</i>										
2-Fluorophenol					54	45	10 - 82			
Phenol-d6					39	33	10 - 92			
Nitrobenzene-d5					76	65	32 - 105			
2-Fluorobiphenyl					66	64	38 - 105			
2,4,6-Tribromophenol					87	80	25 - 124			
Terphenyl-d14					71	69	42 - 116			



Date of Report: March 24, 2022
 Samples Submitted: March 9, 2022
 Laboratory Reference: 2203-124
 Project: 6694-002-05 T700

**PCBs EPA 8082A
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0310W1					
Aroclor 1016	ND	0.050	EPA 8082A	3-10-22	3-10-22	
Aroclor 1221	ND	0.050	EPA 8082A	3-10-22	3-10-22	
Aroclor 1232	ND	0.050	EPA 8082A	3-10-22	3-10-22	
Aroclor 1242	ND	0.050	EPA 8082A	3-10-22	3-10-22	
Aroclor 1248	ND	0.050	EPA 8082A	3-10-22	3-10-22	
Aroclor 1254	ND	0.050	EPA 8082A	3-10-22	3-10-22	
Aroclor 1260	ND	0.050	EPA 8082A	3-10-22	3-10-22	
Surrogate:	Percent Recovery	Control Limits				
DCB	48	42-140				

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS											
Laboratory ID:	SB0310W1										
	SB	SBD	SB	SBD		SB	SBD				
Aroclor 1260	0.408	0.408	0.500	0.500	N/A	82	82	73-131	0	12	
Surrogate:											
DCB						86	90	42-140			



Date of Report: March 24, 2022
 Samples Submitted: March 9, 2022
 Laboratory Reference: 2203-124
 Project: 6694-002-05 T700

**ORGANOCHLORINE
 PESTICIDES EPA 8081B
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0310W1					
alpha-BHC	ND	0.0050	EPA 8081B	3-10-22	3-15-22	
gamma-BHC (Lindane)	ND	0.0050	EPA 8081B	3-10-22	3-15-22	
beta-BHC	ND	0.0050	EPA 8081B	3-10-22	3-15-22	
delta-BHC	ND	0.0050	EPA 8081B	3-10-22	3-15-22	
Heptachlor	ND	0.0050	EPA 8081B	3-10-22	3-15-22	
Aldrin	ND	0.0020	EPA 8081B	3-10-22	3-15-22	
Heptachlor Epoxide	ND	0.0030	EPA 8081B	3-10-22	3-15-22	
gamma-Chlordane	ND	0.0050	EPA 8081B	3-10-22	3-15-22	
alpha-Chlordane	ND	0.0050	EPA 8081B	3-10-22	3-15-22	
4,4'-DDE	ND	0.0050	EPA 8081B	3-10-22	3-15-22	
Endosulfan I	ND	0.0050	EPA 8081B	3-10-22	3-15-22	
Dieldrin	ND	0.0050	EPA 8081B	3-10-22	3-15-22	
Endrin	ND	0.0050	EPA 8081B	3-10-22	3-15-22	
4,4'-DDD	ND	0.0050	EPA 8081B	3-10-22	3-15-22	
Endosulfan II	ND	0.0050	EPA 8081B	3-10-22	3-15-22	
4,4'-DDT	ND	0.0050	EPA 8081B	3-10-22	3-15-22	
Endrin Aldehyde	ND	0.0050	EPA 8081B	3-10-22	3-15-22	
Methoxychlor	ND	0.010	EPA 8081B	3-10-22	3-15-22	
Endosulfan Sulfate	ND	0.0050	EPA 8081B	3-10-22	3-15-22	
Endrin Ketone	ND	0.020	EPA 8081B	3-10-22	3-15-22	
Toxaphene	ND	0.050	EPA 8081B	3-10-22	3-15-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
TCMX	56	25-114				
DCB	50	30-137				



Date of Report: March 24, 2022
 Samples Submitted: March 9, 2022
 Laboratory Reference: 2203-124
 Project: 6694-002-05 T700

**ORGANOCHLORINE
 PESTICIDES EPA 8081B
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS											
Laboratory ID:	SB0310W2										
	SB	SBD	SB	SBD		SB	SBD				
alpha-BHC	0.0855	0.0766	0.100	0.100	N/A	85	77	42-113	11	19	
gamma-BHC (Lindane)	0.0829	0.0725	0.100	0.100	N/A	83	72	45-114	13	15	
beta-BHC	0.0823	0.0736	0.100	0.100	N/A	82	74	40-118	11	15	
delta-BHC	0.0875	0.0761	0.100	0.100	N/A	88	76	20-125	14	15	
Heptachlor	0.0774	0.0758	0.100	0.100	N/A	77	76	41-120	2	16	
Aldrin	0.0734	0.0736	0.100	0.100	N/A	73	74	35-115	0	15	
Heptachlor Epoxide	0.0818	0.0762	0.100	0.100	N/A	82	76	50-118	7	15	
gamma-Chlordane	0.0786	0.0700	0.100	0.100	N/A	79	70	46-110	12	15	
alpha-Chlordane	0.0783	0.0702	0.100	0.100	N/A	78	70	38-112	11	15	
4,4'-DDE	0.0837	0.0754	0.100	0.100	N/A	84	75	41-127	10	15	
Endosulfan I	0.0848	0.0771	0.100	0.100	N/A	85	77	45-119	10	15	
Dieldrin	0.0841	0.0743	0.100	0.100	N/A	84	74	46-115	12	15	
Endrin	0.0977	0.0854	0.100	0.100	N/A	98	85	52-124	13	15	
4,4'-DDD	0.0946	0.0836	0.100	0.100	N/A	95	84	52-121	12	15	
Endosulfan II	0.0875	0.0760	0.100	0.100	N/A	87	76	44-114	14	15	
4,4'-DDT	0.0929	0.0899	0.100	0.100	N/A	93	90	48-123	3	15	
Endrin Aldehyde	0.101	0.0913	0.100	0.100	N/A	101	91	45-114	10	15	
Methoxychlor	0.123	0.107	0.100	0.100	N/A	123	107	49-130	14	15	
Endosulfan Sulfate	0.0859	0.0754	0.100	0.100	N/A	86	75	39-117	13	15	
Endrin Ketone	0.0842	0.0768	0.100	0.100	N/A	84	77	53-119	9	15	
Surrogate:											
TCMX						60	64	25-114			
DCB						80	67	30-137			



Date of Report: March 24, 2022
 Samples Submitted: March 9, 2022
 Laboratory Reference: 2203-124
 Project: 6694-002-05 T700

**TOTAL METALS
 EPA 200.8/200.7/7470A
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0311WH1					
Iron	ND	50	EPA 200.7	3-11-22	3-11-22	
Magnesium	ND	1000	EPA 200.7	3-11-22	3-11-22	
Manganese	ND	10	EPA 200.7	3-11-22	3-11-22	
Laboratory ID:	MB0314WM1					
Arsenic	ND	3.3	EPA 200.8	3-14-22	3-14-22	
Cadmium	ND	4.4	EPA 200.8	3-14-22	3-14-22	
Chromium	ND	11	EPA 200.8	3-14-22	3-14-22	
Copper	ND	11	EPA 200.8	3-14-22	3-14-22	
Lead	ND	1.1	EPA 200.8	3-14-22	3-14-22	
Nickel	ND	22	EPA 200.8	3-14-22	3-14-22	
Selenium	ND	5.6	EPA 200.8	3-14-22	3-14-22	
Zinc	ND	28	EPA 200.8	3-14-22	3-14-22	
Laboratory ID:	MB0316W1					
Mercury	ND	0.025	EPA 7470A	3-16-22	3-16-22	



Date of Report: March 24, 2022
 Samples Submitted: March 9, 2022
 Laboratory Reference: 2203-124
 Project: 6694-002-05 T700

TOTAL METALS
EPA 200.8/200.7/7470A
QUALITY CONTROL

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result		Spike Level		Source	Percent	Recovery	RPD		Flags
					Result	Recovery	Limits	RPD	Limit	
DUPLICATE										
Laboratory ID:	03-089-01									
	ORIG	DUP								
Iron	131	188	NA	NA		NA	NA	36	20	C
Magnesium	13300	13900	NA	NA		NA	NA	4	20	
Manganese	266	278	NA	NA		NA	NA	4	20	
Laboratory ID:	03-091-01									
Arsenic	ND	ND	NA	NA		NA	NA	NA	20	
Cadmium	ND	ND	NA	NA		NA	NA	NA	20	
Chromium	ND	ND	NA	NA		NA	NA	NA	20	
Copper	ND	ND	NA	NA		NA	NA	NA	20	
Lead	ND	ND	NA	NA		NA	NA	NA	20	
Nickel	ND	ND	NA	NA		NA	NA	NA	20	
Selenium	ND	ND	NA	NA		NA	NA	NA	20	
Zinc	ND	ND	NA	NA		NA	NA	NA	20	
Laboratory ID:	03-124-01									
Mercury	ND	ND	NA	NA		NA	NA	NA	20	
MATRIX SPIKES										
Laboratory ID:	03-089-01									
	MS	MSD	MS	MSD		MS	MSD			
Iron	20800	20600	20000	20000	131	103	102	75-125	1	20
Magnesium	32400	31700	20000	20000	13300	96	92	75-125	2	20
Manganese	740	727	500	500	266	95	92	75-125	2	20
Laboratory ID:	03-091-01									
Arsenic	122	118	111	111	ND	110	106	75-125	4	20
Cadmium	118	108	111	111	ND	107	97	75-125	9	20
Chromium	117	108	111	111	ND	106	98	75-125	8	20
Copper	110	100	111	111	ND	99	90	75-125	9	20
Lead	113	102	111	111	ND	102	92	75-125	10	20
Nickel	112	102	111	111	ND	101	92	75-125	10	20
Selenium	125	111	111	111	ND	113	100	75-125	11	20
Zinc	116	109	111	111	ND	105	98	75-125	7	20
Laboratory ID:	03-124-01									
Mercury	6.35	6.38	6.25	6.25	ND	102	102	75-125	0	20



Date of Report: March 24, 2022
 Samples Submitted: March 9, 2022
 Laboratory Reference: 2203-124
 Project: 6694-002-05 T700

**DISSOLVED METALS
 EPA 200.8/200.7/7470A
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0315D1					
Calcium	ND	1100	EPA 200.7		3-15-22	
Iron	ND	56	EPA 200.7		3-15-22	
Magnesium	ND	1100	EPA 200.7		3-15-22	
Manganese	ND	11	EPA 200.7		3-15-22	
Potassium	ND	1100	EPA 200.7		3-15-22	
Sodium	ND	1100	EPA 200.7		3-15-22	
Laboratory ID:	MB0309F1					
Arsenic	ND	3.0	EPA 200.8		3-10-22	
Cadmium	ND	4.0	EPA 200.8		3-10-22	
Chromium	ND	10	EPA 200.8		3-10-22	
Copper	ND	10	EPA 200.8		3-10-22	
Lead	ND	1.0	EPA 200.8		3-10-22	
Nickel	ND	20	EPA 200.8		3-10-22	
Selenium	ND	5.0	EPA 200.8		3-10-22	
Zinc	ND	25	EPA 200.8		3-10-22	
Laboratory ID:	MB0311D1					
Mercury	ND	0.025	EPA 7470A		3-11-22	



Date of Report: March 24, 2022
 Samples Submitted: March 9, 2022
 Laboratory Reference: 2203-124
 Project: 6694-002-05 T700

DISSOLVED METALS
EPA 200.8/200.7/7470A
QUALITY CONTROL

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result		Spike Level		Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE										
Laboratory ID:	03-124-01									
	ORIG	DUP								
Calcium	24100	24400	NA	NA		NA	NA	1	20	
Iron	ND	ND	NA	NA		NA	NA	NA	20	
Magnesium	13000	13200	NA	NA		NA	NA	2	20	
Manganese	178	181	NA	NA		NA	NA	2	20	
Potassium	1860	1820	NA	NA		NA	NA	2	20	
Sodium	7050	7030	NA	NA		NA	NA	0	20	
Laboratory ID:	03-114-01									
Arsenic	ND	ND	NA	NA		NA	NA	NA	20	
Cadmium	ND	ND	NA	NA		NA	NA	NA	20	
Chromium	ND	ND	NA	NA		NA	NA	NA	20	
Copper	ND	ND	NA	NA		NA	NA	NA	20	
Lead	ND	ND	NA	NA		NA	NA	NA	20	
Nickel	ND	ND	NA	NA		NA	NA	NA	20	
Selenium	ND	ND	NA	NA		NA	NA	NA	20	
Zinc	ND	ND	NA	NA		NA	NA	NA	20	
Laboratory ID:	03-089-01									
Mercury	ND	ND	NA	NA		NA	NA	NA	20	
MATRIX SPIKES										
Laboratory ID:	03-124-01									
	MS	MSD	MS	MSD		MS	MSD			
Calcium	48000	47800	22200	22200	24100	108	107	75-125	0	20
Iron	25600	25900	22200	22200	ND	116	117	75-125	1	20
Magnesium	36500	36500	22200	22200	13000	106	106	75-125	0	20
Manganese	729	727	556	556	178	99	99	75-125	0	20
Potassium	28000	28300	22200	22200	1860	118	119	75-125	1	20
Sodium	30700	30900	22200	22200	7050	107	107	75-125	0	20
Laboratory ID:	03-114-01									
Arsenic	82.6	81.4	80.0	80.0	ND	103	102	75-125	1	20
Cadmium	78.8	79.0	80.0	80.0	ND	99	99	75-125	0	20
Chromium	76.0	74.4	80.0	80.0	ND	95	93	75-125	2	20
Copper	72.2	71.4	80.0	80.0	ND	90	89	75-125	1	20
Lead	77.4	76.2	80.0	80.0	ND	97	95	75-125	2	20
Nickel	75.6	74.8	80.0	80.0	ND	95	94	75-125	1	20
Selenium	77.4	76.2	80.0	80.0	ND	97	95	75-125	2	20
Zinc	83.6	84.4	80.0	80.0	ND	105	106	75-125	1	20
Laboratory ID:	03-089-01									
Mercury	6.05	6.03	6.25	6.25	ND	97	96	75-125	0	20



Date of Report: March 24, 2022
 Samples Submitted: March 9, 2022
 Laboratory Reference: 2203-124
 Project: 6694-002-05 T700

**TOTAL ALKALINITY
 SM 2320B
 QUALITY CONTROL**

Matrix: Water
 Units: mg CaCO₃/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0311W1					
Total Alkalinity	ND	2.0	SM 2320B	3-11-22	3-11-22	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	03-052-02							
	ORIG	DUP						
Total Alkalinity	25.0	25.5	NA	NA	NA	2	10	

SPIKE BLANK								
Laboratory ID:	SB0311W1							
	SB	SB		SB				
Total Alkalinity	104	100	NA	104	89-110	NA	NA	



Date of Report: December 15, 2021
 Samples Submitted: December 7, 2021
 Laboratory Reference: 2112-075
 Project: 6694-002-05 T700

**BICARBONATE
 SM 2320B
 QUALITY CONTROL**

Matrix: Water
 Units: mg CaCO₃/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0311W1					
Bicarbonate Concentration	ND	2.0	SM 2320B	3-11-22	3-11-22	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	03-052-02							
	ORIG	DUP						
Total Alkalinity	25.0	25.5	NA	NA	NA	2	10	

SPIKE BLANK								
Laboratory ID:	SB0311W1							
	SB	SB		SB				
Total Alkalinity	104	100	NA	104	89-110	NA	NA	



Date of Report: March 24, 2022
 Samples Submitted: March 9, 2022
 Laboratory Reference: 2203-124
 Project: 6694-002-05 T700

**TOTAL DISSOLVED SOLIDS
 SM 2540C
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0311W1					
Total Dissolved Solids	ND	13	SM 2540C	3-11-22	3-11-22	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	03-120-02							
	ORIG	DUP						
Total Dissolved Solids	360	376	NA	NA	NA	4	29	

SPIKE BLANK								
Laboratory ID:	SB0311W1							
	SB	SB		SB				
Total Dissolved Solids	489	500	NA	98	84-110	NA	NA	



Date of Report: March 24, 2022
 Samples Submitted: March 9, 2022
 Laboratory Reference: 2203-124
 Project: 6694-002-05 T700

**CHLORIDE
 SM 4500-Cl E
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0311W1					
Chloride	ND	2.0	SM 4500-Cl E	3-11-22	3-11-22	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	03-089-01							
	ORIG	DUP						
Chloride	6.16	6.12	NA	NA	NA	1	15	

MATRIX SPIKE								
Laboratory ID:	03-089-01							
	MS	MS		MS				
Chloride	58.2	50.0	6.16	104	86-115	NA	NA	

SPIKE BLANK								
Laboratory ID:	SB0311W1							
	SB	SB		SB				
Chloride	50.7	50.0	NA	101	86-115	NA	NA	



Date of Report: March 24, 2022
 Samples Submitted: March 9, 2022
 Laboratory Reference: 2203-124
 Project: 6694-002-05 T700

**NITRATE (as Nitrogen)
 EPA 353.2
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L-N

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0311W1					
Nitrate	ND	0.050	EPA 353.2	3-11-22	3-11-22	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	03-089-01							
	ORIG	DUP						
Nitrate	ND	ND	NA	NA	NA	NA	16	

MATRIX SPIKE								
Laboratory ID:	03-089-01							
	MS	MS		MS				
Nitrate	2.37	2.00	ND	119	92-125	NA	NA	

SPIKE BLANK								
Laboratory ID:	SB0311W1							
	SB	SB		SB				
Nitrate	2.25	2.00	NA	113	90-121	NA	NA	



Date of Report: March 24, 2022
 Samples Submitted: March 9, 2022
 Laboratory Reference: 2203-124
 Project: 6694-002-05 T700

**SULFATE
 ASTM D516-11
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0314W1					
Sulfate	ND	5.0	ASTM D516-11	3-14-22	3-14-22	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	03-080-04							
	ORIG	DUP						
Sulfate	8.40	8.46	NA	NA	NA	1	10	

MATRIX SPIKE								
Laboratory ID:	03-080-04							
	MS	MS		MS				
Sulfate	18.2	10.0	8.40	98	69-139	NA	NA	

SPIKE BLANK								
Laboratory ID:	SB0314W1							
	SB	SB		SB				
Sulfate	8.91	10.0	NA	89	89-117	NA	NA	



Date of Report: March 24, 2022
 Samples Submitted: March 9, 2022
 Laboratory Reference: 2203-124
 Project: 6694-002-05 T700

**AMMONIA (as Nitrogen)
 SM 4500-NH₃ D
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0310W1					
Ammonia	ND	0.050	SM 4500-NH3 D	3-10-22	3-10-22	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	03-034-01							
	ORIG	DUP						
Ammonia	ND	ND	NA	NA	NA	NA	19	

MATRIX SPIKE								
Laboratory ID:	03-034-01							
	MS	MS		MS				
Ammonia	4.82	5.00	ND	96	80-113	NA	NA	

SPIKE BLANK								
Laboratory ID:	SB0310W1							
	SB	SB		SB				
Ammonia	4.82	5.00	NA	96	88-110	NA	NA	





Data Qualifiers and Abbreviations

- A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.
 - B - The analyte indicated was also found in the blank sample.
 - C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.
 - E - The value reported exceeds the quantitation range and is an estimate.
 - F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.
 - H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.
 - I - Compound recovery is outside of the control limits.
 - J - The value reported was below the practical quantitation limit. The value is an estimate.
 - K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.
 - L - The RPD is outside of the control limits.
 - M - Hydrocarbons in the gasoline range are impacting the diesel range result.
 - M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.
 - N - Hydrocarbons in the lube oil range are impacting the diesel range result.
 - N1 - Hydrocarbons in diesel range are impacting lube oil range results.
 - O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.
 - P - The RPD of the detected concentrations between the two columns is greater than 40.
 - Q - Surrogate recovery is outside of the control limits.
 - S - Surrogate recovery data is not available due to the necessary dilution of the sample.
 - T - The sample chromatogram is not similar to a typical _____.
 - U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
 - U1 - The practical quantitation limit is elevated due to interferences present in the sample.
 - V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.
 - W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.
 - X - Sample extract treated with a mercury cleanup procedure.
 - X1 - Sample extract treated with a sulfuric acid/silica gel cleanup procedure.
 - Y - The calibration verification for this analyte exceeded the 20% drift specified in methods 8260 & 8270, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.
 - Z -
- ND - Not Detected at PQL
 PQL - Practical Quantitation Limit
 RPD - Relative Percent Difference





OnSite Environmental Inc

David Baumeister
14648 NE 95th Street
Redmond, WA 98052

RE: 03-124

Work Order Number: 2203263

March 24, 2022

Attention David Baumeister:

Fremont Analytical, Inc. received 1 sample(s) on 3/10/2022 for the analyses presented in the following report.

Herbicides by EPA Method 8151A (GC/MS)

This report consists of the following:

- Case Narrative
- Analytical Results
- Applicable Quality Control Summary Reports
- Chain of Custody

All analyses were performed consistent with the Quality Assurance program of Fremont Analytical, Inc. Please contact the laboratory if you should have any questions about the results.

Thank you for using Fremont Analytical.

Sincerely,

Brianna Barnes
Project Manager

CLIENT: OnSite Environmental Inc
Project: 03-124
Work Order: 2203263

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received
2203263-001	MW-3-30922	03/09/2022 1:20 PM	03/10/2022 11:36 AM

DRAFT

Note: If no "Time Collected" is supplied, a default of 12:00AM is assigned

CLIENT: OnSite Environmental Inc

Project: 03-124

I. SAMPLE RECEIPT:

Samples receipt information is recorded on the attached Sample Receipt Checklist.

II. GENERAL REPORTING COMMENTS:

Results are reported on a wet weight basis unless dry-weight correction is denoted in the units field on the analytical report ("mg/kg-dry" or "ug/kg-dry").

Matrix Spike (MS) and MS Duplicate (MSD) samples are tested from an analytical batch of "like" matrix to check for possible matrix effect. The MS and MSD will provide site specific matrix data only for those samples which are spiked by the laboratory. The sample chosen for spike purposes may or may not have been a sample submitted in this sample delivery group. The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The LCS and the MB are processed with the samples and the MS/MSD to ensure method criteria are achieved throughout the entire analytical process.

III. ANALYSES AND EXCEPTIONS:

Exceptions associated with this report will be footnoted in the analytical results page(s) or the quality control summary page(s) and/or noted below.

DRAFT



Qualifiers:

- * - Flagged value is not within established control limits
- B - Analyte detected in the associated Method Blank
- D - Dilution was required
- E - Value above quantitation range
- H - Holding times for preparation or analysis exceeded
- I - Analyte with an internal standard that does not meet established acceptance criteria
- J - Analyte detected below Reporting Limit
- N - Tentatively Identified Compound (TIC)
- Q - Analyte with an initial or continuing calibration that does not meet established acceptance criteria
- S - Spike recovery outside accepted recovery limits
- ND - Not detected at the Reporting Limit
- R - High relative percent difference observed

Acronyms:

- %Rec - Percent Recovery
- CCB - Continued Calibration Blank
- CCV - Continued Calibration Verification
- DF - Dilution Factor
- DUP - Sample Duplicate
- HEM - Hexane Extractable Material
- ICV - Initial Calibration Verification
- LCS/LCSD - Laboratory Control Sample / Laboratory Control Sample Duplicate
- MCL - Maximum Contaminant Level
- MB or MBLANK - Method Blank
- MDL - Method Detection Limit
- MS/MSD - Matrix Spike / Matrix Spike Duplicate
- PDS - Post Digestion Spike
- Ref Val - Reference Value
- REP - Sample Replicate
- RL - Reporting Limit
- RPD - Relative Percent Difference
- SD - Serial Dilution
- SGT - Silica Gel Treatment
- SPK - Spike
- Surr - Surrogate



Client: OnSite Environmental Inc
Project: 03-124
Lab ID: 2203263-001
Client Sample ID: MW-3-30922

Collection Date: 3/9/2022 1:20:00 PM
Matrix: Water

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Herbicides by EPA Method 8151A (GC/MS)

Batch ID: 35716 Analyst: SB

Dicamba	ND	0.987		µg/L	1	3/21/2022 1:42:09 PM
2,4-D	ND	0.987		µg/L	1	3/21/2022 1:42:09 PM
2,4-DP	ND	0.987		µg/L	1	3/21/2022 1:42:09 PM
2,4,5-TP (Silvex)	ND	0.987		µg/L	1	3/21/2022 1:42:09 PM
2,4,5-T	ND	0.987		µg/L	1	3/21/2022 1:42:09 PM
Dinoseb	ND	0.987		µg/L	1	3/21/2022 1:42:09 PM
Dalapon	ND	1.97		µg/L	1	3/21/2022 1:42:09 PM
2,4-DB	ND	0.987		µg/L	1	3/21/2022 1:42:09 PM
MCPP	ND	4.94		µg/L	1	3/21/2022 1:42:09 PM
MCPA	ND	4.94		µg/L	1	3/21/2022 1:42:09 PM
Picloram	ND	0.987		µg/L	1	3/21/2022 1:42:09 PM
Bentazon	ND	0.987		µg/L	1	3/21/2022 1:42:09 PM
Chloramben	ND	0.987		µg/L	1	3/21/2022 1:42:09 PM
Acifluorfen	ND	4.94		µg/L	1	3/21/2022 1:42:09 PM
3,5-Dichlorobenzoic acid	ND	0.987		µg/L	1	3/21/2022 1:42:09 PM
4-Nitrophenol	ND	0.987		µg/L	1	3/21/2022 1:42:09 PM
Dacthal (DCPA)	ND	1.97		µg/L	1	3/21/2022 1:42:09 PM
Surr: 2,4-Dichlorophenylacetic acid	87.9	65.7 - 136		%Rec	1	3/21/2022 1:42:09 PM

Work Order: 2203263
 CLIENT: OnSite Environmental Inc
 Project: 03-124

QC SUMMARY REPORT
Herbicides by EPA Method 8151A (GC/MS)

Sample ID: MB-35716	SampType: MBLK	Units: µg/L	Prep Date: 3/14/2022	RunNo: 74173							
Client ID: MBLKW	Batch ID: 35716		Analysis Date: 3/21/2022	SeqNo: 1521239							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Dicamba	ND	1.00									
2,4-D	ND	1.00									
2,4-DP	ND	1.00									
2,4,5-TP (Silvex)	ND	1.00									
2,4,5-T	ND	1.00									
Dinoseb	ND	1.00									
Dalapon	ND	2.00									
2,4-DB	ND	1.00									
MCPPP	ND	5.00									
MCPA	ND	5.00									
Picloram	ND	1.00									
Bentazon	ND	1.00									
Chloramben	ND	1.00									
Acifluorfen	ND	5.00									
3,5-Dichlorobenzoic acid	ND	1.00									
4-Nitrophenol	ND	1.00									
Dacthal (DCPA)	ND	2.00									
Surr: 2,4-Dichlorophenylacetic acid	15.5		20.00		77.7	65.7	136				

Sample ID: LCS-35716	SampType: LCS	Units: µg/L	Prep Date: 3/14/2022	RunNo: 74173							
Client ID: LCSW	Batch ID: 35716		Analysis Date: 3/21/2022	SeqNo: 1521240							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Dicamba	3.21	1.00	4.000	0	80.1	16.6	148				
2,4-D	3.48	1.00	4.000	0	86.9	50.4	150				
2,4-DP	3.29	1.00	4.000	0	82.1	53	135				
2,4,5-TP (Silvex)	3.24	1.00	4.000	0	81.1	53.6	140				
2,4,5-T	3.27	1.00	4.000	0	81.8	50	141				
Dinoseb	2.25	1.00	4.000	0	56.2	5	119				
Dalapon	12.6	2.00	20.00	0	62.9	5.65	97.2				

Work Order: 2203263
 CLIENT: OnSite Environmental Inc
 Project: 03-124

QC SUMMARY REPORT
Herbicides by EPA Method 8151A (GC/MS)

Sample ID: LCS-35716	SampType: LCS	Units: µg/L				Prep Date: 3/14/2022	RunNo: 74173				
Client ID: LCSW	Batch ID: 35716					Analysis Date: 3/21/2022	SeqNo: 1521240				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
2,4-DB	3.31	1.00	4.000	0	82.7	54.9	141				
MCPP	16.9	5.00	20.00	0	84.3	28.7	166				
MCPA	17.4	5.00	20.00	0	87.0	20.7	176				
Picloram	2.24	1.00	4.000	0	56.1	9.72	120				
Bentazon	2.82	1.00	4.000	0	70.5	41.2	141				
Chloramben	1.40	1.00	4.000	0	35.1	5	109				
Acifluorfen	2.03	5.00	4.000	0	50.9	7.62	139				
3,5-Dichlorobenzoic acid	2.93	1.00	4.000	0	73.2	52.4	120				
4-Nitrophenol	1.89	1.00	4.000	0	47.2	5	107				
Dacthal (DCPA)	1.50	2.00	4.000	0	37.4	5	65.4				
Surr: 2,4-Dichlorophenylacetic acid	17.5		20.00		87.5	65.7	136				

Sample ID: LCS-35716	SampType: LCS	Units: µg/L				Prep Date: 3/14/2022	RunNo: 74173				
Client ID: LCSW02	Batch ID: 35716					Analysis Date: 3/21/2022	SeqNo: 1521241				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dicamba	2.90	1.00	4.000	0	72.5	16.6	148	3.206	9.95	30	
2,4-D	3.18	1.00	4.000	0	79.4	50.4	150	3.476	9.01	30	
2,4-DP	2.98	1.00	4.000	0	74.6	53	135	3.286	9.62	30	
2,4,5-TP (Silvex)	2.96	1.00	4.000	0	73.9	53.6	140	3.243	9.20	30	
2,4,5-T	2.93	1.00	4.000	0	73.1	50	141	3.270	11.1	30	
Dinoseb	2.12	1.00	4.000	0	53.1	5	119	2.247	5.71	30	
Dalapon	11.4	2.00	20.00	0	57.0	5.65	97.2	12.58	9.80	30	
2,4-DB	3.02	1.00	4.000	0	75.5	54.9	141	3.306	9.04	30	
MCPP	15.5	5.00	20.00	0	77.6	28.7	166	16.85	8.19	30	
MCPA	16.1	5.00	20.00	0	80.7	20.7	176	17.39	7.44	30	
Picloram	1.81	1.00	4.000	0	45.2	9.72	120	2.245	21.7	30	
Bentazon	2.55	1.00	4.000	0	63.8	41.2	141	2.819	9.99	30	
Chloramben	0.980	1.00	4.000	0	24.5	5	109	1.404	35.6	30	
Acifluorfen	1.90	5.00	4.000	0	47.4	7.62	139	2.034	6.99	30	

Work Order: 2203263
 CLIENT: OnSite Environmental Inc
 Project: 03-124

QC SUMMARY REPORT
Herbicides by EPA Method 8151A (GC/MS)

Sample ID: LCS D-35716	SampType: LCS D	Units: µg/L	Prep Date: 3/14/2022	RunNo: 74173							
Client ID: LCS W02	Batch ID: 35716		Analysis Date: 3/21/2022	SeqNo: 1521241							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

3,5-Dichlorobenzoic acid	2.69	1.00	4.000	0	67.2	52.4	120	2.929	8.54	30	
4-Nitrophenol	1.65	1.00	4.000	0	41.1	5	107	1.886	13.6	30	
Dacthal (DCPA)	1.34	2.00	4.000	0	33.4	5	65.4	1.496	11.2	30	
Surr: 2,4-Dichlorophenylacetic acid	16.4		20.00		82.0	65.7	136		0		

Sample ID: 2203262-001AMS	SampType: MS	Units: µg/L	Prep Date: 3/14/2022	RunNo: 74173							
Client ID: BATCH	Batch ID: 35716		Analysis Date: 3/21/2022	SeqNo: 1521244							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Dicamba	3.43	0.996	3.983	0	86.1	31	142				
2,4-D	3.71	0.996	3.983	0	93.2	50.3	149				
2,4-DP	3.48	0.996	3.983	0	87.3	49.9	143				
2,4,5-TP (Silvex)	3.53	0.996	3.983	0	88.8	47.7	141				
2,4,5-T	3.50	0.996	3.983	0	87.8	34.4	139				
Dinoseb	2.94	0.996	3.983	0	73.8	27.3	117				
Dalapon	13.5	1.99	19.91	0	67.8	14.2	113				
2,4-DB	3.56	0.996	3.983	0	89.3	31.3	147				
MCPP	17.9	4.98	19.91	0	90.1	30.5	177				
MCPA	18.5	4.98	19.91	0	92.9	36.8	163				
Picloram	2.67	0.996	3.983	0	66.9	18.8	115				
Bentazon	3.03	0.996	3.983	0	76.1	11.9	176				
Chloramben	1.79	0.996	3.983	0	44.9	5	112				
Acifluorfen	2.70	4.98	3.983	0	67.7	28.1	146				
3,5-Dichlorobenzoic acid	3.17	0.996	3.983	0	79.6	36.2	146				
4-Nitrophenol	1.57	0.996	3.983	0	39.3	5	116				
Dacthal (DCPA)	1.51	1.99	3.983	0	38.0	5	84.6				
Surr: 2,4-Dichlorophenylacetic acid	19.4		19.91		97.2	65.7	136				

Client Name: **ONSITE**

 Work Order Number: **2203263**

 Logged by: **Elisabeth Samoray**

 Date Received: **3/10/2022 11:36:00 AM**
Chain of Custody

1. Is Chain of Custody complete? Yes No Not Present
2. How was the sample delivered? Client

Log In

3. Coolers are present? Yes No NA
4. Shipping container/cooler in good condition? Yes No
5. Custody Seals present on shipping container/cooler?
(Refer to comments for Custody Seals not intact) Yes No Not Present
6. Was an attempt made to cool the samples? Yes No NA
7. Were all items received at a temperature of >2°C to 6°C * Yes No NA
8. Sample(s) in proper container(s)? Yes No
9. Sufficient sample volume for indicated test(s)? Yes No
10. Are samples properly preserved? Yes No
11. Was preservative added to bottles? Yes No NA
12. Is there headspace in the VOA vials? Yes No NA
13. Did all samples containers arrive in good condition(unbroken)? Yes No
14. Does paperwork match bottle labels? Yes No
15. Are matrices correctly identified on Chain of Custody? Yes No
16. Is it clear what analyses were requested? Yes No
17. Were all holding times able to be met? Yes No

Special Handling (if applicable)

18. Was client notified of all discrepancies with this order? Yes No NA

Person Notified:	<input type="text"/>	Date:	<input type="text"/>
By Whom:	<input type="text"/>	Via:	<input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:	<input type="text"/>		
Client Instructions:	<input type="text"/>		

19. Additional remarks:

Item Information

Item #	Temp °C
Sample 1	5.8

* Note: DoD/ELAP and TNI require items to be received at 4°C +/- 2°C



14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

April 11, 2022

Garrett Leque
GeoEngineers, Inc.
554 West Bakerview Road
Bellingham, WA 98226

Re: Analytical Data for Project 6694-002-05 T700
Laboratory Reference No. 2203-149

Dear Garrett:

Enclosed are the analytical results and associated quality control data for samples submitted on March 11, 2022.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

A handwritten signature in black ink, appearing to read "DB", with a long horizontal stroke extending to the right.

David Baumeister
Project Manager

Enclosures



OnSite Environmental, Inc. 14648 NE 95th Street, Redmond, WA 98052 (425) 883-3881

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: April 11, 2022
Samples Submitted: March 11, 2022
Laboratory Reference: 2203-149
Project: 6694-002-05 T700

Case Narrative

Samples were collected on March 11, 2022 and received by the laboratory on March 11, 2022. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.



Date of Report: April 11, 2022
Samples Submitted: March 11, 2022
Laboratory Reference: 2203-149
Project: 6694-002-05 T700

ANALYTICAL REPORT FOR SAMPLES

Client ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
MW-6-31122	03-149-01	Water	3-11-22	3-11-22	

DRAFT



Date of Report: April 11, 2022
 Samples Submitted: March 11, 2022
 Laboratory Reference: 2203-149
 Project: 6694-002-05 T700

GASOLINE RANGE ORGANICS
NWTPH-Gx

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-6-31122					
Laboratory ID:	03-149-01					
Gasoline	ND	100	NWTPH-Gx	3-14-22	3-14-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	91	66-117				



Date of Report: April 11, 2022
 Samples Submitted: March 11, 2022
 Laboratory Reference: 2203-149
 Project: 6694-002-05 T700

DIESEL AND HEAVY OIL RANGE ORGANICS
NWTPH-Dx

Matrix: Water
 Units: mg/L (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-6-31122					
Laboratory ID:	03-149-01					
Diesel Range Organics	ND	0.22	NWTPH-Dx	3-15-22	3-15-22	X1
Lube Oil Range Organics	ND	0.22	NWTPH-Dx	3-15-22	3-15-22	X1
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	126	50-150				



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VOLATILE ORGANICS EPA 8260D
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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-6-31122					
Laboratory ID:	03-149-01					
Dichlorodifluoromethane	ND	0.29	EPA 8260D	3-16-22	3-16-22	
Chloromethane	ND	1.0	EPA 8260D	3-16-22	3-16-22	
Vinyl Chloride	ND	0.20	EPA 8260D	3-16-22	3-16-22	
Bromomethane	ND	0.20	EPA 8260D	3-16-22	3-16-22	
Chloroethane	ND	1.0	EPA 8260D	3-16-22	3-16-22	
Trichlorofluoromethane	ND	0.20	EPA 8260D	3-16-22	3-16-22	
1,1-Dichloroethene	ND	0.20	EPA 8260D	3-16-22	3-16-22	
Acetone	ND	5.0	EPA 8260D	3-16-22	3-16-22	
Iodomethane	ND	1.0	EPA 8260D	3-16-22	3-16-22	
Carbon Disulfide	ND	0.20	EPA 8260D	3-16-22	3-16-22	
Methylene Chloride	ND	1.0	EPA 8260D	3-16-22	3-16-22	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	3-16-22	3-16-22	
Methyl t-Butyl Ether	ND	0.20	EPA 8260D	3-16-22	3-16-22	
1,1-Dichloroethane	ND	0.20	EPA 8260D	3-16-22	3-16-22	
Vinyl Acetate	ND	1.0	EPA 8260D	3-16-22	3-16-22	
2,2-Dichloropropane	ND	0.20	EPA 8260D	3-16-22	3-16-22	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	3-16-22	3-16-22	
2-Butanone	ND	5.0	EPA 8260D	3-16-22	3-16-22	
Bromochloromethane	ND	0.20	EPA 8260D	3-16-22	3-16-22	
Chloroform	ND	0.20	EPA 8260D	3-16-22	3-16-22	
1,1,1-Trichloroethane	ND	0.20	EPA 8260D	3-16-22	3-16-22	
Carbon Tetrachloride	ND	0.20	EPA 8260D	3-16-22	3-16-22	
1,1-Dichloropropene	ND	0.20	EPA 8260D	3-16-22	3-16-22	
Benzene	ND	0.20	EPA 8260D	3-16-22	3-16-22	
1,2-Dichloroethane	ND	0.20	EPA 8260D	3-16-22	3-16-22	
Trichloroethene	ND	0.20	EPA 8260D	3-16-22	3-16-22	
1,2-Dichloropropane	ND	0.20	EPA 8260D	3-16-22	3-16-22	
Dibromomethane	ND	0.20	EPA 8260D	3-16-22	3-16-22	
Bromodichloromethane	ND	0.20	EPA 8260D	3-16-22	3-16-22	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260D	3-16-22	3-16-22	
Methyl Isobutyl Ketone	ND	2.0	EPA 8260D	3-16-22	3-16-22	
Toluene	ND	1.0	EPA 8260D	3-16-22	3-16-22	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260D	3-16-22	3-16-22	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-6-31122					
Laboratory ID:	03-149-01					
1,1,2-Trichloroethane	ND	0.20	EPA 8260D	3-16-22	3-16-22	
Tetrachloroethene	ND	0.20	EPA 8260D	3-16-22	3-16-22	
1,3-Dichloropropane	ND	0.20	EPA 8260D	3-16-22	3-16-22	
2-Hexanone	ND	2.0	EPA 8260D	3-16-22	3-16-22	
Dibromochloromethane	ND	0.20	EPA 8260D	3-16-22	3-16-22	
1,2-Dibromoethane	ND	0.20	EPA 8260D	3-16-22	3-16-22	
Chlorobenzene	ND	0.20	EPA 8260D	3-16-22	3-16-22	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260D	3-16-22	3-16-22	
Ethylbenzene	ND	0.20	EPA 8260D	3-16-22	3-16-22	
m,p-Xylene	ND	0.40	EPA 8260D	3-16-22	3-16-22	
o-Xylene	ND	0.20	EPA 8260D	3-16-22	3-16-22	
Styrene	ND	0.20	EPA 8260D	3-16-22	3-16-22	
Bromoform	ND	1.0	EPA 8260D	3-16-22	3-16-22	
Isopropylbenzene	ND	0.20	EPA 8260D	3-16-22	3-16-22	
Bromobenzene	ND	0.20	EPA 8260D	3-16-22	3-16-22	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260D	3-16-22	3-16-22	
1,2,3-Trichloropropane	ND	0.20	EPA 8260D	3-16-22	3-16-22	
n-Propylbenzene	ND	0.20	EPA 8260D	3-16-22	3-16-22	
2-Chlorotoluene	ND	0.20	EPA 8260D	3-16-22	3-16-22	
4-Chlorotoluene	ND	0.20	EPA 8260D	3-16-22	3-16-22	
1,3,5-Trimethylbenzene	ND	0.20	EPA 8260D	3-16-22	3-16-22	
tert-Butylbenzene	ND	0.20	EPA 8260D	3-16-22	3-16-22	
1,2,4-Trimethylbenzene	ND	0.20	EPA 8260D	3-16-22	3-16-22	
sec-Butylbenzene	ND	0.20	EPA 8260D	3-16-22	3-16-22	
1,3-Dichlorobenzene	ND	0.20	EPA 8260D	3-16-22	3-16-22	
p-Isopropyltoluene	ND	0.20	EPA 8260D	3-16-22	3-16-22	
1,4-Dichlorobenzene	ND	0.20	EPA 8260D	3-16-22	3-16-22	
1,2-Dichlorobenzene	ND	0.20	EPA 8260D	3-16-22	3-16-22	
n-Butylbenzene	ND	0.20	EPA 8260D	3-16-22	3-16-22	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260D	3-16-22	3-16-22	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260D	3-16-22	3-16-22	
Hexachlorobutadiene	ND	1.0	EPA 8260D	3-16-22	3-16-22	
Naphthalene	ND	1.0	EPA 8260D	3-16-22	3-16-22	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260D	3-16-22	3-16-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	97	75-127				
<i>Toluene-d8</i>	99	80-127				
<i>4-Bromofluorobenzene</i>	96	78-125				



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SEMIVOLATILE ORGANICS EPA 8270E/SIM
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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-6-31122					
Laboratory ID:	03-149-01					
n-Nitrosodimethylamine	ND	1.0	EPA 8270E	3-15-22	3-15-22	
Pyridine	ND	1.0	EPA 8270E	3-15-22	3-15-22	
Phenol	ND	1.0	EPA 8270E	3-15-22	3-15-22	
Aniline	ND	5.1	EPA 8270E	3-15-22	3-15-22	
bis(2-Chloroethyl)ether	ND	1.0	EPA 8270E	3-15-22	3-15-22	
2-Chlorophenol	ND	1.0	EPA 8270E	3-15-22	3-15-22	
1,3-Dichlorobenzene	ND	1.0	EPA 8270E	3-15-22	3-15-22	
1,4-Dichlorobenzene	ND	1.0	EPA 8270E	3-15-22	3-15-22	
Benzyl alcohol	ND	1.0	EPA 8270E	3-15-22	3-15-22	
1,2-Dichlorobenzene	ND	1.0	EPA 8270E	3-15-22	3-15-22	
2-Methylphenol (o-Cresol)	ND	1.0	EPA 8270E	3-15-22	3-15-22	
bis(2-Chloroisopropyl)ether	ND	1.0	EPA 8270E	3-15-22	3-15-22	
(3+4)-Methylphenol (m,p-Cresol)	ND	1.0	EPA 8270E	3-15-22	3-15-22	
n-Nitroso-di-n-propylamine	ND	1.0	EPA 8270E	3-15-22	3-15-22	
Hexachloroethane	ND	1.0	EPA 8270E	3-15-22	3-15-22	
Nitrobenzene	ND	1.0	EPA 8270E	3-15-22	3-15-22	
Isophorone	ND	1.0	EPA 8270E	3-15-22	3-15-22	
2-Nitrophenol	ND	1.0	EPA 8270E	3-15-22	3-15-22	
2,4-Dimethylphenol	ND	1.0	EPA 8270E	3-15-22	3-15-22	
bis(2-Chloroethoxy)methane	ND	1.0	EPA 8270E	3-15-22	3-15-22	
2,4-Dichlorophenol	ND	1.0	EPA 8270E	3-15-22	3-15-22	
1,2,4-Trichlorobenzene	ND	1.0	EPA 8270E	3-15-22	3-15-22	
Naphthalene	ND	0.10	EPA 8270E/SIM	3-15-22	3-16-22	
4-Chloroaniline	ND	1.0	EPA 8270E	3-15-22	3-15-22	
Hexachlorobutadiene	ND	1.0	EPA 8270E	3-15-22	3-15-22	
4-Chloro-3-methylphenol	ND	1.0	EPA 8270E	3-15-22	3-15-22	
2-Methylnaphthalene	ND	0.10	EPA 8270E/SIM	3-15-22	3-16-22	
1-Methylnaphthalene	ND	0.10	EPA 8270E/SIM	3-15-22	3-16-22	
Hexachlorocyclopentadiene	ND	1.0	EPA 8270E	3-15-22	3-15-22	
2,4,6-Trichlorophenol	ND	1.0	EPA 8270E	3-15-22	3-15-22	
2,3-Dichloroaniline	ND	1.0	EPA 8270E	3-15-22	3-15-22	
2,4,5-Trichlorophenol	ND	1.0	EPA 8270E	3-15-22	3-15-22	
2-Chloronaphthalene	ND	1.0	EPA 8270E	3-15-22	3-15-22	
2-Nitroaniline	ND	1.0	EPA 8270E	3-15-22	3-15-22	
1,4-Dinitrobenzene	ND	1.0	EPA 8270E	3-15-22	3-15-22	
Dimethylphthalate	ND	5.1	EPA 8270E	3-15-22	3-15-22	
1,3-Dinitrobenzene	ND	1.0	EPA 8270E	3-15-22	3-15-22	
2,6-Dinitrotoluene	ND	1.0	EPA 8270E	3-15-22	3-15-22	
1,2-Dinitrobenzene	ND	1.0	EPA 8270E	3-15-22	3-15-22	
Acenaphthylene	ND	0.10	EPA 8270E/SIM	3-15-22	3-16-22	
3-Nitroaniline	ND	1.0	EPA 8270E	3-15-22	3-15-22	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-6-31122					
Laboratory ID:	03-149-01					
2,4-Dinitrophenol	ND	8.7	EPA 8270E	3-15-22	3-15-22	
Acenaphthene	ND	0.10	EPA 8270E/SIM	3-15-22	3-16-22	
4-Nitrophenol	ND	5.1	EPA 8270E	3-15-22	3-15-22	
2,4-Dinitrotoluene	ND	1.0	EPA 8270E	3-15-22	3-15-22	
Dibenzofuran	ND	1.0	EPA 8270E	3-15-22	3-15-22	
2,3,5,6-Tetrachlorophenol	ND	1.0	EPA 8270E	3-15-22	3-15-22	
2,3,4,6-Tetrachlorophenol	ND	1.0	EPA 8270E	3-15-22	3-15-22	
Diethylphthalate	ND	1.0	EPA 8270E	3-15-22	3-15-22	
4-Chlorophenyl-phenylether	ND	1.0	EPA 8270E	3-15-22	3-15-22	
4-Nitroaniline	ND	1.0	EPA 8270E	3-15-22	3-15-22	
Fluorene	ND	0.10	EPA 8270E/SIM	3-15-22	3-16-22	
4,6-Dinitro-2-methylphenol	ND	6.5	EPA 8270E	3-15-22	3-15-22	
n-Nitrosodiphenylamine	ND	1.0	EPA 8270E	3-15-22	3-15-22	
1,2-Diphenylhydrazine	ND	1.0	EPA 8270E	3-15-22	3-15-22	
4-Bromophenyl-phenylether	ND	1.0	EPA 8270E	3-15-22	3-15-22	
Hexachlorobenzene	ND	1.0	EPA 8270E	3-15-22	3-15-22	
Pentachlorophenol	ND	6.5	EPA 8270E	3-15-22	3-15-22	
Phenanthrene	ND	0.10	EPA 8270E/SIM	3-15-22	3-16-22	
Anthracene	ND	0.10	EPA 8270E/SIM	3-15-22	3-16-22	
Carbazole	ND	1.0	EPA 8270E	3-15-22	3-15-22	
Di-n-butylphthalate	ND	5.1	EPA 8270E	3-15-22	3-15-22	
Fluoranthene	ND	0.10	EPA 8270E/SIM	3-15-22	3-16-22	
Pyrene	ND	0.10	EPA 8270E/SIM	3-15-22	3-16-22	
Butylbenzylphthalate	ND	1.0	EPA 8270E	3-15-22	3-15-22	
bis(2-Ethylhexyl)adipate	ND	5.1	EPA 8270E	3-15-22	3-15-22	
3,3'-Dichlorobenzidine	ND	1.0	EPA 8270E	3-15-22	3-15-22	
Benzo[a]anthracene	ND	0.010	EPA 8270E/SIM	3-15-22	3-16-22	
Chrysene	ND	0.010	EPA 8270E/SIM	3-15-22	3-16-22	
bis(2-Ethylhexyl)phthalate	ND	5.1	EPA 8270E	3-15-22	3-15-22	
Di-n-octylphthalate	ND	1.0	EPA 8270E	3-15-22	3-15-22	
Benzo[b]fluoranthene	ND	0.010	EPA 8270E/SIM	3-15-22	3-16-22	
Benzo(j,k)fluoranthene	ND	0.010	EPA 8270E/SIM	3-15-22	3-16-22	
Benzo[a]pyrene	ND	0.010	EPA 8270E/SIM	3-15-22	3-16-22	
Indeno[1,2,3-cd]pyrene	ND	0.010	EPA 8270E/SIM	3-15-22	3-16-22	
Dibenz[a,h]anthracene	ND	0.010	EPA 8270E/SIM	3-15-22	3-16-22	
Benzo[g,h,i]perylene	ND	0.010	EPA 8270E/SIM	3-15-22	3-16-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
2-Fluorophenol	43	10 - 82				
Phenol-d6	31	10 - 92				
Nitrobenzene-d5	68	32 - 105				
2-Fluorobiphenyl	64	38 - 105				
2,4,6-Tribromophenol	79	25 - 124				
Terphenyl-d14	66	42 - 116				



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PCBs EPA 8082A

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-6-31122					
Laboratory ID:	03-149-01					
Aroclor 1016	ND	0.051	EPA 8082A	3-16-22	3-18-22	
Aroclor 1221	ND	0.051	EPA 8082A	3-16-22	3-18-22	
Aroclor 1232	ND	0.051	EPA 8082A	3-16-22	3-18-22	
Aroclor 1242	ND	0.051	EPA 8082A	3-16-22	3-18-22	
Aroclor 1248	ND	0.051	EPA 8082A	3-16-22	3-18-22	
Aroclor 1254	ND	0.051	EPA 8082A	3-16-22	3-18-22	
Aroclor 1260	ND	0.051	EPA 8082A	3-16-22	3-18-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>DCB</i>	86	42-140				



Date of Report: April 11, 2022
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 Project: 6694-002-05 T700

**ORGANOCHLORINE
 PESTICIDES EPA 8081B**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-6-31122					
Laboratory ID:	03-149-01					
alpha-BHC	ND	0.0051	EPA 8081B	3-16-22	3-16-22	
gamma-BHC (Lindane)	ND	0.0051	EPA 8081B	3-16-22	3-16-22	
beta-BHC	ND	0.0051	EPA 8081B	3-16-22	3-16-22	
delta-BHC	ND	0.0051	EPA 8081B	3-16-22	3-16-22	
Heptachlor	ND	0.0051	EPA 8081B	3-16-22	3-16-22	
Aldrin	ND	0.0020	EPA 8081B	3-16-22	3-16-22	
Heptachlor Epoxide	ND	0.0030	EPA 8081B	3-16-22	3-16-22	
gamma-Chlordane	ND	0.0051	EPA 8081B	3-16-22	3-16-22	
alpha-Chlordane	ND	0.0051	EPA 8081B	3-16-22	3-16-22	
4,4'-DDE	ND	0.0051	EPA 8081B	3-16-22	3-16-22	
Endosulfan I	ND	0.0051	EPA 8081B	3-16-22	3-16-22	
Dieldrin	ND	0.0051	EPA 8081B	3-16-22	3-16-22	
Endrin	ND	0.0051	EPA 8081B	3-16-22	3-16-22	
4,4'-DDD	ND	0.0051	EPA 8081B	3-16-22	3-16-22	
Endosulfan II	ND	0.0051	EPA 8081B	3-16-22	3-16-22	
4,4'-DDT	ND	0.0051	EPA 8081B	3-16-22	3-16-22	
Endrin Aldehyde	ND	0.0051	EPA 8081B	3-16-22	3-16-22	
Methoxychlor	ND	0.010	EPA 8081B	3-16-22	3-16-22	
Endosulfan Sulfate	ND	0.0051	EPA 8081B	3-16-22	3-16-22	
Endrin Ketone	ND	0.020	EPA 8081B	3-16-22	3-16-22	
Toxaphene	ND	0.051	EPA 8081B	3-16-22	3-16-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
TCMX	45	25-114				
DCB	87	30-137				



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TOTAL METALS
EPA 200.8/200.7/7470A

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-6-31122					
Laboratory ID:	03-149-01					
Arsenic	4.2	3.3	EPA 200.8	3-14-22	3-14-22	
Cadmium	ND	4.4	EPA 200.8	3-14-22	3-14-22	
Chromium	ND	11	EPA 200.8	3-14-22	3-14-22	
Copper	ND	11	EPA 200.8	3-14-22	3-14-22	
Iron	1100	50	EPA 200.7	3-16-22	3-16-22	
Lead	ND	1.1	EPA 200.8	3-14-22	3-14-22	
Magnesium	24000	1000	EPA 200.7	3-16-22	3-16-22	
Manganese	2100	10	EPA 200.7	3-16-22	3-16-22	
Mercury	ND	0.025	EPA 7470A	3-16-22	3-16-22	
Nickel	ND	22	EPA 200.8	3-14-22	3-14-22	
Selenium	ND	5.6	EPA 200.8	3-14-22	3-14-22	
Zinc	ND	28	EPA 200.8	3-14-22	3-14-22	



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DISSOLVED METALS
EPA 200.8/200.7/7470A

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-6-31122					
Laboratory ID:	03-149-01					
Arsenic	3.9	3.0	EPA 200.8		3-15-22	
Cadmium	ND	4.0	EPA 200.8		3-15-22	
Calcium	44000	1100	EPA 200.7		3-15-22	
Chromium	ND	10	EPA 200.8		3-15-22	
Copper	ND	10	EPA 200.8		3-15-22	
Iron	74	56	EPA 200.7		3-15-22	
Lead	ND	1.0	EPA 200.8		3-15-22	
Magnesium	21000	1100	EPA 200.7		3-15-22	
Manganese	2000	11	EPA 200.7		3-15-22	
Mercury	ND	0.025	EPA 7470A		3-16-22	
Nickel	ND	20	EPA 200.8		3-15-22	
Potassium	2500	1100	EPA 200.7		3-15-22	
Selenium	ND	5.0	EPA 200.8		3-15-22	
Sodium	19000	1100	EPA 200.7		3-15-22	
Zinc	ND	25	EPA 200.8		3-15-22	



Date of Report: April 11, 2022
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Laboratory Reference: 2203-149
Project: 6694-002-05 T700

**TOTAL ALKALINITY
SM 2320B**

Matrix: Water
Units: mg CaCO₃/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-6-31122					
Laboratory ID:	03-149-01					
Total Alkalinity	200	2.0	SM 2320B	3-15-22	3-15-22	



Date of Report: December 15, 2022
Samples Submitted: December 7, 2022
Laboratory Reference: 2112-075
Project: 6694-002-05 T700

**BICARBONATE
SM 2320B**

Matrix: Water
Units: mg CaCO₃/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-6-31122					
Laboratory ID:	03-149-01					
Bicarbonate Concentration	200	2.0	SM 2320B	3-15-22	3-15-22	



Date of Report: April 11, 2022
 Samples Submitted: March 11, 2022
 Laboratory Reference: 2203-149
 Project: 6694-002-05 T700

**TOTAL DISSOLVED SOLIDS
 SM 2540C**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-6-31122					
Laboratory ID:	03-149-01					
Total Dissolved Solids	270	13	SM 2540C	3-17-22	3-18-22	



Date of Report: April 11, 2022
Samples Submitted: March 11, 2022
Laboratory Reference: 2203-149
Project: 6694-002-05 T700

CHLORIDE
SM 4500-Cl E

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-6-31122					
Laboratory ID:	03-149-01					
Chloride	5.7	2.0	SM 4500-Cl E	3-17-22	3-17-22	



Date of Report: April 11, 2022
Samples Submitted: March 11, 2022
Laboratory Reference: 2203-149
Project: 6694-002-05 T700

NITRATE (as Nitrogen)
EPA 353.2

Matrix: Water
Units: mg/L-N

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-6-31122					
Laboratory ID:	03-149-01					
Nitrate	0.12	0.050	EPA 353.2	3-15-22	3-15-22	



Date of Report: April 11, 2022
Samples Submitted: March 11, 2022
Laboratory Reference: 2203-149
Project: 6694-002-05 T700

SULFATE
ASTM D516-11

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-6-31122					
Laboratory ID:	03-149-01					
Sulfate	25	10	ASTM D516-11	3-14-22	3-14-22	



Date of Report: April 11, 2022
 Samples Submitted: March 11, 2022
 Laboratory Reference: 2203-149
 Project: 6694-002-05 T700

AMMONIA (as Nitrogen)
SM 4500-NH₃ D

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-6-31122					
Laboratory ID:	03-149-01					
Ammonia	0.096	0.050	SM 4500-NH3 D	3-16-22	3-16-22	



Date of Report: April 11, 2022
 Samples Submitted: March 11, 2022
 Laboratory Reference: 2203-149
 Project: 6694-002-05 T700

**GASOLINE RANGE ORGANICS
 NWTPH-Gx
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0314W1					
Gasoline	ND	100	NWTPH-Gx	3-14-22	3-14-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	92	66-117				

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	03-116-02							
	ORIG	DUP						
Gasoline	ND	ND	NA	NA	NA	NA	30	
<i>Surrogate:</i>								
<i>Fluorobenzene</i>				91	91	66-117		



Date of Report: April 11, 2022
 Samples Submitted: March 11, 2022
 Laboratory Reference: 2203-149
 Project: 6694-002-05 T700

**DIESEL AND HEAVY OIL RANGE ORGANICS
 NWTPH-Dx
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0315W1					
Diesel Range Organics	ND	0.20	NWTPH-Dx	3-15-22	3-15-22	X1
Lube Oil Range Organics	ND	0.20	NWTPH-Dx	3-15-22	3-15-22	X1
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	104	50-150				

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	SB0315W1							
	ORIG	DUP						
Diesel Fuel #2	0.450	0.417	NA	NA	NA	NA	8	NA X1
<i>Surrogate:</i>								
<i>o-Terphenyl</i>				120	110	50-150		



Date of Report: April 11, 2022
 Samples Submitted: March 11, 2022
 Laboratory Reference: 2203-149
 Project: 6694-002-05 T700

**VOLATILE ORGANICS EPA 8260D
 QUALITY CONTROL**

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Matrix: Water

Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0316W1					
Dichlorodifluoromethane	ND	0.29	EPA 8260D	3-16-22	3-16-22	
Chloromethane	ND	1.0	EPA 8260D	3-16-22	3-16-22	
Vinyl Chloride	ND	0.20	EPA 8260D	3-16-22	3-16-22	
Bromomethane	ND	0.20	EPA 8260D	3-16-22	3-16-22	
Chloroethane	ND	1.0	EPA 8260D	3-16-22	3-16-22	
Trichlorofluoromethane	ND	0.20	EPA 8260D	3-16-22	3-16-22	
1,1-Dichloroethene	ND	0.20	EPA 8260D	3-16-22	3-16-22	
Acetone	ND	5.0	EPA 8260D	3-16-22	3-16-22	
Iodomethane	ND	1.0	EPA 8260D	3-16-22	3-16-22	
Carbon Disulfide	ND	0.20	EPA 8260D	3-16-22	3-16-22	
Methylene Chloride	ND	1.0	EPA 8260D	3-16-22	3-16-22	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	3-16-22	3-16-22	
Methyl t-Butyl Ether	ND	0.20	EPA 8260D	3-16-22	3-16-22	
1,1-Dichloroethane	ND	0.20	EPA 8260D	3-16-22	3-16-22	
Vinyl Acetate	ND	1.0	EPA 8260D	3-16-22	3-16-22	
2,2-Dichloropropane	ND	0.20	EPA 8260D	3-16-22	3-16-22	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	3-16-22	3-16-22	
2-Butanone	ND	5.0	EPA 8260D	3-16-22	3-16-22	
Bromochloromethane	ND	0.20	EPA 8260D	3-16-22	3-16-22	
Chloroform	ND	0.20	EPA 8260D	3-16-22	3-16-22	
1,1,1-Trichloroethane	ND	0.20	EPA 8260D	3-16-22	3-16-22	
Carbon Tetrachloride	ND	0.20	EPA 8260D	3-16-22	3-16-22	
1,1-Dichloropropene	ND	0.20	EPA 8260D	3-16-22	3-16-22	
Benzene	ND	0.20	EPA 8260D	3-16-22	3-16-22	
1,2-Dichloroethane	ND	0.20	EPA 8260D	3-16-22	3-16-22	
Trichloroethene	ND	0.20	EPA 8260D	3-16-22	3-16-22	
1,2-Dichloropropane	ND	0.20	EPA 8260D	3-16-22	3-16-22	
Dibromomethane	ND	0.20	EPA 8260D	3-16-22	3-16-22	
Bromodichloromethane	ND	0.20	EPA 8260D	3-16-22	3-16-22	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260D	3-16-22	3-16-22	
Methyl Isobutyl Ketone	ND	2.0	EPA 8260D	3-16-22	3-16-22	
Toluene	ND	1.0	EPA 8260D	3-16-22	3-16-22	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260D	3-16-22	3-16-22	



Date of Report: April 11, 2022
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 Project: 6694-002-05 T700

**VOLATILE ORGANICS EPA 8260D
 QUALITY CONTROL**

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0316W1					
1,1,2-Trichloroethane	ND	0.20	EPA 8260D	3-16-22	3-16-22	
Tetrachloroethene	ND	0.20	EPA 8260D	3-16-22	3-16-22	
1,3-Dichloropropane	ND	0.20	EPA 8260D	3-16-22	3-16-22	
2-Hexanone	ND	2.0	EPA 8260D	3-16-22	3-16-22	
Dibromochloromethane	ND	0.20	EPA 8260D	3-16-22	3-16-22	
1,2-Dibromoethane	ND	0.20	EPA 8260D	3-16-22	3-16-22	
Chlorobenzene	ND	0.20	EPA 8260D	3-16-22	3-16-22	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260D	3-16-22	3-16-22	
Ethylbenzene	ND	0.20	EPA 8260D	3-16-22	3-16-22	
m,p-Xylene	ND	0.40	EPA 8260D	3-16-22	3-16-22	
o-Xylene	ND	0.20	EPA 8260D	3-16-22	3-16-22	
Styrene	ND	0.20	EPA 8260D	3-16-22	3-16-22	
Bromoform	ND	1.0	EPA 8260D	3-16-22	3-16-22	
Isopropylbenzene	ND	0.20	EPA 8260D	3-16-22	3-16-22	
Bromobenzene	ND	0.20	EPA 8260D	3-16-22	3-16-22	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260D	3-16-22	3-16-22	
1,2,3-Trichloropropane	ND	0.20	EPA 8260D	3-16-22	3-16-22	
n-Propylbenzene	ND	0.20	EPA 8260D	3-16-22	3-16-22	
2-Chlorotoluene	ND	0.20	EPA 8260D	3-16-22	3-16-22	
4-Chlorotoluene	ND	0.20	EPA 8260D	3-16-22	3-16-22	
1,3,5-Trimethylbenzene	ND	0.20	EPA 8260D	3-16-22	3-16-22	
tert-Butylbenzene	ND	0.20	EPA 8260D	3-16-22	3-16-22	
1,2,4-Trimethylbenzene	ND	0.20	EPA 8260D	3-16-22	3-16-22	
sec-Butylbenzene	ND	0.20	EPA 8260D	3-16-22	3-16-22	
1,3-Dichlorobenzene	ND	0.20	EPA 8260D	3-16-22	3-16-22	
p-Isopropyltoluene	ND	0.20	EPA 8260D	3-16-22	3-16-22	
1,4-Dichlorobenzene	ND	0.20	EPA 8260D	3-16-22	3-16-22	
1,2-Dichlorobenzene	ND	0.20	EPA 8260D	3-16-22	3-16-22	
n-Butylbenzene	ND	0.20	EPA 8260D	3-16-22	3-16-22	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260D	3-16-22	3-16-22	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260D	3-16-22	3-16-22	
Hexachlorobutadiene	ND	1.0	EPA 8260D	3-16-22	3-16-22	
Naphthalene	ND	1.0	EPA 8260D	3-16-22	3-16-22	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260D	3-16-22	3-16-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>97</i>	<i>75-127</i>				
<i>Toluene-d8</i>	<i>99</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>96</i>	<i>78-125</i>				



Date of Report: April 11, 2022
 Samples Submitted: March 11, 2022
 Laboratory Reference: 2203-149
 Project: 6694-002-05 T700

**VOLATILE ORGANICS EPA 8260D
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD	RPD	Flags
					SB	SBD	Limits	RPD	Limit	
SPIKE BLANKS										
Laboratory ID:	SB0316W1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	10.8	10.5	10.0	10.0	108	105	78-125	3	19	
Benzene	11.0	10.7	10.0	10.0	110	107	80-119	3	16	
Trichloroethene	11.3	11.1	10.0	10.0	113	111	80-121	2	18	
Toluene	10.7	10.6	10.0	10.0	107	106	80-117	1	18	
Chlorobenzene	11.4	11.3	10.0	10.0	114	113	80-117	1	17	
<i>Surrogate:</i>										
Dibromofluoromethane					99	100	75-127			
Toluene-d8					100	101	80-127			
4-Bromofluorobenzene					99	101	78-125			



Date of Report: April 11, 2022
 Samples Submitted: March 11, 2022
 Laboratory Reference: 2203-149
 Project: 6694-002-05 T700

**SEMIVOLATILE ORGANICS EPA 8270E/SIM
 QUALITY CONTROL**

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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0315W1					
n-Nitrosodimethylamine	ND	1.0	EPA 8270E	3-15-22	3-15-22	
Pyridine	ND	1.0	EPA 8270E	3-15-22	3-15-22	
Phenol	ND	1.0	EPA 8270E	3-15-22	3-15-22	
Aniline	ND	5.0	EPA 8270E	3-15-22	3-15-22	
bis(2-Chloroethyl)ether	ND	1.0	EPA 8270E	3-15-22	3-15-22	
2-Chlorophenol	ND	1.0	EPA 8270E	3-15-22	3-15-22	
1,3-Dichlorobenzene	ND	1.0	EPA 8270E	3-15-22	3-15-22	
1,4-Dichlorobenzene	ND	1.0	EPA 8270E	3-15-22	3-15-22	
Benzyl alcohol	ND	1.0	EPA 8270E	3-15-22	3-15-22	
1,2-Dichlorobenzene	ND	1.0	EPA 8270E	3-15-22	3-15-22	
2-Methylphenol (o-Cresol)	ND	1.0	EPA 8270E	3-15-22	3-15-22	
bis(2-Chloroisopropyl)ether	ND	1.0	EPA 8270E	3-15-22	3-15-22	
(3+4)-Methylphenol (m,p-Cresol)	ND	1.0	EPA 8270E	3-15-22	3-15-22	
n-Nitroso-di-n-propylamine	ND	1.0	EPA 8270E	3-15-22	3-15-22	
Hexachloroethane	ND	1.0	EPA 8270E	3-15-22	3-15-22	
Nitrobenzene	ND	1.0	EPA 8270E	3-15-22	3-15-22	
Isophorone	ND	1.0	EPA 8270E	3-15-22	3-15-22	
2-Nitrophenol	ND	1.0	EPA 8270E	3-15-22	3-15-22	
2,4-Dimethylphenol	ND	1.0	EPA 8270E	3-15-22	3-15-22	
bis(2-Chloroethoxy)methane	ND	1.0	EPA 8270E	3-15-22	3-15-22	
2,4-Dichlorophenol	ND	1.0	EPA 8270E	3-15-22	3-15-22	
1,2,4-Trichlorobenzene	ND	1.0	EPA 8270E	3-15-22	3-15-22	
Naphthalene	ND	0.10	EPA 8270E/SIM	3-15-22	3-16-22	
4-Chloroaniline	ND	1.0	EPA 8270E	3-15-22	3-15-22	
Hexachlorobutadiene	ND	1.0	EPA 8270E	3-15-22	3-15-22	
4-Chloro-3-methylphenol	ND	1.0	EPA 8270E	3-15-22	3-15-22	
2-Methylnaphthalene	ND	0.10	EPA 8270E/SIM	3-15-22	3-16-22	
1-Methylnaphthalene	ND	0.10	EPA 8270E/SIM	3-15-22	3-16-22	
Hexachlorocyclopentadiene	ND	1.0	EPA 8270E	3-15-22	3-15-22	
2,4,6-Trichlorophenol	ND	1.0	EPA 8270E	3-15-22	3-15-22	
2,3-Dichloroaniline	ND	1.0	EPA 8270E	3-15-22	3-15-22	
2,4,5-Trichlorophenol	ND	1.0	EPA 8270E	3-15-22	3-15-22	
2-Chloronaphthalene	ND	1.0	EPA 8270E	3-15-22	3-15-22	
2-Nitroaniline	ND	1.0	EPA 8270E	3-15-22	3-15-22	
1,4-Dinitrobenzene	ND	1.0	EPA 8270E	3-15-22	3-15-22	
Dimethylphthalate	ND	5.0	EPA 8270E	3-15-22	3-15-22	
1,3-Dinitrobenzene	ND	1.0	EPA 8270E	3-15-22	3-15-22	
2,6-Dinitrotoluene	ND	1.0	EPA 8270E	3-15-22	3-15-22	
1,2-Dinitrobenzene	ND	1.0	EPA 8270E	3-15-22	3-15-22	
Acenaphthylene	ND	0.10	EPA 8270E/SIM	3-15-22	3-16-22	
3-Nitroaniline	ND	1.0	EPA 8270E	3-15-22	3-15-22	



Date of Report: April 11, 2022
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 Laboratory Reference: 2203-149
 Project: 6694-002-05 T700

**SEMIVOLATILE ORGANICS EPA 8270E/SIM
 QUALITY CONTROL**

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0315W1					
2,4-Dinitrophenol	ND	8.5	EPA 8270E	3-15-22	3-15-22	
Acenaphthene	ND	0.10	EPA 8270E/SIM	3-15-22	3-16-22	
4-Nitrophenol	ND	5.0	EPA 8270E	3-15-22	3-15-22	
2,4-Dinitrotoluene	ND	1.0	EPA 8270E	3-15-22	3-15-22	
Dibenzofuran	ND	1.0	EPA 8270E	3-15-22	3-15-22	
2,3,5,6-Tetrachlorophenol	ND	1.0	EPA 8270E	3-15-22	3-15-22	
2,3,4,6-Tetrachlorophenol	ND	1.0	EPA 8270E	3-15-22	3-15-22	
Diethylphthalate	ND	1.0	EPA 8270E	3-15-22	3-15-22	
4-Chlorophenyl-phenylether	ND	1.0	EPA 8270E	3-15-22	3-15-22	
4-Nitroaniline	ND	1.0	EPA 8270E	3-15-22	3-15-22	
Fluorene	ND	0.10	EPA 8270E/SIM	3-15-22	3-16-22	
4,6-Dinitro-2-methylphenol	ND	6.3	EPA 8270E	3-15-22	3-15-22	
n-Nitrosodiphenylamine	ND	1.0	EPA 8270E	3-15-22	3-15-22	
1,2-Diphenylhydrazine	ND	1.0	EPA 8270E	3-15-22	3-15-22	
4-Bromophenyl-phenylether	ND	1.0	EPA 8270E	3-15-22	3-15-22	
Hexachlorobenzene	ND	1.0	EPA 8270E	3-15-22	3-15-22	
Pentachlorophenol	ND	6.3	EPA 8270E	3-15-22	3-15-22	
Phenanthrene	ND	0.10	EPA 8270E/SIM	3-15-22	3-16-22	
Anthracene	ND	0.10	EPA 8270E/SIM	3-15-22	3-16-22	
Carbazole	ND	1.0	EPA 8270E	3-15-22	3-15-22	
Di-n-butylphthalate	ND	5.0	EPA 8270E	3-15-22	3-15-22	
Fluoranthene	ND	0.10	EPA 8270E/SIM	3-15-22	3-16-22	
Pyrene	ND	0.10	EPA 8270E/SIM	3-15-22	3-16-22	
Butylbenzylphthalate	ND	1.0	EPA 8270E	3-15-22	3-15-22	
bis-2-Ethylhexyladipate	ND	5.0	EPA 8270E	3-15-22	3-15-22	
3,3'-Dichlorobenzidine	ND	1.0	EPA 8270E	3-15-22	3-15-22	
Benzo[a]anthracene	ND	0.010	EPA 8270E/SIM	3-15-22	3-16-22	
Chrysene	ND	0.010	EPA 8270E/SIM	3-15-22	3-16-22	
bis(2-Ethylhexyl)phthalate	ND	5.0	EPA 8270E	3-15-22	3-15-22	
Di-n-octylphthalate	ND	1.0	EPA 8270E	3-15-22	3-15-22	
Benzo[b]fluoranthene	ND	0.010	EPA 8270E/SIM	3-15-22	3-16-22	
Benzo(j,k)fluoranthene	ND	0.010	EPA 8270E/SIM	3-15-22	3-16-22	
Benzo[a]pyrene	ND	0.010	EPA 8270E/SIM	3-15-22	3-16-22	
Indeno[1,2,3-cd]pyrene	ND	0.010	EPA 8270E/SIM	3-15-22	3-16-22	
Dibenz[a,h]anthracene	ND	0.010	EPA 8270E/SIM	3-15-22	3-16-22	
Benzo[g,h,i]perylene	ND	0.010	EPA 8270E/SIM	3-15-22	3-16-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
2-Fluorophenol	47	10 - 82				
Phenol-d6	34	10 - 92				
Nitrobenzene-d5	73	32 - 105				
2-Fluorobiphenyl	66	38 - 105				
2,4,6-Tribromophenol	85	25 - 124				
Terphenyl-d14	74	42 - 116				



Date of Report: April 11, 2022
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 Project: 6694-002-05 T700

**SEMIVOLATILE ORGANICS EPA 8270E/SIM
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L

Analyte	Result		Spike Level		Source	Percent		Recovery	RPD	RPD	Flags
					Result	Recovery	Limits			Limit	
MATRIX SPIKES											
Laboratory ID:	03-158-01										
	MS	MSD	MS	MSD		MS	MSD				
Phenol	96.9	89.4	160	160	ND	61	56	20 - 108	8	24	
2-Chlorophenol	116	106	160	160	ND	73	66	24 - 105	9	32	
1,4-Dichlorobenzene	49.1	37.6	80.0	80.0	ND	61	47	24 - 100	27	36	
n-Nitroso-di-n-propylamine	60.5	54.9	80.0	80.0	ND	76	69	21 - 143	10	30	
1,2,4-Trichlorobenzene	54.5	44.7	80.0	80.0	ND	68	56	34 - 105	20	34	
4-Chloro-3-methylphenol	123	117	160	160	ND	77	73	44 - 113	5	21	
Acenaphthene	59.4	53.3	80.0	80.0	ND	74	67	47 - 106	11	19	
4-Nitrophenol	126	111	160	160	ND	79	69	20 - 127	13	37	
2,4-Dinitrotoluene	55.8	52.2	80.0	80.0	ND	70	65	45 - 106	7	19	
Pentachlorophenol	136	121	160	160	ND	85	76	20 - 136	12	39	
Pyrene	61.3	59.5	80.0	80.0	ND	77	74	47 - 112	3	23	
<i>Surrogate:</i>											
2-Fluorophenol						68	60	10 - 82			
Phenol-d6						65	60	10 - 92			
Nitrobenzene-d5						79	73	32 - 105			
2-Fluorobiphenyl						78	69	38 - 105			
2,4,6-Tribromophenol						83	79	25 - 124			
Terphenyl-d14						79	76	42 - 116			



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**PCBs EPA 8082A
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0316W1					
Aroclor 1016	ND	0.050	EPA 8082A	3-16-22	3-18-22	
Aroclor 1221	ND	0.050	EPA 8082A	3-16-22	3-18-22	
Aroclor 1232	ND	0.050	EPA 8082A	3-16-22	3-18-22	
Aroclor 1242	ND	0.050	EPA 8082A	3-16-22	3-18-22	
Aroclor 1248	ND	0.050	EPA 8082A	3-16-22	3-18-22	
Aroclor 1254	ND	0.050	EPA 8082A	3-16-22	3-18-22	
Aroclor 1260	ND	0.050	EPA 8082A	3-16-22	3-18-22	
Surrogate:	Percent Recovery	Control Limits				
DCB	97	42-140				

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS								
Laboratory ID:	SB0316W1							
	SB	SBD	SB	SBD	SB	SBD		
Aroclor 1260	0.450	0.424	0.500	0.500	N/A	90	85	73-131 6 12
Surrogate:								
DCB						96	94	42-140



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**ORGANOCHLORINE
 PESTICIDES EPA 8081B
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0316W1					
alpha-BHC	ND	0.0050	EPA 8081B	3-16-22	3-16-22	
gamma-BHC (Lindane)	ND	0.0050	EPA 8081B	3-16-22	3-16-22	
beta-BHC	ND	0.0050	EPA 8081B	3-16-22	3-16-22	
delta-BHC	ND	0.0050	EPA 8081B	3-16-22	3-16-22	
Heptachlor	ND	0.0050	EPA 8081B	3-16-22	3-16-22	
Aldrin	ND	0.0020	EPA 8081B	3-16-22	3-16-22	
Heptachlor Epoxide	ND	0.0030	EPA 8081B	3-16-22	3-16-22	
gamma-Chlordane	ND	0.0050	EPA 8081B	3-16-22	3-16-22	
alpha-Chlordane	ND	0.0050	EPA 8081B	3-16-22	3-16-22	
4,4'-DDE	ND	0.0050	EPA 8081B	3-16-22	3-16-22	
Endosulfan I	ND	0.0050	EPA 8081B	3-16-22	3-16-22	
Dieldrin	ND	0.0050	EPA 8081B	3-16-22	3-16-22	
Endrin	ND	0.0050	EPA 8081B	3-16-22	3-16-22	
4,4'-DDD	ND	0.0050	EPA 8081B	3-16-22	3-16-22	
Endosulfan II	ND	0.0050	EPA 8081B	3-16-22	3-16-22	
4,4'-DDT	ND	0.0050	EPA 8081B	3-16-22	3-16-22	
Endrin Aldehyde	ND	0.0050	EPA 8081B	3-16-22	3-16-22	
Methoxychlor	ND	0.010	EPA 8081B	3-16-22	3-16-22	
Endosulfan Sulfate	ND	0.0050	EPA 8081B	3-16-22	3-16-22	
Endrin Ketone	ND	0.020	EPA 8081B	3-16-22	3-16-22	
Toxaphene	ND	0.050	EPA 8081B	3-16-22	3-16-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
TCMX	72	25-114				
DCB	100	30-137				



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**ORGANOCHLORINE
 PESTICIDES EPA 8081B
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS											
Laboratory ID:	SB0316W2										
	SB	SBD	SB	SBD		SB	SBD				
alpha-BHC	0.0839	0.0887	0.100	0.100	N/A	84	89	42-113	6	19	
gamma-BHC (Lindane)	0.0823	0.0874	0.100	0.100	N/A	82	87	45-114	6	15	
beta-BHC	0.0837	0.0865	0.100	0.100	N/A	84	86	40-118	3	15	
delta-BHC	0.0775	0.0799	0.100	0.100	N/A	78	80	20-125	3	15	
Heptachlor	0.0768	0.0791	0.100	0.100	N/A	77	79	41-120	3	16	
Aldrin	0.0749	0.0788	0.100	0.100	N/A	75	79	35-115	5	15	
Heptachlor Epoxide	0.0782	0.0813	0.100	0.100	N/A	78	81	50-118	4	15	
gamma-Chlordane	0.0768	0.0806	0.100	0.100	N/A	77	81	46-110	5	15	
alpha-Chlordane	0.0772	0.0805	0.100	0.100	N/A	77	81	38-112	4	15	
4,4'-DDE	0.0894	0.0880	0.100	0.100	N/A	89	88	41-127	2	15	
Endosulfan I	0.0847	0.0884	0.100	0.100	N/A	85	88	45-119	4	15	
Dieldrin	0.0843	0.0874	0.100	0.100	N/A	84	87	46-115	4	15	
Endrin	0.0976	0.102	0.100	0.100	N/A	98	102	52-124	4	15	
4,4'-DDD	0.0869	0.0899	0.100	0.100	N/A	87	90	52-121	3	15	
Endosulfan II	0.0808	0.0854	0.100	0.100	N/A	81	85	44-114	6	15	
4,4'-DDT	0.0944	0.0942	0.100	0.100	N/A	94	94	48-123	0	15	
Endrin Aldehyde	0.0855	0.0853	0.100	0.100	N/A	86	85	45-114	0	15	
Methoxychlor	0.0859	0.0848	0.100	0.100	N/A	86	85	49-130	1	15	
Endosulfan Sulfate	0.0801	0.0839	0.100	0.100	N/A	80	84	39-117	5	15	
Endrin Ketone	0.0759	0.0773	0.100	0.100	N/A	76	77	53-119	2	15	
Surrogate:											
TCMX						55	61	25-114			
DCB						94	94	30-137			



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 Samples Submitted: March 11, 2022
 Laboratory Reference: 2203-149
 Project: 6694-002-05 T700

TOTAL METALS
EPA 200.8/200.7/7470A
QUALITY CONTROL

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0316WH1					
Iron	ND	56	EPA 200.7	3-16-22	3-16-22	
Magnesium	ND	1100	EPA 200.7	3-16-22	3-16-22	
Manganese	ND	11	EPA 200.7	3-16-22	3-16-22	
METHOD BLANK						
Laboratory ID:	MB0314WM1					
Arsenic	ND	3.3	EPA 200.8	3-14-22	3-14-22	
Cadmium	ND	4.4	EPA 200.8	3-14-22	3-14-22	
Chromium	ND	11	EPA 200.8	3-14-22	3-14-22	
Copper	ND	11	EPA 200.8	3-14-22	3-14-22	
Lead	ND	1.1	EPA 200.8	3-14-22	3-14-22	
Nickel	ND	22	EPA 200.8	3-14-22	3-14-22	
Selenium	ND	5.6	EPA 200.8	3-14-22	3-14-22	
Zinc	ND	28	EPA 200.8	3-14-22	3-14-22	
METHOD BLANK						
Laboratory ID:	MB0316W1					
Mercury	ND	0.025	EPA 7470A	3-16-22	3-16-22	



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TOTAL METALS
EPA 200.8/200.7/7470A
QUALITY CONTROL

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags			
DUPLICATE											
Laboratory ID:	03-165-01										
	ORIG	DUP									
Iron	123000	119000	NA	NA	NA	NA	4	20			
Magnesium	59800	58000	NA	NA	NA	NA	3	20			
Manganese	15700	15200	NA	NA	NA	NA	3	20			
Laboratory ID:	03-091-01										
Arsenic	ND	ND	NA	NA	NA	NA	NA	20			
Cadmium	ND	ND	NA	NA	NA	NA	NA	20			
Chromium	ND	ND	NA	NA	NA	NA	NA	20			
Copper	ND	ND	NA	NA	NA	NA	NA	20			
Lead	ND	ND	NA	NA	NA	NA	NA	20			
Nickel	ND	ND	NA	NA	NA	NA	NA	20			
Selenium	ND	ND	NA	NA	NA	NA	NA	20			
Zinc	ND	ND	NA	NA	NA	NA	NA	20			
Laboratory ID:	03-124-01										
Mercury	ND	ND	NA	NA	NA	NA	NA	20			
MATRIX SPIKES											
Laboratory ID:	03-165-01										
	MS	MSD	MS	MSD	MS	MSD					
Iron	149000	146000	22200	22200	123000	115	100	75-125	2	20	
Magnesium	86200	83900	22200	22200	59800	119	109	75-125	3	20	
Manganese	16100	15600	556	556	15700	78	-22	75-125	4	20	A
Laboratory ID:	03-091-01										
Arsenic	122	118	111	111	ND	110	106	75-125	4	20	
Cadmium	118	108	111	111	ND	107	97	75-125	9	20	
Chromium	117	108	111	111	ND	106	98	75-125	8	20	
Copper	110	100	111	111	ND	99	90	75-125	9	20	
Lead	113	102	111	111	ND	102	92	75-125	10	20	
Nickel	112	102	111	111	ND	101	92	75-125	10	20	
Selenium	125	111	111	111	ND	113	100	75-125	11	20	
Zinc	116	109	111	111	ND	105	98	75-125	7	20	
Laboratory ID:	03-124-01										
Mercury	6.35	6.38	6.25	6.25	ND	102	102	75-125	0	20	



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**DISSOLVED METALS
 EPA 200.8/200.7/7470A
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0315D1					
Calcium	ND	1100	EPA 200.7		3-15-22	
Iron	ND	56	EPA 200.7		3-15-22	
Magnesium	ND	1100	EPA 200.7		3-15-22	
Manganese	ND	11	EPA 200.7		3-15-22	
Potassium	ND	1100	EPA 200.7		3-15-22	
Sodium	ND	1100	EPA 200.7		3-15-22	
Laboratory ID:	MB0315D1					
Arsenic	ND	3.0	EPA 200.8		3-15-22	
Cadmium	ND	4.0	EPA 200.8		3-15-22	
Chromium	ND	10	EPA 200.8		3-15-22	
Copper	ND	10	EPA 200.8		3-15-22	
Lead	ND	1.0	EPA 200.8		3-15-22	
Nickel	ND	20	EPA 200.8		3-15-22	
Selenium	ND	5.0	EPA 200.8		3-15-22	
Zinc	ND	25	EPA 200.8		3-15-22	
Laboratory ID:	MB0316D1					
Mercury	ND	0.025	EPA 7470A		3-16-22	



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**DISSOLVED METALS
 EPA 200.8/200.7/7470A
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result		Spike Level		Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE										
Laboratory ID:	03-124-01									
	ORIG	DUP								
Calcium	24100	24400	NA	NA		NA	NA	1	20	
Iron	ND	ND	NA	NA		NA	NA	NA	20	
Magnesium	13000	13200	NA	NA		NA	NA	2	20	
Manganese	178	181	NA	NA		NA	NA	2	20	
Potassium	1860	1820	NA	NA		NA	NA	2	20	
Sodium	7050	7030	NA	NA		NA	NA	0	20	
Laboratory ID:	03-149-01									
Arsenic	3.86	3.56	NA	NA		NA	NA	8	20	
Cadmium	ND	ND	NA	NA		NA	NA	NA	20	
Chromium	ND	ND	NA	NA		NA	NA	NA	20	
Copper	ND	ND	NA	NA		NA	NA	NA	20	
Lead	ND	ND	NA	NA		NA	NA	NA	20	
Nickel	ND	ND	NA	NA		NA	NA	NA	20	
Selenium	ND	ND	NA	NA		NA	NA	NA	20	
Zinc	ND	ND	NA	NA		NA	NA	NA	20	
Laboratory ID:	03-149-01									
Mercury	ND	ND	NA	NA		NA	NA	NA	20	
MATRIX SPIKES										
Laboratory ID:	03-124-01									
	MS	MSD	MS	MSD		MS	MSD			
Calcium	48000	47800	22200	22200	24100	108	107	75-125	0	20
Iron	25600	25900	22200	22200	ND	116	117	75-125	1	20
Magnesium	36500	36500	22200	22200	13000	106	106	75-125	0	20
Manganese	729	727	556	556	178	99	99	75-125	0	20
Potassium	28000	28300	22200	22200	1860	118	119	75-125	1	20
Sodium	30700	30900	22200	22200	7050	107	107	75-125	0	20
Laboratory ID:	03-149-01									
Arsenic	90.8	89.2	80.0	80.0	3.86	109	107	75-125	2	20
Cadmium	80.0	80.8	80.0	80.0	ND	100	101	75-125	1	20
Chromium	77.6	77.4	80.0	80.0	ND	97	97	75-125	0	20
Copper	73.6	73.2	80.0	80.0	ND	92	92	75-125	1	20
Lead	76.6	77.2	80.0	80.0	ND	96	97	75-125	1	20
Nickel	82.8	83.8	80.0	80.0	ND	104	105	75-125	1	20
Selenium	93.4	91.4	80.0	80.0	ND	117	114	75-125	2	20
Zinc	82.0	82.0	80.0	80.0	ND	103	103	75-125	0	20
Laboratory ID:	03-149-01									
Mercury	6.28	6.05	6.25	6.25	ND	100	97	75-125	4	20



OnSite Environmental, Inc. 14648 NE 95th Street, Redmond, WA 98052 (425) 883-3881

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: April 11, 2022
 Samples Submitted: March 11, 2022
 Laboratory Reference: 2203-149
 Project: 6694-002-05 T700

**TOTAL ALKALINITY
 SM 2320B
 QUALITY CONTROL**

Matrix: Water
 Units: mg CaCO₃/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0315W1					
Total Alkalinity	ND	2.0	SM 2320B	3-15-22	3-15-22	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	03-149-01							
	ORIG	DUP						
Total Alkalinity	202	200	NA	NA	NA	1	10	

SPIKE BLANK								
Laboratory ID:	SB0315W1							
	SB	SB		SB				
Total Alkalinity	100	100	NA	100	89-110	NA	NA	



Date of Report: December 15, 2022
 Samples Submitted: December 7, 2022
 Laboratory Reference: 2112-075
 Project: 6694-002-05 T700

**BICARBONATE
 SM 2320B
 QUALITY CONTROL**

Matrix: Water
 Units: mg CaCO₃/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0315W1					
Bicarbonate Concentration	ND	2.0	SM 2320B	3-15-22	3-15-22	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	03-149-01							
	ORIG	DUP						
Total Alkalinity	202	200	NA	NA	NA	1	10	

SPIKE BLANK								
Laboratory ID:	SB0315W1							
	SB	SB		SB				
Total Alkalinity	100	100	NA	100	89-110	NA	NA	



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**TOTAL DISSOLVED SOLIDS
 SM 2540C
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0317W1					
Total Dissolved Solids	ND	13	SM 2540C	3-17-22	3-18-22	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	03-149-01							
	ORIG	DUP						
Total Dissolved Solids	273	271	NA	NA	NA	1	29	

SPIKE BLANK								
Laboratory ID:	SB0317W1							
	SB	SB		SB				
Total Dissolved Solids	496	500	NA	99	84-110	NA	NA	



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**CHLORIDE
 SM 4500-Cl E
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0317W1					
Chloride	ND	2.0	SM 4500-Cl E	3-17-22	3-17-22	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	03-149-01							
	ORIG	DUP						
Chloride	5.71	5.74	NA	NA	NA	1	15	

MATRIX SPIKE								
Laboratory ID:	03-149-01							
	MS	MS		MS				
Chloride	57.9	50.0	5.71	104	86-115	NA	NA	

SPIKE BLANK								
Laboratory ID:	SB0317W1							
	SB	SB		SB				
Chloride	53.7	50.0	NA	107	86-115	NA	NA	



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**NITRATE (as Nitrogen)
 EPA 353.2
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L-N

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0315W1					
Nitrate	ND	0.050	EPA 353.2	3-15-22	3-15-22	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	03-089-01							
	ORIG	DUP						
Nitrate	ND	ND	NA	NA	NA	NA	16	

MATRIX SPIKE								
Laboratory ID:	03-089-01							
	MS	MS		MS				
Nitrate	2.30	2.00	ND	115	92-125	NA	NA	

SPIKE BLANK								
Laboratory ID:	SB0315W1							
	SB	SB		SB				
Nitrate	2.22	2.00	NA	111	90-121	NA	NA	



Date of Report: April 11, 2022
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**SULFATE
 ASTM D516-11
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0314W1					
Sulfate	ND	5.0	ASTM D516-11	3-14-22	3-14-22	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	03-080-04							
	ORIG	DUP						
Sulfate	8.40	8.46	NA	NA	NA	1	10	

MATRIX SPIKE								
Laboratory ID:	03-080-04							
	MS	MS		MS				
Sulfate	18.2	10.0	8.40	98	69-139	NA	NA	

SPIKE BLANK								
Laboratory ID:	SB0314W1							
	SB	SB		SB				
Sulfate	8.91	10.0	NA	89	89-117	NA	NA	



Date of Report: April 11, 2022
 Samples Submitted: March 11, 2022
 Laboratory Reference: 2203-149
 Project: 6694-002-05 T700

**AMMONIA (as Nitrogen)
 SM 4500-NH₃ D
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0316W1					
Ammonia	ND	0.050	SM 4500-NH3 D	3-16-22	3-16-22	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	03-149-01							
	ORIG	DUP						
Ammonia	0.0959	0.102	NA	NA	NA	6	19	

MATRIX SPIKE								
Laboratory ID:	03-149-01							
	MS	MS		MS				
Ammonia	4.69	5.00	0.0959	92	80-113	NA	NA	

SPIKE BLANK								
Laboratory ID:	SB0316W1							
	SB	SB		SB				
Ammonia	4.73	5.00	NA	95	88-110	NA	NA	





Data Qualifiers and Abbreviations

- A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.
 - B - The analyte indicated was also found in the blank sample.
 - C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.
 - E - The value reported exceeds the quantitation range and is an estimate.
 - F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.
 - H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.
 - I - Compound recovery is outside of the control limits.
 - J - The value reported was below the practical quantitation limit. The value is an estimate.
 - K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.
 - L - The RPD is outside of the control limits.
 - M - Hydrocarbons in the gasoline range are impacting the diesel range result.
 - M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.
 - N - Hydrocarbons in the lube oil range are impacting the diesel range result.
 - N1 - Hydrocarbons in diesel range are impacting lube oil range results.
 - O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.
 - P - The RPD of the detected concentrations between the two columns is greater than 40.
 - Q - Surrogate recovery is outside of the control limits.
 - S - Surrogate recovery data is not available due to the necessary dilution of the sample.
 - T - The sample chromatogram is not similar to a typical _____.
 - U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
 - U1 - The practical quantitation limit is elevated due to interferences present in the sample.
 - V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.
 - W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.
 - X - Sample extract treated with a mercury cleanup procedure.
 - X1 - Sample extract treated with a sulfuric acid/silica gel cleanup procedure.
 - Y - The calibration verification for this analyte exceeded the 20% drift specified in methods 8260 & 8270, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.
 - Z -
- ND - Not Detected at PQL
 PQL - Practical Quantitation Limit
 RPD - Relative Percent Difference





Fremont
Analytical

3600 Fremont Ave. N.
Seattle, WA 98103
T: (206) 352-3790
F: (206) 352-7178
info@fremontanalytical.com

OnSite Environmental Inc

David Baumeister
14648 NE 95th Street
Redmond, WA 98052

RE: 03-149

Work Order Number: 2203364

March 29, 2022

Attention David Baumeister:

Fremont Analytical, Inc. received 1 sample(s) on 3/15/2022 for the analyses presented in the following report.

Herbicides by EPA Method 8151A (GC/MS)

This report consists of the following:

- Case Narrative
- Analytical Results
- Applicable Quality Control Summary Reports
- Chain of Custody

All analyses were performed consistent with the Quality Assurance program of Fremont Analytical, Inc. Please contact the laboratory if you should have any questions about the results.

Thank you for using Fremont Analytical.

Sincerely,

Brianna Barnes
Project Manager

*DoD-ELAP Accreditation #79636 by PJLA, ISO/IEC 17025:2017 and QSM 5.3 for Environmental Testing
ORELAP Certification: WA 100009 (NELAP Recognized) for Environmental Testing
Washington State Department of Ecology Accredited for Environmental Testing, Lab ID C910*

Original

www.fremontanalytical.com



CLIENT: OnSite Environmental Inc
Project: 03-149
Work Order: 2203364

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received
2203364-001	MW-6-31122	03/11/2022 11:15 AM	03/15/2022 1:46 PM

DRAFT

Note: If no "Time Collected" is supplied, a default of 12:00AM is assigned

CLIENT: OnSite Environmental Inc

Project: 03-149

I. SAMPLE RECEIPT:

Samples receipt information is recorded on the attached Sample Receipt Checklist.

II. GENERAL REPORTING COMMENTS:

Results are reported on a wet weight basis unless dry-weight correction is denoted in the units field on the analytical report ("mg/kg-dry" or "ug/kg-dry").

Matrix Spike (MS) and MS Duplicate (MSD) samples are tested from an analytical batch of "like" matrix to check for possible matrix effect. The MS and MSD will provide site specific matrix data only for those samples which are spiked by the laboratory. The sample chosen for spike purposes may or may not have been a sample submitted in this sample delivery group. The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The LCS and the MB are processed with the samples and the MS/MSD to ensure method criteria are achieved throughout the entire analytical process.

III. ANALYSES AND EXCEPTIONS:

Exceptions associated with this report will be footnoted in the analytical results page(s) or the quality control summary page(s) and/or noted below.

DRAFT

Qualifiers:

- * - Flagged value is not within established control limits
- B - Analyte detected in the associated Method Blank
- D - Dilution was required
- E - Value above quantitation range
- H - Holding times for preparation or analysis exceeded
- I - Analyte with an internal standard that does not meet established acceptance criteria
- J - Analyte detected below Reporting Limit
- N - Tentatively Identified Compound (TIC)
- Q - Analyte with an initial or continuing calibration that does not meet established acceptance criteria
- S - Spike recovery outside accepted recovery limits
- ND - Not detected at the Reporting Limit
- R - High relative percent difference observed

Acronyms:

- %Rec - Percent Recovery
- CCB - Continued Calibration Blank
- CCV - Continued Calibration Verification
- DF - Dilution Factor
- DUP - Sample Duplicate
- HEM - Hexane Extractable Material
- ICV - Initial Calibration Verification
- LCS/LCSD - Laboratory Control Sample / Laboratory Control Sample Duplicate
- MCL - Maximum Contaminant Level
- MB or MBLANK - Method Blank
- MDL - Method Detection Limit
- MS/MSD - Matrix Spike / Matrix Spike Duplicate
- PDS - Post Digestion Spike
- Ref Val - Reference Value
- REP - Sample Replicate
- RL - Reporting Limit
- RPD - Relative Percent Difference
- SD - Serial Dilution
- SGT - Silica Gel Treatment
- SPK - Spike
- Surr - Surrogate



Client: OnSite Environmental Inc

Collection Date: 3/11/2022 11:15:00 AM

Project: 03-149

Lab ID: 2203364-001

Matrix: Water

Client Sample ID: MW-6-31122

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
----------	--------	----	------	-------	----	---------------

Herbicides by EPA Method 8151A (GC/MS)

Batch ID: 35777

Analyst: SB

Dicamba	ND	0.989		µg/L	1	3/28/2022 11:53:48 PM
2,4-D	ND	0.989		µg/L	1	3/28/2022 11:53:48 PM
2,4-DP	ND	0.989		µg/L	1	3/28/2022 11:53:48 PM
2,4,5-TP (Silvex)	ND	0.989		µg/L	1	3/28/2022 11:53:48 PM
2,4,5-T	ND	0.989		µg/L	1	3/28/2022 11:53:48 PM
Dinoseb	ND	0.989		µg/L	1	3/28/2022 11:53:48 PM
Dalapon	ND	1.98		µg/L	1	3/28/2022 11:53:48 PM
2,4-DB	ND	0.989		µg/L	1	3/28/2022 11:53:48 PM
MCP	ND	4.95		µg/L	1	3/28/2022 11:53:48 PM
MCPA	ND	4.95		µg/L	1	3/28/2022 11:53:48 PM
Picloram	ND	0.989		µg/L	1	3/28/2022 11:53:48 PM
Bentazon	ND	0.989		µg/L	1	3/28/2022 11:53:48 PM
Chloramben	ND	0.989		µg/L	1	3/28/2022 11:53:48 PM
Acifluorfen	ND	4.95		µg/L	1	3/28/2022 11:53:48 PM
3,5-Dichlorobenzoic acid	ND	0.989		µg/L	1	3/28/2022 11:53:48 PM
4-Nitrophenol	ND	0.989		µg/L	1	3/28/2022 11:53:48 PM
Dacthal (DCPA)	ND	1.98		µg/L	1	3/28/2022 11:53:48 PM
Surr: 2,4-Dichlorophenylacetic acid	111	65.7 - 136		%Rec	1	3/28/2022 11:53:48 PM

Work Order: 2203364
 CLIENT: OnSite Environmental Inc
 Project: 03-149

QC SUMMARY REPORT
Herbicides by EPA Method 8151A (GC/MS)

Sample ID: MB-35777	SampType: MBLK	Units: µg/L	Prep Date: 3/18/2022	RunNo: 74378							
Client ID: MBLKW	Batch ID: 35777		Analysis Date: 3/28/2022	SeqNo: 1525417							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Dicamba	ND	0.980									
2,4-D	ND	0.980									
2,4-DP	ND	0.980									
2,4,5-TP (Silvex)	ND	0.980									
2,4,5-T	ND	0.980									
Dinoseb	ND	0.980									
Dalapon	ND	1.96									
2,4-DB	ND	0.980									
MCPD	ND	4.90									
MCPA	ND	4.90									
Picloram	ND	0.980									
Bentazon	ND	0.980									
Chloramben	ND	0.980									
Acifluorfen	ND	4.90									
3,5-Dichlorobenzoic acid	ND	0.980									
4-Nitrophenol	ND	0.980									
Dacthal (DCPA)	ND	1.96									
Surr: 2,4-Dichlorophenylacetic acid	23.8		19.60		121	65.7	136				

Sample ID: LCS-35777	SampType: LCS	Units: µg/L	Prep Date: 3/18/2022	RunNo: 74378							
Client ID: LCSW	Batch ID: 35777		Analysis Date: 3/28/2022	SeqNo: 1525418							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Dicamba	4.17	0.988	3.954	0	105	16.6	148				
2,4-D	4.18	0.988	3.954	0	106	50.4	150				
2,4-DP	3.82	0.988	3.954	0	96.7	53	135				
2,4,5-TP (Silvex)	4.07	0.988	3.954	0	103	53.6	140				
2,4,5-T	3.93	0.988	3.954	0	99.3	50	141				
Dinoseb	3.17	0.988	3.954	0	80.3	5	119				
Dalapon	16.1	1.98	19.77	0	81.5	5.65	97.2				



Date: 3/29/2022

Work Order: 2203364
 CLIENT: OnSite Environmental Inc
 Project: 03-149

QC SUMMARY REPORT
Herbicides by EPA Method 8151A (GC/MS)

Sample ID: LCS-35777	SampType: LCS	Units: µg/L				Prep Date: 3/18/2022	RunNo: 74378				
Client ID: LCSW	Batch ID: 35777					Analysis Date: 3/28/2022	SeqNo: 1525418				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
2,4-DB	3.75	0.988	3.954	0	94.8	54.9	141				
MCPP	20.9	4.94	19.77	0	106	28.7	166				
MCPA	21.0	4.94	19.77	0	106	20.7	176				
Picloram	2.51	0.988	3.954	0	63.5	9.72	120				
Bentazon	3.68	0.988	3.954	0	93.1	41.2	141				
Chloramben	2.32	0.988	3.954	0	58.8	5	109				
Acifluorfen	2.79	4.94	3.954	0	70.6	7.62	139				
3,5-Dichlorobenzoic acid	3.97	0.988	3.954	0	100	52.4	120				
4-Nitrophenol	2.00	0.988	3.954	0	50.6	5	107				
Dacthal (DCPA)	1.71	1.98	3.954	0	43.3	5	65.4				
Surr: 2,4-Dichlorophenylacetic acid	22.5		19.77		114	65.7	136				

Sample ID: 2203364-001ADUP	SampType: DUP	Units: µg/L				Prep Date: 3/18/2022	RunNo: 74378				
Client ID: MW-6-31122	Batch ID: 35777					Analysis Date: 3/29/2022	SeqNo: 1525420				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dicamba	ND	1.07						0		50	
2,4-D	ND	1.07						0		50	
2,4-DP	ND	1.07						0		50	
2,4,5-TP (Silvex)	ND	1.07						0		50	
2,4,5-T	ND	1.07						0		50	
Dinoseb	ND	1.07						0		50	
Dalapon	ND	2.14						0		50	
2,4-DB	ND	1.07						0		50	
MCPP	ND	5.34						0		50	
MCPA	ND	5.34						0		50	
Picloram	ND	1.07						0		50	
Bentazon	ND	1.07						0		50	
Chloramben	ND	1.07						0		50	
Acifluorfen	ND	5.34						0		50	

Work Order: 2203364
 CLIENT: OnSite Environmental Inc
 Project: 03-149

QC SUMMARY REPORT
Herbicides by EPA Method 8151A (GC/MS)

Sample ID: 2203364-001ADUP	SampType: DUP	Units: µg/L	Prep Date: 3/18/2022	RunNo: 74378							
Client ID: MW-6-31122	Batch ID: 35777		Analysis Date: 3/29/2022	SeqNo: 1525420							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

3,5-Dichlorobenzoic acid	ND	1.07						0		50	
4-Nitrophenol	ND	1.07						0		50	
Dacthal (DCPA)	ND	2.14						0		50	
Surr: 2,4-Dichlorophenylacetic acid	26.3		21.37		123	65.7	136		0		

Sample ID: 2203422-001AMS	SampType: MS	Units: µg/L	Prep Date: 3/18/2022	RunNo: 74378							
Client ID: BATCH	Batch ID: 35777		Analysis Date: 3/29/2022	SeqNo: 1525422							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Dicamba	3.88	0.985	3.941	0	98.5	31	142				
2,4-D	3.84	0.985	3.941	0	97.4	50.3	149				
2,4-DP	3.51	0.985	3.941	0	88.9	49.9	143				
2,4,5-TP (Silvex)	3.78	0.985	3.941	0	95.8	47.7	141				
2,4,5-T	3.62	0.985	3.941	0	91.9	34.4	139				
Dinoseb	2.84	0.985	3.941	0	72.2	27.3	117				
Dalapon	14.4	1.97	19.70	0	72.9	14.2	113				
2,4-DB	3.34	0.985	3.941	0	84.8	31.3	147				
MCPP	19.1	4.93	19.70	0	96.8	30.5	177				
MCPA	19.0	4.93	19.70	0	96.5	36.8	163				
Picloram	2.24	0.985	3.941	0	56.7	18.8	115				
Bentazon	3.38	0.985	3.941	0	85.8	11.9	176				
Chloramben	2.45	0.985	3.941	0	62.3	5	112				
Acifluorfen	2.46	4.93	3.941	0	62.4	28.1	146				
3,5-Dichlorobenzoic acid	3.69	0.985	3.941	0	93.7	36.2	146				
4-Nitrophenol	2.20	0.985	3.941	0	55.9	5	116				
Dacthal (DCPA)	1.44	1.97	3.941	0	36.7	5	84.6				
Surr: 2,4-Dichlorophenylacetic acid	20.4		19.70		103	65.7	136				

Client Name: **ONSITE**

 Work Order Number: **2203364**

 Logged by: **Gabrielle Coeuille**

 Date Received: **3/15/2022 1:46:00 PM**

Chain of Custody

1. Is Chain of Custody complete? Yes No Not Present
2. How was the sample delivered? Client

Log In

3. Coolers are present? Yes No NA
4. Shipping container/cooler in good condition? Yes No
5. Custody Seals present on shipping container/cooler?
(Refer to comments for Custody Seals not intact) Yes No Not Present
6. Was an attempt made to cool the samples? Yes No NA
7. Were all items received at a temperature of >2°C to 6°C * Yes No NA
8. Sample(s) in proper container(s)? Yes No
9. Sufficient sample volume for indicated test(s)? Yes No
10. Are samples properly preserved? Yes No
11. Was preservative added to bottles? Yes No NA
12. Is there headspace in the VOA vials? Yes No NA
13. Did all samples containers arrive in good condition(unbroken)? Yes No
14. Does paperwork match bottle labels? Yes No
15. Are matrices correctly identified on Chain of Custody? Yes No
16. Is it clear what analyses were requested? Yes No
17. Were all holding times able to be met? Yes No

Special Handling (if applicable)

18. Was client notified of all discrepancies with this order? Yes No NA

Person Notified:	<input type="text"/>	Date:	<input type="text"/>
By Whom:	<input type="text"/>	Via:	<input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:	<input type="text"/>		
Client Instructions:	<input type="text"/>		

19. Additional remarks:

Item Information

Item #	Temp °C
Sample 1	6.0

* Note: DoD/ELAP and TNI require items to be received at 4°C +/- 2°C

Original



14648 NE 95th Street, Redmond, WA 98052 · (425) 883-3881

Laboratory: Fremont Analytical

Attention: Chelsea Ward

3600 Fremont Avenue N, Seattle, WA 98103

Phone Number: (206) 352-3790

Turnaround Request

1 Day 2 Day 3 Day

Standard

Other: _____

Laboratory Reference #: 03-149

Project Manager: David Baumeister

email: dbaumeister@onsite-env.com

Project Number: _____

Project Name: _____

Page 1 of 1
220336A

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	# of Cont.	Requested Analyses
	MW-6-31122	3/11/22	11:15	W	1	Chlorinated Acid Herbicides 8151A

Signature	Company	Date	Time	Comments/Special Instructions
Relinquished by: <i>[Signature]</i>	<i>ODE</i>	<i>3/15/22</i>	<i>12:35</i>	EDDs
Received by: <i>Van</i>	<i>spdy</i>	<i>3/15/22</i>	<i>12:30</i>	
Relinquished by: <i>Van</i>	<i>spdy</i>	<i>3/15/22</i>	<i>13:40</i>	
Received by: <i>Justin Pogre</i>	<i>FAI</i>	<i>3/15/22</i>	<i>13:44</i>	
Relinquished by:				
Received by:				

Chain of Custody

Company: LEI Project Number: 0694-002-05 Project Name: 110 - BEARS EAST Project Manager: Garrett Lopez Sampled by: WDS		Turnaround Request (in working days) (Check One) <input type="checkbox"/> Same Day <input type="checkbox"/> 1 Day <input type="checkbox"/> 2 Days <input type="checkbox"/> 3 Days <input checked="" type="checkbox"/> Standard (7 Days) <input type="checkbox"/> _____ (other)		Number of Containers	Laboratory Number: 03-149																					
						NWTPH-HCID	NWTPH-Gx/BTEX	NWTPH-Gx	NWTPH-Dx (Acid / SG Clean-up)	Volatiles 8260D	Halogenated Volatiles 8260D	EDB EPA 8011 (Waters Only)	Semivolatiles 8270E/SIM (with low-level PAHs)	PAHs 8270E/SIM (low-level)	PCBs 8082A	Organochlorine Pesticides 8081B	Organophosphorus Pesticides 8270E/SIM	Chlorinated Acid Herbicides 8151A	Total Metals	Total Trace Metals Dissolved	Total Metals Dissolved (Cu, K, Na)	HEM (oil and grease) 1664A	NH3, TDS	Acidity, bicarbonate, carbonate	Cl, NO3, SO4	% Moisture
Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix																						
1	MW-6-31122	3/11/22	1115	Water	2			X	X			X		X	X		X	X	X	X	X	X	X	X	X	X
				3/11/22	2311																					
Signature		Company		Date	Time	Comments/Special Instructions																				
Relinquished		LEI		3/11/2022	1511	T/D metals: As, Cd, Cr, Cu, Fe, Pb, Mn, Hg, Ni, Se, Mg, Zn																				
Received		OJE		3/11/22	1500																					
Relinquished																										
Received																										
Relinquished																										
Received																										
Reviewed/Date		Reviewed/Date		Data Package: Standard <input type="checkbox"/> Level III <input type="checkbox"/> Level IV <input type="checkbox"/> Chromatograms with final report <input type="checkbox"/> Electronic Data Deliverables (EDDs) <input type="checkbox"/>																						



14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

March 31, 2022

Garrett Leque
GeoEngineers, Inc.
554 West Bakerview Road
Bellingham, WA 98226

Re: Analytical Data for Project 6694-002-05 T700
Laboratory Reference No. 2203-173

Dear Garrett:

Enclosed are the analytical results and associated quality control data for samples submitted on March 15, 2022.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

A handwritten signature in black ink, appearing to read "DB", with a horizontal line extending to the right.

David Baumeister
Project Manager

Enclosures



OnSite Environmental, Inc. 14648 NE 95th Street, Redmond, WA 98052 (425) 883-3881

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: March 31, 2022
Samples Submitted: March 15, 2022
Laboratory Reference: 2203-173
Project: 6694-002-05 T700

Case Narrative

Samples were collected on March 14, 2022 and received by the laboratory on March 15, 2022. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.



Date of Report: March 31, 2022
Samples Submitted: March 15, 2022
Laboratory Reference: 2203-173
Project: 6694-002-05 T700

ANALYTICAL REPORT FOR SAMPLES

Client ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
MW7-20220314	03-173-01	Water	3-14-22	3-15-22	

DRAFT



Date of Report: March 31, 2022
 Samples Submitted: March 15, 2022
 Laboratory Reference: 2203-173
 Project: 6694-002-05 T700

GASOLINE RANGE ORGANICS
NWTPH-Gx

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW7-20220314					
Laboratory ID:	03-173-01					
Gasoline	ND	100	NWTPH-Gx	3-17-22	3-17-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	89	66-117				



Date of Report: March 31, 2022
 Samples Submitted: March 15, 2022
 Laboratory Reference: 2203-173
 Project: 6694-002-05 T700

DIESEL AND HEAVY OIL RANGE ORGANICS
NWTPH-Dx

Matrix: Water
 Units: mg/L (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW7-20220314					
Laboratory ID:	03-173-01					
Diesel Range Organics	ND	0.20	NWTPH-Dx	3-21-22	3-21-22	
Lube Oil Range Organics	ND	0.20	NWTPH-Dx	3-21-22	3-21-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	<i>81</i>	<i>50-150</i>				



Date of Report: March 31, 2022
 Samples Submitted: March 15, 2022
 Laboratory Reference: 2203-173
 Project: 6694-002-05 T700

VOLATILE ORGANICS EPA 8260D
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW7-20220314					
Laboratory ID:	03-173-01					
Dichlorodifluoromethane	ND	0.31	EPA 8260D	3-17-22	3-17-22	
Chloromethane	ND	1.3	EPA 8260D	3-17-22	3-17-22	
Vinyl Chloride	ND	0.20	EPA 8260D	3-17-22	3-17-22	
Bromomethane	ND	0.20	EPA 8260D	3-17-22	3-17-22	
Chloroethane	ND	1.0	EPA 8260D	3-17-22	3-17-22	
Trichlorofluoromethane	ND	0.20	EPA 8260D	3-17-22	3-17-22	
1,1-Dichloroethene	ND	0.20	EPA 8260D	3-17-22	3-17-22	
Acetone	ND	5.0	EPA 8260D	3-17-22	3-17-22	
Iodomethane	ND	1.0	EPA 8260D	3-17-22	3-17-22	
Carbon Disulfide	ND	0.20	EPA 8260D	3-17-22	3-17-22	
Methylene Chloride	ND	1.0	EPA 8260D	3-17-22	3-17-22	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	3-17-22	3-17-22	
Methyl t-Butyl Ether	ND	0.20	EPA 8260D	3-17-22	3-17-22	
1,1-Dichloroethane	ND	0.20	EPA 8260D	3-17-22	3-17-22	
Vinyl Acetate	ND	1.0	EPA 8260D	3-17-22	3-17-22	
2,2-Dichloropropane	ND	0.20	EPA 8260D	3-17-22	3-17-22	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	3-17-22	3-17-22	
2-Butanone	ND	5.0	EPA 8260D	3-17-22	3-17-22	
Bromochloromethane	ND	0.20	EPA 8260D	3-17-22	3-17-22	
Chloroform	ND	0.20	EPA 8260D	3-17-22	3-17-22	
1,1,1-Trichloroethane	ND	0.20	EPA 8260D	3-17-22	3-17-22	
Carbon Tetrachloride	ND	0.20	EPA 8260D	3-17-22	3-17-22	
1,1-Dichloropropene	ND	0.20	EPA 8260D	3-17-22	3-17-22	
Benzene	ND	0.20	EPA 8260D	3-17-22	3-17-22	
1,2-Dichloroethane	ND	0.20	EPA 8260D	3-17-22	3-17-22	
Trichloroethene	ND	0.20	EPA 8260D	3-17-22	3-17-22	
1,2-Dichloropropane	ND	0.20	EPA 8260D	3-17-22	3-17-22	
Dibromomethane	ND	0.20	EPA 8260D	3-17-22	3-17-22	
Bromodichloromethane	ND	0.20	EPA 8260D	3-17-22	3-17-22	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260D	3-17-22	3-17-22	
Methyl Isobutyl Ketone	ND	2.0	EPA 8260D	3-17-22	3-17-22	
Toluene	ND	1.0	EPA 8260D	3-17-22	3-17-22	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260D	3-17-22	3-17-22	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW7-20220314					
Laboratory ID:	03-173-01					
1,1,2-Trichloroethane	ND	0.20	EPA 8260D	3-17-22	3-17-22	
Tetrachloroethene	ND	0.20	EPA 8260D	3-17-22	3-17-22	
1,3-Dichloropropane	ND	0.20	EPA 8260D	3-17-22	3-17-22	
2-Hexanone	ND	2.0	EPA 8260D	3-17-22	3-17-22	
Dibromochloromethane	ND	0.20	EPA 8260D	3-17-22	3-17-22	
1,2-Dibromoethane	ND	0.20	EPA 8260D	3-17-22	3-17-22	
Chlorobenzene	ND	0.20	EPA 8260D	3-17-22	3-17-22	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260D	3-17-22	3-17-22	
Ethylbenzene	ND	0.20	EPA 8260D	3-17-22	3-17-22	
m,p-Xylene	ND	0.40	EPA 8260D	3-17-22	3-17-22	
o-Xylene	ND	0.20	EPA 8260D	3-17-22	3-17-22	
Styrene	ND	0.20	EPA 8260D	3-17-22	3-17-22	
Bromoform	ND	1.0	EPA 8260D	3-17-22	3-17-22	
Isopropylbenzene	ND	0.20	EPA 8260D	3-17-22	3-17-22	
Bromobenzene	ND	0.20	EPA 8260D	3-17-22	3-17-22	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260D	3-17-22	3-17-22	
1,2,3-Trichloropropane	ND	0.20	EPA 8260D	3-17-22	3-17-22	
n-Propylbenzene	ND	0.20	EPA 8260D	3-17-22	3-17-22	
2-Chlorotoluene	ND	0.20	EPA 8260D	3-17-22	3-17-22	
4-Chlorotoluene	ND	0.20	EPA 8260D	3-17-22	3-17-22	
1,3,5-Trimethylbenzene	ND	0.20	EPA 8260D	3-17-22	3-17-22	
tert-Butylbenzene	ND	0.20	EPA 8260D	3-17-22	3-17-22	
1,2,4-Trimethylbenzene	ND	0.20	EPA 8260D	3-17-22	3-17-22	
sec-Butylbenzene	ND	0.20	EPA 8260D	3-17-22	3-17-22	
1,3-Dichlorobenzene	ND	0.20	EPA 8260D	3-17-22	3-17-22	
p-Isopropyltoluene	ND	0.20	EPA 8260D	3-17-22	3-17-22	
1,4-Dichlorobenzene	ND	0.20	EPA 8260D	3-17-22	3-17-22	
1,2-Dichlorobenzene	ND	0.20	EPA 8260D	3-17-22	3-17-22	
n-Butylbenzene	ND	0.20	EPA 8260D	3-17-22	3-17-22	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260D	3-17-22	3-17-22	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260D	3-17-22	3-17-22	
Hexachlorobutadiene	ND	1.0	EPA 8260D	3-17-22	3-17-22	
Naphthalene	ND	1.0	EPA 8260D	3-17-22	3-17-22	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260D	3-17-22	3-17-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>93</i>	<i>75-127</i>				
<i>Toluene-d8</i>	<i>98</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>97</i>	<i>78-125</i>				



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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW7-20220314					
Laboratory ID:	03-173-01					
n-Nitrosodimethylamine	ND	0.95	EPA 8270E	3-18-22	3-18-22	
Pyridine	ND	0.95	EPA 8270E	3-18-22	3-18-22	
Phenol	ND	0.95	EPA 8270E	3-18-22	3-18-22	
Aniline	ND	4.8	EPA 8270E	3-18-22	3-18-22	
bis(2-Chloroethyl)ether	ND	0.95	EPA 8270E	3-18-22	3-18-22	
2-Chlorophenol	ND	0.95	EPA 8270E	3-18-22	3-18-22	
1,3-Dichlorobenzene	ND	0.95	EPA 8270E	3-18-22	3-18-22	
1,4-Dichlorobenzene	ND	0.95	EPA 8270E	3-18-22	3-18-22	
Benzyl alcohol	ND	0.95	EPA 8270E	3-18-22	3-18-22	
1,2-Dichlorobenzene	ND	0.95	EPA 8270E	3-18-22	3-18-22	
2-Methylphenol (o-Cresol)	ND	0.95	EPA 8270E	3-18-22	3-18-22	
bis(2-Chloroisopropyl)ether	ND	0.95	EPA 8270E	3-18-22	3-18-22	
(3+4)-Methylphenol (m,p-Cresol)	ND	0.95	EPA 8270E	3-18-22	3-18-22	
n-Nitroso-di-n-propylamine	ND	0.95	EPA 8270E	3-18-22	3-18-22	
Hexachloroethane	ND	0.95	EPA 8270E	3-18-22	3-18-22	
Nitrobenzene	ND	0.95	EPA 8270E	3-18-22	3-18-22	
Isophorone	ND	0.95	EPA 8270E	3-18-22	3-18-22	
2-Nitrophenol	ND	0.95	EPA 8270E	3-18-22	3-18-22	
2,4-Dimethylphenol	ND	0.95	EPA 8270E	3-18-22	3-18-22	
bis(2-Chloroethoxy)methane	ND	0.95	EPA 8270E	3-18-22	3-18-22	
2,4-Dichlorophenol	ND	0.95	EPA 8270E	3-18-22	3-18-22	
1,2,4-Trichlorobenzene	ND	0.95	EPA 8270E	3-18-22	3-18-22	
Naphthalene	ND	0.095	EPA 8270E/SIM	3-18-22	3-18-22	
4-Chloroaniline	ND	0.95	EPA 8270E	3-18-22	3-18-22	
Hexachlorobutadiene	ND	0.95	EPA 8270E	3-18-22	3-18-22	
4-Chloro-3-methylphenol	ND	0.95	EPA 8270E	3-18-22	3-18-22	
2-Methylnaphthalene	ND	0.095	EPA 8270E/SIM	3-18-22	3-18-22	
1-Methylnaphthalene	ND	0.095	EPA 8270E/SIM	3-18-22	3-18-22	
Hexachlorocyclopentadiene	ND	0.95	EPA 8270E	3-18-22	3-18-22	
2,4,6-Trichlorophenol	ND	0.95	EPA 8270E	3-18-22	3-18-22	
2,3-Dichloroaniline	ND	0.95	EPA 8270E	3-18-22	3-18-22	
2,4,5-Trichlorophenol	ND	0.95	EPA 8270E	3-18-22	3-18-22	
2-Chloronaphthalene	ND	0.95	EPA 8270E	3-18-22	3-18-22	
2-Nitroaniline	ND	0.95	EPA 8270E	3-18-22	3-18-22	
1,4-Dinitrobenzene	ND	0.95	EPA 8270E	3-18-22	3-18-22	
Dimethylphthalate	ND	4.8	EPA 8270E	3-18-22	3-18-22	
1,3-Dinitrobenzene	ND	0.95	EPA 8270E	3-18-22	3-18-22	
2,6-Dinitrotoluene	ND	0.95	EPA 8270E	3-18-22	3-18-22	
1,2-Dinitrobenzene	ND	0.95	EPA 8270E	3-18-22	3-18-22	
Acenaphthylene	ND	0.095	EPA 8270E/SIM	3-18-22	3-18-22	
3-Nitroaniline	ND	0.95	EPA 8270E	3-18-22	3-18-22	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW7-20220314					
Laboratory ID:	03-173-01					
2,4-Dinitrophenol	ND	6.6	EPA 8270E	3-18-22	3-18-22	
Acenaphthene	ND	0.095	EPA 8270E/SIM	3-18-22	3-18-22	
4-Nitrophenol	ND	4.8	EPA 8270E	3-18-22	3-18-22	
2,4-Dinitrotoluene	ND	0.95	EPA 8270E	3-18-22	3-18-22	
Dibenzofuran	ND	0.95	EPA 8270E	3-18-22	3-18-22	
2,3,5,6-Tetrachlorophenol	ND	0.95	EPA 8270E	3-18-22	3-18-22	
2,3,4,6-Tetrachlorophenol	ND	0.95	EPA 8270E	3-18-22	3-18-22	
Diethylphthalate	ND	0.95	EPA 8270E	3-18-22	3-18-22	
4-Chlorophenyl-phenylether	ND	0.95	EPA 8270E	3-18-22	3-18-22	
4-Nitroaniline	ND	0.95	EPA 8270E	3-18-22	3-18-22	
Fluorene	ND	0.095	EPA 8270E/SIM	3-18-22	3-18-22	
4,6-Dinitro-2-methylphenol	ND	4.8	EPA 8270E	3-18-22	3-18-22	
n-Nitrosodiphenylamine	ND	0.95	EPA 8270E	3-18-22	3-18-22	
1,2-Diphenylhydrazine	ND	0.95	EPA 8270E	3-18-22	3-18-22	
4-Bromophenyl-phenylether	ND	0.95	EPA 8270E	3-18-22	3-18-22	
Hexachlorobenzene	ND	0.95	EPA 8270E	3-18-22	3-18-22	
Pentachlorophenol	ND	6.0	EPA 8270E	3-18-22	3-18-22	
Phenanthrene	ND	0.095	EPA 8270E/SIM	3-18-22	3-18-22	
Anthracene	ND	0.095	EPA 8270E/SIM	3-18-22	3-18-22	
Carbazole	ND	0.95	EPA 8270E	3-18-22	3-18-22	
Di-n-butylphthalate	ND	4.8	EPA 8270E	3-18-22	3-18-22	
Fluoranthene	ND	0.095	EPA 8270E/SIM	3-18-22	3-18-22	
Pyrene	ND	0.095	EPA 8270E/SIM	3-18-22	3-18-22	
Butylbenzylphthalate	ND	0.95	EPA 8270E	3-18-22	3-18-22	
bis-2-Ethylhexyladipate	ND	4.8	EPA 8270E	3-18-22	3-18-22	
3,3'-Dichlorobenzidine	ND	0.95	EPA 8270E	3-18-22	3-18-22	
Benzo[a]anthracene	ND	0.0095	EPA 8270E/SIM	3-18-22	3-18-22	
Chrysene	ND	0.0095	EPA 8270E/SIM	3-18-22	3-18-22	
bis(2-Ethylhexyl)phthalate	ND	4.8	EPA 8270E	3-18-22	3-18-22	
Di-n-octylphthalate	ND	0.95	EPA 8270E	3-18-22	3-18-22	
Benzo[b]fluoranthene	ND	0.0095	EPA 8270E/SIM	3-18-22	3-18-22	
Benzo(j,k)fluoranthene	ND	0.0095	EPA 8270E/SIM	3-18-22	3-18-22	
Benzo[a]pyrene	ND	0.0095	EPA 8270E/SIM	3-18-22	3-18-22	
Indeno[1,2,3-cd]pyrene	ND	0.0095	EPA 8270E/SIM	3-18-22	3-18-22	
Dibenz[a,h]anthracene	ND	0.0095	EPA 8270E/SIM	3-18-22	3-18-22	
Benzo[g,h,i]perylene	ND	0.0095	EPA 8270E/SIM	3-18-22	3-18-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
2-Fluorophenol	40	10 - 82				
Phenol-d6	29	10 - 92				
Nitrobenzene-d5	64	32 - 105				
2-Fluorobiphenyl	60	38 - 105				
2,4,6-Tribromophenol	78	25 - 124				
Terphenyl-d14	63	42 - 116				



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PCBs EPA 8082A

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW7-20220314					
Laboratory ID:	03-173-01					
Aroclor 1016	ND	0.053	EPA 8082A	3-21-22	3-21-22	
Aroclor 1221	ND	0.053	EPA 8082A	3-21-22	3-21-22	
Aroclor 1232	ND	0.053	EPA 8082A	3-21-22	3-21-22	
Aroclor 1242	ND	0.053	EPA 8082A	3-21-22	3-21-22	
Aroclor 1248	ND	0.053	EPA 8082A	3-21-22	3-21-22	
Aroclor 1254	ND	0.053	EPA 8082A	3-21-22	3-21-22	
Aroclor 1260	ND	0.053	EPA 8082A	3-21-22	3-21-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>DCB</i>	97	42-140				



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**ORGANOCHLORINE
 PESTICIDES EPA 8081B**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW7-20220314					
Laboratory ID:	03-173-01					
alpha-BHC	ND	0.0053	EPA 8081B	3-21-22	3-21-22	
gamma-BHC (Lindane)	ND	0.0053	EPA 8081B	3-21-22	3-21-22	
beta-BHC	ND	0.0053	EPA 8081B	3-21-22	3-21-22	
delta-BHC	ND	0.0053	EPA 8081B	3-21-22	3-21-22	
Heptachlor	ND	0.0053	EPA 8081B	3-21-22	3-21-22	
Aldrin	ND	0.0021	EPA 8081B	3-21-22	3-21-22	
Heptachlor Epoxide	ND	0.0032	EPA 8081B	3-21-22	3-21-22	
gamma-Chlordane	ND	0.0053	EPA 8081B	3-21-22	3-21-22	
alpha-Chlordane	ND	0.0053	EPA 8081B	3-21-22	3-21-22	
4,4'-DDE	ND	0.0053	EPA 8081B	3-21-22	3-21-22	
Endosulfan I	ND	0.0053	EPA 8081B	3-21-22	3-21-22	
Dieldrin	ND	0.0053	EPA 8081B	3-21-22	3-21-22	
Endrin	ND	0.0053	EPA 8081B	3-21-22	3-21-22	
4,4'-DDD	ND	0.0053	EPA 8081B	3-21-22	3-21-22	
Endosulfan II	ND	0.0053	EPA 8081B	3-21-22	3-21-22	
4,4'-DDT	ND	0.0053	EPA 8081B	3-21-22	3-21-22	
Endrin Aldehyde	ND	0.0053	EPA 8081B	3-21-22	3-21-22	
Methoxychlor	ND	0.011	EPA 8081B	3-21-22	3-21-22	
Endosulfan Sulfate	ND	0.0053	EPA 8081B	3-21-22	3-21-22	
Endrin Ketone	ND	0.021	EPA 8081B	3-21-22	3-21-22	
Toxaphene	ND	0.053	EPA 8081B	3-21-22	3-21-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
TCMX	59	25-114				
DCB	95	30-137				



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TOTAL METALS
EPA 200.8/200.7/7470A

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW7-20220314					
Laboratory ID:	03-173-01					
Arsenic	10	3.3	EPA 200.8	3-23-22	3-23-22	
Cadmium	ND	4.4	EPA 200.8	3-23-22	3-23-22	
Chromium	ND	11	EPA 200.8	3-23-22	3-23-22	
Copper	ND	11	EPA 200.8	3-23-22	3-23-22	
Iron	2100	50	EPA 200.7	3-23-22	3-23-22	
Lead	1.2	1.1	EPA 200.8	3-23-22	3-23-22	
Magnesium	13000	1000	EPA 200.7	3-23-22	3-23-22	
Manganese	180	10	EPA 200.7	3-23-22	3-23-22	
Mercury	ND	0.025	EPA 7470A	3-23-22	3-23-22	
Nickel	ND	22	EPA 200.8	3-23-22	3-23-22	
Selenium	ND	5.6	EPA 200.8	3-23-22	3-23-22	
Zinc	ND	28	EPA 200.8	3-23-22	3-23-22	



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DISSOLVED METALS
EPA 200.8/200.7/7470A

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW7-20220314					
Laboratory ID:	03-173-01					
Arsenic	8.8	3.0	EPA 200.8		3-23-22	
Cadmium	ND	4.0	EPA 200.8		3-23-22	
Calcium	18000	1100	EPA 200.7		3-24-22	
Chromium	ND	10	EPA 200.8		3-23-22	
Copper	ND	10	EPA 200.8		3-23-22	
Iron	ND	56	EPA 200.7		3-24-22	
Lead	ND	1.0	EPA 200.8		3-23-22	
Magnesium	12000	1100	EPA 200.7		3-24-22	
Manganese	62	11	EPA 200.7		3-24-22	
Mercury	ND	0.025	EPA 7470A		3-23-22	
Nickel	ND	20	EPA 200.8		3-23-22	
Potassium	2200	1100	EPA 200.7		3-24-22	
Selenium	ND	5.0	EPA 200.8		3-23-22	
Sodium	6000	1100	EPA 200.7		3-24-22	
Zinc	ND	25	EPA 200.8		3-23-22	



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**TOTAL ALKALINITY
SM 2320B**

Matrix: Water
Units: mg CaCO₃/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW7-20220314					
Laboratory ID:	03-173-01					
Total Alkalinity	94	2.0	SM 2320B	3-21-22	3-21-22	



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**BICARBONATE
SM 2320B**

Matrix: Water
Units: mg CaCO₃/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW7-20220314					
Laboratory ID:	03-173-01					
Bicarbonate Concentration	94	2.0	SM 2320B	3-21-22	3-21-22	



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**TOTAL DISSOLVED SOLIDS
SM 2540C**

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW7-20220314					
Laboratory ID:	03-173-01					
Total Dissolved Solids	140	13	SM 2540C	3-17-22	3-18-22	



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Laboratory Reference: 2203-173
Project: 6694-002-05 T700

CHLORIDE
SM 4500-Cl E

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW7-20220314					
Laboratory ID:	03-173-01					
Chloride	5.3	2.0	SM 4500-Cl E	3-17-22	3-17-22	



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NITRATE (as Nitrogen)
EPA 353.2

Matrix: Water
Units: mg/L-N

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW7-20220314					
Laboratory ID:	03-173-01					
Nitrate	0.12	0.050	EPA 353.2	3-22-22	3-22-22	



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SULFATE
ASTM D516-11

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW7-20220314					
Laboratory ID:	03-173-01					
Sulfate	5.9	5.0	ASTM D516-11	3-18-22	3-18-22	



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AMMONIA (as Nitrogen)
SM 4500-NH₃ D

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW7-20220314					
Laboratory ID:	03-173-01					
Ammonia	ND	0.050	SM 4500-NH3 D	3-22-22	3-22-22	



Date of Report: March 31, 2022
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**GASOLINE RANGE ORGANICS
 NWTPH-Gx
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0317W2					
Gasoline	ND	100	NWTPH-Gx	3-17-22	3-17-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	89	66-117				

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	03-173-01							
	ORIG	DUP						
Gasoline	ND	ND	NA	NA	NA	NA	30	
<i>Surrogate:</i>								
<i>Fluorobenzene</i>				89	89	66-117		



Date of Report: March 31, 2022
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 Project: 6694-002-05 T700

**DIESEL AND HEAVY OIL RANGE ORGANICS
 NWTPH-Dx
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0321W1					
Diesel Range Organics	ND	0.16	NWTPH-Dx	3-21-22	3-21-22	
Lube Oil Range Organics	ND	0.16	NWTPH-Dx	3-21-22	3-21-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	92	50-150				

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	SB0321W1							
	ORIG	DUP						
Diesel Fuel #2	0.435	0.428	NA	NA	NA	NA	2	NA
<i>Surrogate:</i>								
<i>o-Terphenyl</i>				101	88	50-150		



Date of Report: March 31, 2022
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**VOLATILE ORGANICS EPA 8260D
 QUALITY CONTROL**

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Matrix: Water

Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0317W1					
Dichlorodifluoromethane	ND	0.31	EPA 8260D	3-17-22	3-17-22	
Chloromethane	ND	1.3	EPA 8260D	3-17-22	3-17-22	
Vinyl Chloride	ND	0.20	EPA 8260D	3-17-22	3-17-22	
Bromomethane	ND	0.20	EPA 8260D	3-17-22	3-17-22	
Chloroethane	ND	1.0	EPA 8260D	3-17-22	3-17-22	
Trichlorofluoromethane	ND	0.20	EPA 8260D	3-17-22	3-17-22	
1,1-Dichloroethene	ND	0.20	EPA 8260D	3-17-22	3-17-22	
Acetone	ND	5.0	EPA 8260D	3-17-22	3-17-22	
Iodomethane	ND	1.0	EPA 8260D	3-17-22	3-17-22	
Carbon Disulfide	ND	0.20	EPA 8260D	3-17-22	3-17-22	
Methylene Chloride	ND	1.0	EPA 8260D	3-17-22	3-17-22	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	3-17-22	3-17-22	
Methyl t-Butyl Ether	ND	0.20	EPA 8260D	3-17-22	3-17-22	
1,1-Dichloroethane	ND	0.20	EPA 8260D	3-17-22	3-17-22	
Vinyl Acetate	ND	1.0	EPA 8260D	3-17-22	3-17-22	
2,2-Dichloropropane	ND	0.20	EPA 8260D	3-17-22	3-17-22	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	3-17-22	3-17-22	
2-Butanone	ND	5.0	EPA 8260D	3-17-22	3-17-22	
Bromochloromethane	ND	0.20	EPA 8260D	3-17-22	3-17-22	
Chloroform	ND	0.20	EPA 8260D	3-17-22	3-17-22	
1,1,1-Trichloroethane	ND	0.20	EPA 8260D	3-17-22	3-17-22	
Carbon Tetrachloride	ND	0.20	EPA 8260D	3-17-22	3-17-22	
1,1-Dichloropropene	ND	0.20	EPA 8260D	3-17-22	3-17-22	
Benzene	ND	0.20	EPA 8260D	3-17-22	3-17-22	
1,2-Dichloroethane	ND	0.20	EPA 8260D	3-17-22	3-17-22	
Trichloroethene	ND	0.20	EPA 8260D	3-17-22	3-17-22	
1,2-Dichloropropane	ND	0.20	EPA 8260D	3-17-22	3-17-22	
Dibromomethane	ND	0.20	EPA 8260D	3-17-22	3-17-22	
Bromodichloromethane	ND	0.20	EPA 8260D	3-17-22	3-17-22	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260D	3-17-22	3-17-22	
Methyl Isobutyl Ketone	ND	2.0	EPA 8260D	3-17-22	3-17-22	
Toluene	ND	1.0	EPA 8260D	3-17-22	3-17-22	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260D	3-17-22	3-17-22	



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**VOLATILE ORGANICS EPA 8260D
 QUALITY CONTROL**

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0317W1					
1,1,2-Trichloroethane	ND	0.20	EPA 8260D	3-17-22	3-17-22	
Tetrachloroethene	ND	0.20	EPA 8260D	3-17-22	3-17-22	
1,3-Dichloropropane	ND	0.20	EPA 8260D	3-17-22	3-17-22	
2-Hexanone	ND	2.0	EPA 8260D	3-17-22	3-17-22	
Dibromochloromethane	ND	0.20	EPA 8260D	3-17-22	3-17-22	
1,2-Dibromoethane	ND	0.20	EPA 8260D	3-17-22	3-17-22	
Chlorobenzene	ND	0.20	EPA 8260D	3-17-22	3-17-22	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260D	3-17-22	3-17-22	
Ethylbenzene	ND	0.20	EPA 8260D	3-17-22	3-17-22	
m,p-Xylene	ND	0.40	EPA 8260D	3-17-22	3-17-22	
o-Xylene	ND	0.20	EPA 8260D	3-17-22	3-17-22	
Styrene	ND	0.20	EPA 8260D	3-17-22	3-17-22	
Bromoform	ND	1.0	EPA 8260D	3-17-22	3-17-22	
Isopropylbenzene	ND	0.20	EPA 8260D	3-17-22	3-17-22	
Bromobenzene	ND	0.20	EPA 8260D	3-17-22	3-17-22	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260D	3-17-22	3-17-22	
1,2,3-Trichloropropane	ND	0.20	EPA 8260D	3-17-22	3-17-22	
n-Propylbenzene	ND	0.20	EPA 8260D	3-17-22	3-17-22	
2-Chlorotoluene	ND	0.20	EPA 8260D	3-17-22	3-17-22	
4-Chlorotoluene	ND	0.20	EPA 8260D	3-17-22	3-17-22	
1,3,5-Trimethylbenzene	ND	0.20	EPA 8260D	3-17-22	3-17-22	
tert-Butylbenzene	ND	0.20	EPA 8260D	3-17-22	3-17-22	
1,2,4-Trimethylbenzene	ND	0.20	EPA 8260D	3-17-22	3-17-22	
sec-Butylbenzene	ND	0.20	EPA 8260D	3-17-22	3-17-22	
1,3-Dichlorobenzene	ND	0.20	EPA 8260D	3-17-22	3-17-22	
p-Isopropyltoluene	ND	0.20	EPA 8260D	3-17-22	3-17-22	
1,4-Dichlorobenzene	ND	0.20	EPA 8260D	3-17-22	3-17-22	
1,2-Dichlorobenzene	ND	0.20	EPA 8260D	3-17-22	3-17-22	
n-Butylbenzene	ND	0.20	EPA 8260D	3-17-22	3-17-22	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260D	3-17-22	3-17-22	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260D	3-17-22	3-17-22	
Hexachlorobutadiene	ND	1.0	EPA 8260D	3-17-22	3-17-22	
Naphthalene	ND	1.0	EPA 8260D	3-17-22	3-17-22	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260D	3-17-22	3-17-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>93</i>	<i>75-127</i>				
<i>Toluene-d8</i>	<i>100</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>98</i>	<i>78-125</i>				



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**VOLATILE ORGANICS EPA 8260D
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD	RPD	Flags
					SB	SBD	Limits	RPD	Limit	
SPIKE BLANKS										
Laboratory ID:	SB0317W1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	10.3	10.2	10.0	10.0	103	102	78-125	1	19	
Benzene	10.4	10.5	10.0	10.0	104	105	80-119	1	16	
Trichloroethene	11.1	11.2	10.0	10.0	111	112	80-121	1	18	
Toluene	10.5	10.7	10.0	10.0	105	107	80-117	2	18	
Chlorobenzene	11.3	11.5	10.0	10.0	113	115	80-117	2	17	
<i>Surrogate:</i>										
Dibromofluoromethane					93	92	75-127			
Toluene-d8					99	101	80-127			
4-Bromofluorobenzene					99	101	78-125			



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**SEMIVOLATILE ORGANICS EPA 8270E/SIM
 QUALITY CONTROL**

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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0318W1					
n-Nitrosodimethylamine	ND	1.0	EPA 8270E	3-18-22	3-18-22	
Pyridine	ND	1.0	EPA 8270E	3-18-22	3-18-22	
Phenol	ND	1.0	EPA 8270E	3-18-22	3-18-22	
Aniline	ND	5.0	EPA 8270E	3-18-22	3-18-22	
bis(2-Chloroethyl)ether	ND	1.0	EPA 8270E	3-18-22	3-18-22	
2-Chlorophenol	ND	1.0	EPA 8270E	3-18-22	3-18-22	
1,3-Dichlorobenzene	ND	1.0	EPA 8270E	3-18-22	3-18-22	
1,4-Dichlorobenzene	ND	1.0	EPA 8270E	3-18-22	3-18-22	
Benzyl alcohol	ND	1.0	EPA 8270E	3-18-22	3-18-22	
1,2-Dichlorobenzene	ND	1.0	EPA 8270E	3-18-22	3-18-22	
2-Methylphenol (o-Cresol)	ND	1.0	EPA 8270E	3-18-22	3-18-22	
bis(2-Chloroisopropyl)ether	ND	1.0	EPA 8270E	3-18-22	3-18-22	
(3+4)-Methylphenol (m,p-Cresol)	ND	1.0	EPA 8270E	3-18-22	3-18-22	
n-Nitroso-di-n-propylamine	ND	1.0	EPA 8270E	3-18-22	3-18-22	
Hexachloroethane	ND	1.0	EPA 8270E	3-18-22	3-18-22	
Nitrobenzene	ND	1.0	EPA 8270E	3-18-22	3-18-22	
Isophorone	ND	1.0	EPA 8270E	3-18-22	3-18-22	
2-Nitrophenol	ND	1.0	EPA 8270E	3-18-22	3-18-22	
2,4-Dimethylphenol	ND	1.0	EPA 8270E	3-18-22	3-18-22	
bis(2-Chloroethoxy)methane	ND	1.0	EPA 8270E	3-18-22	3-18-22	
2,4-Dichlorophenol	ND	1.0	EPA 8270E	3-18-22	3-18-22	
1,2,4-Trichlorobenzene	ND	1.0	EPA 8270E	3-18-22	3-18-22	
Naphthalene	ND	0.10	EPA 8270E/SIM	3-18-22	3-18-22	
4-Chloroaniline	ND	1.0	EPA 8270E	3-18-22	3-18-22	
Hexachlorobutadiene	ND	1.0	EPA 8270E	3-18-22	3-18-22	
4-Chloro-3-methylphenol	ND	1.0	EPA 8270E	3-18-22	3-18-22	
2-Methylnaphthalene	ND	0.10	EPA 8270E/SIM	3-18-22	3-18-22	
1-Methylnaphthalene	ND	0.10	EPA 8270E/SIM	3-18-22	3-18-22	
Hexachlorocyclopentadiene	ND	1.0	EPA 8270E	3-18-22	3-18-22	
2,4,6-Trichlorophenol	ND	1.0	EPA 8270E	3-18-22	3-18-22	
2,3-Dichloroaniline	ND	1.0	EPA 8270E	3-18-22	3-18-22	
2,4,5-Trichlorophenol	ND	1.0	EPA 8270E	3-18-22	3-18-22	
2-Chloronaphthalene	ND	1.0	EPA 8270E	3-18-22	3-18-22	
2-Nitroaniline	ND	1.0	EPA 8270E	3-18-22	3-18-22	
1,4-Dinitrobenzene	ND	1.0	EPA 8270E	3-18-22	3-18-22	
Dimethylphthalate	ND	5.0	EPA 8270E	3-18-22	3-18-22	
1,3-Dinitrobenzene	ND	1.0	EPA 8270E	3-18-22	3-18-22	
2,6-Dinitrotoluene	ND	1.0	EPA 8270E	3-18-22	3-18-22	
1,2-Dinitrobenzene	ND	1.0	EPA 8270E	3-18-22	3-18-22	
Acenaphthylene	ND	0.10	EPA 8270E/SIM	3-18-22	3-18-22	
3-Nitroaniline	ND	1.0	EPA 8270E	3-18-22	3-18-22	



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**SEMIVOLATILE ORGANICS EPA 8270E/SIM
 QUALITY CONTROL**

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0318W1					
2,4-Dinitrophenol	ND	6.9	EPA 8270E	3-18-22	3-18-22	
Acenaphthene	ND	0.10	EPA 8270E/SIM	3-18-22	3-18-22	
4-Nitrophenol	ND	5.0	EPA 8270E	3-18-22	3-18-22	
2,4-Dinitrotoluene	ND	1.0	EPA 8270E	3-18-22	3-18-22	
Dibenzofuran	ND	1.0	EPA 8270E	3-18-22	3-18-22	
2,3,5,6-Tetrachlorophenol	ND	1.0	EPA 8270E	3-18-22	3-18-22	
2,3,4,6-Tetrachlorophenol	ND	1.0	EPA 8270E	3-18-22	3-18-22	
Diethylphthalate	ND	1.0	EPA 8270E	3-18-22	3-18-22	
4-Chlorophenyl-phenylether	ND	1.0	EPA 8270E	3-18-22	3-18-22	
4-Nitroaniline	ND	1.0	EPA 8270E	3-18-22	3-18-22	
Fluorene	ND	0.10	EPA 8270E/SIM	3-18-22	3-18-22	
4,6-Dinitro-2-methylphenol	ND	5.0	EPA 8270E	3-18-22	3-18-22	
n-Nitrosodiphenylamine	ND	1.0	EPA 8270E	3-18-22	3-18-22	
1,2-Diphenylhydrazine	ND	1.0	EPA 8270E	3-18-22	3-18-22	
4-Bromophenyl-phenylether	ND	1.0	EPA 8270E	3-18-22	3-18-22	
Hexachlorobenzene	ND	1.0	EPA 8270E	3-18-22	3-18-22	
Pentachlorophenol	ND	6.3	EPA 8270E	3-18-22	3-18-22	
Phenanthrene	ND	0.10	EPA 8270E/SIM	3-18-22	3-18-22	
Anthracene	ND	0.10	EPA 8270E/SIM	3-18-22	3-18-22	
Carbazole	ND	1.0	EPA 8270E	3-18-22	3-18-22	
Di-n-butylphthalate	ND	5.0	EPA 8270E	3-18-22	3-18-22	
Fluoranthene	ND	0.10	EPA 8270E/SIM	3-18-22	3-18-22	
Pyrene	ND	0.10	EPA 8270E/SIM	3-18-22	3-18-22	
Butylbenzylphthalate	ND	1.0	EPA 8270E	3-18-22	3-18-22	
bis-2-Ethylhexyladipate	ND	5.0	EPA 8270E	3-18-22	3-18-22	
3,3'-Dichlorobenzidine	ND	1.0	EPA 8270E	3-18-22	3-18-22	
Benzo[a]anthracene	ND	0.010	EPA 8270E/SIM	3-18-22	3-18-22	
Chrysene	ND	0.010	EPA 8270E/SIM	3-18-22	3-18-22	
bis(2-Ethylhexyl)phthalate	ND	5.0	EPA 8270E	3-18-22	3-18-22	
Di-n-octylphthalate	ND	1.0	EPA 8270E	3-18-22	3-18-22	
Benzo[b]fluoranthene	ND	0.010	EPA 8270E/SIM	3-18-22	3-18-22	
Benzo(j,k)fluoranthene	ND	0.010	EPA 8270E/SIM	3-18-22	3-18-22	
Benzo[a]pyrene	ND	0.010	EPA 8270E/SIM	3-18-22	3-18-22	
Indeno[1,2,3-cd]pyrene	ND	0.010	EPA 8270E/SIM	3-18-22	3-18-22	
Dibenz[a,h]anthracene	ND	0.010	EPA 8270E/SIM	3-18-22	3-18-22	
Benzo[g,h,i]perylene	ND	0.010	EPA 8270E/SIM	3-18-22	3-18-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
2-Fluorophenol	29	10 - 82				
Phenol-d6	23	10 - 92				
Nitrobenzene-d5	47	32 - 105				
2-Fluorobiphenyl	48	38 - 105				
2,4,6-Tribromophenol	70	25 - 124				
Terphenyl-d14	62	42 - 116				



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 Project: 6694-002-05 T700

**SEMIVOLATILE ORGANICS EPA 8270E/SIM
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB0318W1									
	SB	SBD	SB	SBD	SB	SBD				
Phenol	12.3	12.6	40.0	40.0	31	32	21 - 53	2	26	
2-Chlorophenol	25.0	25.8	40.0	40.0	63	65	38 - 92	3	28	
1,4-Dichlorobenzene	11.0	10.1	20.0	20.0	55	51	30 - 88	9	32	
n-Nitroso-di-n-propylamine	13.4	13.9	20.0	20.0	67	70	40 - 103	4	27	
1,2,4-Trichlorobenzene	12.2	11.2	20.0	20.0	61	56	37 - 95	9	29	
4-Chloro-3-methylphenol	28.0	29.3	40.0	40.0	70	73	50 - 101	5	17	
Acenaphthene	13.9	13.5	20.0	20.0	70	68	46 - 97	3	19	
4-Nitrophenol	19.1	19.5	40.0	40.0	48	49	23 - 64	2	34	
2,4-Dinitrotoluene	15.0	15.1	20.0	20.0	75	76	46 - 100	1	17	
Pentachlorophenol	36.3	36.7	40.0	40.0	91	92	39 - 123	1	29	
Pyrene	13.6	14.5	20.0	20.0	68	73	52 - 107	6	19	
<i>Surrogate:</i>										
2-Fluorophenol					43	46	10 - 82			
Phenol-d6					32	33	10 - 92			
Nitrobenzene-d5					69	70	32 - 105			
2-Fluorobiphenyl					67	66	38 - 105			
2,4,6-Tribromophenol					82	80	25 - 124			
Terphenyl-d14					65	68	42 - 116			



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 Project: 6694-002-05 T700

**PCBs EPA 8082A
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0321W1					
Aroclor 1016	ND	0.050	EPA 8082A	3-21-2022	3-21-2022	
Aroclor 1221	ND	0.050	EPA 8082A	3-21-2022	3-21-2022	
Aroclor 1232	ND	0.050	EPA 8082A	3-21-2022	3-21-2022	
Aroclor 1242	ND	0.050	EPA 8082A	3-21-2022	3-21-2022	
Aroclor 1248	ND	0.050	EPA 8082A	3-21-2022	3-21-2022	
Aroclor 1254	ND	0.050	EPA 8082A	3-21-2022	3-21-2022	
Aroclor 1260	ND	0.050	EPA 8082A	3-21-2022	3-21-2022	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
DCB	93	42-140				

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS											
Laboratory ID:	SB0321W1										
	SB	SBD	SB	SBD		SB	SBD				
Aroclor 1260	0.438	0.416	0.500	0.500	N/A	88	83	73-131	5	12	
<i>Surrogate:</i>											
DCB						91	91	42-140			



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**ORGANOCHLORINE
 PESTICIDES EPA 8081B
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0321W1					
alpha-BHC	ND	0.0050	EPA 8081B	3-21-22	3-21-22	
gamma-BHC (Lindane)	ND	0.0050	EPA 8081B	3-21-22	3-21-22	
beta-BHC	ND	0.0050	EPA 8081B	3-21-22	3-21-22	
delta-BHC	ND	0.0050	EPA 8081B	3-21-22	3-21-22	
Heptachlor	ND	0.0050	EPA 8081B	3-21-22	3-21-22	
Aldrin	ND	0.0020	EPA 8081B	3-21-22	3-21-22	
Heptachlor Epoxide	ND	0.0030	EPA 8081B	3-21-22	3-21-22	
gamma-Chlordane	ND	0.0050	EPA 8081B	3-21-22	3-21-22	
alpha-Chlordane	ND	0.0050	EPA 8081B	3-21-22	3-21-22	
4,4'-DDE	ND	0.0050	EPA 8081B	3-21-22	3-21-22	
Endosulfan I	ND	0.0050	EPA 8081B	3-21-22	3-21-22	
Dieldrin	ND	0.0050	EPA 8081B	3-21-22	3-21-22	
Endrin	ND	0.0050	EPA 8081B	3-21-22	3-21-22	
4,4'-DDD	ND	0.0050	EPA 8081B	3-21-22	3-21-22	
Endosulfan II	ND	0.0050	EPA 8081B	3-21-22	3-21-22	
4,4'-DDT	ND	0.0050	EPA 8081B	3-21-22	3-21-22	
Endrin Aldehyde	ND	0.0050	EPA 8081B	3-21-22	3-21-22	
Methoxychlor	ND	0.010	EPA 8081B	3-21-22	3-21-22	
Endosulfan Sulfate	ND	0.0050	EPA 8081B	3-21-22	3-21-22	
Endrin Ketone	ND	0.020	EPA 8081B	3-21-22	3-21-22	
Toxaphene	ND	0.050	EPA 8081B	3-21-22	3-21-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
TCMX	62	25-114				
DCB	98	30-137				



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**ORGANOCHLORINE
 PESTICIDES EPA 8081B
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS											
Laboratory ID:	SB0321W2										
	SB	SBD	SB	SBD		SB	SBD				
alpha-BHC	0.0867	0.0895	0.100	0.100	N/A	87	90	42-113	3	19	
gamma-BHC (Lindane)	0.0837	0.0863	0.100	0.100	N/A	84	86	45-114	3	15	
beta-BHC	0.0860	0.0872	0.100	0.100	N/A	86	87	40-118	1	15	
delta-BHC	0.0876	0.0899	0.100	0.100	N/A	88	90	20-125	3	15	
Heptachlor	0.0790	0.0820	0.100	0.100	N/A	79	82	41-120	4	16	
Aldrin	0.0838	0.0880	0.100	0.100	N/A	84	88	35-115	5	15	
Heptachlor Epoxide	0.0822	0.0826	0.100	0.100	N/A	82	83	50-118	0	15	
gamma-Chlordane	0.0851	0.0857	0.100	0.100	N/A	85	86	46-110	1	15	
alpha-Chlordane	0.0839	0.0850	0.100	0.100	N/A	84	85	38-112	1	15	
4,4'-DDE	0.0956	0.0941	0.100	0.100	N/A	96	94	41-127	2	15	
Endosulfan I	0.0921	0.0918	0.100	0.100	N/A	92	92	45-119	0	15	
Dieldrin	0.0911	0.0913	0.100	0.100	N/A	91	91	46-115	0	15	
Endrin	0.104	0.104	0.100	0.100	N/A	104	104	52-124	0	15	
4,4'-DDD	0.0942	0.0933	0.100	0.100	N/A	94	93	52-121	1	15	
Endosulfan II	0.0867	0.0866	0.100	0.100	N/A	87	87	44-114	0	15	
4,4'-DDT	0.100	0.0994	0.100	0.100	N/A	100	99	48-123	1	15	
Endrin Aldehyde	0.0907	0.0886	0.100	0.100	N/A	91	89	45-114	2	15	
Methoxychlor	0.0849	0.0829	0.100	0.100	N/A	85	83	49-130	2	15	
Endosulfan Sulfate	0.0858	0.0859	0.100	0.100	N/A	86	86	39-117	0	15	
Endrin Ketone	0.0836	0.0806	0.100	0.100	N/A	84	81	53-119	4	15	
Surrogate:											
TCMX						68	76	25-114			
DCB						100	98	30-137			



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**TOTAL METALS
 EPA 200.8/200.7/7470A
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0323WH1					
Iron	ND	56	EPA 200.7	3-23-22	3-23-22	
Magnesium	ND	1100	EPA 200.7	3-23-22	3-23-22	
Manganese	ND	11	EPA 200.7	3-23-22	3-23-22	
Laboratory ID:	MB0323WM1					
Arsenic	ND	3.3	EPA 200.8	3-23-22	3-23-22	
Cadmium	ND	4.4	EPA 200.8	3-23-22	3-23-22	
Chromium	ND	11	EPA 200.8	3-23-22	3-23-22	
Copper	ND	11	EPA 200.8	3-23-22	3-23-22	
Lead	ND	1.1	EPA 200.8	3-23-22	3-23-22	
Nickel	ND	22	EPA 200.8	3-23-22	3-23-22	
Selenium	ND	5.6	EPA 200.8	3-23-22	3-23-22	
Zinc	ND	28	EPA 200.8	3-23-22	3-23-22	
Laboratory ID:	MB0323W1					
Mercury	ND	0.025	EPA 7470A	3-23-22	3-23-22	



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TOTAL METALS
EPA 200.8/200.7/7470A
QUALITY CONTROL

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result		Spike Level		Source	Percent	Recovery	RPD		Flags
					Result	Recovery	Limits	RPD	Limit	
DUPLICATE										
Laboratory ID:	03-161-05									
	ORIG	DUP								
Iron	1430	1420	NA	NA		NA	NA	1	20	
Magnesium	8530	8330	NA	NA		NA	NA	2	20	
Manganese	278	270	NA	NA		NA	NA	3	20	
Laboratory ID:	03-161-07									
Arsenic	ND	ND	NA	NA		NA	NA	NA	20	
Cadmium	ND	ND	NA	NA		NA	NA	NA	20	
Chromium	ND	ND	NA	NA		NA	NA	NA	20	
Copper	ND	ND	NA	NA		NA	NA	NA	20	
Lead	ND	ND	NA	NA		NA	NA	NA	20	
Nickel	ND	ND	NA	NA		NA	NA	NA	20	
Selenium	ND	ND	NA	NA		NA	NA	NA	20	
Zinc	ND	ND	NA	NA		NA	NA	NA	20	
Laboratory ID:	03-173-01									
Mercury	ND	ND	NA	NA		NA	NA	NA	20	
MATRIX SPIKES										
Laboratory ID:	03-161-05									
	MS	MSD	MS	MSD		MS	MSD			
Iron	24800	24700	22200	22200	1430	105	105	75-125	0	20
Magnesium	32600	31700	22200	22200	8530	108	104	75-125	3	20
Manganese	903	880	556	556	278	113	108	75-125	3	20
Laboratory ID:	03-161-07									
Arsenic	113	106	111	111	ND	102	96	75-125	6	20
Cadmium	104	102	111	111	ND	94	92	75-125	3	20
Chromium	104	99.1	111	111	ND	94	89	75-125	5	20
Copper	101	96.4	111	111	ND	91	87	75-125	5	20
Lead	110	105	111	111	ND	99	94	75-125	5	20
Nickel	101	95.6	111	111	ND	91	86	75-125	5	20
Selenium	115	110	111	111	ND	103	99	75-125	4	20
Zinc	119	114	111	111	13.3	96	91	75-125	4	20
Laboratory ID:	03-173-01									
Mercury	6.18	6.20	6.25	6.25	ND	99	99	75-125	0	20



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**DISSOLVED METALS
 EPA 200.8/200.7/7470A
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0324D1					
Calcium	ND	1100	EPA 200.7		3-24-22	
Iron	ND	56	EPA 200.7		3-24-22	
Magnesium	ND	1100	EPA 200.7		3-24-22	
Manganese	ND	11	EPA 200.7		3-24-22	
Potassium	ND	1100	EPA 200.7		3-24-22	
Sodium	ND	1100	EPA 200.7		3-24-22	
Laboratory ID:	MB0318F1					
Arsenic	ND	3.0	EPA 200.8	3-18-22	3-23-22	
Cadmium	ND	4.0	EPA 200.8	3-18-22	3-23-22	
Chromium	ND	10	EPA 200.8	3-18-22	3-23-22	
Copper	ND	10	EPA 200.8	3-18-22	3-23-22	
Lead	ND	1.0	EPA 200.8	3-18-22	3-23-22	
Nickel	ND	20	EPA 200.8	3-18-22	3-23-22	
Selenium	ND	5.0	EPA 200.8	3-18-22	3-23-22	
Zinc	ND	25	EPA 200.8	3-18-22	3-23-22	
Laboratory ID:	MB0323D1					
Mercury	ND	0.025	EPA 7470A		3-23-22	



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**DISSOLVED METALS
 EPA 200.8/200.7/7470A
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result		Spike Level		Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE										
Laboratory ID:	03-173-01									
	ORIG	DUP								
Calcium	18200	18400	NA	NA		NA	NA	1	20	
Iron	ND	ND	NA	NA		NA	NA	NA	20	
Magnesium	11500	11500	NA	NA		NA	NA	0	20	
Manganese	61.6	62.9	NA	NA		NA	NA	2	20	
Potassium	2230	2260	NA	NA		NA	NA	1	20	
Sodium	5970	6020	NA	NA		NA	NA	1	20	
Laboratory ID:	03-173-01									
Arsenic	8.84	9.40	NA	NA		NA	NA	6	20	
Cadmium	ND	ND	NA	NA		NA	NA	NA	20	
Chromium	ND	ND	NA	NA		NA	NA	NA	20	
Copper	ND	ND	NA	NA		NA	NA	NA	20	
Lead	ND	ND	NA	NA		NA	NA	NA	20	
Nickel	ND	ND	NA	NA		NA	NA	NA	20	
Selenium	ND	ND	NA	NA		NA	NA	NA	20	
Zinc	ND	ND	NA	NA		NA	NA	NA	20	
Laboratory ID:	03-173-01									
Mercury	ND	ND	NA	NA		NA	NA	NA	20	
MATRIX SPIKES										
Laboratory ID:	03-173-01									
	MS	MSD	MS	MSD		MS	MSD			
Calcium	40800	39000	22200	22200	18200	102	94	75-125	5	20
Iron	24300	22800	22200	22200	ND	110	103	75-125	7	20
Magnesium	34400	32500	22200	22200	11500	103	95	75-125	6	20
Manganese	689	606	556	556	61.6	113	98	75-125	13	20
Potassium	26000	24300	22200	22200	2230	107	100	75-125	7	20
Sodium	30200	28600	22200	22200	5970	109	102	75-125	5	20
Laboratory ID:	03-173-01									
Arsenic	91.6	92.2	80.0	80.0	8.84	103	104	75-125	1	20
Cadmium	79.4	79.0	80.0	80.0	ND	99	99	75-125	1	20
Chromium	79.4	78.2	80.0	80.0	ND	99	98	75-125	2	20
Copper	76.6	75.4	80.0	80.0	ND	96	94	75-125	2	20
Lead	82.4	81.8	80.0	80.0	ND	103	102	75-125	1	20
Nickel	76.8	75.8	80.0	80.0	ND	96	95	75-125	1	20
Selenium	85.8	84.0	80.0	80.0	ND	107	105	75-125	2	20
Zinc	82.0	82.6	80.0	80.0	ND	103	103	75-125	1	20
Laboratory ID:	03-173-01									
Mercury	6.20	6.33	6.25	6.25	ND	99	101	75-125	2	20



OnSite Environmental, Inc. 14648 NE 95th Street, Redmond, WA 98052 (425) 883-3881

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: March 31, 2022
 Samples Submitted: March 15, 2022
 Laboratory Reference: 2203-173
 Project: 6694-002-05 T700

**TOTAL ALKALINITY
 SM 2320B
 QUALITY CONTROL**

Matrix: Water
 Units: mg CaCO₃/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0321W1					
Total Alkalinity	ND	2.0	SM 2320B	3-21-22	3-21-22	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	03-173-01							
	ORIG	DUP						
Total Alkalinity	94.0	94.0	NA	NA	NA	0	10	

SPIKE BLANK								
Laboratory ID:	SB0321W1							
	SB	SB		SB				
Total Alkalinity	104	100	NA	104	89-110	NA	NA	



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 Laboratory Reference: 2112-075
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**BICARBONATE
 SM 2320B
 QUALITY CONTROL**

Matrix: Water
 Units: mg CaCO₃/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0321W1					
Bicarbonate Concentration	ND	2.0	SM 2320B	3-21-22	3-21-22	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	03-173-01							
	ORIG	DUP						
Total Alkalinity	94.0	94.0	NA	NA	NA	0	10	

SPIKE BLANK								
Laboratory ID:	SB0321W1							
	SB	SB		SB				
Total Alkalinity	104	100	NA	104	89-110	NA	NA	



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**TOTAL DISSOLVED SOLIDS
 SM 2540C
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0317W1					
Total Dissolved Solids	ND	13	SM 2540C	3-17-22	3-18-22	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	03-149-01							
	ORIG	DUP						
Total Dissolved Solids	273	271	NA	NA	NA	1	29	

SPIKE BLANK								
Laboratory ID:	SB0317W1							
	SB	SB		SB				
Total Dissolved Solids	496	500	NA	99	84-110	NA	NA	



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**CHLORIDE
 SM 4500-Cl E
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0317W1					
Chloride	ND	2.0	SM 4500-Cl E	3-17-22	3-17-22	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	03-149-01							
	ORIG	DUP						
Chloride	5.71	5.74	NA	NA	NA	1	15	

MATRIX SPIKE								
Laboratory ID:	03-149-01							
	MS	MS		MS				
Chloride	57.9	50.0	5.71	104	86-115	NA	NA	

SPIKE BLANK								
Laboratory ID:	SB0317W1							
	SB	SB		SB				
Chloride	53.7	50.0	NA	107	86-115	NA	NA	



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**NITRATE (as Nitrogen)
 EPA 353.2
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L-N

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0322W1					
Nitrate	ND	0.050	EPA 353.2	3-22-22	3-22-22	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	03-173-01							
	ORIG	DUP						
Nitrate	0.117	0.128	NA	NA	NA	9	16	

MATRIX SPIKE								
Laboratory ID:	03-173-01							
	MS	MS		MS				
Nitrate	2.46	2.00	0.117	117	92-125	NA	NA	

SPIKE BLANK								
Laboratory ID:	SB0322W1							
	SB	SB		SB				
Nitrate	2.31	2.00	NA	116	90-121	NA	NA	



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**SULFATE
 ASTM D516-11
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0318W1					
Sulfate	ND	5.0	ASTM D516-11	3-18-22	3-18-22	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	03-198-03							
	ORIG	DUP						
Sulfate	37.7	37.5	NA	NA	NA	1	10	

MATRIX SPIKE								
Laboratory ID:	03-198-03							
	MS	MS		MS				
Sulfate	76.0	40.0	37.7	96	69-139	NA	NA	

SPIKE BLANK								
Laboratory ID:	SB0318W1							
	SB	SB		SB				
Sulfate	10.1	10.0	NA	101	89-117	NA	NA	



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**AMMONIA (as Nitrogen)
 SM 4500-NH₃ D
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0322W1					
Ammonia	ND	0.050	SM 4500-NH3 D	3-22-22	3-22-22	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	03-222-02							
	ORIG	DUP						
Ammonia	ND	ND	NA	NA	NA	NA	19	

MATRIX SPIKE								
Laboratory ID:	03-222-02							
	MS		MS		MS			
Ammonia	4.95		5.00	ND	99	80-113	NA	NA

SPIKE BLANK								
Laboratory ID:	SB0322W1							
	SB		SB		SB			
Ammonia	4.97		5.00	NA	99	88-110	NA	NA





Data Qualifiers and Abbreviations

- A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.
 - B - The analyte indicated was also found in the blank sample.
 - C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.
 - E - The value reported exceeds the quantitation range and is an estimate.
 - F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.
 - H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.
 - I - Compound recovery is outside of the control limits.
 - J - The value reported was below the practical quantitation limit. The value is an estimate.
 - K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.
 - L - The RPD is outside of the control limits.
 - M - Hydrocarbons in the gasoline range are impacting the diesel range result.
 - M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.
 - N - Hydrocarbons in the lube oil range are impacting the diesel range result.
 - N1 - Hydrocarbons in diesel range are impacting lube oil range results.
 - O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.
 - P - The RPD of the detected concentrations between the two columns is greater than 40.
 - Q - Surrogate recovery is outside of the control limits.
 - S - Surrogate recovery data is not available due to the necessary dilution of the sample.
 - T - The sample chromatogram is not similar to a typical _____.
 - U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
 - U1 - The practical quantitation limit is elevated due to interferences present in the sample.
 - V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.
 - W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.
 - X - Sample extract treated with a mercury cleanup procedure.
 - X1 - Sample extract treated with a sulfuric acid/silica gel cleanup procedure.
 - Y - The calibration verification for this analyte exceeded the 20% drift specified in methods 8260 & 8270, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.
 - Z -
- ND - Not Detected at PQL
 PQL - Practical Quantitation Limit
 RPD - Relative Percent Difference





Fremont
Analytical

3600 Fremont Ave. N.
Seattle, WA 98103
T: (206) 352-3790
F: (206) 352-7178
info@fremontanalytical.com

OnSite Environmental Inc

David Baumeister
14648 NE 95th Street
Redmond, WA 98052

RE: 03-173

Work Order Number: 2203422

March 31, 2022

Attention David Baumeister:

Fremont Analytical, Inc. received 1 sample(s) on 3/17/2022 for the analyses presented in the following report.

Herbicides by EPA Method 8151A (GC/MS)

This report consists of the following:

- Case Narrative
- Analytical Results
- Applicable Quality Control Summary Reports
- Chain of Custody

All analyses were performed consistent with the Quality Assurance program of Fremont Analytical, Inc. Please contact the laboratory if you should have any questions about the results.

Thank you for using Fremont Analytical.

Sincerely,

Brianna Barnes
Project Manager

*DoD-ELAP Accreditation #79636 by PJLA, ISO/IEC 17025:2017 and QSM 5.3 for Environmental Testing
ORELAP Certification: WA 100009 (NELAP Recognized) for Environmental Testing
Washington State Department of Ecology Accredited for Environmental Testing, Lab ID C910*

Original

www.fremontanalytical.com

CLIENT: OnSite Environmental Inc
Project: 03-173
Work Order: 2203422

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received
2203422-001	MW7-20220314	03/14/2022 3:30 PM	03/17/2022 2:34 PM

DRAFT

Note: If no "Time Collected" is supplied, a default of 12:00AM is assigned

CLIENT: OnSite Environmental Inc
Project: 03-173

I. SAMPLE RECEIPT:

Samples receipt information is recorded on the attached Sample Receipt Checklist.

II. GENERAL REPORTING COMMENTS:

Results are reported on a wet weight basis unless dry-weight correction is denoted in the units field on the analytical report ("mg/kg-dry" or "ug/kg-dry").

Matrix Spike (MS) and MS Duplicate (MSD) samples are tested from an analytical batch of "like" matrix to check for possible matrix effect. The MS and MSD will provide site specific matrix data only for those samples which are spiked by the laboratory. The sample chosen for spike purposes may or may not have been a sample submitted in this sample delivery group. The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The LCS and the MB are processed with the samples and the MS/MSD to ensure method criteria are achieved throughout the entire analytical process.

III. ANALYSES AND EXCEPTIONS:

Exceptions associated with this report will be footnoted in the analytical results page(s) or the quality control summary page(s) and/or noted below.

DRAFT

Qualifiers:

- * - Flagged value is not within established control limits
- B - Analyte detected in the associated Method Blank
- D - Dilution was required
- E - Value above quantitation range
- H - Holding times for preparation or analysis exceeded
- I - Analyte with an internal standard that does not meet established acceptance criteria
- J - Analyte detected below Reporting Limit
- N - Tentatively Identified Compound (TIC)
- Q - Analyte with an initial or continuing calibration that does not meet established acceptance criteria
- S - Spike recovery outside accepted recovery limits
- ND - Not detected at the Reporting Limit
- R - High relative percent difference observed

Acronyms:

- %Rec - Percent Recovery
- CCB - Continued Calibration Blank
- CCV - Continued Calibration Verification
- DF - Dilution Factor
- DUP - Sample Duplicate
- HEM - Hexane Extractable Material
- ICV - Initial Calibration Verification
- LCS/LCSD - Laboratory Control Sample / Laboratory Control Sample Duplicate
- MCL - Maximum Contaminant Level
- MB or MBLANK - Method Blank
- MDL - Method Detection Limit
- MS/MSD - Matrix Spike / Matrix Spike Duplicate
- PDS - Post Digestion Spike
- Ref Val - Reference Value
- REP - Sample Replicate
- RL - Reporting Limit
- RPD - Relative Percent Difference
- SD - Serial Dilution
- SGT - Silica Gel Treatment
- SPK - Spike
- Surr - Surrogate



Client: OnSite Environmental Inc

Collection Date: 3/14/2022 3:30:00 PM

Project: 03-173

Lab ID: 2203422-001

Matrix: Water

Client Sample ID: MW7-20220314

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
----------	--------	----	------	-------	----	---------------

Herbicides by EPA Method 8151A (GC/MS)

Batch ID: 35777

Analyst: SB

Dicamba	ND	0.984		µg/L	1	3/29/2022 12:34:31 AM
2,4-D	ND	0.984		µg/L	1	3/29/2022 12:34:31 AM
2,4-DP	ND	0.984		µg/L	1	3/29/2022 12:34:31 AM
2,4,5-TP (Silvex)	ND	0.984		µg/L	1	3/29/2022 12:34:31 AM
2,4,5-T	ND	0.984		µg/L	1	3/29/2022 12:34:31 AM
Dinoseb	ND	0.984		µg/L	1	3/29/2022 12:34:31 AM
Dalapon	ND	1.97		µg/L	1	3/29/2022 12:34:31 AM
2,4-DB	ND	0.984		µg/L	1	3/29/2022 12:34:31 AM
MCPP	ND	4.92		µg/L	1	3/29/2022 12:34:31 AM
MCPA	ND	4.92		µg/L	1	3/29/2022 12:34:31 AM
Picloram	ND	0.984		µg/L	1	3/29/2022 12:34:31 AM
Bentazon	ND	0.984		µg/L	1	3/29/2022 12:34:31 AM
Chloramben	ND	0.984		µg/L	1	3/29/2022 12:34:31 AM
Acifluorfen	ND	4.92		µg/L	1	3/29/2022 12:34:31 AM
3,5-Dichlorobenzoic acid	ND	0.984		µg/L	1	3/29/2022 12:34:31 AM
4-Nitrophenol	ND	0.984		µg/L	1	3/29/2022 12:34:31 AM
Dacthal (DCPA)	ND	1.97		µg/L	1	3/29/2022 12:34:31 AM
Surr: 2,4-Dichlorophenylacetic acid	109	65.7 - 136		%Rec	1	3/29/2022 12:34:31 AM

Work Order: 2203422
CLIENT: OnSite Environmental Inc
Project: 03-173

QC SUMMARY REPORT
Herbicides by EPA Method 8151A (GC/MS)

Sample ID: MB-35777	SampType: MBLK	Units: µg/L	Prep Date: 3/18/2022	RunNo: 74378							
Client ID: MBLKW	Batch ID: 35777		Analysis Date: 3/28/2022	SeqNo: 1525417							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Dicamba	ND	0.980									
2,4-D	ND	0.980									
2,4-DP	ND	0.980									
2,4,5-TP (Silvex)	ND	0.980									
2,4,5-T	ND	0.980									
Dinoseb	ND	0.980									
Dalapon	ND	1.96									
2,4-DB	ND	0.980									
MCPD	ND	4.90									
MCPA	ND	4.90									
Picloram	ND	0.980									
Bentazon	ND	0.980									
Chloramben	ND	0.980									
Acifluorfen	ND	4.90									
3,5-Dichlorobenzoic acid	ND	0.980									
4-Nitrophenol	ND	0.980									
Dacthal (DCPA)	ND	1.96									
Surr: 2,4-Dichlorophenylacetic acid	23.8		19.60		121	65.7	136				

Sample ID: LCS-35777	SampType: LCS	Units: µg/L	Prep Date: 3/18/2022	RunNo: 74378							
Client ID: LCSW	Batch ID: 35777		Analysis Date: 3/28/2022	SeqNo: 1525418							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Dicamba	4.17	0.988	3.954	0	105	16.6	148				
2,4-D	4.18	0.988	3.954	0	106	50.4	150				
2,4-DP	3.82	0.988	3.954	0	96.7	53	135				
2,4,5-TP (Silvex)	4.07	0.988	3.954	0	103	53.6	140				
2,4,5-T	3.93	0.988	3.954	0	99.3	50	141				
Dinoseb	3.17	0.988	3.954	0	80.3	5	119				
Dalapon	16.1	1.98	19.77	0	81.5	5.65	97.2				

Work Order: 2203422
 CLIENT: OnSite Environmental Inc
 Project: 03-173

QC SUMMARY REPORT
Herbicides by EPA Method 8151A (GC/MS)

Sample ID: LCS-35777	SampType: LCS	Units: µg/L				Prep Date: 3/18/2022	RunNo: 74378				
Client ID: LCSW	Batch ID: 35777					Analysis Date: 3/28/2022	SeqNo: 1525418				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
2,4-DB	3.75	0.988	3.954	0	94.8	54.9	141				
MCPP	20.9	4.94	19.77	0	106	28.7	166				
MCPA	21.0	4.94	19.77	0	106	20.7	176				
Picloram	2.51	0.988	3.954	0	63.5	9.72	120				
Bentazon	3.68	0.988	3.954	0	93.1	41.2	141				
Chloramben	2.32	0.988	3.954	0	58.8	5	109				
Acifluorfen	2.79	4.94	3.954	0	70.6	7.62	139				
3,5-Dichlorobenzoic acid	3.97	0.988	3.954	0	100	52.4	120				
4-Nitrophenol	2.00	0.988	3.954	0	50.6	5	107				
Dacthal (DCPA)	1.71	1.98	3.954	0	43.3	5	65.4				
Surr: 2,4-Dichlorophenylacetic acid	22.5		19.77		114	65.7	136				

Sample ID: 2203364-001ADUP	SampType: DUP	Units: µg/L				Prep Date: 3/18/2022	RunNo: 74378				
Client ID: BATCH	Batch ID: 35777					Analysis Date: 3/29/2022	SeqNo: 1525420				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dicamba	ND	1.07						0	0	50	
2,4-D	ND	1.07						0	0	50	
2,4-DP	ND	1.07						0	0	50	
2,4,5-TP (Silvex)	ND	1.07						0	0	50	
2,4,5-T	ND	1.07						0	0	50	
Dinoseb	ND	1.07						0	0	50	
Dalapon	ND	2.14						0	0	50	
2,4-DB	ND	1.07						0	0	50	
MCPP	ND	5.34						0	0	50	
MCPA	ND	5.34						0	0	50	
Picloram	ND	1.07						0	0	50	
Bentazon	ND	1.07						0	0	50	
Chloramben	ND	1.07						0	0	50	
Acifluorfen	ND	5.34						0	0	50	

Work Order: 2203422
 CLIENT: OnSite Environmental Inc
 Project: 03-173

QC SUMMARY REPORT
Herbicides by EPA Method 8151A (GC/MS)

Sample ID: 2203364-001ADUP	SampType: DUP	Units: µg/L	Prep Date: 3/18/2022	RunNo: 74378							
Client ID: BATCH	Batch ID: 35777		Analysis Date: 3/29/2022	SeqNo: 1525420							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

3,5-Dichlorobenzoic acid	ND	1.07						0	0	50	
4-Nitrophenol	ND	1.07						0	0	50	
Dacthal (DCPA)	ND	2.14						0	0	50	
Surr: 2,4-Dichlorophenylacetic acid	26.3		21.37		123	65.7	136		0		

Sample ID: 2203422-001AMS	SampType: MS	Units: µg/L	Prep Date: 3/18/2022	RunNo: 74378							
Client ID: MW7-20220314	Batch ID: 35777		Analysis Date: 3/29/2022	SeqNo: 1525422							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Dicamba	3.88	0.985	3.941	0	98.5	31	142				
2,4-D	3.84	0.985	3.941	0	97.4	50.3	149				
2,4-DP	3.51	0.985	3.941	0	88.9	49.9	143				
2,4,5-TP (Silvex)	3.78	0.985	3.941	0	95.8	47.7	141				
2,4,5-T	3.62	0.985	3.941	0	91.9	34.4	139				
Dinoseb	2.84	0.985	3.941	0	72.2	27.3	117				
Dalapon	14.4	1.97	19.70	0	72.9	14.2	113				
2,4-DB	3.34	0.985	3.941	0	84.8	31.3	147				
MCPP	19.1	4.93	19.70	0	96.8	30.5	177				
MCPA	19.0	4.93	19.70	0	96.5	36.8	163				
Picloram	2.24	0.985	3.941	0	56.7	18.8	115				
Bentazon	3.38	0.985	3.941	0	85.8	11.9	176				
Chloramben	2.45	0.985	3.941	0	62.3	5	112				
Acifluorfen	2.46	4.93	3.941	0	62.4	28.1	146				
3,5-Dichlorobenzoic acid	3.69	0.985	3.941	0	93.7	36.2	146				
4-Nitrophenol	2.20	0.985	3.941	0	55.9	5	116				
Dacthal (DCPA)	1.44	1.97	3.941	0	36.7	5	84.6				
Surr: 2,4-Dichlorophenylacetic acid	20.4		19.70		103	65.7	136				

Client Name: **ONSITE**
 Logged by: **Clare Griggs**

Work Order Number: **2203422**
 Date Received: **3/17/2022 2:34:00 PM**

Chain of Custody

1. Is Chain of Custody complete? Yes No Not Present
 2. How was the sample delivered? Client

Log In

3. Coolers are present? Yes No NA
 4. Shipping container/cooler in good condition? Yes No
 5. Custody Seals present on shipping container/cooler?
 (Refer to comments for Custody Seals not intact) Yes No Not Present
 6. Was an attempt made to cool the samples? Yes No NA
 7. Were all items received at a temperature of >2°C to 6°C * Yes No NA
 8. Sample(s) in proper container(s)? Yes No
 9. Sufficient sample volume for indicated test(s)? Yes No
 10. Are samples properly preserved? Yes No
 11. Was preservative added to bottles? Yes No NA
 12. Is there headspace in the VOA vials? Yes No NA
 13. Did all samples containers arrive in good condition(unbroken)? Yes No
 14. Does paperwork match bottle labels? Yes No
 15. Are matrices correctly identified on Chain of Custody? Yes No
 16. Is it clear what analyses were requested? Yes No
 17. Were all holding times able to be met? Yes No

Special Handling (if applicable)

18. Was client notified of all discrepancies with this order? Yes No NA

Person Notified:	<input type="text"/>	Date:	<input type="text"/>
By Whom:	<input type="text"/>	Via:	<input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:	<input type="text"/>		
Client Instructions:	<input type="text"/>		

19. Additional remarks:

Item Information

Item #	Temp °C
Sample	5.4

* Note: DoD/ELAP and TNI require items to be received at 4°C +/- 2°C



14648 NE 95th Street, Redmond, WA 98052 · (425) 883-3881

2203A22

Laboratory Reference #: 03-173

Laboratory: Fremont Analytical

Turnaround Request

Project Manager: David Baumeister

Attention: Chelsea Ward

1 Day 2 Day 3 Day

email: dbaumeister@onsite-env.com

3600 Fremont Avenue N, Seattle, WA 98103

Standard

Project Number: 6694-002-05

Phone Number: (206) 352-3790

Other: _____

Project Name: _____

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	# of Cont.	Requested Analyses
	MW7-20220314	3/14/22	15:30	W	1	Chlorinated Acid Herbicides 8151

Signature	Company	Date	Time	Comments/Special Instructions
Relinquished by: <i>Nickelle Bellini</i>	OSE Spdy spdy	3/17/22	13:08	EDDs Hold Time 3/21 @ 15:30
Received by: <i>Van</i>		3/17/22	13:08	
Relinquished by: <i>Van</i>	FAI	3/17/22	14:00	
Received by: <i>Justine Payne</i>		3/17/22	14:31	
Relinquished by:				
Received by:				

Chain of Custody

Company: Gen
Project Number: 669460205
Project Name: Go East
Project Manager: Garrett League
Sampled by: Jetta Chan

Turnaround Request (in working days)
(Check One)
 Same Day 1 Day
 2 Days 3 Days
 Standard (7 Days)
 _____ (other)

Laboratory Number: **03-173**

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX (802) <input type="checkbox"/> 8260 <input type="checkbox"/>	NWTPH-Gx	NWTPH-Dx (Acid / SG Clean-up) <input type="checkbox"/>	Volatiles 8260	Halogenated Volatiles 8260	EDB EPA 8011 (Waters Only)	Semivolatiles 8270/SIM (with low-level PAHs)	PAHs 8270/SIM (low-level)	PCBs 8082	Organochlorine Pesticides 8081	Organophosphorus Pesticides 8270/SIM	Chlorinated Acid Herbicides 8151	Total RCRA Metals	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664	TDS	Total + Dissolved Metals*	Total Alkalinity + Bicarbonate	Dissolved Ca, K, Na	Moisture Cl, NO ₃ , NH ₄ , SO ₄	
1	25220314 MUT 25220314	3/14/22	1530	Grd	18			X	X	X			X		X	X		X					X	X	X	X	X	X

Signature	Company	Date	Time	Comments/Special Instructions
<u>[Signature]</u>	<u>Gen</u>	<u>3/15/22</u>	<u>1640</u>	Garrett will email Go East analyze list X - Added 3/17/22. DB (CSTA) * - As, Cd, Cr, Cu, Fe, Pb, Mn, Hg, Ni, Se, Zn, Mg
<u>[Signature]</u>	<u>[Signature]</u>	<u>3/15/22</u>	<u>1700</u>	
Relinquished				Data Package: Standard <input type="checkbox"/> Level III <input type="checkbox"/> Level IV <input type="checkbox"/>
Reviewed/Date	Reviewed/Date			Chromatograms with final report <input type="checkbox"/> Electronic Data Deliverables (EDDs) <input type="checkbox"/>



14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

March 28, 2022

Garrett Leque
GeoEngineers, Inc.
554 West Bakerview Road
Bellingham, WA 98226

Re: Analytical Data for Project 6694-002-05 T700
Laboratory Reference No. 2203-222

Dear Garrett:

Enclosed are the analytical results and associated quality control data for samples submitted on March 18, 2022.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

A handwritten signature in black ink, appearing to read "DB", is written over a large, light gray "DRAFT" watermark that is oriented diagonally across the page.

David Baumeister
Project Manager

Enclosures



OnSite Environmental, Inc. 14648 NE 95th Street, Redmond, WA 98052 (425) 883-3881

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: March 28, 2022
Samples Submitted: March 18, 2022
Laboratory Reference: 2203-222
Project: 6694-002-05 T700

Case Narrative

Samples were collected on March 17, 2022 and received by the laboratory on March 18, 2022. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

DRAFT



Date of Report: March 28, 2022
Samples Submitted: March 18, 2022
Laboratory Reference: 2203-222
Project: 6694-002-05 T700

ANALYTICAL REPORT FOR SAMPLES

Client ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
Seep 1-220317	03-222-01	Water	3-17-22	3-18-22	
Seep 2-220317	03-222-02	Water	3-17-22	3-18-22	

DRAFT



Date of Report: March 28, 2022
 Samples Submitted: March 18, 2022
 Laboratory Reference: 2203-222
 Project: 6694-002-05 T700

TOTAL METALS
EPA 200.8/200.7

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	Seep 1-220317					
Laboratory ID:	03-222-01					
Arsenic	3.8	3.3	EPA 200.8	3-23-22	3-23-22	
Iron	11000	56	EPA 200.7	3-23-22	3-23-22	
Manganese	150	11	EPA 200.7	3-23-22	3-23-22	
Client ID:	Seep 2-220317					
Laboratory ID:	03-222-02					
Arsenic	ND	3.3	EPA 200.8	3-23-22	3-23-22	
Iron	4300	56	EPA 200.7	3-23-22	3-23-22	
Manganese	380	11	EPA 200.7	3-23-22	3-23-22	



Date of Report: March 28, 2022
 Samples Submitted: March 18, 2022
 Laboratory Reference: 2203-222
 Project: 6694-002-05 T700

AMMONIA (as Nitrogen)
SM 4500-NH₃ D

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	Seep 1-220317					
Laboratory ID:	03-222-01					
Ammonia	ND	0.050	SM 4500-NH3 D	3-22-22	3-22-22	
Client ID:	Seep 2-220317					
Laboratory ID:	03-222-02					
Ammonia	ND	0.050	SM 4500-NH3 D	3-22-22	3-22-22	



Date of Report: March 28, 2022
 Samples Submitted: March 18, 2022
 Laboratory Reference: 2203-222
 Project: 6694-002-05 T700

**TOTAL DISSOLVED SOLIDS
 SM 2540C**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	Seep 1-220317					
Laboratory ID:	03-222-01					
Total Dissolved Solids	180	13	SM 2540C	3-21-22	3-22-22	
Client ID:	Seep 2-220317					
Laboratory ID:	03-222-02					
Total Dissolved Solids	130	13	SM 2540C	3-21-22	3-22-22	



Date of Report: March 28, 2022
 Samples Submitted: March 18, 2022
 Laboratory Reference: 2203-222
 Project: 6694-002-05 T700

**TOTAL ORGANIC CARBON
 SM 5310B**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	Seep 1-220317					
Laboratory ID:	03-222-01					
Total Organic Carbon	4.3	1.0	SM 5310B	3-21-22	3-21-22	
Client ID:	Seep 2-220317					
Laboratory ID:	03-222-02					
Total Organic Carbon	9.4	1.0	SM 5310B	3-21-22	3-21-22	



Date of Report: March 28, 2022
 Samples Submitted: March 18, 2022
 Laboratory Reference: 2203-222
 Project: 6694-002-05 T700

**TOTAL METALS
 EPA 200.8/200.7
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0323WH1					
Iron	ND	56	EPA 200.7	3-23-22	3-23-22	
Manganese	ND	11	EPA 200.7	3-23-22	3-23-22	
METHOD BLANK						
Laboratory ID:	MB0323WM1					
Arsenic	ND	3.3	EPA 200.8	3-23-22	3-23-22	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	03-161-05							
	ORIG	DUP						
Iron	1430	1420	NA	NA	NA	1	20	
Manganese	278	270	NA	NA	NA	3	20	
DUPLICATE								
Laboratory ID:	03-161-07							
Arsenic	ND	ND	NA	NA	NA	NA	20	

MATRIX SPIKES

Laboratory ID:	03-161-05									
	MS	MSD	MS	MSD	MS	MSD				
Iron	24800	24700	22200	22200	1430	105	105	75-125	0	20
Manganese	903	880	556	556	278	113	108	75-125	3	20
MATRIX SPIKES										
Laboratory ID:	03-161-07									
Arsenic	113	106	111	111	ND	102	96	75-125	6	20



Date of Report: March 28, 2022
 Samples Submitted: March 18, 2022
 Laboratory Reference: 2203-222
 Project: 6694-002-05 T700

AMMONIA (as Nitrogen)
SM 4500-NH₃ D
QUALITY CONTROL

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0322W1					
Ammonia	ND	0.050	SM 4500-NH3 D	3-22-22	3-22-22	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	03-222-02							
	ORIG	DUP						
Ammonia	ND	ND	NA	NA	NA	NA	19	

MATRIX SPIKE								
Laboratory ID:	03-222-02							
	MS	MS		MS				
Ammonia	4.95	5.00	ND	99	80-113	NA	NA	

SPIKE BLANK								
Laboratory ID:	SB0322W1							
	SB	SB		SB				
Ammonia	4.97	5.00	NA	99	88-110	NA	NA	



Date of Report: March 28, 2022
 Samples Submitted: March 18, 2022
 Laboratory Reference: 2203-222
 Project: 6694-002-05 T700

**TOTAL DISSOLVED SOLIDS
 SM 2540C
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0321W1					
Total Dissolved Solids	ND	13	SM 2540C	3-21-22	3-22-22	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	03-222-01							
	ORIG	DUP						
Total Dissolved Solids	179	172	NA	NA	NA	4	29	

SPIKE BLANK								
Laboratory ID:	SB0321W1							
	SB	SB		SB				
Total Dissolved Solids	489	500	NA	98	84-110	NA	NA	



Date of Report: March 28, 2022
 Samples Submitted: March 18, 2022
 Laboratory Reference: 2203-222
 Project: 6694-002-05 T700

**TOTAL ORGANIC CARBON
 SM 5310B
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0321W1					
Total Organic Carbon	ND	1.0	SM 5310B	3-21-22	3-21-22	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	03-165-01							
	ORIG	DUP						
Total Organic Carbon	481	481	NA	NA	NA	NA	0	12

MATRIX SPIKE								
Laboratory ID:	03-165-01							
	MS	MS		MS				
Total Organic Carbon	586	100	481	105	80-125	NA	NA	

SPIKE BLANK								
Laboratory ID:	SB0321W1							
	SB	SB		SB				
Total Organic Carbon	11.0	10.0	NA	110	80-119	NA	NA	





Data Qualifiers and Abbreviations

- A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.
 - B - The analyte indicated was also found in the blank sample.
 - C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.
 - E - The value reported exceeds the quantitation range and is an estimate.
 - F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.
 - H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.
 - I - Compound recovery is outside of the control limits.
 - J - The value reported was below the practical quantitation limit. The value is an estimate.
 - K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.
 - L - The RPD is outside of the control limits.
 - M - Hydrocarbons in the gasoline range are impacting the diesel range result.
 - M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.
 - N - Hydrocarbons in the lube oil range are impacting the diesel range result.
 - N1 - Hydrocarbons in diesel range are impacting lube oil range results.
 - O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.
 - P - The RPD of the detected concentrations between the two columns is greater than 40.
 - Q - Surrogate recovery is outside of the control limits.
 - S - Surrogate recovery data is not available due to the necessary dilution of the sample.
 - T - The sample chromatogram is not similar to a typical _____.
 - U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
 - U1 - The practical quantitation limit is elevated due to interferences present in the sample.
 - V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.
 - W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.
 - X - Sample extract treated with a mercury cleanup procedure.
 - X1 - Sample extract treated with a sulfuric acid/silica gel cleanup procedure.
 - X2 - Sample extract treated with a silica gel cleanup procedure.
 - Y - The calibration verification for this analyte exceeded the 20% drift specified in methods 8260 & 8270, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.
 - Y1 - Negative effects of the matrix from this sample on the instrument caused values for this analyte in the bracketing continuing calibration verification standard (CCVs) to be outside of 20% acceptance criteria. Because of this, quantitation limits and sample concentrations should be considered estimates.
 - Z -
- ND - Not Detected at PQL
 PQL - Practical Quantitation Limit
 RPD - Relative Percent Difference





14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

April 4, 2022

Garrett Leque
GeoEngineers, Inc.
554 West Bakerview Road
Bellingham, WA 98226

Re: Analytical Data for Project 6694-002-05 T700
Laboratory Reference No. 2203-233

Dear Garrett:

Enclosed are the analytical results and associated quality control data for samples submitted on March 21, 2022.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

A handwritten signature in black ink, appearing to read "DB", with a long horizontal stroke extending to the right.

David Baumeister
Project Manager

Enclosures



OnSite Environmental, Inc. 14648 NE 95th Street, Redmond, WA 98052 (425) 883-3881

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.



OnSite Environmental Inc

David Baumeister
14648 NE 95th Street
Redmond, WA 98052

RE: 03-233

Work Order Number: 2203532

April 01, 2022

Attention David Baumeister:

Fremont Analytical, Inc. received 1 sample(s) on 3/22/2022 for the analyses presented in the following report.

Herbicides by EPA Method 8151A (GC/MS)

This report consists of the following:

- Case Narrative
- Analytical Results
- Applicable Quality Control Summary Reports
- Chain of Custody

All analyses were performed consistent with the Quality Assurance program of Fremont Analytical, Inc. Please contact the laboratory if you should have any questions about the results.

Thank you for using Fremont Analytical.

Sincerely,

Brianna Barnes
Project Manager



CLIENT: OnSite Environmental Inc
Project: 03-233
Work Order: 2203532

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received
2203532-001	MW2-20220318	03/18/2022 2:30 PM	03/22/2022 12:43 PM

DRAFT

Note: If no "Time Collected" is supplied, a default of 12:00AM is assigned

CLIENT: OnSite Environmental Inc

Project: 03-233

I. SAMPLE RECEIPT:

Samples receipt information is recorded on the attached Sample Receipt Checklist.

II. GENERAL REPORTING COMMENTS:

Results are reported on a wet weight basis unless dry-weight correction is denoted in the units field on the analytical report ("mg/kg-dry" or "ug/kg-dry").

Matrix Spike (MS) and MS Duplicate (MSD) samples are tested from an analytical batch of "like" matrix to check for possible matrix effect. The MS and MSD will provide site specific matrix data only for those samples which are spiked by the laboratory. The sample chosen for spike purposes may or may not have been a sample submitted in this sample delivery group. The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The LCS and the MB are processed with the samples and the MS/MSD to ensure method criteria are achieved throughout the entire analytical process.

III. ANALYSES AND EXCEPTIONS:

Exceptions associated with this report will be footnoted in the analytical results page(s) or the quality control summary page(s) and/or noted below.

4/7/2022: Revision 1 includes sample ID change per client request.

Qualifiers:

- * - Flagged value is not within established control limits
- B - Analyte detected in the associated Method Blank
- D - Dilution was required
- E - Value above quantitation range
- H - Holding times for preparation or analysis exceeded
- I - Analyte with an internal standard that does not meet established acceptance criteria
- J - Analyte detected below Reporting Limit
- N - Tentatively Identified Compound (TIC)
- Q - Analyte with an initial or continuing calibration that does not meet established acceptance criteria
- S - Spike recovery outside accepted recovery limits
- ND - Not detected at the Reporting Limit
- R - High relative percent difference observed

Acronyms:

- %Rec - Percent Recovery
- CCB - Continued Calibration Blank
- CCV - Continued Calibration Verification
- DF - Dilution Factor
- DUP - Sample Duplicate
- HEM - Hexane Extractable Material
- ICV - Initial Calibration Verification
- LCS/LCSD - Laboratory Control Sample / Laboratory Control Sample Duplicate
- MCL - Maximum Contaminant Level
- MB or MBLANK - Method Blank
- MDL - Method Detection Limit
- MS/MSD - Matrix Spike / Matrix Spike Duplicate
- PDS - Post Digestion Spike
- Ref Val - Reference Value
- REP - Sample Replicate
- RL - Reporting Limit
- RPD - Relative Percent Difference
- SD - Serial Dilution
- SGT - Silica Gel Treatment
- SPK - Spike
- Surr - Surrogate



Client: OnSite Environmental Inc

Collection Date: 3/18/2022 2:30:00 PM

Project: 03-233

Lab ID: 2203532-001

Matrix: Water

Client Sample ID: MW2-20220318

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
----------	--------	----	------	-------	----	---------------

Herbicides by EPA Method 8151A (GC/MS)

Batch ID: 35867

Analyst: SB

Dicamba	ND	0.997		µg/L	1	3/28/2022 10:11:51 PM
2,4-D	ND	0.997		µg/L	1	3/28/2022 10:11:51 PM
2,4-DP	ND	0.997		µg/L	1	3/28/2022 10:11:51 PM
2,4,5-TP (Silvex)	ND	0.997		µg/L	1	3/28/2022 10:11:51 PM
2,4,5-T	ND	0.997		µg/L	1	3/28/2022 10:11:51 PM
Dinoseb	ND	0.997		µg/L	1	3/28/2022 10:11:51 PM
Dalapon	ND	1.99		µg/L	1	3/28/2022 10:11:51 PM
2,4-DB	ND	0.997		µg/L	1	3/28/2022 10:11:51 PM
MCPP	ND	4.99		µg/L	1	3/28/2022 10:11:51 PM
MCPA	ND	4.99		µg/L	1	3/28/2022 10:11:51 PM
Picloram	ND	0.997		µg/L	1	3/28/2022 10:11:51 PM
Bentazon	ND	0.997		µg/L	1	3/28/2022 10:11:51 PM
Chloramben	ND	0.997		µg/L	1	3/28/2022 10:11:51 PM
Acifluorfen	ND	4.99		µg/L	1	3/28/2022 10:11:51 PM
3,5-Dichlorobenzoic acid	ND	0.997		µg/L	1	3/28/2022 10:11:51 PM
4-Nitrophenol	ND	0.997		µg/L	1	3/28/2022 10:11:51 PM
Dacthal (DCPA)	ND	1.99		µg/L	1	3/28/2022 10:11:51 PM
Surr: 2,4-Dichlorophenylacetic acid	110	65.7 - 136		%Rec	1	3/28/2022 10:11:51 PM

Work Order: 2203532
 CLIENT: OnSite Environmental Inc
 Project: 03-233

QC SUMMARY REPORT
Herbicides by EPA Method 8151A (GC/MS)

Sample ID: MB-35867	SampType: MBLK	Units: µg/L	Prep Date: 3/24/2022	RunNo: 74377							
Client ID: MBLKW	Batch ID: 35867		Analysis Date: 3/28/2022	SeqNo: 1525407							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Dicamba	ND	1.00									
2,4-D	ND	1.00									
2,4-DP	ND	1.00									
2,4,5-TP (Silvex)	ND	1.00									
2,4,5-T	ND	1.00									
Dinoseb	ND	1.00									
Dalapon	ND	2.00									
2,4-DB	ND	1.00									
MCPD	ND	5.00									
MCPA	ND	5.00									
Picloram	ND	1.00									
Bentazon	ND	1.00									
Chloramben	ND	1.00									
Acifluorfen	ND	5.00									
3,5-Dichlorobenzoic acid	ND	1.00									
4-Nitrophenol	ND	1.00									
Dacthal (DCPA)	ND	2.00									
Surr: 2,4-Dichlorophenylacetic acid	16.7		20.00		83.6	65.7	136				

Sample ID: LCS-35867	SampType: LCS	Units: µg/L	Prep Date: 3/24/2022	RunNo: 74377							
Client ID: LCSW	Batch ID: 35867		Analysis Date: 3/28/2022	SeqNo: 1525408							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Dicamba	3.99	1.00	4.000	0	99.8	16.6	148				
2,4-D	3.98	1.00	4.000	0	99.5	50.4	150				
2,4-DP	3.67	1.00	4.000	0	91.7	53	135				
2,4,5-TP (Silvex)	3.87	1.00	4.000	0	96.9	53.6	140				
2,4,5-T	3.76	1.00	4.000	0	94.0	50	141				
Dinoseb	2.32	1.00	4.000	0	58.0	5	119				
Dalapon	15.1	2.00	20.00	0	75.5	5.65	97.2				

Work Order: 2203532
 CLIENT: OnSite Environmental Inc
 Project: 03-233

QC SUMMARY REPORT
Herbicides by EPA Method 8151A (GC/MS)

Sample ID: LCS-35867	SampType: LCS	Units: µg/L				Prep Date: 3/24/2022	RunNo: 74377				
Client ID: LCSW	Batch ID: 35867					Analysis Date: 3/28/2022	SeqNo: 1525408				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
2,4-DB	3.64	1.00	4.000	0	91.0	54.9	141				
MCPP	19.7	5.00	20.00	0	98.3	28.7	166				
MCPA	19.7	5.00	20.00	0	98.4	20.7	176				
Picloram	2.34	1.00	4.000	0	58.4	9.72	120				
Bentazon	3.43	1.00	4.000	0	85.8	41.2	141				
Chloramben	2.14	1.00	4.000	0	53.5	5	109				
Acifluorfen	2.00	5.00	4.000	0	50.0	7.62	139				
3,5-Dichlorobenzoic acid	3.73	1.00	4.000	0	93.1	52.4	120				
4-Nitrophenol	2.65	1.00	4.000	0	66.1	5	107				
Dacthal (DCPA)	1.80	2.00	4.000	0	45.0	5	65.4				
Surr: 2,4-Dichlorophenylacetic acid	20.7		20.00		104	65.7	136				

Sample ID: 2203531-001AMS	SampType: MS	Units: µg/L				Prep Date: 3/24/2022	RunNo: 74377				
Client ID: BATCH	Batch ID: 35867					Analysis Date: 3/28/2022	SeqNo: 1525411				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dicamba	4.28	1.10	4.392	0	97.4	31	142				
2,4-D	4.47	1.10	4.392	0	102	50.3	149				
2,4-DP	3.95	1.10	4.392	0	89.9	49.9	143				
2,4,5-TP (Silvex)	4.36	1.10	4.392	0	99.4	47.7	141				
2,4,5-T	4.34	1.10	4.392	0	98.9	34.4	139				
Dinoseb	3.42	1.10	4.392	0	78.0	27.3	117				
Dalapon	15.9	2.20	21.96	0	72.6	14.2	113				
2,4-DB	4.13	1.10	4.392	0	94.1	31.3	147				
MCPP	20.8	5.49	21.96	0	94.7	30.5	177				
MCPA	20.6	5.49	21.96	0	93.9	36.8	163				
Picloram	3.29	1.10	4.392	0	74.9	18.8	115				
Bentazon	4.07	1.10	4.392	0	92.7	11.9	176				
Chloramben	2.91	1.10	4.392	0	66.2	5	112				
Acifluorfen	3.07	5.49	4.392	0	70.0	28.1	146				

Work Order: 2203532
 CLIENT: OnSite Environmental Inc
 Project: 03-233

QC SUMMARY REPORT
Herbicides by EPA Method 8151A (GC/MS)

Sample ID: 2203531-001AMS	SampType: MS	Units: µg/L	Prep Date: 3/24/2022	RunNo: 74377							
Client ID: BATCH	Batch ID: 35867		Analysis Date: 3/28/2022	SeqNo: 1525411							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

3,5-Dichlorobenzoic acid	4.03	1.10	4.392	0	91.8	36.2	146				
4-Nitrophenol	2.05	1.10	4.392	0	46.6	5	116				
Dacthal (DCPA)	1.74	2.20	4.392	0	39.6	5	84.6				
Surr: 2,4-Dichlorophenylacetic acid	23.1		21.96		105	65.7	136				

Sample ID: 2203578-001ADUP	SampType: DUP	Units: µg/L	Prep Date: 3/24/2022	RunNo: 74377							
Client ID: BATCH	Batch ID: 35867		Analysis Date: 3/28/2022	SeqNo: 1525414							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Dicamba	ND	0.992						0		50	
2,4-D	ND	0.992						0		50	
2,4-DP	ND	0.992						0		50	
2,4,5-TP (Silvex)	ND	0.992						0		50	
2,4,5-T	ND	0.992						0		50	
Dinoseb	ND	0.992						0		50	
Dalapon	ND	1.98						0		50	
2,4-DB	ND	0.992						0		50	
MCPP	ND	4.96						0		50	
MCPA	ND	4.96						0		50	
Picloram	ND	0.992						0		50	
Bentazon	ND	0.992						0		50	
Chloramben	ND	0.992						0		50	
Acifluorfen	ND	4.96						0		50	
3,5-Dichlorobenzoic acid	ND	0.992						0		50	
4-Nitrophenol	ND	0.992						0		50	
Dacthal (DCPA)	ND	1.98						0		50	
Surr: 2,4-Dichlorophenylacetic acid	21.4		19.84		108	65.7	136		0		

Client Name: **ONSITE**
 Logged by: **Elisabeth Samoray**

Work Order Number: **2203532**
 Date Received: **3/22/2022 12:43:00 PM**

Chain of Custody

1. Is Chain of Custody complete? Yes No Not Present
 2. How was the sample delivered? Client

Log In

3. Coolers are present? Yes No NA
 4. Shipping container/cooler in good condition? Yes No
 5. Custody Seals present on shipping container/cooler?
 (Refer to comments for Custody Seals not intact) Yes No Not Present
 6. Was an attempt made to cool the samples? Yes No NA
 7. Were all items received at a temperature of >2°C to 6°C * Yes No NA
 8. Sample(s) in proper container(s)? Yes No
 9. Sufficient sample volume for indicated test(s)? Yes No
 10. Are samples properly preserved? Yes No
 11. Was preservative added to bottles? Yes No NA
 12. Is there headspace in the VOA vials? Yes No NA
 13. Did all samples containers arrive in good condition(unbroken)? Yes No
 14. Does paperwork match bottle labels? Yes No
 15. Are matrices correctly identified on Chain of Custody? Yes No
 16. Is it clear what analyses were requested? Yes No
 17. Were all holding times able to be met? Yes No

Special Handling (if applicable)

18. Was client notified of all discrepancies with this order? Yes No NA

Person Notified:	<input type="text"/>	Date:	<input type="text"/>
By Whom:	<input type="text"/>	Via:	<input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:	<input type="text"/>		
Client Instructions:	<input type="text"/>		

19. Additional remarks:

Item Information

Item #	Temp °C
Sample 1	4.7

* Note: DoD/ELAP and TNI require items to be received at 4°C +/- 2°C

Date of Report: April 4, 2022
Samples Submitted: March 21, 2022
Laboratory Reference: 2203-233
Project: 6694-002-05 T700

Case Narrative

Samples were collected on March 18, 2022 and received by the laboratory on March 21, 2022. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

Nitrate (as Nitrogen) EPA 353.2 Analysis

The reported Nitrate results are a calculated value based on the subtraction of Nitrite from the Nitrate plus Nitrite result. The Nitrite analysis, which has a 48-hour holding time, was performed outside of the holding time. Immediately after this analysis, an aliquot from each sample was preserved with concentrated sulfuric acid and stored at 4 degrees C. The preserved samples were then analyzed within the maximum 28-day holding time for the Nitrate plus Nitrite analysis.

Any other QA/QC issues associated with this extraction and analysis will be indicated with a footnote reference and discussed in detail on the Data Qualifier page.



Date of Report: April 4, 2022
Samples Submitted: March 21, 2022
Laboratory Reference: 2203-233
Project: 6694-002-05 T700

ANALYTICAL REPORT FOR SAMPLES

Client ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
MW2-20220318	03-233-01	Water	3-18-22	3-21-22	

DRAFT



Date of Report: April 4, 2022
 Samples Submitted: March 21, 2022
 Laboratory Reference: 2203-233
 Project: 6694-002-05 T700

GASOLINE RANGE ORGANICS
NWTPH-Gx

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW2-20220318					
Laboratory ID:	03-233-01					
Gasoline	ND	100	NWTPH-Gx	3-23-22	3-23-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	<i>87</i>	<i>66-117</i>				



Date of Report: April 4, 2022
 Samples Submitted: March 21, 2022
 Laboratory Reference: 2203-233
 Project: 6694-002-05 T700

**DIESEL AND HEAVY OIL RANGE ORGANICS
 NWTPH-Dx**

Matrix: Water
 Units: mg/L (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW2-20220318					
Laboratory ID:	03-233-01					
Diesel Range Organics	ND	0.21	NWTPH-Dx	3-25-22	3-25-22	
Lube Oil Range Organics	ND	0.21	NWTPH-Dx	3-25-22	3-25-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	83	50-150				



Date of Report: April 4, 2022
 Samples Submitted: March 21, 2022
 Laboratory Reference: 2203-233
 Project: 6694-002-05 T700

VOLATILE ORGANICS EPA 8260D
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW2-20220318					
Laboratory ID:	03-233-01					
Dichlorodifluoromethane	ND	0.20	EPA 8260D	3-22-22	3-22-22	
Chloromethane	ND	1.0	EPA 8260D	3-22-22	3-22-22	
Vinyl Chloride	ND	0.20	EPA 8260D	3-22-22	3-22-22	
Bromomethane	ND	0.20	EPA 8260D	3-22-22	3-22-22	
Chloroethane	ND	1.0	EPA 8260D	3-22-22	3-22-22	
Trichlorofluoromethane	ND	0.20	EPA 8260D	3-22-22	3-22-22	
1,1-Dichloroethene	ND	0.20	EPA 8260D	3-22-22	3-22-22	
Acetone	ND	5.0	EPA 8260D	3-22-22	3-22-22	
Iodomethane	ND	1.6	EPA 8260D	3-22-22	3-22-22	
Carbon Disulfide	ND	0.20	EPA 8260D	3-22-22	3-22-22	
Methylene Chloride	ND	1.0	EPA 8260D	3-22-22	3-22-22	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	3-22-22	3-22-22	
Methyl t-Butyl Ether	ND	0.20	EPA 8260D	3-22-22	3-22-22	
1,1-Dichloroethane	ND	0.20	EPA 8260D	3-22-22	3-22-22	
Vinyl Acetate	ND	1.0	EPA 8260D	3-22-22	3-22-22	
2,2-Dichloropropane	ND	0.20	EPA 8260D	3-22-22	3-22-22	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	3-22-22	3-22-22	
2-Butanone	ND	5.0	EPA 8260D	3-22-22	3-22-22	
Bromochloromethane	ND	0.20	EPA 8260D	3-22-22	3-22-22	
Chloroform	ND	0.20	EPA 8260D	3-22-22	3-22-22	
1,1,1-Trichloroethane	ND	0.20	EPA 8260D	3-22-22	3-22-22	
Carbon Tetrachloride	ND	0.20	EPA 8260D	3-22-22	3-22-22	
1,1-Dichloropropene	ND	0.20	EPA 8260D	3-22-22	3-22-22	
Benzene	ND	0.20	EPA 8260D	3-22-22	3-22-22	
1,2-Dichloroethane	ND	0.20	EPA 8260D	3-22-22	3-22-22	
Trichloroethene	ND	0.20	EPA 8260D	3-22-22	3-22-22	
1,2-Dichloropropane	ND	0.20	EPA 8260D	3-22-22	3-22-22	
Dibromomethane	ND	0.20	EPA 8260D	3-22-22	3-22-22	
Bromodichloromethane	ND	0.20	EPA 8260D	3-22-22	3-22-22	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260D	3-22-22	3-22-22	
Methyl Isobutyl Ketone	ND	2.0	EPA 8260D	3-22-22	3-22-22	
Toluene	ND	1.0	EPA 8260D	3-22-22	3-22-22	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260D	3-22-22	3-22-22	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW2-20220318					
Laboratory ID:	03-233-01					
1,1,2-Trichloroethane	ND	0.20	EPA 8260D	3-22-22	3-22-22	
Tetrachloroethene	ND	0.20	EPA 8260D	3-22-22	3-22-22	
1,3-Dichloropropane	ND	0.20	EPA 8260D	3-22-22	3-22-22	
2-Hexanone	ND	2.0	EPA 8260D	3-22-22	3-22-22	
Dibromochloromethane	ND	0.20	EPA 8260D	3-22-22	3-22-22	
1,2-Dibromoethane	ND	0.20	EPA 8260D	3-22-22	3-22-22	
Chlorobenzene	ND	0.20	EPA 8260D	3-22-22	3-22-22	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260D	3-22-22	3-22-22	
Ethylbenzene	ND	0.20	EPA 8260D	3-22-22	3-22-22	
m,p-Xylene	ND	0.40	EPA 8260D	3-22-22	3-22-22	
o-Xylene	ND	0.20	EPA 8260D	3-22-22	3-22-22	
Styrene	ND	0.20	EPA 8260D	3-22-22	3-22-22	
Bromoform	ND	1.0	EPA 8260D	3-22-22	3-22-22	
Isopropylbenzene	ND	0.20	EPA 8260D	3-22-22	3-22-22	
Bromobenzene	ND	0.20	EPA 8260D	3-22-22	3-22-22	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260D	3-22-22	3-22-22	
1,2,3-Trichloropropane	ND	0.20	EPA 8260D	3-22-22	3-22-22	
n-Propylbenzene	ND	0.20	EPA 8260D	3-22-22	3-22-22	
2-Chlorotoluene	ND	0.20	EPA 8260D	3-22-22	3-22-22	
4-Chlorotoluene	ND	0.20	EPA 8260D	3-22-22	3-22-22	
1,3,5-Trimethylbenzene	ND	0.20	EPA 8260D	3-22-22	3-22-22	
tert-Butylbenzene	ND	0.20	EPA 8260D	3-22-22	3-22-22	
1,2,4-Trimethylbenzene	ND	0.20	EPA 8260D	3-22-22	3-22-22	
sec-Butylbenzene	ND	0.20	EPA 8260D	3-22-22	3-22-22	
1,3-Dichlorobenzene	ND	0.20	EPA 8260D	3-22-22	3-22-22	
p-Isopropyltoluene	ND	0.20	EPA 8260D	3-22-22	3-22-22	
1,4-Dichlorobenzene	ND	0.20	EPA 8260D	3-22-22	3-22-22	
1,2-Dichlorobenzene	ND	0.20	EPA 8260D	3-22-22	3-22-22	
n-Butylbenzene	ND	0.20	EPA 8260D	3-22-22	3-22-22	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260D	3-22-22	3-22-22	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260D	3-22-22	3-22-22	
Hexachlorobutadiene	ND	1.0	EPA 8260D	3-22-22	3-22-22	
Naphthalene	ND	1.0	EPA 8260D	3-22-22	3-22-22	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260D	3-22-22	3-22-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>100</i>	<i>75-127</i>				
<i>Toluene-d8</i>	<i>101</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>96</i>	<i>78-125</i>				



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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW2-20220318					
Laboratory ID:	03-233-01					
n-Nitrosodimethylamine	ND	0.95	EPA 8270E	3-24-22	3-24-22	
Pyridine	ND	0.95	EPA 8270E	3-24-22	3-24-22	
Phenol	ND	0.95	EPA 8270E	3-24-22	3-24-22	
Aniline	ND	4.8	EPA 8270E	3-24-22	3-24-22	
bis(2-Chloroethyl)ether	ND	0.95	EPA 8270E	3-24-22	3-24-22	
2-Chlorophenol	ND	0.95	EPA 8270E	3-24-22	3-24-22	
1,3-Dichlorobenzene	ND	0.95	EPA 8270E	3-24-22	3-24-22	
1,4-Dichlorobenzene	ND	0.95	EPA 8270E	3-24-22	3-24-22	
Benzyl alcohol	ND	0.95	EPA 8270E	3-24-22	3-24-22	
1,2-Dichlorobenzene	ND	0.95	EPA 8270E	3-24-22	3-24-22	
2-Methylphenol (o-Cresol)	ND	0.95	EPA 8270E	3-24-22	3-24-22	
bis(2-Chloroisopropyl)ether	ND	0.95	EPA 8270E	3-24-22	3-24-22	
(3+4)-Methylphenol (m,p-Cresol)	ND	0.95	EPA 8270E	3-24-22	3-24-22	
n-Nitroso-di-n-propylamine	ND	0.95	EPA 8270E	3-24-22	3-24-22	
Hexachloroethane	ND	0.95	EPA 8270E	3-24-22	3-24-22	
Nitrobenzene	ND	0.95	EPA 8270E	3-24-22	3-24-22	
Isophorone	ND	0.95	EPA 8270E	3-24-22	3-24-22	
2-Nitrophenol	ND	0.95	EPA 8270E	3-24-22	3-24-22	
2,4-Dimethylphenol	ND	0.95	EPA 8270E	3-24-22	3-24-22	
bis(2-Chloroethoxy)methane	ND	0.95	EPA 8270E	3-24-22	3-24-22	
2,4-Dichlorophenol	ND	0.95	EPA 8270E	3-24-22	3-24-22	
1,2,4-Trichlorobenzene	ND	0.95	EPA 8270E	3-24-22	3-24-22	
Naphthalene	ND	0.095	EPA 8270E/SIM	3-24-22	3-24-22	
4-Chloroaniline	ND	0.95	EPA 8270E	3-24-22	3-24-22	
Hexachlorobutadiene	ND	0.95	EPA 8270E	3-24-22	3-24-22	
4-Chloro-3-methylphenol	ND	0.95	EPA 8270E	3-24-22	3-24-22	
2-Methylnaphthalene	ND	0.095	EPA 8270E/SIM	3-24-22	3-24-22	
1-Methylnaphthalene	ND	0.095	EPA 8270E/SIM	3-24-22	3-24-22	
Hexachlorocyclopentadiene	ND	0.95	EPA 8270E	3-24-22	3-24-22	
2,4,6-Trichlorophenol	ND	0.95	EPA 8270E	3-24-22	3-24-22	
2,3-Dichloroaniline	ND	0.95	EPA 8270E	3-24-22	3-24-22	
2,4,5-Trichlorophenol	ND	0.95	EPA 8270E	3-24-22	3-24-22	
2-Chloronaphthalene	ND	0.95	EPA 8270E	3-24-22	3-24-22	
2-Nitroaniline	ND	0.95	EPA 8270E	3-24-22	3-24-22	
1,4-Dinitrobenzene	ND	0.95	EPA 8270E	3-24-22	3-24-22	
Dimethylphthalate	ND	4.8	EPA 8270E	3-24-22	3-24-22	
1,3-Dinitrobenzene	ND	0.95	EPA 8270E	3-24-22	3-24-22	
2,6-Dinitrotoluene	ND	0.95	EPA 8270E	3-24-22	3-24-22	
1,2-Dinitrobenzene	ND	0.95	EPA 8270E	3-24-22	3-24-22	
Acenaphthylene	ND	0.095	EPA 8270E/SIM	3-24-22	3-24-22	
3-Nitroaniline	ND	0.95	EPA 8270E	3-24-22	3-24-22	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW2-20220318					
Laboratory ID:	03-233-01					
2,4-Dinitrophenol	ND	4.8	EPA 8270E	3-24-22	3-24-22	
Acenaphthene	ND	0.095	EPA 8270E/SIM	3-24-22	3-24-22	
4-Nitrophenol	ND	4.8	EPA 8270E	3-24-22	3-24-22	
2,4-Dinitrotoluene	ND	0.95	EPA 8270E	3-24-22	3-24-22	
Dibenzofuran	ND	0.95	EPA 8270E	3-24-22	3-24-22	
2,3,5,6-Tetrachlorophenol	ND	0.95	EPA 8270E	3-24-22	3-24-22	
2,3,4,6-Tetrachlorophenol	ND	0.95	EPA 8270E	3-24-22	3-24-22	
Diethylphthalate	ND	0.95	EPA 8270E	3-24-22	3-24-22	
4-Chlorophenyl-phenylether	ND	0.95	EPA 8270E	3-24-22	3-24-22	
4-Nitroaniline	ND	0.95	EPA 8270E	3-24-22	3-24-22	
Fluorene	ND	0.095	EPA 8270E/SIM	3-24-22	3-24-22	
4,6-Dinitro-2-methylphenol	ND	4.8	EPA 8270E	3-24-22	3-24-22	
n-Nitrosodiphenylamine	ND	0.95	EPA 8270E	3-24-22	3-24-22	
1,2-Diphenylhydrazine	ND	0.95	EPA 8270E	3-24-22	3-24-22	
4-Bromophenyl-phenylether	ND	0.95	EPA 8270E	3-24-22	3-24-22	
Hexachlorobenzene	ND	0.95	EPA 8270E	3-24-22	3-24-22	
Pentachlorophenol	ND	4.8	EPA 8270E	3-24-22	3-24-22	
Phenanthrene	ND	0.095	EPA 8270E/SIM	3-24-22	3-24-22	
Anthracene	ND	0.095	EPA 8270E/SIM	3-24-22	3-24-22	
Carbazole	ND	0.95	EPA 8270E	3-24-22	3-24-22	
Di-n-butylphthalate	ND	4.8	EPA 8270E	3-24-22	3-24-22	
Fluoranthene	ND	0.095	EPA 8270E/SIM	3-24-22	3-24-22	
Pyrene	ND	0.095	EPA 8270E/SIM	3-24-22	3-24-22	
Butylbenzylphthalate	ND	0.95	EPA 8270E	3-24-22	3-24-22	
bis-2-Ethylhexyladipate	ND	4.8	EPA 8270E	3-24-22	3-24-22	
3,3'-Dichlorobenzidine	ND	0.95	EPA 8270E	3-24-22	3-24-22	
Benzo[a]anthracene	ND	0.0095	EPA 8270E/SIM	3-24-22	3-24-22	
Chrysene	ND	0.0095	EPA 8270E/SIM	3-24-22	3-24-22	
bis(2-Ethylhexyl)phthalate	ND	4.8	EPA 8270E	3-24-22	3-24-22	
Di-n-octylphthalate	ND	0.95	EPA 8270E	3-24-22	3-24-22	
Benzo[b]fluoranthene	ND	0.0095	EPA 8270E/SIM	3-24-22	3-24-22	
Benzo(j,k)fluoranthene	ND	0.0095	EPA 8270E/SIM	3-24-22	3-24-22	
Benzo[a]pyrene	ND	0.0095	EPA 8270E/SIM	3-24-22	3-24-22	
Indeno[1,2,3-cd]pyrene	ND	0.0095	EPA 8270E/SIM	3-24-22	3-24-22	
Dibenz[a,h]anthracene	ND	0.0095	EPA 8270E/SIM	3-24-22	3-24-22	
Benzo[g,h,i]perylene	ND	0.0095	EPA 8270E/SIM	3-24-22	3-24-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>2-Fluorophenol</i>	<i>41</i>	<i>10 - 82</i>				
<i>Phenol-d6</i>	<i>30</i>	<i>10 - 92</i>				
<i>Nitrobenzene-d5</i>	<i>68</i>	<i>32 - 105</i>				
<i>2-Fluorobiphenyl</i>	<i>69</i>	<i>38 - 105</i>				
<i>2,4,6-Tribromophenol</i>	<i>96</i>	<i>25 - 124</i>				
<i>Terphenyl-d14</i>	<i>84</i>	<i>42 - 116</i>				



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PCBs EPA 8082A

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW2-20220318					
Laboratory ID:	03-233-01					
Aroclor 1016	ND	0.048	EPA 8082A	3-23-22	3-24-22	
Aroclor 1221	ND	0.048	EPA 8082A	3-23-22	3-24-22	
Aroclor 1232	ND	0.048	EPA 8082A	3-23-22	3-24-22	
Aroclor 1242	ND	0.048	EPA 8082A	3-23-22	3-24-22	
Aroclor 1248	ND	0.048	EPA 8082A	3-23-22	3-24-22	
Aroclor 1254	ND	0.048	EPA 8082A	3-23-22	3-24-22	
Aroclor 1260	ND	0.048	EPA 8082A	3-23-22	3-24-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>DCB</i>	98	42-140				



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**ORGANOCHLORINE
 PESTICIDES EPA 8081B**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW2-20220318					
Laboratory ID:	03-233-01					
alpha-BHC	ND	0.0048	EPA 8081B	3-23-22	3-23-22	
gamma-BHC (Lindane)	ND	0.0048	EPA 8081B	3-23-22	3-23-22	
beta-BHC	ND	0.0048	EPA 8081B	3-23-22	3-23-22	
delta-BHC	ND	0.0048	EPA 8081B	3-23-22	3-23-22	
Heptachlor	ND	0.0048	EPA 8081B	3-23-22	3-23-22	
Aldrin	ND	0.0019	EPA 8081B	3-23-22	3-23-22	
Heptachlor Epoxide	ND	0.0029	EPA 8081B	3-23-22	3-23-22	
gamma-Chlordane	ND	0.0048	EPA 8081B	3-23-22	3-23-22	
alpha-Chlordane	ND	0.0048	EPA 8081B	3-23-22	3-23-22	
4,4'-DDE	ND	0.0048	EPA 8081B	3-23-22	3-23-22	
Endosulfan I	ND	0.0048	EPA 8081B	3-23-22	3-23-22	
Dieldrin	ND	0.0048	EPA 8081B	3-23-22	3-23-22	
Endrin	ND	0.0048	EPA 8081B	3-23-22	3-23-22	
4,4'-DDD	ND	0.0048	EPA 8081B	3-23-22	3-23-22	
Endosulfan II	ND	0.0048	EPA 8081B	3-23-22	3-23-22	
4,4'-DDT	ND	0.0048	EPA 8081B	3-23-22	3-23-22	
Endrin Aldehyde	ND	0.0048	EPA 8081B	3-23-22	3-23-22	
Methoxychlor	ND	0.0096	EPA 8081B	3-23-22	3-23-22	
Endosulfan Sulfate	ND	0.0048	EPA 8081B	3-23-22	3-23-22	
Endrin Ketone	ND	0.019	EPA 8081B	3-23-22	3-23-22	
Toxaphene	ND	0.048	EPA 8081B	3-23-22	3-23-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
TCMX	65	25-114				
DCB	94	30-137				



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TOTAL METALS
EPA 200.8/200.7/7470A

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW2-20220318					
Laboratory ID:	03-233-01					
Arsenic	5.3	3.3	EPA 200.8	3-23-22	3-23-22	
Cadmium	ND	4.4	EPA 200.8	3-23-22	3-23-22	
Chromium	ND	11	EPA 200.8	3-23-22	3-23-22	
Copper	ND	11	EPA 200.8	3-23-22	3-23-22	
Iron	1600	50	EPA 200.7	3-23-22	3-23-22	
Lead	ND	1.1	EPA 200.8	3-23-22	3-23-22	
Magnesium	17000	1000	EPA 200.7	3-23-22	3-23-22	
Manganese	310	10	EPA 200.7	3-23-22	3-23-22	
Mercury	ND	0.025	EPA 7470A	3-23-22	3-23-22	
Nickel	ND	22	EPA 200.8	3-23-22	3-23-22	
Selenium	ND	5.6	EPA 200.8	3-23-22	3-23-22	
Zinc	ND	28	EPA 200.8	3-23-22	3-23-22	



Date of Report: April 4, 2022
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DISSOLVED METALS
EPA 200.8/200.7/7470A

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW2-20220318					
Laboratory ID:	03-233-01					
Arsenic	4.6	3.0	EPA 200.8		3-23-22	
Cadmium	ND	4.0	EPA 200.8		3-23-22	
Calcium	23000	1100	EPA 200.7		3-24-22	
Chromium	ND	10	EPA 200.8		3-23-22	
Copper	ND	10	EPA 200.8		3-23-22	
Iron	ND	56	EPA 200.7		3-24-22	
Lead	ND	1.0	EPA 200.8		3-23-22	
Magnesium	15000	1100	EPA 200.7		3-24-22	
Manganese	250	11	EPA 200.7		3-24-22	
Mercury	ND	0.025	EPA 7470A		3-23-22	
Nickel	ND	20	EPA 200.8		3-23-22	
Potassium	2700	1100	EPA 200.7		3-24-22	
Selenium	ND	5.0	EPA 200.8		3-23-22	
Sodium	6600	1100	EPA 200.7		3-24-22	
Zinc	ND	25	EPA 200.8		3-23-22	



Date of Report: April 4, 2022
 Samples Submitted: March 21, 2022
 Laboratory Reference: 2203-233
 Project: 6694-002-05 T700

**TOTAL ALKALINITY
 SM 2320B**

Matrix: Water
 Units: mg CaCO₃/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW2-20220318					
Laboratory ID:	03-233-01					
Total Alkalinity	120	2.0	SM 2320B	3-24-22	3-24-22	



Date of Report: December 15, 2022
Samples Submitted: December 7, 2022
Laboratory Reference: 2112-075
Project: 6694-002-05 T700

**BICARBONATE
SM 2320B**

Matrix: Water
Units: mg CaCO₃/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW2-20220318					
Laboratory ID:	03-233-01					
Bicarbonate Concentration	120	2.0	SM 2320B	3-24-22	3-24-22	



Date of Report: April 4, 2022
 Samples Submitted: March 21, 2022
 Laboratory Reference: 2203-233
 Project: 6694-002-05 T700

**TOTAL DISSOLVED SOLIDS
 SM 2540C**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW2-20220318					
Laboratory ID:	03-233-01					
Total Dissolved Solids	160	13	SM 2540C	3-24-22	3-25-22	



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CHLORIDE
SM 4500-Cl E

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW2-20220318					
Laboratory ID:	03-233-01					
Chloride	5.1	2.0	SM 4500-Cl E	3-24-22	3-24-22	



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NITRATE (as Nitrogen)
EPA 353.2

Matrix: Water
Units: mg/L-N

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW2-20220318					
Laboratory ID:	03-233-01					
Nitrate	0.079	0.050	EPA 353.2	3-22-22	3-22-22	



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SULFATE
ASTM D516-11

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW2-20220318					
Laboratory ID:	03-233-01					
Sulfate	10	5.0	ASTM D516-11	3-25-22	3-25-22	



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AMMONIA (as Nitrogen)
SM 4500-NH₃ D

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW2-20220318					
Laboratory ID:	03-233-01					
Ammonia	0.11	0.050	SM 4500-NH3 D	3-22-22	3-22-22	



Date of Report: April 4, 2022
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**GASOLINE RANGE ORGANICS
 NWTPH-Gx
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0323W1					
Gasoline	ND	100	NWTPH-Gx	3-23-22	3-23-22	
Surrogate:	Percent Recovery		Control Limits			
Fluorobenzene	87	66-117				

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	03-206-02							
	ORIG	DUP						
Gasoline	ND	ND	NA	NA	NA	NA	30	
Surrogate:								
Fluorobenzene				86	86	66-117		



Date of Report: April 4, 2022
 Samples Submitted: March 21, 2022
 Laboratory Reference: 2203-233
 Project: 6694-002-05 T700

**DIESEL AND HEAVY OIL RANGE ORGANICS
 NWTPH-Dx
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0325W1					
Diesel Range Organics	ND	0.10	NWTPH-Dx	3-25-22	3-25-22	
Lube Oil Range Organics	ND	0.10	NWTPH-Dx	3-25-22	3-25-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	92	50-150				

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	03-245-01							
	ORIG	DUP						
Diesel Range	ND	ND	NA	NA	NA	NA	NA	NA
Lube Oil Range	ND	ND	NA	NA	NA	NA	NA	NA
<i>Surrogate:</i>								
<i>o-Terphenyl</i>				83	80	50-150		



Date of Report: April 4, 2022
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 Laboratory Reference: 2203-233
 Project: 6694-002-05 T700

**VOLATILE ORGANICS EPA 8260D
 QUALITY CONTROL**

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Matrix: Water

Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0322W1					
Dichlorodifluoromethane	ND	0.20	EPA 8260D	3-22-22	3-22-22	
Chloromethane	ND	1.0	EPA 8260D	3-22-22	3-22-22	
Vinyl Chloride	ND	0.20	EPA 8260D	3-22-22	3-22-22	
Bromomethane	ND	0.20	EPA 8260D	3-22-22	3-22-22	
Chloroethane	ND	1.0	EPA 8260D	3-22-22	3-22-22	
Trichlorofluoromethane	ND	0.20	EPA 8260D	3-22-22	3-22-22	
1,1-Dichloroethene	ND	0.20	EPA 8260D	3-22-22	3-22-22	
Acetone	ND	5.0	EPA 8260D	3-22-22	3-22-22	
Iodomethane	ND	1.6	EPA 8260D	3-22-22	3-22-22	
Carbon Disulfide	ND	0.20	EPA 8260D	3-22-22	3-22-22	
Methylene Chloride	ND	1.0	EPA 8260D	3-22-22	3-22-22	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	3-22-22	3-22-22	
Methyl t-Butyl Ether	ND	0.20	EPA 8260D	3-22-22	3-22-22	
1,1-Dichloroethane	ND	0.20	EPA 8260D	3-22-22	3-22-22	
Vinyl Acetate	ND	1.0	EPA 8260D	3-22-22	3-22-22	
2,2-Dichloropropane	ND	0.20	EPA 8260D	3-22-22	3-22-22	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	3-22-22	3-22-22	
2-Butanone	ND	5.0	EPA 8260D	3-22-22	3-22-22	
Bromochloromethane	ND	0.20	EPA 8260D	3-22-22	3-22-22	
Chloroform	ND	0.20	EPA 8260D	3-22-22	3-22-22	
1,1,1-Trichloroethane	ND	0.20	EPA 8260D	3-22-22	3-22-22	
Carbon Tetrachloride	ND	0.20	EPA 8260D	3-22-22	3-22-22	
1,1-Dichloropropene	ND	0.20	EPA 8260D	3-22-22	3-22-22	
Benzene	ND	0.20	EPA 8260D	3-22-22	3-22-22	
1,2-Dichloroethane	ND	0.20	EPA 8260D	3-22-22	3-22-22	
Trichloroethene	ND	0.20	EPA 8260D	3-22-22	3-22-22	
1,2-Dichloropropane	ND	0.20	EPA 8260D	3-22-22	3-22-22	
Dibromomethane	ND	0.20	EPA 8260D	3-22-22	3-22-22	
Bromodichloromethane	ND	0.20	EPA 8260D	3-22-22	3-22-22	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260D	3-22-22	3-22-22	
Methyl Isobutyl Ketone	ND	2.0	EPA 8260D	3-22-22	3-22-22	
Toluene	ND	1.0	EPA 8260D	3-22-22	3-22-22	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260D	3-22-22	3-22-22	



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**VOLATILE ORGANICS EPA 8260D
 QUALITY CONTROL**

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0322W1					
1,1,2-Trichloroethane	ND	0.20	EPA 8260D	3-22-22	3-22-22	
Tetrachloroethene	ND	0.20	EPA 8260D	3-22-22	3-22-22	
1,3-Dichloropropane	ND	0.20	EPA 8260D	3-22-22	3-22-22	
2-Hexanone	ND	2.0	EPA 8260D	3-22-22	3-22-22	
Dibromochloromethane	ND	0.20	EPA 8260D	3-22-22	3-22-22	
1,2-Dibromoethane	ND	0.20	EPA 8260D	3-22-22	3-22-22	
Chlorobenzene	ND	0.20	EPA 8260D	3-22-22	3-22-22	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260D	3-22-22	3-22-22	
Ethylbenzene	ND	0.20	EPA 8260D	3-22-22	3-22-22	
m,p-Xylene	ND	0.40	EPA 8260D	3-22-22	3-22-22	
o-Xylene	ND	0.20	EPA 8260D	3-22-22	3-22-22	
Styrene	ND	0.20	EPA 8260D	3-22-22	3-22-22	
Bromoform	ND	1.0	EPA 8260D	3-22-22	3-22-22	
Isopropylbenzene	ND	0.20	EPA 8260D	3-22-22	3-22-22	
Bromobenzene	ND	0.20	EPA 8260D	3-22-22	3-22-22	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260D	3-22-22	3-22-22	
1,2,3-Trichloropropane	ND	0.20	EPA 8260D	3-22-22	3-22-22	
n-Propylbenzene	ND	0.20	EPA 8260D	3-22-22	3-22-22	
2-Chlorotoluene	ND	0.20	EPA 8260D	3-22-22	3-22-22	
4-Chlorotoluene	ND	0.20	EPA 8260D	3-22-22	3-22-22	
1,3,5-Trimethylbenzene	ND	0.20	EPA 8260D	3-22-22	3-22-22	
tert-Butylbenzene	ND	0.20	EPA 8260D	3-22-22	3-22-22	
1,2,4-Trimethylbenzene	ND	0.20	EPA 8260D	3-22-22	3-22-22	
sec-Butylbenzene	ND	0.20	EPA 8260D	3-22-22	3-22-22	
1,3-Dichlorobenzene	ND	0.20	EPA 8260D	3-22-22	3-22-22	
p-Isopropyltoluene	ND	0.20	EPA 8260D	3-22-22	3-22-22	
1,4-Dichlorobenzene	ND	0.20	EPA 8260D	3-22-22	3-22-22	
1,2-Dichlorobenzene	ND	0.20	EPA 8260D	3-22-22	3-22-22	
n-Butylbenzene	ND	0.20	EPA 8260D	3-22-22	3-22-22	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260D	3-22-22	3-22-22	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260D	3-22-22	3-22-22	
Hexachlorobutadiene	ND	1.0	EPA 8260D	3-22-22	3-22-22	
Naphthalene	ND	1.0	EPA 8260D	3-22-22	3-22-22	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260D	3-22-22	3-22-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>98</i>	<i>75-127</i>				
<i>Toluene-d8</i>	<i>99</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>95</i>	<i>78-125</i>				



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**VOLATILE ORGANICS EPA 8260D
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD	RPD	Flags
					SB	SBD	Limits	RPD	Limit	
SPIKE BLANKS										
Laboratory ID:	SB0322W1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	11.8	11.4	10.0	10.0	118	114	78-125	3	19	
Benzene	11.2	10.9	10.0	10.0	112	109	80-119	3	16	
Trichloroethene	11.1	11.2	10.0	10.0	111	112	80-121	1	18	
Toluene	10.6	10.6	10.0	10.0	106	106	80-117	0	18	
Chlorobenzene	11.2	10.8	10.0	10.0	112	108	80-117	4	17	
<i>Surrogate:</i>										
Dibromofluoromethane					93	94	75-127			
Toluene-d8					99	99	80-127			
4-Bromofluorobenzene					95	95	78-125			



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**SEMIVOLATILE ORGANICS EPA 8270E/SIM
 QUALITY CONTROL**

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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0324W2					
n-Nitrosodimethylamine	ND	1.0	EPA 8270E	3-24-22	3-24-22	
Pyridine	ND	1.0	EPA 8270E	3-24-22	3-24-22	
Phenol	ND	1.0	EPA 8270E	3-24-22	3-24-22	
Aniline	ND	5.0	EPA 8270E	3-24-22	3-24-22	
bis(2-Chloroethyl)ether	ND	1.0	EPA 8270E	3-24-22	3-24-22	
2-Chlorophenol	ND	1.0	EPA 8270E	3-24-22	3-24-22	
1,3-Dichlorobenzene	ND	1.0	EPA 8270E	3-24-22	3-24-22	
1,4-Dichlorobenzene	ND	1.0	EPA 8270E	3-24-22	3-24-22	
Benzyl alcohol	ND	1.0	EPA 8270E	3-24-22	3-24-22	
1,2-Dichlorobenzene	ND	1.0	EPA 8270E	3-24-22	3-24-22	
2-Methylphenol (o-Cresol)	ND	1.0	EPA 8270E	3-24-22	3-24-22	
bis(2-Chloroisopropyl)ether	ND	1.0	EPA 8270E	3-24-22	3-24-22	
(3+4)-Methylphenol (m,p-Cresol)	ND	1.0	EPA 8270E	3-24-22	3-24-22	
n-Nitroso-di-n-propylamine	ND	1.0	EPA 8270E	3-24-22	3-24-22	
Hexachloroethane	ND	1.0	EPA 8270E	3-24-22	3-24-22	
Nitrobenzene	ND	1.0	EPA 8270E	3-24-22	3-24-22	
Isophorone	ND	1.0	EPA 8270E	3-24-22	3-24-22	
2-Nitrophenol	ND	1.0	EPA 8270E	3-24-22	3-24-22	
2,4-Dimethylphenol	ND	1.0	EPA 8270E	3-24-22	3-24-22	
bis(2-Chloroethoxy)methane	ND	1.0	EPA 8270E	3-24-22	3-24-22	
2,4-Dichlorophenol	ND	1.0	EPA 8270E	3-24-22	3-24-22	
1,2,4-Trichlorobenzene	ND	1.0	EPA 8270E	3-24-22	3-24-22	
Naphthalene	ND	0.10	EPA 8270E/SIM	3-24-22	3-24-22	
4-Chloroaniline	ND	1.0	EPA 8270E	3-24-22	3-24-22	
Hexachlorobutadiene	ND	1.0	EPA 8270E	3-24-22	3-24-22	
4-Chloro-3-methylphenol	ND	1.0	EPA 8270E	3-24-22	3-24-22	
2-Methylnaphthalene	ND	0.10	EPA 8270E/SIM	3-24-22	3-24-22	
1-Methylnaphthalene	ND	0.10	EPA 8270E/SIM	3-24-22	3-24-22	
Hexachlorocyclopentadiene	ND	1.0	EPA 8270E	3-24-22	3-24-22	
2,4,6-Trichlorophenol	ND	1.0	EPA 8270E	3-24-22	3-24-22	
2,3-Dichloroaniline	ND	1.0	EPA 8270E	3-24-22	3-24-22	
2,4,5-Trichlorophenol	ND	1.0	EPA 8270E	3-24-22	3-24-22	
2-Chloronaphthalene	ND	1.0	EPA 8270E	3-24-22	3-24-22	
2-Nitroaniline	ND	1.0	EPA 8270E	3-24-22	3-24-22	
1,4-Dinitrobenzene	ND	1.0	EPA 8270E	3-24-22	3-24-22	
Dimethylphthalate	ND	5.0	EPA 8270E	3-24-22	3-24-22	
1,3-Dinitrobenzene	ND	1.0	EPA 8270E	3-24-22	3-24-22	
2,6-Dinitrotoluene	ND	1.0	EPA 8270E	3-24-22	3-24-22	
1,2-Dinitrobenzene	ND	1.0	EPA 8270E	3-24-22	3-24-22	
Acenaphthylene	ND	0.10	EPA 8270E/SIM	3-24-22	3-24-22	
3-Nitroaniline	ND	1.0	EPA 8270E	3-24-22	3-24-22	



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**SEMIVOLATILE ORGANICS EPA 8270E/SIM
 QUALITY CONTROL**

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0324W2					
2,4-Dinitrophenol	ND	5.0	EPA 8270E	3-24-22	3-24-22	
Acenaphthene	ND	0.10	EPA 8270E/SIM	3-24-22	3-24-22	
4-Nitrophenol	ND	5.0	EPA 8270E	3-24-22	3-24-22	
2,4-Dinitrotoluene	ND	1.0	EPA 8270E	3-24-22	3-24-22	
Dibenzofuran	ND	1.0	EPA 8270E	3-24-22	3-24-22	
2,3,5,6-Tetrachlorophenol	ND	1.0	EPA 8270E	3-24-22	3-24-22	
2,3,4,6-Tetrachlorophenol	ND	1.0	EPA 8270E	3-24-22	3-24-22	
Diethylphthalate	ND	1.0	EPA 8270E	3-24-22	3-24-22	
4-Chlorophenyl-phenylether	ND	1.0	EPA 8270E	3-24-22	3-24-22	
4-Nitroaniline	ND	1.0	EPA 8270E	3-24-22	3-24-22	
Fluorene	ND	0.10	EPA 8270E/SIM	3-24-22	3-24-22	
4,6-Dinitro-2-methylphenol	ND	5.0	EPA 8270E	3-24-22	3-24-22	
n-Nitrosodiphenylamine	ND	1.0	EPA 8270E	3-24-22	3-24-22	
1,2-Diphenylhydrazine	ND	1.0	EPA 8270E	3-24-22	3-24-22	
4-Bromophenyl-phenylether	ND	1.0	EPA 8270E	3-24-22	3-24-22	
Hexachlorobenzene	ND	1.0	EPA 8270E	3-24-22	3-24-22	
Pentachlorophenol	ND	5.0	EPA 8270E	3-24-22	3-24-22	
Phenanthrene	ND	0.10	EPA 8270E/SIM	3-24-22	3-24-22	
Anthracene	ND	0.10	EPA 8270E/SIM	3-24-22	3-24-22	
Carbazole	ND	1.0	EPA 8270E	3-24-22	3-24-22	
Di-n-butylphthalate	ND	5.0	EPA 8270E	3-24-22	3-24-22	
Fluoranthene	ND	0.10	EPA 8270E/SIM	3-24-22	3-24-22	
Pyrene	ND	0.10	EPA 8270E/SIM	3-24-22	3-24-22	
Butylbenzylphthalate	ND	1.0	EPA 8270E	3-24-22	3-24-22	
bis-2-Ethylhexyladipate	ND	5.0	EPA 8270E	3-24-22	3-24-22	
3,3'-Dichlorobenzidine	ND	1.0	EPA 8270E	3-24-22	3-24-22	
Benzo[a]anthracene	ND	0.010	EPA 8270E/SIM	3-24-22	3-24-22	
Chrysene	ND	0.010	EPA 8270E/SIM	3-24-22	3-24-22	
bis(2-Ethylhexyl)phthalate	ND	5.0	EPA 8270E	3-24-22	3-24-22	
Di-n-octylphthalate	ND	1.0	EPA 8270E	3-24-22	3-24-22	
Benzo[b]fluoranthene	ND	0.010	EPA 8270E/SIM	3-24-22	3-24-22	
Benzo(j,k)fluoranthene	ND	0.010	EPA 8270E/SIM	3-24-22	3-24-22	
Benzo[a]pyrene	ND	0.010	EPA 8270E/SIM	3-24-22	3-24-22	
Indeno[1,2,3-cd]pyrene	ND	0.010	EPA 8270E/SIM	3-24-22	3-24-22	
Dibenz[a,h]anthracene	ND	0.010	EPA 8270E/SIM	3-24-22	3-24-22	
Benzo[g,h,i]perylene	ND	0.010	EPA 8270E/SIM	3-24-22	3-24-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
2-Fluorophenol	50	10 - 82				
Phenol-d6	38	10 - 92				
Nitrobenzene-d5	80	32 - 105				
2-Fluorobiphenyl	74	38 - 105				
2,4,6-Tribromophenol	94	25 - 124				
Terphenyl-d14	82	42 - 116				



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**SEMIVOLATILE ORGANICS EPA 8270E/SIM
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L

Analyte	Result		Spike Level		Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
MATRIX SPIKES										
Laboratory ID:	03-268-01									
	MS	MSD	MS	MSD		MS	MSD			
Phenol	99.1	95.4	160	160	20.8	49	47	20 - 108	4	24
2-Chlorophenol	96.9	93.4	160	160	ND	61	58	24 - 105	4	32
1,4-Dichlorobenzene	41.7	42.3	80.0	80.0	ND	52	53	24 - 100	1	36
n-Nitroso-di-n-propylamine	56.0	56.9	80.0	80.0	ND	70	71	21 - 143	2	30
1,2,4-Trichlorobenzene	46.0	44.9	80.0	80.0	ND	58	56	34 - 105	2	34
4-Chloro-3-methylphenol	107	102	160	160	ND	67	64	44 - 113	5	21
Acenaphthene	59.5	58.6	80.0	80.0	ND	74	73	47 - 106	2	19
4-Nitrophenol	120	111	160	160	ND	75	69	20 - 127	8	37
2,4-Dinitrotoluene	54.4	51.5	80.0	80.0	ND	68	64	45 - 106	5	19
Pentachlorophenol	127	121	160	160	ND	79	76	20 - 136	5	39
Pyrene	60.9	57.6	80.0	80.0	ND	76	72	47 - 112	6	23
<i>Surrogate:</i>										
2-Fluorophenol						52	50	10 - 82		
Phenol-d6						57	54	10 - 92		
Nitrobenzene-d5						67	61	32 - 105		
2-Fluorobiphenyl						68	65	38 - 105		
2,4,6-Tribromophenol						78	72	25 - 124		
Terphenyl-d14						66	61	42 - 116		



Date of Report: April 4, 2022
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**PCBs EPA 8082A
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0323W1					
Aroclor 1016	ND	0.050	EPA 8082A	3-23-22	3-24-22	
Aroclor 1221	ND	0.050	EPA 8082A	3-23-22	3-24-22	
Aroclor 1232	ND	0.050	EPA 8082A	3-23-22	3-24-22	
Aroclor 1242	ND	0.050	EPA 8082A	3-23-22	3-24-22	
Aroclor 1248	ND	0.050	EPA 8082A	3-23-22	3-24-22	
Aroclor 1254	ND	0.050	EPA 8082A	3-23-22	3-24-22	
Aroclor 1260	ND	0.050	EPA 8082A	3-23-22	3-24-22	
Surrogate:	Percent Recovery	Control Limits				
DCB	86	42-140				

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS											
Laboratory ID:	SB0323W1										
	SB	SBD	SB	SBD		SB	SBD				
Aroclor 1260	0.495	0.442	0.500	0.500	N/A	99	88	73-131	11	12	
Surrogate:											
DCB						95	104	42-140			



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**ORGANOCHLORINE
 PESTICIDES EPA 8081B
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0323W1					
alpha-BHC	ND	0.0050	EPA 8081B	3-23-22	3-23-22	
gamma-BHC (Lindane)	ND	0.0050	EPA 8081B	3-23-22	3-23-22	
beta-BHC	ND	0.0050	EPA 8081B	3-23-22	3-23-22	
delta-BHC	ND	0.0050	EPA 8081B	3-23-22	3-23-22	
Heptachlor	ND	0.0050	EPA 8081B	3-23-22	3-23-22	
Aldrin	ND	0.0020	EPA 8081B	3-23-22	3-23-22	
Heptachlor Epoxide	ND	0.0030	EPA 8081B	3-23-22	3-23-22	
gamma-Chlordane	ND	0.0050	EPA 8081B	3-23-22	3-23-22	
alpha-Chlordane	ND	0.0050	EPA 8081B	3-23-22	3-23-22	
4,4'-DDE	ND	0.0050	EPA 8081B	3-23-22	3-23-22	
Endosulfan I	ND	0.0050	EPA 8081B	3-23-22	3-23-22	
Dieldrin	ND	0.0050	EPA 8081B	3-23-22	3-23-22	
Endrin	ND	0.0050	EPA 8081B	3-23-22	3-23-22	
4,4'-DDD	ND	0.0050	EPA 8081B	3-23-22	3-23-22	
Endosulfan II	ND	0.0050	EPA 8081B	3-23-22	3-23-22	
4,4'-DDT	ND	0.0050	EPA 8081B	3-23-22	3-23-22	
Endrin Aldehyde	ND	0.0050	EPA 8081B	3-23-22	3-23-22	
Methoxychlor	ND	0.010	EPA 8081B	3-23-22	3-23-22	
Endosulfan Sulfate	ND	0.0050	EPA 8081B	3-23-22	3-23-22	
Endrin Ketone	ND	0.020	EPA 8081B	3-23-22	3-23-22	
Toxaphene	ND	0.050	EPA 8081B	3-23-22	3-23-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
TCMX	63	25-114				
DCB	85	30-137				



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**ORGANOCHLORINE
 PESTICIDES EPA 8081B
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS											
Laboratory ID:	SB0323W2										
	SB	SBD	SB	SBD		SB	SBD				
alpha-BHC	0.0878	0.0928	0.100	0.100	N/A	88	93	42-113	6	19	
gamma-BHC (Lindane)	0.0871	0.0918	0.100	0.100	N/A	87	92	45-114	5	15	
beta-BHC	0.0871	0.0845	0.100	0.100	N/A	87	84	40-118	3	15	
delta-BHC	0.0912	0.0934	0.100	0.100	N/A	91	93	20-125	2	15	
Heptachlor	0.0814	0.0833	0.100	0.100	N/A	81	83	41-120	2	16	
Aldrin	0.0878	0.0886	0.100	0.100	N/A	88	89	35-115	1	15	
Heptachlor Epoxide	0.0839	0.0850	0.100	0.100	N/A	84	85	50-118	1	15	
gamma-Chlordane	0.0860	0.0864	0.100	0.100	N/A	86	86	46-110	0	15	
alpha-Chlordane	0.0854	0.0849	0.100	0.100	N/A	85	85	38-112	1	15	
4,4'-DDE	0.0944	0.0888	0.100	0.100	N/A	94	89	41-127	6	15	
Endosulfan I	0.0932	0.0942	0.100	0.100	N/A	93	94	45-119	1	15	
Dieldrin	0.0930	0.0911	0.100	0.100	N/A	93	91	46-115	2	15	
Endrin	0.105	0.104	0.100	0.100	N/A	105	104	52-124	1	15	
4,4'-DDD	0.0948	0.0926	0.100	0.100	N/A	95	93	52-121	2	15	
Endosulfan II	0.0879	0.0883	0.100	0.100	N/A	88	88	44-114	0	15	
4,4'-DDT	0.100	0.0951	0.100	0.100	N/A	100	95	48-123	5	15	
Endrin Aldehyde	0.0884	0.0827	0.100	0.100	N/A	88	83	45-114	7	15	
Methoxychlor	0.0823	0.0756	0.100	0.100	N/A	82	76	49-130	8	15	
Endosulfan Sulfate	0.0878	0.0870	0.100	0.100	N/A	88	87	39-117	1	15	
Endrin Ketone	0.0830	0.0778	0.100	0.100	N/A	83	78	53-119	6	15	
Surrogate:											
TCMX						72	75	25-114			
DCB						99	98	30-137			



Date of Report: April 4, 2022
 Samples Submitted: March 21, 2022
 Laboratory Reference: 2203-233
 Project: 6694-002-05 T700

TOTAL METALS
EPA 200.8/200.7/7470A
QUALITY CONTROL

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0323WH1					
Iron	ND	50	EPA 200.7	3-23-22	3-23-22	
Magnesium	ND	1000	EPA 200.7	3-23-22	3-23-22	
Manganese	ND	10	EPA 200.7	3-23-22	3-23-22	
Laboratory ID:	MB0323WM1					
Arsenic	ND	3.3	EPA 200.8	3-23-22	3-23-22	
Cadmium	ND	4.4	EPA 200.8	3-23-22	3-23-22	
Chromium	ND	11	EPA 200.8	3-23-22	3-23-22	
Copper	ND	11	EPA 200.8	3-23-22	3-23-22	
Lead	ND	1.1	EPA 200.8	3-23-22	3-23-22	
Nickel	ND	22	EPA 200.8	3-23-22	3-23-22	
Selenium	ND	5.6	EPA 200.8	3-23-22	3-23-22	
Zinc	ND	28	EPA 200.8	3-23-22	3-23-22	
Laboratory ID:	MB0323W1					
Mercury	ND	0.025	EPA 7470A	3-23-22	3-23-22	



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TOTAL METALS
EPA 200.8/200.7/7470A
QUALITY CONTROL

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result		Spike Level		Source	Percent	Recovery	RPD	RPD	Flags
					Result	Recovery	Limits	RPD	Limit	
DUPLICATE										
Laboratory ID:	03-161-05									
	ORIG	DUP								
Iron	1430	1420	NA	NA		NA	NA	1	20	
Magnesium	8530	8330	NA	NA		NA	NA	2	20	
Manganese	278	270	NA	NA		NA	NA	3	20	
Laboratory ID:	03-161-07									
Arsenic	ND	ND	NA	NA		NA	NA	NA	20	
Cadmium	ND	ND	NA	NA		NA	NA	NA	20	
Chromium	ND	ND	NA	NA		NA	NA	NA	20	
Copper	ND	ND	NA	NA		NA	NA	NA	20	
Lead	ND	ND	NA	NA		NA	NA	NA	20	
Nickel	ND	ND	NA	NA		NA	NA	NA	20	
Selenium	ND	ND	NA	NA		NA	NA	NA	20	
Zinc	ND	ND	NA	NA		NA	NA	NA	20	
Laboratory ID:	03-173-01									
Mercury	ND	ND	NA	NA		NA	NA	NA	20	
MATRIX SPIKES										
Laboratory ID:	03-161-05									
	MS	MSD	MS	MSD		MS	MSD			
Iron	24800	24700	22200	22200	1430	105	105	75-125	0	20
Magnesium	32600	31700	22200	22200	8530	108	104	75-125	3	20
Manganese	903	880	556	556	278	113	108	75-125	3	20
Laboratory ID:	03-161-07									
Arsenic	113	106	111	111	ND	102	96	75-125	6	20
Cadmium	104	102	111	111	ND	94	92	75-125	3	20
Chromium	104	99.1	111	111	ND	94	89	75-125	5	20
Copper	101	96.4	111	111	ND	91	87	75-125	5	20
Lead	110	105	111	111	ND	99	94	75-125	5	20
Nickel	101	95.6	111	111	ND	91	86	75-125	5	20
Selenium	115	110	111	111	ND	103	99	75-125	4	20
Zinc	119	114	111	111	13.3	96	91	75-125	4	20
Laboratory ID:	03-173-01									
Mercury	6.18	6.20	6.25	6.25	ND	99	99	75-125	0	20



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 Project: 6694-002-05 T700

**DISSOLVED METALS
 EPA 200.8/200.7/7470A
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0324D1					
Calcium	ND	1100	EPA 200.7		3-24-22	
Iron	ND	56	EPA 200.7		3-24-22	
Magnesium	ND	1100	EPA 200.7		3-24-22	
Manganese	ND	11	EPA 200.7		3-24-22	
Potassium	ND	1100	EPA 200.7		3-24-22	
Sodium	ND	1100	EPA 200.7		3-24-22	
Laboratory ID:	MB0318F1					
Arsenic	ND	3.0	EPA 200.8	3-18-22	3-23-22	
Cadmium	ND	4.0	EPA 200.8	3-18-22	3-23-22	
Chromium	ND	10	EPA 200.8	3-18-22	3-23-22	
Copper	ND	10	EPA 200.8	3-18-22	3-23-22	
Lead	ND	1.0	EPA 200.8	3-18-22	3-23-22	
Nickel	ND	20	EPA 200.8	3-18-22	3-23-22	
Selenium	ND	5.0	EPA 200.8	3-18-22	3-23-22	
Zinc	ND	25	EPA 200.8	3-18-22	3-23-22	
Laboratory ID:	MB0323D1					
Mercury	ND	0.025	EPA 7470A		3-23-22	



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DISSOLVED METALS
EPA 200.8/200.7/7470A
QUALITY CONTROL

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result		Spike Level		Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE										
Laboratory ID:	03-173-01									
	ORIG	DUP								
Calcium	18200	18400	NA	NA		NA	NA	1	20	
Iron	ND	ND	NA	NA		NA	NA	NA	20	
Magnesium	11500	11500	NA	NA		NA	NA	0	20	
Manganese	61.6	62.9	NA	NA		NA	NA	2	20	
Potassium	2230	2260	NA	NA		NA	NA	1	20	
Sodium	5970	6020	NA	NA		NA	NA	1	20	
Laboratory ID:	03-173-01									
Arsenic	8.84	9.40	NA	NA		NA	NA	6	20	
Cadmium	ND	ND	NA	NA		NA	NA	NA	20	
Chromium	ND	ND	NA	NA		NA	NA	NA	20	
Copper	ND	ND	NA	NA		NA	NA	NA	20	
Lead	ND	ND	NA	NA		NA	NA	NA	20	
Nickel	ND	ND	NA	NA		NA	NA	NA	20	
Selenium	ND	ND	NA	NA		NA	NA	NA	20	
Zinc	ND	ND	NA	NA		NA	NA	NA	20	
Laboratory ID:	03-173-01									
Mercury	ND	ND	NA	NA		NA	NA	NA	20	
MATRIX SPIKES										
Laboratory ID:	03-173-01									
	MS	MSD	MS	MSD		MS	MSD			
Calcium	40800	39000	22200	22200	18200	102	94	75-125	5	20
Iron	24300	22800	22200	22200	ND	110	103	75-125	7	20
Magnesium	34400	32500	22200	22200	11500	103	95	75-125	6	20
Manganese	689	606	556	556	61.6	113	98	75-125	13	20
Potassium	26000	24300	22200	22200	2230	107	100	75-125	7	20
Sodium	30200	28600	22200	22200	5970	109	102	75-125	5	20
Laboratory ID:	03-173-01									
Arsenic	91.6	92.2	80.0	80.0	8.84	103	104	75-125	1	20
Cadmium	79.4	79.0	80.0	80.0	ND	99	99	75-125	1	20
Chromium	79.4	78.2	80.0	80.0	ND	99	98	75-125	2	20
Copper	76.6	75.4	80.0	80.0	ND	96	94	75-125	2	20
Lead	82.4	81.8	80.0	80.0	ND	103	102	75-125	1	20
Nickel	76.8	75.8	80.0	80.0	ND	96	95	75-125	1	20
Selenium	85.8	84.0	80.0	80.0	ND	107	105	75-125	2	20
Zinc	82.0	82.6	80.0	80.0	ND	103	103	75-125	1	20
Laboratory ID:	03-173-01									
Mercury	6.20	6.33	6.25	6.25	ND	99	101	75-125	2	20



OnSite Environmental, Inc. 14648 NE 95th Street, Redmond, WA 98052 (425) 883-3881

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: April 4, 2022
 Samples Submitted: March 21, 2022
 Laboratory Reference: 2203-233
 Project: 6694-002-05 T700

**TOTAL ALKALINITY
 SM 2320B
 QUALITY CONTROL**

Matrix: Water
 Units: mg CaCO₃/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0324W1					
Total Alkalinity	ND	2.0	SM 2320B	3-24-22	3-24-22	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	03-241-03							
	ORIG	DUP						
Total Alkalinity	92.0	94.0	NA	NA	NA	2	10	

SPIKE BLANK								
Laboratory ID:	SB0324W1							
	SB	SB		SB				
Total Alkalinity	106	100	NA	106	89-110	NA	NA	



Date of Report: December 15, 2022
 Samples Submitted: December 7, 2022
 Laboratory Reference: 2112-075
 Project: 6694-002-05 T700

**BICARBONATE
 SM 2320B
 QUALITY CONTROL**

Matrix: Water
 Units: mg CaCO₃/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0324W1					
Bicarbonate Concentration	ND	2.0	SM 2320B	3-24-22	3-24-22	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	03-241-03							
	ORIG	DUP						
Bicarbonate	92.0	94.0	NA	NA	NA	2	10	

SPIKE BLANK								
Laboratory ID:	SB0324W1							
	SB	SB		SB				
Bicarbonate	106	100	NA	106	89-110	NA	NA	



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**TOTAL DISSOLVED SOLIDS
 SM 2540C
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0324W1					
Total Dissolved Solids	ND	13	SM 2540C	3-24-22	3-25-22	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	03-234-01							
	ORIG	DUP						
Total Dissolved Solids	528	528	NA	NA	NA	0	29	

SPIKE BLANK								
Laboratory ID:	SB0324W1							
	SB	SB		SB				
Total Dissolved Solids	484	500	NA	97	84-110	NA	NA	



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 Project: 6694-002-05 T700

**CHLORIDE
 SM 4500-Cl E
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0324W1					
Chloride	ND	2.0	SM 4500-Cl E	3-24-22	3-24-22	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	03-233-01							
	ORIG	DUP						
Chloride	5.13	5.05	NA	NA	NA	2	15	

MATRIX SPIKE								
Laboratory ID:	03-233-01							
	MS	MS		MS				
Chloride	56.2	50.0	5.13	102	86-115	NA	NA	

SPIKE BLANK								
Laboratory ID:	SB0324W1							
	SB	SB		SB				
Chloride	51.3	50.0	NA	103	86-115	NA	NA	



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NITRATE (as Nitrogen)
EPA 353.2
QUALITY CONTROL

Matrix: Water
 Units: mg/L-N

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0322W1					
Nitrate	ND	0.050	EPA 353.2	3-22-22	3-22-22	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	03-173-01							
	ORIG	DUP						
Nitrate	0.117	0.128	NA	NA	NA	9	16	

MATRIX SPIKE								
Laboratory ID:	03-173-01							
	MS	MS		MS				
Nitrate	2.46	2.00	0.117	117	92-125	NA	NA	

SPIKE BLANK								
Laboratory ID:	SB0322W1							
	SB	SB		SB				
Nitrate	2.31	2.00	NA	116	90-121	NA	NA	



Date of Report: April 4, 2022
 Samples Submitted: March 21, 2022
 Laboratory Reference: 2203-233
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**SULFATE
 ASTM D516-11
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0325W1					
Sulfate	ND	5.0	ASTM D516-11	3-25-22	3-25-22	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	03-233-01							
	ORIG	DUP						
Sulfate	10.0	9.89	NA	NA	NA	1	10	

MATRIX SPIKE								
Laboratory ID:	03-233-01							
	MS	MS		MS				
Sulfate	31.2	20.0	10.0	106	69-139	NA	NA	

SPIKE BLANK								
Laboratory ID:	SB0325W1							
	SB	SB		SB				
Sulfate	10.2	10.0	NA	102	89-117	NA	NA	



Date of Report: April 4, 2022
 Samples Submitted: March 21, 2022
 Laboratory Reference: 2203-233
 Project: 6694-002-05 T700

AMMONIA (as Nitrogen)
SM 4500-NH₃ D
QUALITY CONTROL

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0322W1					
Ammonia	ND	0.050	SM 4500-NH3 D	3-22-22	3-22-22	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	03-222-02							
	ORIG	DUP						
Ammonia	ND	ND	NA	NA	NA	NA	19	

MATRIX SPIKE								
Laboratory ID:	03-222-02							
	MS	MS		MS				
Ammonia	4.95	5.00	ND	99	80-113	NA	NA	

SPIKE BLANK								
Laboratory ID:	SB0322W1							
	SB	SB		SB				
Ammonia	4.97	5.00	NA	99	88-110	NA	NA	





Data Qualifiers and Abbreviations

- A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.
- B - The analyte indicated was also found in the blank sample.
- C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.
- E - The value reported exceeds the quantitation range and is an estimate.
- F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.
- H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.
- I - Compound recovery is outside of the control limits.
- J - The value reported was below the practical quantitation limit. The value is an estimate.
- K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.
- L - The RPD is outside of the control limits.
- M - Hydrocarbons in the gasoline range are impacting the diesel range result.
- M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.
- N - Hydrocarbons in the lube oil range are impacting the diesel range result.
- N1 - Hydrocarbons in diesel range are impacting lube oil range results.
- O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.
- P - The RPD of the detected concentrations between the two columns is greater than 40.
- Q - Surrogate recovery is outside of the control limits.
- S - Surrogate recovery data is not available due to the necessary dilution of the sample.
- T - The sample chromatogram is not similar to a typical _____.
- U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
- U1 - The practical quantitation limit is elevated due to interferences present in the sample.
- V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.
- W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.
- X - Sample extract treated with a mercury cleanup procedure.
- X1 - Sample extract treated with a sulfuric acid/silica gel cleanup procedure.
- Y - The calibration verification for this analyte exceeded the 20% drift specified in methods 8260 & 8270, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.

Z -

ND - Not Detected at PQL
 PQL - Practical Quantitation Limit
 RPD - Relative Percent Difference



Chain of Custody

Company: <u>Crew Engineers</u> Project Number: <u>66940200</u> Project Name: <u>Go Tank</u> Project Manager: <u>Garnett League</u> Sampled by: <u>[Signature]</u>		Turnaround Request (in working days) (Check One) <input type="checkbox"/> Same Day <input type="checkbox"/> 1 Day <input type="checkbox"/> 2 Days <input type="checkbox"/> 3 Days <input checked="" type="checkbox"/> Standard (7 Days) <input type="checkbox"/> _____ (other)		Number of Containers	Laboratory Number: 03-233																						
						NWTPH-HCID	NWTPH-Gx/BTEX	NWTPH-Gx	NWTPH-Dx (<input type="checkbox"/> Acid / SG Clean-up)	Volatiles 8260D	Halogenated Volatiles 8260D	EDB EPA 8011 (Waters Only)	Semivolatiles 8270E/SIM (with low-level PAHs)	PAHs 8270E/SIM (low-level)	PCBs 8082A	Organochlorine Pesticides 8081B	Organophosphorus Pesticides 8270E/SIM	Chlorinated Acid Herbicides 8151A	Total RCRA Metals	Total MFGA Metals + Dissolved Metals	FGLP Metals - Dissolved Ca, K, Na	HEM (oil and grease) 1664A	Total & Diss. Mercury EPA 8151 / H1004	Alkalinity, Bicarb., Chloride, Nitrate, Sulfate, TDS	Ammonia SIM 4500 -NH4+	% Moisture	
Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix																							
1	MW2 <u>GW2-2220310</u>	3/18/22	1430	GW	18		/	/	/			/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
Signature		Company		Date	Time	Comments/Special Instructions																					
Relinquished		<u>[Signature]</u>				See Garnett's email for analyte list *As, Cd, Cr, Cu, Fe, Pb, Mn, Hg, Ni, Se, Zn, Mg																					
Received		<u>[Signature]</u>																									
Relinquished		<u>[Signature]</u>																									
Received		<u>[Signature]</u>																									
Relinquished		<u>[Signature]</u>																									
Received		<u>[Signature]</u>																									
Reviewed/Date		Reviewed/Date		Data Package: Standard <input type="checkbox"/> Level III <input type="checkbox"/> Level IV <input type="checkbox"/> Chromatograms with final report <input type="checkbox"/> Electronic Data Deliverables (EDDs) <input type="checkbox"/>																							



14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

April 4, 2022

Garrett Leque
GeoEngineers, Inc.
554 West Bakerview Road
Bellingham, WA 98226

Re: Analytical Data for Project 6694-002-05 T700
Laboratory Reference No. 2203-234

Dear Garrett:

Enclosed are the analytical results and associated quality control data for samples submitted on March 21, 2022.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

A handwritten signature in black ink, appearing to read "DB", with a horizontal line extending to the right.

David Baumeister
Project Manager

Enclosures



OnSite Environmental, Inc. 14648 NE 95th Street, Redmond, WA 98052 (425) 883-3881

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: April 4, 2022
Samples Submitted: March 21, 2022
Laboratory Reference: 2203-234
Project: 6694-002-05 T700

Case Narrative

Samples were collected on March 21, 2022 and received by the laboratory on March 21, 2022. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.



Date of Report: April 4, 2022
Samples Submitted: March 21, 2022
Laboratory Reference: 2203-234
Project: 6694-002-05 T700

ANALYTICAL REPORT FOR SAMPLES

Client ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
SWS-1-20220321	03-234-01	Water	3-21-22	3-21-22	

DRAFT



Date of Report: April 4, 2022
 Samples Submitted: March 21, 2022
 Laboratory Reference: 2203-234
 Project: 6694-002-05 T700

GASOLINE RANGE ORGANICS
NWTPH-Gx

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SWS-1-20220321					
Laboratory ID:	03-234-01					
Gasoline	ND	100	NWTPH-Gx	3-23-22	3-23-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	<i>87</i>	<i>66-117</i>				



Date of Report: April 4, 2022
 Samples Submitted: March 21, 2022
 Laboratory Reference: 2203-234
 Project: 6694-002-05 T700

**DIESEL AND HEAVY OIL RANGE ORGANICS
 NWTPH-Dx**

Matrix: Water
 Units: mg/L (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SWS-1-20220321					
Laboratory ID:	03-234-01					
Diesel Range Organics	ND	0.22	NWTPH-Dx	3-28-22	3-28-22	X1
Lube Oil Range Organics	ND	0.22	NWTPH-Dx	3-28-22	3-28-22	X1
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	97	50-150				



Date of Report: April 4, 2022
 Samples Submitted: March 21, 2022
 Laboratory Reference: 2203-234
 Project: 6694-002-05 T700

VOLATILE ORGANICS EPA 8260D
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SWS-1-20220321					
Laboratory ID:	03-234-01					
Dichlorodifluoromethane	ND	0.20	EPA 8260D	3-22-22	3-22-22	
Chloromethane	ND	1.0	EPA 8260D	3-22-22	3-22-22	
Vinyl Chloride	ND	0.20	EPA 8260D	3-22-22	3-22-22	
Bromomethane	ND	0.20	EPA 8260D	3-22-22	3-22-22	
Chloroethane	ND	1.0	EPA 8260D	3-22-22	3-22-22	
Trichlorofluoromethane	ND	0.20	EPA 8260D	3-22-22	3-22-22	
1,1-Dichloroethene	ND	0.20	EPA 8260D	3-22-22	3-22-22	
Acetone	ND	5.0	EPA 8260D	3-22-22	3-22-22	
Iodomethane	ND	1.6	EPA 8260D	3-22-22	3-22-22	
Carbon Disulfide	ND	0.20	EPA 8260D	3-22-22	3-22-22	
Methylene Chloride	ND	1.0	EPA 8260D	3-22-22	3-22-22	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	3-22-22	3-22-22	
Methyl t-Butyl Ether	ND	0.20	EPA 8260D	3-22-22	3-22-22	
1,1-Dichloroethane	ND	0.20	EPA 8260D	3-22-22	3-22-22	
Vinyl Acetate	ND	1.0	EPA 8260D	3-22-22	3-22-22	
2,2-Dichloropropane	ND	0.20	EPA 8260D	3-22-22	3-22-22	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	3-22-22	3-22-22	
2-Butanone	ND	5.0	EPA 8260D	3-22-22	3-22-22	
Bromochloromethane	ND	0.20	EPA 8260D	3-22-22	3-22-22	
Chloroform	ND	0.20	EPA 8260D	3-22-22	3-22-22	
1,1,1-Trichloroethane	ND	0.20	EPA 8260D	3-22-22	3-22-22	
Carbon Tetrachloride	ND	0.20	EPA 8260D	3-22-22	3-22-22	
1,1-Dichloropropene	ND	0.20	EPA 8260D	3-22-22	3-22-22	
Benzene	ND	0.20	EPA 8260D	3-22-22	3-22-22	
1,2-Dichloroethane	ND	0.20	EPA 8260D	3-22-22	3-22-22	
Trichloroethene	ND	0.20	EPA 8260D	3-22-22	3-22-22	
1,2-Dichloropropane	ND	0.20	EPA 8260D	3-22-22	3-22-22	
Dibromomethane	ND	0.20	EPA 8260D	3-22-22	3-22-22	
Bromodichloromethane	ND	0.20	EPA 8260D	3-22-22	3-22-22	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260D	3-22-22	3-22-22	
Methyl Isobutyl Ketone	ND	2.0	EPA 8260D	3-22-22	3-22-22	
Toluene	ND	1.0	EPA 8260D	3-22-22	3-22-22	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260D	3-22-22	3-22-22	



Date of Report: April 4, 2022
 Samples Submitted: March 21, 2022
 Laboratory Reference: 2203-234
 Project: 6694-002-05 T700

VOLATILE ORGANICS EPA 8260D
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SWS-1-20220321					
Laboratory ID:	03-234-01					
1,1,2-Trichloroethane	ND	0.20	EPA 8260D	3-22-22	3-22-22	
Tetrachloroethene	ND	0.20	EPA 8260D	3-22-22	3-22-22	
1,3-Dichloropropane	ND	0.20	EPA 8260D	3-22-22	3-22-22	
2-Hexanone	ND	2.0	EPA 8260D	3-22-22	3-22-22	
Dibromochloromethane	ND	0.20	EPA 8260D	3-22-22	3-22-22	
1,2-Dibromoethane	ND	0.20	EPA 8260D	3-22-22	3-22-22	
Chlorobenzene	ND	0.20	EPA 8260D	3-22-22	3-22-22	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260D	3-22-22	3-22-22	
Ethylbenzene	ND	0.20	EPA 8260D	3-22-22	3-22-22	
m,p-Xylene	ND	0.40	EPA 8260D	3-22-22	3-22-22	
o-Xylene	ND	0.20	EPA 8260D	3-22-22	3-22-22	
Styrene	ND	0.20	EPA 8260D	3-22-22	3-22-22	
Bromoform	ND	1.0	EPA 8260D	3-22-22	3-22-22	
Isopropylbenzene	ND	0.20	EPA 8260D	3-22-22	3-22-22	
Bromobenzene	ND	0.20	EPA 8260D	3-22-22	3-22-22	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260D	3-22-22	3-22-22	
1,2,3-Trichloropropane	ND	0.20	EPA 8260D	3-22-22	3-22-22	
n-Propylbenzene	ND	0.20	EPA 8260D	3-22-22	3-22-22	
2-Chlorotoluene	ND	0.20	EPA 8260D	3-22-22	3-22-22	
4-Chlorotoluene	ND	0.20	EPA 8260D	3-22-22	3-22-22	
1,3,5-Trimethylbenzene	ND	0.20	EPA 8260D	3-22-22	3-22-22	
tert-Butylbenzene	ND	0.20	EPA 8260D	3-22-22	3-22-22	
1,2,4-Trimethylbenzene	ND	0.20	EPA 8260D	3-22-22	3-22-22	
sec-Butylbenzene	ND	0.20	EPA 8260D	3-22-22	3-22-22	
1,3-Dichlorobenzene	ND	0.20	EPA 8260D	3-22-22	3-22-22	
p-Isopropyltoluene	ND	0.20	EPA 8260D	3-22-22	3-22-22	
1,4-Dichlorobenzene	ND	0.20	EPA 8260D	3-22-22	3-22-22	
1,2-Dichlorobenzene	ND	0.20	EPA 8260D	3-22-22	3-22-22	
n-Butylbenzene	ND	0.20	EPA 8260D	3-22-22	3-22-22	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260D	3-22-22	3-22-22	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260D	3-22-22	3-22-22	
Hexachlorobutadiene	ND	1.0	EPA 8260D	3-22-22	3-22-22	
Naphthalene	ND	1.0	EPA 8260D	3-22-22	3-22-22	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260D	3-22-22	3-22-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>97</i>	<i>75-127</i>				
<i>Toluene-d8</i>	<i>100</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>96</i>	<i>78-125</i>				



Date of Report: April 4, 2022
 Samples Submitted: March 21, 2022
 Laboratory Reference: 2203-234
 Project: 6694-002-05 T700

SEMIVOLATILE ORGANICS EPA 8270E/SIM
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SWS-1-20220321					
Laboratory ID:	03-234-01					
n-Nitrosodimethylamine	ND	1.0	EPA 8270E	3-24-22	3-24-22	
Pyridine	ND	1.0	EPA 8270E	3-24-22	3-24-22	
Phenol	ND	1.0	EPA 8270E	3-24-22	3-24-22	
Aniline	ND	5.2	EPA 8270E	3-24-22	3-24-22	
bis(2-Chloroethyl)ether	ND	1.0	EPA 8270E	3-24-22	3-24-22	
2-Chlorophenol	ND	1.0	EPA 8270E	3-24-22	3-24-22	
1,3-Dichlorobenzene	ND	1.0	EPA 8270E	3-24-22	3-24-22	
1,4-Dichlorobenzene	ND	1.0	EPA 8270E	3-24-22	3-24-22	
Benzyl alcohol	ND	1.0	EPA 8270E	3-24-22	3-24-22	
1,2-Dichlorobenzene	ND	1.0	EPA 8270E	3-24-22	3-24-22	
2-Methylphenol (o-Cresol)	ND	1.0	EPA 8270E	3-24-22	3-24-22	
bis(2-Chloroisopropyl)ether	ND	1.0	EPA 8270E	3-24-22	3-24-22	
(3+4)-Methylphenol (m,p-Cresol)	ND	1.0	EPA 8270E	3-24-22	3-24-22	
n-Nitroso-di-n-propylamine	ND	1.0	EPA 8270E	3-24-22	3-24-22	
Hexachloroethane	ND	1.0	EPA 8270E	3-24-22	3-24-22	
Nitrobenzene	ND	1.0	EPA 8270E	3-24-22	3-24-22	
Isophorone	ND	1.0	EPA 8270E	3-24-22	3-24-22	
2-Nitrophenol	ND	1.0	EPA 8270E	3-24-22	3-24-22	
2,4-Dimethylphenol	ND	1.0	EPA 8270E	3-24-22	3-24-22	
bis(2-Chloroethoxy)methane	ND	1.0	EPA 8270E	3-24-22	3-24-22	
2,4-Dichlorophenol	ND	1.0	EPA 8270E	3-24-22	3-24-22	
1,2,4-Trichlorobenzene	ND	1.0	EPA 8270E	3-24-22	3-24-22	
Naphthalene	ND	0.10	EPA 8270E/SIM	3-24-22	3-24-22	
4-Chloroaniline	ND	1.0	EPA 8270E	3-24-22	3-24-22	
Hexachlorobutadiene	ND	1.0	EPA 8270E	3-24-22	3-24-22	
4-Chloro-3-methylphenol	ND	1.0	EPA 8270E	3-24-22	3-24-22	
2-Methylnaphthalene	ND	0.10	EPA 8270E/SIM	3-24-22	3-24-22	
1-Methylnaphthalene	ND	0.10	EPA 8270E/SIM	3-24-22	3-24-22	
Hexachlorocyclopentadiene	ND	1.0	EPA 8270E	3-24-22	3-24-22	
2,4,6-Trichlorophenol	ND	1.0	EPA 8270E	3-24-22	3-24-22	
2,3-Dichloroaniline	ND	1.0	EPA 8270E	3-24-22	3-24-22	
2,4,5-Trichlorophenol	ND	1.0	EPA 8270E	3-24-22	3-24-22	
2-Chloronaphthalene	ND	1.0	EPA 8270E	3-24-22	3-24-22	
2-Nitroaniline	ND	1.0	EPA 8270E	3-24-22	3-24-22	
1,4-Dinitrobenzene	ND	1.0	EPA 8270E	3-24-22	3-24-22	
Dimethylphthalate	ND	5.2	EPA 8270E	3-24-22	3-24-22	
1,3-Dinitrobenzene	ND	1.0	EPA 8270E	3-24-22	3-24-22	
2,6-Dinitrotoluene	ND	1.0	EPA 8270E	3-24-22	3-24-22	
1,2-Dinitrobenzene	ND	1.0	EPA 8270E	3-24-22	3-24-22	
Acenaphthylene	ND	0.10	EPA 8270E/SIM	3-24-22	3-24-22	
3-Nitroaniline	ND	1.0	EPA 8270E	3-24-22	3-24-22	



Date of Report: April 4, 2022
 Samples Submitted: March 21, 2022
 Laboratory Reference: 2203-234
 Project: 6694-002-05 T700

SEMIVOLATILE ORGANICS EPA 8270E/SIM
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SWS-1-20220321					
Laboratory ID:	03-234-01					
2,4-Dinitrophenol	ND	5.2	EPA 8270E	3-24-22	3-24-22	
Acenaphthene	0.77	0.10	EPA 8270E/SIM	3-24-22	3-24-22	
4-Nitrophenol	ND	5.2	EPA 8270E	3-24-22	3-24-22	
2,4-Dinitrotoluene	ND	1.0	EPA 8270E	3-24-22	3-24-22	
Dibenzofuran	ND	1.0	EPA 8270E	3-24-22	3-24-22	
2,3,5,6-Tetrachlorophenol	ND	1.0	EPA 8270E	3-24-22	3-24-22	
2,3,4,6-Tetrachlorophenol	ND	1.0	EPA 8270E	3-24-22	3-24-22	
Diethylphthalate	ND	1.0	EPA 8270E	3-24-22	3-24-22	
4-Chlorophenyl-phenylether	ND	1.0	EPA 8270E	3-24-22	3-24-22	
4-Nitroaniline	ND	1.0	EPA 8270E	3-24-22	3-24-22	
Fluorene	0.21	0.10	EPA 8270E/SIM	3-24-22	3-24-22	
4,6-Dinitro-2-methylphenol	ND	5.2	EPA 8270E	3-24-22	3-24-22	
n-Nitrosodiphenylamine	ND	1.0	EPA 8270E	3-24-22	3-24-22	
1,2-Diphenylhydrazine	ND	1.0	EPA 8270E	3-24-22	3-24-22	
4-Bromophenyl-phenylether	ND	1.0	EPA 8270E	3-24-22	3-24-22	
Hexachlorobenzene	ND	1.0	EPA 8270E	3-24-22	3-24-22	
Pentachlorophenol	ND	5.2	EPA 8270E	3-24-22	3-24-22	
Phenanthrene	ND	0.10	EPA 8270E/SIM	3-24-22	3-24-22	
Anthracene	ND	0.10	EPA 8270E/SIM	3-24-22	3-24-22	
Carbazole	ND	1.0	EPA 8270E	3-24-22	3-24-22	
Di-n-butylphthalate	ND	5.2	EPA 8270E	3-24-22	3-24-22	
Fluoranthene	ND	0.10	EPA 8270E/SIM	3-24-22	3-24-22	
Pyrene	ND	0.10	EPA 8270E/SIM	3-24-22	3-24-22	
Butylbenzylphthalate	ND	1.0	EPA 8270E	3-24-22	3-24-22	
bis-2-Ethylhexyladipate	ND	5.2	EPA 8270E	3-24-22	3-24-22	
3,3'-Dichlorobenzidine	ND	1.0	EPA 8270E	3-24-22	3-24-22	
Benzo[a]anthracene	ND	0.010	EPA 8270E/SIM	3-24-22	3-24-22	
Chrysene	ND	0.010	EPA 8270E/SIM	3-24-22	3-24-22	
bis(2-Ethylhexyl)phthalate	ND	5.2	EPA 8270E	3-24-22	3-24-22	
Di-n-octylphthalate	ND	1.0	EPA 8270E	3-24-22	3-24-22	
Benzo[b]fluoranthene	ND	0.010	EPA 8270E/SIM	3-24-22	3-24-22	
Benzo(j,k)fluoranthene	ND	0.010	EPA 8270E/SIM	3-24-22	3-24-22	
Benzo[a]pyrene	ND	0.010	EPA 8270E/SIM	3-24-22	3-24-22	
Indeno[1,2,3-cd]pyrene	ND	0.010	EPA 8270E/SIM	3-24-22	3-24-22	
Dibenz[a,h]anthracene	ND	0.010	EPA 8270E/SIM	3-24-22	3-24-22	
Benzo[g,h,i]perylene	ND	0.010	EPA 8270E/SIM	3-24-22	3-24-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
2-Fluorophenol	45	10 - 82				
Phenol-d6	33	10 - 92				
Nitrobenzene-d5	73	32 - 105				
2-Fluorobiphenyl	75	38 - 105				
2,4,6-Tribromophenol	89	25 - 124				
Terphenyl-d14	78	42 - 116				



Date of Report: April 4, 2022
 Samples Submitted: March 21, 2022
 Laboratory Reference: 2203-234
 Project: 6694-002-05 T700

PCBs EPA 8082A

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SWS-1-20220321					
Laboratory ID:	03-234-01					
Aroclor 1016	ND	0.052	EPA 8082A	3-23-22	3-24-22	
Aroclor 1221	ND	0.052	EPA 8082A	3-23-22	3-24-22	
Aroclor 1232	ND	0.052	EPA 8082A	3-23-22	3-24-22	
Aroclor 1242	ND	0.052	EPA 8082A	3-23-22	3-24-22	
Aroclor 1248	ND	0.052	EPA 8082A	3-23-22	3-24-22	
Aroclor 1254	ND	0.052	EPA 8082A	3-23-22	3-24-22	
Aroclor 1260	ND	0.052	EPA 8082A	3-23-22	3-24-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>DCB</i>	87	42-140				



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 Laboratory Reference: 2203-234
 Project: 6694-002-05 T700

**ORGANOCHLORINE
 PESTICIDES EPA 8081B**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SWS-1-20220321					
Laboratory ID:	03-234-01					
alpha-BHC	ND	0.0052	EPA 8081B	3-23-22	3-23-22	
gamma-BHC (Lindane)	ND	0.0052	EPA 8081B	3-23-22	3-23-22	
beta-BHC	ND	0.0052	EPA 8081B	3-23-22	3-23-22	
delta-BHC	ND	0.0052	EPA 8081B	3-23-22	3-23-22	
Heptachlor	ND	0.0052	EPA 8081B	3-23-22	3-23-22	
Aldrin	ND	0.0021	EPA 8081B	3-23-22	3-23-22	
Heptachlor Epoxide	ND	0.0031	EPA 8081B	3-23-22	3-23-22	
gamma-Chlordane	ND	0.0052	EPA 8081B	3-23-22	3-23-22	
alpha-Chlordane	ND	0.0052	EPA 8081B	3-23-22	3-23-22	
4,4'-DDE	ND	0.0052	EPA 8081B	3-23-22	3-23-22	
Endosulfan I	ND	0.0052	EPA 8081B	3-23-22	3-23-22	
Dieldrin	ND	0.0052	EPA 8081B	3-23-22	3-23-22	
Endrin	ND	0.0052	EPA 8081B	3-23-22	3-23-22	
4,4'-DDD	ND	0.0052	EPA 8081B	3-23-22	3-23-22	
Endosulfan II	ND	0.0052	EPA 8081B	3-23-22	3-23-22	
4,4'-DDT	ND	0.0052	EPA 8081B	3-23-22	3-23-22	
Endrin Aldehyde	ND	0.0052	EPA 8081B	3-23-22	3-23-22	
Methoxychlor	ND	0.010	EPA 8081B	3-23-22	3-23-22	
Endosulfan Sulfate	ND	0.0052	EPA 8081B	3-23-22	3-23-22	
Endrin Ketone	ND	0.021	EPA 8081B	3-23-22	3-23-22	
Toxaphene	ND	0.052	EPA 8081B	3-23-22	3-23-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
TCMX	58	25-114				
DCB	87	30-137				



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TOTAL METALS
EPA 200.8/200.7/7470A

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SWS-1-20220321					
Laboratory ID:	03-234-01					
Arsenic	ND	3.3	EPA 200.8	3-23-22	3-23-22	
Cadmium	ND	4.4	EPA 200.8	3-23-22	3-23-22	
Chromium	12	11	EPA 200.8	3-23-22	3-23-22	
Copper	ND	11	EPA 200.8	3-23-22	3-23-22	
Iron	12000	50	EPA 200.7	3-23-22	3-23-22	
Lead	6.2	1.1	EPA 200.8	3-23-22	3-23-22	
Manganese	2000	10	EPA 200.7	3-23-22	3-23-22	
Mercury	ND	0.025	EPA 7470A	3-24-22	3-25-22	
Nickel	ND	22	EPA 200.8	3-23-22	3-23-22	
Selenium	ND	5.6	EPA 200.8	3-23-22	3-23-22	
Zinc	ND	28	EPA 200.8	3-23-22	3-23-22	



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**TOTAL DISSOLVED SOLIDS
 SM 2540C**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SWS-1-20220321					
Laboratory ID:	03-234-01					
Total Dissolved Solids	530	13	SM 2540C	3-24-22	3-25-22	



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AMMONIA (as Nitrogen)
SM 4500-NH₃ D

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SWS-1-20220321					
Laboratory ID:	03-234-01					
Ammonia	2.3	0.050	SM 4500-NH3 D	3-22-22	3-22-22	



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**TOTAL ORGANIC CARBON
SM 5310B**

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SWS-1-20220321					
Laboratory ID:	03-234-01					
Total Organic Carbon	13	1.0	SM 5310B	3-25-22	3-25-22	



Date of Report: April 4, 2022
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**GASOLINE RANGE ORGANICS
 NWTPH-Gx
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0323W1					
Gasoline	ND	100	NWTPH-Gx	3-23-22	3-23-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	87	66-117				

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	03-206-02							
	ORIG	DUP						
Gasoline	ND	ND	NA	NA	NA	NA	30	
<i>Surrogate:</i>								
<i>Fluorobenzene</i>				86	86	66-117		



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**DIESEL AND HEAVY OIL RANGE ORGANICS
 NWTPH-Dx
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0328W1					
Diesel Range Organics	ND	0.16	NWTPH-Dx	3-28-22	3-28-22	X1
Lube Oil Range Organics	ND	0.16	NWTPH-Dx	3-28-22	3-28-22	X1
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	110	50-150				

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	SB0328W1							
	ORIG	DUP		X1				
Diesel Fuel #2	0.545	0.516	NA	NA	X1	NA	5	NA X1
<i>Surrogate:</i>								
<i>o-Terphenyl</i>				119	115	50-150		



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**VOLATILE ORGANICS EPA 8260D
 QUALITY CONTROL**

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Matrix: Water

Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0322W1					
Dichlorodifluoromethane	ND	0.20	EPA 8260D	3-22-22	3-22-22	
Chloromethane	ND	1.0	EPA 8260D	3-22-22	3-22-22	
Vinyl Chloride	ND	0.20	EPA 8260D	3-22-22	3-22-22	
Bromomethane	ND	0.20	EPA 8260D	3-22-22	3-22-22	
Chloroethane	ND	1.0	EPA 8260D	3-22-22	3-22-22	
Trichlorofluoromethane	ND	0.20	EPA 8260D	3-22-22	3-22-22	
1,1-Dichloroethene	ND	0.20	EPA 8260D	3-22-22	3-22-22	
Acetone	ND	5.0	EPA 8260D	3-22-22	3-22-22	
Iodomethane	ND	1.6	EPA 8260D	3-22-22	3-22-22	
Carbon Disulfide	ND	0.20	EPA 8260D	3-22-22	3-22-22	
Methylene Chloride	ND	1.0	EPA 8260D	3-22-22	3-22-22	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	3-22-22	3-22-22	
Methyl t-Butyl Ether	ND	0.20	EPA 8260D	3-22-22	3-22-22	
1,1-Dichloroethane	ND	0.20	EPA 8260D	3-22-22	3-22-22	
Vinyl Acetate	ND	1.0	EPA 8260D	3-22-22	3-22-22	
2,2-Dichloropropane	ND	0.20	EPA 8260D	3-22-22	3-22-22	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	3-22-22	3-22-22	
2-Butanone	ND	5.0	EPA 8260D	3-22-22	3-22-22	
Bromochloromethane	ND	0.20	EPA 8260D	3-22-22	3-22-22	
Chloroform	ND	0.20	EPA 8260D	3-22-22	3-22-22	
1,1,1-Trichloroethane	ND	0.20	EPA 8260D	3-22-22	3-22-22	
Carbon Tetrachloride	ND	0.20	EPA 8260D	3-22-22	3-22-22	
1,1-Dichloropropene	ND	0.20	EPA 8260D	3-22-22	3-22-22	
Benzene	ND	0.20	EPA 8260D	3-22-22	3-22-22	
1,2-Dichloroethane	ND	0.20	EPA 8260D	3-22-22	3-22-22	
Trichloroethene	ND	0.20	EPA 8260D	3-22-22	3-22-22	
1,2-Dichloropropane	ND	0.20	EPA 8260D	3-22-22	3-22-22	
Dibromomethane	ND	0.20	EPA 8260D	3-22-22	3-22-22	
Bromodichloromethane	ND	0.20	EPA 8260D	3-22-22	3-22-22	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260D	3-22-22	3-22-22	
Methyl Isobutyl Ketone	ND	2.0	EPA 8260D	3-22-22	3-22-22	
Toluene	ND	1.0	EPA 8260D	3-22-22	3-22-22	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260D	3-22-22	3-22-22	



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**VOLATILE ORGANICS EPA 8260D
 QUALITY CONTROL**

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0322W1					
1,1,2-Trichloroethane	ND	0.20	EPA 8260D	3-22-22	3-22-22	
Tetrachloroethene	ND	0.20	EPA 8260D	3-22-22	3-22-22	
1,3-Dichloropropane	ND	0.20	EPA 8260D	3-22-22	3-22-22	
2-Hexanone	ND	2.0	EPA 8260D	3-22-22	3-22-22	
Dibromochloromethane	ND	0.20	EPA 8260D	3-22-22	3-22-22	
1,2-Dibromoethane	ND	0.20	EPA 8260D	3-22-22	3-22-22	
Chlorobenzene	ND	0.20	EPA 8260D	3-22-22	3-22-22	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260D	3-22-22	3-22-22	
Ethylbenzene	ND	0.20	EPA 8260D	3-22-22	3-22-22	
m,p-Xylene	ND	0.40	EPA 8260D	3-22-22	3-22-22	
o-Xylene	ND	0.20	EPA 8260D	3-22-22	3-22-22	
Styrene	ND	0.20	EPA 8260D	3-22-22	3-22-22	
Bromoform	ND	1.0	EPA 8260D	3-22-22	3-22-22	
Isopropylbenzene	ND	0.20	EPA 8260D	3-22-22	3-22-22	
Bromobenzene	ND	0.20	EPA 8260D	3-22-22	3-22-22	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260D	3-22-22	3-22-22	
1,2,3-Trichloropropane	ND	0.20	EPA 8260D	3-22-22	3-22-22	
n-Propylbenzene	ND	0.20	EPA 8260D	3-22-22	3-22-22	
2-Chlorotoluene	ND	0.20	EPA 8260D	3-22-22	3-22-22	
4-Chlorotoluene	ND	0.20	EPA 8260D	3-22-22	3-22-22	
1,3,5-Trimethylbenzene	ND	0.20	EPA 8260D	3-22-22	3-22-22	
tert-Butylbenzene	ND	0.20	EPA 8260D	3-22-22	3-22-22	
1,2,4-Trimethylbenzene	ND	0.20	EPA 8260D	3-22-22	3-22-22	
sec-Butylbenzene	ND	0.20	EPA 8260D	3-22-22	3-22-22	
1,3-Dichlorobenzene	ND	0.20	EPA 8260D	3-22-22	3-22-22	
p-Isopropyltoluene	ND	0.20	EPA 8260D	3-22-22	3-22-22	
1,4-Dichlorobenzene	ND	0.20	EPA 8260D	3-22-22	3-22-22	
1,2-Dichlorobenzene	ND	0.20	EPA 8260D	3-22-22	3-22-22	
n-Butylbenzene	ND	0.20	EPA 8260D	3-22-22	3-22-22	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260D	3-22-22	3-22-22	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260D	3-22-22	3-22-22	
Hexachlorobutadiene	ND	1.0	EPA 8260D	3-22-22	3-22-22	
Naphthalene	ND	1.0	EPA 8260D	3-22-22	3-22-22	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260D	3-22-22	3-22-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>98</i>	<i>75-127</i>				
<i>Toluene-d8</i>	<i>99</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>95</i>	<i>78-125</i>				



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**VOLATILE ORGANICS EPA 8260D
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD	RPD	Flags
					SB	SBD	Limits	RPD	Limit	
SPIKE BLANKS										
Laboratory ID:	SB0322W1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	11.8	11.4	10.0	10.0	118	114	78-125	3	19	
Benzene	11.2	10.9	10.0	10.0	112	109	80-119	3	16	
Trichloroethene	11.1	11.2	10.0	10.0	111	112	80-121	1	18	
Toluene	10.6	10.6	10.0	10.0	106	106	80-117	0	18	
Chlorobenzene	11.2	10.8	10.0	10.0	112	108	80-117	4	17	
<i>Surrogate:</i>										
Dibromofluoromethane					93	94	75-127			
Toluene-d8					99	99	80-127			
4-Bromofluorobenzene					95	95	78-125			



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**SEMIVOLATILE ORGANICS EPA 8270E/SIM
 QUALITY CONTROL**

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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0324W2					
n-Nitrosodimethylamine	ND	1.0	EPA 8270E	3-24-22	3-24-22	
Pyridine	ND	1.0	EPA 8270E	3-24-22	3-24-22	
Phenol	ND	1.0	EPA 8270E	3-24-22	3-24-22	
Aniline	ND	5.0	EPA 8270E	3-24-22	3-24-22	
bis(2-Chloroethyl)ether	ND	1.0	EPA 8270E	3-24-22	3-24-22	
2-Chlorophenol	ND	1.0	EPA 8270E	3-24-22	3-24-22	
1,3-Dichlorobenzene	ND	1.0	EPA 8270E	3-24-22	3-24-22	
1,4-Dichlorobenzene	ND	1.0	EPA 8270E	3-24-22	3-24-22	
Benzyl alcohol	ND	1.0	EPA 8270E	3-24-22	3-24-22	
1,2-Dichlorobenzene	ND	1.0	EPA 8270E	3-24-22	3-24-22	
2-Methylphenol (o-Cresol)	ND	1.0	EPA 8270E	3-24-22	3-24-22	
bis(2-Chloroisopropyl)ether	ND	1.0	EPA 8270E	3-24-22	3-24-22	
(3+4)-Methylphenol (m,p-Cresol)	ND	1.0	EPA 8270E	3-24-22	3-24-22	
n-Nitroso-di-n-propylamine	ND	1.0	EPA 8270E	3-24-22	3-24-22	
Hexachloroethane	ND	1.0	EPA 8270E	3-24-22	3-24-22	
Nitrobenzene	ND	1.0	EPA 8270E	3-24-22	3-24-22	
Isophorone	ND	1.0	EPA 8270E	3-24-22	3-24-22	
2-Nitrophenol	ND	1.0	EPA 8270E	3-24-22	3-24-22	
2,4-Dimethylphenol	ND	1.0	EPA 8270E	3-24-22	3-24-22	
bis(2-Chloroethoxy)methane	ND	1.0	EPA 8270E	3-24-22	3-24-22	
2,4-Dichlorophenol	ND	1.0	EPA 8270E	3-24-22	3-24-22	
1,2,4-Trichlorobenzene	ND	1.0	EPA 8270E	3-24-22	3-24-22	
Naphthalene	ND	0.10	EPA 8270E/SIM	3-24-22	3-24-22	
4-Chloroaniline	ND	1.0	EPA 8270E	3-24-22	3-24-22	
Hexachlorobutadiene	ND	1.0	EPA 8270E	3-24-22	3-24-22	
4-Chloro-3-methylphenol	ND	1.0	EPA 8270E	3-24-22	3-24-22	
2-Methylnaphthalene	ND	0.10	EPA 8270E/SIM	3-24-22	3-24-22	
1-Methylnaphthalene	ND	0.10	EPA 8270E/SIM	3-24-22	3-24-22	
Hexachlorocyclopentadiene	ND	1.0	EPA 8270E	3-24-22	3-24-22	
2,4,6-Trichlorophenol	ND	1.0	EPA 8270E	3-24-22	3-24-22	
2,3-Dichloroaniline	ND	1.0	EPA 8270E	3-24-22	3-24-22	
2,4,5-Trichlorophenol	ND	1.0	EPA 8270E	3-24-22	3-24-22	
2-Chloronaphthalene	ND	1.0	EPA 8270E	3-24-22	3-24-22	
2-Nitroaniline	ND	1.0	EPA 8270E	3-24-22	3-24-22	
1,4-Dinitrobenzene	ND	1.0	EPA 8270E	3-24-22	3-24-22	
Dimethylphthalate	ND	5.0	EPA 8270E	3-24-22	3-24-22	
1,3-Dinitrobenzene	ND	1.0	EPA 8270E	3-24-22	3-24-22	
2,6-Dinitrotoluene	ND	1.0	EPA 8270E	3-24-22	3-24-22	
1,2-Dinitrobenzene	ND	1.0	EPA 8270E	3-24-22	3-24-22	
Acenaphthylene	ND	0.10	EPA 8270E/SIM	3-24-22	3-24-22	
3-Nitroaniline	ND	1.0	EPA 8270E	3-24-22	3-24-22	



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**SEMIVOLATILE ORGANICS EPA 8270E/SIM
 QUALITY CONTROL**

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0324W2					
2,4-Dinitrophenol	ND	5.0	EPA 8270E	3-24-22	3-24-22	
Acenaphthene	ND	0.10	EPA 8270E/SIM	3-24-22	3-24-22	
4-Nitrophenol	ND	5.0	EPA 8270E	3-24-22	3-24-22	
2,4-Dinitrotoluene	ND	1.0	EPA 8270E	3-24-22	3-24-22	
Dibenzofuran	ND	1.0	EPA 8270E	3-24-22	3-24-22	
2,3,5,6-Tetrachlorophenol	ND	1.0	EPA 8270E	3-24-22	3-24-22	
2,3,4,6-Tetrachlorophenol	ND	1.0	EPA 8270E	3-24-22	3-24-22	
Diethylphthalate	ND	1.0	EPA 8270E	3-24-22	3-24-22	
4-Chlorophenyl-phenylether	ND	1.0	EPA 8270E	3-24-22	3-24-22	
4-Nitroaniline	ND	1.0	EPA 8270E	3-24-22	3-24-22	
Fluorene	ND	0.10	EPA 8270E/SIM	3-24-22	3-24-22	
4,6-Dinitro-2-methylphenol	ND	5.0	EPA 8270E	3-24-22	3-24-22	
n-Nitrosodiphenylamine	ND	1.0	EPA 8270E	3-24-22	3-24-22	
1,2-Diphenylhydrazine	ND	1.0	EPA 8270E	3-24-22	3-24-22	
4-Bromophenyl-phenylether	ND	1.0	EPA 8270E	3-24-22	3-24-22	
Hexachlorobenzene	ND	1.0	EPA 8270E	3-24-22	3-24-22	
Pentachlorophenol	ND	5.0	EPA 8270E	3-24-22	3-24-22	
Phenanthrene	ND	0.10	EPA 8270E/SIM	3-24-22	3-24-22	
Anthracene	ND	0.10	EPA 8270E/SIM	3-24-22	3-24-22	
Carbazole	ND	1.0	EPA 8270E	3-24-22	3-24-22	
Di-n-butylphthalate	ND	5.0	EPA 8270E	3-24-22	3-24-22	
Fluoranthene	ND	0.10	EPA 8270E/SIM	3-24-22	3-24-22	
Pyrene	ND	0.10	EPA 8270E/SIM	3-24-22	3-24-22	
Butylbenzylphthalate	ND	1.0	EPA 8270E	3-24-22	3-24-22	
bis-2-Ethylhexyladipate	ND	5.0	EPA 8270E	3-24-22	3-24-22	
3,3'-Dichlorobenzidine	ND	1.0	EPA 8270E	3-24-22	3-24-22	
Benzo[a]anthracene	ND	0.010	EPA 8270E/SIM	3-24-22	3-24-22	
Chrysene	ND	0.010	EPA 8270E/SIM	3-24-22	3-24-22	
bis(2-Ethylhexyl)phthalate	ND	5.0	EPA 8270E	3-24-22	3-24-22	
Di-n-octylphthalate	ND	1.0	EPA 8270E	3-24-22	3-24-22	
Benzo[b]fluoranthene	ND	0.010	EPA 8270E/SIM	3-24-22	3-24-22	
Benzo(j,k)fluoranthene	ND	0.010	EPA 8270E/SIM	3-24-22	3-24-22	
Benzo[a]pyrene	ND	0.010	EPA 8270E/SIM	3-24-22	3-24-22	
Indeno[1,2,3-cd]pyrene	ND	0.010	EPA 8270E/SIM	3-24-22	3-24-22	
Dibenz[a,h]anthracene	ND	0.010	EPA 8270E/SIM	3-24-22	3-24-22	
Benzo[g,h,i]perylene	ND	0.010	EPA 8270E/SIM	3-24-22	3-24-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
2-Fluorophenol	50	10 - 82				
Phenol-d6	38	10 - 92				
Nitrobenzene-d5	80	32 - 105				
2-Fluorobiphenyl	74	38 - 105				
2,4,6-Tribromophenol	94	25 - 124				
Terphenyl-d14	82	42 - 116				



OnSite Environmental, Inc. 14648 NE 95th Street, Redmond, WA 98052 (425) 883-3881

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: April 4, 2022
 Samples Submitted: March 21, 2022
 Laboratory Reference: 2203-234
 Project: 6694-002-05 T700

**SEMIVOLATILE ORGANICS EPA 8270E/SIM
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L

Analyte	Result		Spike Level		Source	Percent		Recovery	RPD	RPD	Flags
					Result	Recovery	Limits		Limit		
MATRIX SPIKES											
Laboratory ID:	03-268-01										
	MS	MSD	MS	MSD		MS	MSD				
Phenol	99.1	95.4	160	160	20.8	49	47	20 - 108	4	24	
2-Chlorophenol	96.9	93.4	160	160	ND	61	58	24 - 105	4	32	
1,4-Dichlorobenzene	41.7	42.3	80.0	80.0	ND	52	53	24 - 100	1	36	
n-Nitroso-di-n-propylamine	56.0	56.9	80.0	80.0	ND	70	71	21 - 143	2	30	
1,2,4-Trichlorobenzene	46.0	44.9	80.0	80.0	ND	58	56	34 - 105	2	34	
4-Chloro-3-methylphenol	107	102	160	160	ND	67	64	44 - 113	5	21	
Acenaphthene	59.5	58.6	80.0	80.0	ND	74	73	47 - 106	2	19	
4-Nitrophenol	120	111	160	160	ND	75	69	20 - 127	8	37	
2,4-Dinitrotoluene	54.4	51.5	80.0	80.0	ND	68	64	45 - 106	5	19	
Pentachlorophenol	127	121	160	160	ND	79	76	20 - 136	5	39	
Pyrene	60.9	57.6	80.0	80.0	ND	76	72	47 - 112	6	23	
<i>Surrogate:</i>											
2-Fluorophenol						52	50	10 - 82			
Phenol-d6						57	54	10 - 92			
Nitrobenzene-d5						67	61	32 - 105			
2-Fluorobiphenyl						68	65	38 - 105			
2,4,6-Tribromophenol						78	72	25 - 124			
Terphenyl-d14						66	61	42 - 116			



Date of Report: April 4, 2022
 Samples Submitted: March 21, 2022
 Laboratory Reference: 2203-234
 Project: 6694-002-05 T700

**PCBs EPA 8082A
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0323W1					
Aroclor 1016	ND	0.050	EPA 8082A	3-23-22	3-24-22	
Aroclor 1221	ND	0.050	EPA 8082A	3-23-22	3-24-22	
Aroclor 1232	ND	0.050	EPA 8082A	3-23-22	3-24-22	
Aroclor 1242	ND	0.050	EPA 8082A	3-23-22	3-24-22	
Aroclor 1248	ND	0.050	EPA 8082A	3-23-22	3-24-22	
Aroclor 1254	ND	0.050	EPA 8082A	3-23-22	3-24-22	
Aroclor 1260	ND	0.050	EPA 8082A	3-23-22	3-24-22	
Surrogate:	Percent Recovery	Control Limits				
DCB	86	42-140				

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS											
Laboratory ID:	SB0323W1										
	SB	SBD	SB	SBD		SB	SBD				
Aroclor 1260	0.495	0.442	0.500	0.500	N/A	99	88	73-131	11	12	
Surrogate:											
DCB						95	104	42-140			



Date of Report: April 4, 2022
 Samples Submitted: March 21, 2022
 Laboratory Reference: 2203-234
 Project: 6694-002-05 T700

**ORGANOCHLORINE
 PESTICIDES EPA 8081B
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0323W1					
alpha-BHC	ND	0.0050	EPA 8081B	3-23-22	3-23-22	
gamma-BHC (Lindane)	ND	0.0050	EPA 8081B	3-23-22	3-23-22	
beta-BHC	ND	0.0050	EPA 8081B	3-23-22	3-23-22	
delta-BHC	ND	0.0050	EPA 8081B	3-23-22	3-23-22	
Heptachlor	ND	0.0050	EPA 8081B	3-23-22	3-23-22	
Aldrin	ND	0.0020	EPA 8081B	3-23-22	3-23-22	
Heptachlor Epoxide	ND	0.0030	EPA 8081B	3-23-22	3-23-22	
gamma-Chlordane	ND	0.0050	EPA 8081B	3-23-22	3-23-22	
alpha-Chlordane	ND	0.0050	EPA 8081B	3-23-22	3-23-22	
4,4'-DDE	ND	0.0050	EPA 8081B	3-23-22	3-23-22	
Endosulfan I	ND	0.0050	EPA 8081B	3-23-22	3-23-22	
Dieldrin	ND	0.0050	EPA 8081B	3-23-22	3-23-22	
Endrin	ND	0.0050	EPA 8081B	3-23-22	3-23-22	
4,4'-DDD	ND	0.0050	EPA 8081B	3-23-22	3-23-22	
Endosulfan II	ND	0.0050	EPA 8081B	3-23-22	3-23-22	
4,4'-DDT	ND	0.0050	EPA 8081B	3-23-22	3-23-22	
Endrin Aldehyde	ND	0.0050	EPA 8081B	3-23-22	3-23-22	
Methoxychlor	ND	0.010	EPA 8081B	3-23-22	3-23-22	
Endosulfan Sulfate	ND	0.0050	EPA 8081B	3-23-22	3-23-22	
Endrin Ketone	ND	0.020	EPA 8081B	3-23-22	3-23-22	
Toxaphene	ND	0.050	EPA 8081B	3-23-22	3-23-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
TCMX	63	25-114				
DCB	85	30-137				



Date of Report: April 4, 2022
 Samples Submitted: March 21, 2022
 Laboratory Reference: 2203-234
 Project: 6694-002-05 T700

**ORGANOCHLORINE
 PESTICIDES EPA 8081B
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS											
Laboratory ID:	SB0323W2										
	SB	SBD	SB	SBD		SB	SBD				
alpha-BHC	0.0878	0.0928	0.100	0.100	N/A	88	93	42-113	6	19	
gamma-BHC (Lindane)	0.0871	0.0918	0.100	0.100	N/A	87	92	45-114	5	15	
beta-BHC	0.0871	0.0845	0.100	0.100	N/A	87	84	40-118	3	15	
delta-BHC	0.0912	0.0934	0.100	0.100	N/A	91	93	20-125	2	15	
Heptachlor	0.0814	0.0833	0.100	0.100	N/A	81	83	41-120	2	16	
Aldrin	0.0878	0.0886	0.100	0.100	N/A	88	89	35-115	1	15	
Heptachlor Epoxide	0.0839	0.0850	0.100	0.100	N/A	84	85	50-118	1	15	
gamma-Chlordane	0.0860	0.0864	0.100	0.100	N/A	86	86	46-110	0	15	
alpha-Chlordane	0.0854	0.0849	0.100	0.100	N/A	85	85	38-112	1	15	
4,4'-DDE	0.0944	0.0888	0.100	0.100	N/A	94	89	41-127	6	15	
Endosulfan I	0.0932	0.0942	0.100	0.100	N/A	93	94	45-119	1	15	
Dieldrin	0.0930	0.0911	0.100	0.100	N/A	93	91	46-115	2	15	
Endrin	0.105	0.104	0.100	0.100	N/A	105	104	52-124	1	15	
4,4'-DDD	0.0948	0.0926	0.100	0.100	N/A	95	93	52-121	2	15	
Endosulfan II	0.0879	0.0883	0.100	0.100	N/A	88	88	44-114	0	15	
4,4'-DDT	0.100	0.0951	0.100	0.100	N/A	100	95	48-123	5	15	
Endrin Aldehyde	0.0884	0.0827	0.100	0.100	N/A	88	83	45-114	7	15	
Methoxychlor	0.0823	0.0756	0.100	0.100	N/A	82	76	49-130	8	15	
Endosulfan Sulfate	0.0878	0.0870	0.100	0.100	N/A	88	87	39-117	1	15	
Endrin Ketone	0.0830	0.0778	0.100	0.100	N/A	83	78	53-119	6	15	
Surrogate:											
TCMX						72	75	25-114			
DCB						99	98	30-137			



Date of Report: April 4, 2022
 Samples Submitted: March 21, 2022
 Laboratory Reference: 2203-234
 Project: 6694-002-05 T700

TOTAL METALS
EPA 200.8/200.7/7470A
QUALITY CONTROL

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0323WH1					
Iron	ND	50	EPA 200.7	3-23-22	3-23-22	
Manganese	ND	10	EPA 200.7	3-23-22	3-23-22	
METHOD BLANK						
Laboratory ID:	MB0323WM1					
Arsenic	ND	3.3	EPA 200.8	3-23-22	3-23-22	
Cadmium	ND	4.4	EPA 200.8	3-23-22	3-23-22	
Chromium	ND	11	EPA 200.8	3-23-22	3-23-22	
Copper	ND	11	EPA 200.8	3-23-22	3-23-22	
Lead	ND	1.1	EPA 200.8	3-23-22	3-23-22	
Nickel	ND	22	EPA 200.8	3-23-22	3-23-22	
Selenium	ND	5.6	EPA 200.8	3-23-22	3-23-22	
Zinc	ND	28	EPA 200.8	3-23-22	3-23-22	
METHOD BLANK						
Laboratory ID:	MB0324W1					
Mercury	ND	0.025	EPA 7470A	3-24-22	3-24-22	



Date of Report: April 4, 2022
 Samples Submitted: March 21, 2022
 Laboratory Reference: 2203-234
 Project: 6694-002-05 T700

TOTAL METALS
EPA 200.8/200.7/7470A
QUALITY CONTROL

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result		Spike Level		Source	Percent	Recovery	RPD		Flags
					Result	Recovery	Limits	RPD	Limit	
DUPLICATE										
Laboratory ID:	03-161-05									
	ORIG	DUP								
Iron	1430	1420	NA	NA		NA	NA	1	20	
Manganese	278	270	NA	NA		NA	NA	3	20	
Laboratory ID:	03-161-07									
Arsenic	ND	ND	NA	NA		NA	NA	NA	20	
Cadmium	ND	ND	NA	NA		NA	NA	NA	20	
Chromium	ND	ND	NA	NA		NA	NA	NA	20	
Copper	ND	ND	NA	NA		NA	NA	NA	20	
Lead	ND	ND	NA	NA		NA	NA	NA	20	
Nickel	ND	ND	NA	NA		NA	NA	NA	20	
Selenium	ND	ND	NA	NA		NA	NA	NA	20	
Zinc	ND	ND	NA	NA		NA	NA	NA	20	
Laboratory ID:	03-257-01									
Mercury	ND	ND	NA	NA		NA	NA	NA	20	
MATRIX SPIKES										
Laboratory ID:	03-161-05									
	MS	MSD	MS	MSD		MS	MSD			
Iron	24800	24700	22200	22200	1430	105	105	75-125	0	20
Manganese	903	880	556	556	278	113	108	75-125	3	20
Laboratory ID:	03-161-07									
Arsenic	113	106	111	111	ND	102	96	75-125	6	20
Cadmium	104	102	111	111	ND	94	92	75-125	3	20
Chromium	104	99.1	111	111	ND	94	89	75-125	5	20
Copper	101	96.4	111	111	ND	91	87	75-125	5	20
Lead	110	105	111	111	ND	99	94	75-125	5	20
Nickel	101	95.6	111	111	ND	91	86	75-125	5	20
Selenium	115	110	111	111	ND	103	99	75-125	4	20
Zinc	119	114	111	111	13.3	95	91	75-125	4	20
Laboratory ID:	03-257-01									
Mercury	6.13	6.13	6.25	6.25	ND	98	98	75-125	0	20



Date of Report: April 4, 2022
 Samples Submitted: March 21, 2022
 Laboratory Reference: 2203-234
 Project: 6694-002-05 T700

**TOTAL DISSOLVED SOLIDS
 SM 2540C
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0324W1					
Total Dissolved Solids	ND	13	SM 2540C	3-24-22	3-25-22	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	03-234-01							
	ORIG	DUP						
Total Dissolved Solids	528	528	NA	NA	NA	0	29	

SPIKE BLANK								
Laboratory ID:	SB0324W1							
	SB	SB		SB				
Total Dissolved Solids	484	500	NA	97	84-110	NA	NA	



Date of Report: April 4, 2022
 Samples Submitted: March 21, 2022
 Laboratory Reference: 2203-234
 Project: 6694-002-05 T700

**AMMONIA (as Nitrogen)
 SM 4500-NH₃ D
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0322W1					
Ammonia	ND	0.050	SM 4500-NH3 D	3-22-22	3-22-22	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	03-222-02							
	ORIG	DUP						
Ammonia	ND	ND	NA	NA	NA	NA	19	

MATRIX SPIKE								
Laboratory ID:	03-222-02							
	MS	MS		MS				
Ammonia	4.95	5.00	ND	99	80-113	NA	NA	

SPIKE BLANK								
Laboratory ID:	SB0322W1							
	SB	SB		SB				
Ammonia	4.97	5.00	NA	99	88-110	NA	NA	



Date of Report: April 4, 2022
 Samples Submitted: March 21, 2022
 Laboratory Reference: 2203-234
 Project: 6694-002-05 T700

**TOTAL ORGANIC CARBON
 SM 5310B
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0325W1					
Total Organic Carbon	ND	1.0	SM 5310B	3-25-22	3-25-22	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	03-267-01							
	ORIG	DUP						
Total Organic Carbon	8.32	9.26	NA	NA	NA	11	12	

MATRIX SPIKE								
Laboratory ID:	03-267-01							
	MS	MS		MS				
Total Organic Carbon	19.9	10.0	8.32	116	80-125	NA	NA	

SPIKE BLANK								
Laboratory ID:	SB0325W1							
	SB	SB		SB				
Total Organic Carbon	11.6	10.0	NA	116	80-119	NA	NA	





Data Qualifiers and Abbreviations

- A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.
 - B - The analyte indicated was also found in the blank sample.
 - C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.
 - E - The value reported exceeds the quantitation range and is an estimate.
 - F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.
 - H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.
 - I - Compound recovery is outside of the control limits.
 - J - The value reported was below the practical quantitation limit. The value is an estimate.
 - K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.
 - L - The RPD is outside of the control limits.
 - M - Hydrocarbons in the gasoline range are impacting the diesel range result.
 - M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.
 - N - Hydrocarbons in the lube oil range are impacting the diesel range result.
 - N1 - Hydrocarbons in diesel range are impacting lube oil range results.
 - O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.
 - P - The RPD of the detected concentrations between the two columns is greater than 40.
 - Q - Surrogate recovery is outside of the control limits.
 - S - Surrogate recovery data is not available due to the necessary dilution of the sample.
 - T - The sample chromatogram is not similar to a typical _____.
 - U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
 - U1 - The practical quantitation limit is elevated due to interferences present in the sample.
 - V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.
 - W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.
 - X - Sample extract treated with a mercury cleanup procedure.
 - X1 - Sample extract treated with a sulfuric acid/silica gel cleanup procedure.
 - Y - The calibration verification for this analyte exceeded the 20% drift specified in methods 8260 & 8270, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.
 - Z -
- ND - Not Detected at PQL
 PQL - Practical Quantitation Limit
 RPD - Relative Percent Difference





OnSite Environmental Inc

David Baumeister
14648 NE 95th Street
Redmond, WA 98052

RE: 03-234

Work Order Number: 2203531

April 01, 2022

Attention David Baumeister:

Fremont Analytical, Inc. received 1 sample(s) on 3/22/2022 for the analyses presented in the following report.

Herbicides by EPA Method 8151A (GC/MS)

This report consists of the following:

- Case Narrative
- Analytical Results
- Applicable Quality Control Summary Reports
- Chain of Custody

All analyses were performed consistent with the Quality Assurance program of Fremont Analytical, Inc. Please contact the laboratory if you should have any questions about the results.

Thank you for using Fremont Analytical.

Sincerely,

Brianna Barnes
Project Manager

CLIENT: OnSite Environmental Inc
Project: 03-234
Work Order: 2203531

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received
2203531-001	SWS-1-20220321	03/21/2022 11:30 AM	03/22/2022 12:43 PM

DRAFT

Note: If no "Time Collected" is supplied, a default of 12:00AM is assigned

CLIENT: OnSite Environmental Inc
Project: 03-234

I. SAMPLE RECEIPT:

Samples receipt information is recorded on the attached Sample Receipt Checklist.

II. GENERAL REPORTING COMMENTS:

Results are reported on a wet weight basis unless dry-weight correction is denoted in the units field on the analytical report ("mg/kg-dry" or "ug/kg-dry").

Matrix Spike (MS) and MS Duplicate (MSD) samples are tested from an analytical batch of "like" matrix to check for possible matrix effect. The MS and MSD will provide site specific matrix data only for those samples which are spiked by the laboratory. The sample chosen for spike purposes may or may not have been a sample submitted in this sample delivery group. The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The LCS and the MB are processed with the samples and the MS/MSD to ensure method criteria are achieved throughout the entire analytical process.

III. ANALYSES AND EXCEPTIONS:

Exceptions associated with this report will be footnoted in the analytical results page(s) or the quality control summary page(s) and/or noted below.

DRAFT

Qualifiers:

- * - Flagged value is not within established control limits
- B - Analyte detected in the associated Method Blank
- D - Dilution was required
- E - Value above quantitation range
- H - Holding times for preparation or analysis exceeded
- I - Analyte with an internal standard that does not meet established acceptance criteria
- J - Analyte detected below Reporting Limit
- N - Tentatively Identified Compound (TIC)
- Q - Analyte with an initial or continuing calibration that does not meet established acceptance criteria
- S - Spike recovery outside accepted recovery limits
- ND - Not detected at the Reporting Limit
- R - High relative percent difference observed

Acronyms:

- %Rec - Percent Recovery
- CCB - Continued Calibration Blank
- CCV - Continued Calibration Verification
- DF - Dilution Factor
- DUP - Sample Duplicate
- HEM - Hexane Extractable Material
- ICV - Initial Calibration Verification
- LCS/LCSD - Laboratory Control Sample / Laboratory Control Sample Duplicate
- MCL - Maximum Contaminant Level
- MB or MBLANK - Method Blank
- MDL - Method Detection Limit
- MS/MSD - Matrix Spike / Matrix Spike Duplicate
- PDS - Post Digestion Spike
- Ref Val - Reference Value
- REP - Sample Replicate
- RL - Reporting Limit
- RPD - Relative Percent Difference
- SD - Serial Dilution
- SGT - Silica Gel Treatment
- SPK - Spike
- Surr - Surrogate



Client: OnSite Environmental Inc

Collection Date: 3/21/2022 11:30:00 AM

Project: 03-234

Lab ID: 2203531-001

Matrix: Water

Client Sample ID: SWS-1-20220321

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Herbicides by EPA Method 8151A (GC/MS)

Batch ID: 35867

Analyst: SB

Dicamba	ND	0.998		µg/L	1	3/28/2022 9:31:03 PM
2,4-D	ND	0.998		µg/L	1	3/28/2022 9:31:03 PM
2,4-DP	ND	0.998		µg/L	1	3/28/2022 9:31:03 PM
2,4,5-TP (Silvex)	ND	0.998		µg/L	1	3/28/2022 9:31:03 PM
2,4,5-T	ND	0.998		µg/L	1	3/28/2022 9:31:03 PM
Dinoseb	ND	0.998		µg/L	1	3/28/2022 9:31:03 PM
Dalapon	ND	2.00		µg/L	1	3/28/2022 9:31:03 PM
2,4-DB	ND	0.998		µg/L	1	3/28/2022 9:31:03 PM
MCPP	ND	4.99		µg/L	1	3/28/2022 9:31:03 PM
MCPA	ND	4.99		µg/L	1	3/28/2022 9:31:03 PM
Picloram	ND	0.998		µg/L	1	3/28/2022 9:31:03 PM
Bentazon	ND	0.998		µg/L	1	3/28/2022 9:31:03 PM
Chloramben	ND	0.998		µg/L	1	3/28/2022 9:31:03 PM
Acifluorfen	ND	4.99		µg/L	1	3/28/2022 9:31:03 PM
3,5-Dichlorobenzoic acid	ND	0.998		µg/L	1	3/28/2022 9:31:03 PM
4-Nitrophenol	ND	0.998		µg/L	1	3/28/2022 9:31:03 PM
Dacthal (DCPA)	ND	2.00		µg/L	1	3/28/2022 9:31:03 PM
Surr: 2,4-Dichlorophenylacetic acid	111	65.7 - 136		%Rec	1	3/28/2022 9:31:03 PM

Work Order: 2203531
 CLIENT: OnSite Environmental Inc
 Project: 03-234

QC SUMMARY REPORT
Herbicides by EPA Method 8151A (GC/MS)

Sample ID: MB-35867	SampType: MBLK	Units: µg/L	Prep Date: 3/24/2022	RunNo: 74377							
Client ID: MBLKW	Batch ID: 35867		Analysis Date: 3/28/2022	SeqNo: 1525407							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Dicamba	ND	1.00									
2,4-D	ND	1.00									
2,4-DP	ND	1.00									
2,4,5-TP (Silvex)	ND	1.00									
2,4,5-T	ND	1.00									
Dinoseb	ND	1.00									
Dalapon	ND	2.00									
2,4-DB	ND	1.00									
MCPD	ND	5.00									
MCPA	ND	5.00									
Picloram	ND	1.00									
Bentazon	ND	1.00									
Chloramben	ND	1.00									
Acifluorfen	ND	5.00									
3,5-Dichlorobenzoic acid	ND	1.00									
4-Nitrophenol	ND	1.00									
Dacthal (DCPA)	ND	2.00									
Surr: 2,4-Dichlorophenylacetic acid	16.7		20.00		83.6	65.7	136				

Sample ID: LCS-35867	SampType: LCS	Units: µg/L	Prep Date: 3/24/2022	RunNo: 74377							
Client ID: LCSW	Batch ID: 35867		Analysis Date: 3/28/2022	SeqNo: 1525408							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Dicamba	3.99	1.00	4.000	0	99.8	16.6	148				
2,4-D	3.98	1.00	4.000	0	99.5	50.4	150				
2,4-DP	3.67	1.00	4.000	0	91.7	53	135				
2,4,5-TP (Silvex)	3.87	1.00	4.000	0	96.9	53.6	140				
2,4,5-T	3.76	1.00	4.000	0	94.0	50	141				
Dinoseb	2.32	1.00	4.000	0	58.0	5	119				
Dalapon	15.1	2.00	20.00	0	75.5	5.65	97.2				

Work Order: 2203531
 CLIENT: OnSite Environmental Inc
 Project: 03-234

QC SUMMARY REPORT
Herbicides by EPA Method 8151A (GC/MS)

Sample ID: LCS-35867	SampType: LCS	Units: µg/L				Prep Date: 3/24/2022	RunNo: 74377				
Client ID: LCSW	Batch ID: 35867					Analysis Date: 3/28/2022	SeqNo: 1525408				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
2,4-DB	3.64	1.00	4.000	0	91.0	54.9	141				
MCPPP	19.7	5.00	20.00	0	98.3	28.7	166				
MCPA	19.7	5.00	20.00	0	98.4	20.7	176				
Picloram	2.34	1.00	4.000	0	58.4	9.72	120				
Bentazon	3.43	1.00	4.000	0	85.8	41.2	141				
Chloramben	2.14	1.00	4.000	0	53.5	5	109				
Acifluorfen	2.00	5.00	4.000	0	50.0	7.62	139				
3,5-Dichlorobenzoic acid	3.73	1.00	4.000	0	93.1	52.4	120				
4-Nitrophenol	2.65	1.00	4.000	0	66.1	5	107				
Dacthal (DCPA)	1.80	2.00	4.000	0	45.0	5	65.4				
Surr: 2,4-Dichlorophenylacetic acid	20.7		20.00		104	65.7	136				

Sample ID: 2203531-001AMS	SampType: MS	Units: µg/L				Prep Date: 3/24/2022	RunNo: 74377				
Client ID: SWS-1-20220321	Batch ID: 35867					Analysis Date: 3/28/2022	SeqNo: 1525411				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dicamba	4.28	1.10	4.392	0	97.4	31	142				
2,4-D	4.47	1.10	4.392	0	102	50.3	149				
2,4-DP	3.95	1.10	4.392	0	89.9	49.9	143				
2,4,5-TP (Silvex)	4.36	1.10	4.392	0	99.4	47.7	141				
2,4,5-T	4.34	1.10	4.392	0	98.9	34.4	139				
Dinoseb	3.42	1.10	4.392	0	78.0	27.3	117				
Dalapon	15.9	2.20	21.96	0	72.6	14.2	113				
2,4-DB	4.13	1.10	4.392	0	94.1	31.3	147				
MCPPP	20.8	5.49	21.96	0	94.7	30.5	177				
MCPA	20.6	5.49	21.96	0	93.9	36.8	163				
Picloram	3.29	1.10	4.392	0	74.9	18.8	115				
Bentazon	4.07	1.10	4.392	0	92.7	11.9	176				
Chloramben	2.91	1.10	4.392	0	66.2	5	112				
Acifluorfen	3.07	5.49	4.392	0	70.0	28.1	146				

Work Order: 2203531
 CLIENT: OnSite Environmental Inc
 Project: 03-234

QC SUMMARY REPORT
Herbicides by EPA Method 8151A (GC/MS)

Sample ID: 2203531-001AMS	SampType: MS	Units: µg/L	Prep Date: 3/24/2022	RunNo: 74377							
Client ID: SWS-1-20220321	Batch ID: 35867		Analysis Date: 3/28/2022	SeqNo: 1525411							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

3,5-Dichlorobenzoic acid	4.03	1.10	4.392	0	91.8	36.2	146				
4-Nitrophenol	2.05	1.10	4.392	0	46.6	5	116				
Dacthal (DCPA)	1.74	2.20	4.392	0	39.6	5	84.6				
Surr: 2,4-Dichlorophenylacetic acid	23.1		21.96		105	65.7	136				

Sample ID: 2203578-001ADUP	SampType: DUP	Units: µg/L	Prep Date: 3/24/2022	RunNo: 74377							
Client ID: BATCH	Batch ID: 35867		Analysis Date: 3/28/2022	SeqNo: 1525414							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Dicamba	ND	0.992						0		50	
2,4-D	ND	0.992						0		50	
2,4-DP	ND	0.992						0		50	
2,4,5-TP (Silvex)	ND	0.992						0		50	
2,4,5-T	ND	0.992						0		50	
Dinoseb	ND	0.992						0		50	
Dalapon	ND	1.98						0		50	
2,4-DB	ND	0.992						0		50	
MCPP	ND	4.96						0		50	
MCPA	ND	4.96						0		50	
Picloram	ND	0.992						0		50	
Bentazon	ND	0.992						0		50	
Chloramben	ND	0.992						0		50	
Acifluorfen	ND	4.96						0		50	
3,5-Dichlorobenzoic acid	ND	0.992						0		50	
4-Nitrophenol	ND	0.992						0		50	
Dacthal (DCPA)	ND	1.98						0		50	
Surr: 2,4-Dichlorophenylacetic acid	21.4		19.84		108	65.7	136		0		

Client Name: **ONSITE**
 Logged by: **Elisabeth Samoray**

Work Order Number: **2203531**
 Date Received: **3/22/2022 12:43:00 PM**

Chain of Custody

1. Is Chain of Custody complete? Yes No Not Present
 2. How was the sample delivered? Client

Log In

3. Coolers are present? Yes No NA
 4. Shipping container/cooler in good condition? Yes No
 5. Custody Seals present on shipping container/cooler?
 (Refer to comments for Custody Seals not intact) Yes No Not Present
 6. Was an attempt made to cool the samples? Yes No NA
 7. Were all items received at a temperature of >2°C to 6°C * Yes No NA
 8. Sample(s) in proper container(s)? Yes No
 9. Sufficient sample volume for indicated test(s)? Yes No
 10. Are samples properly preserved? Yes No
 11. Was preservative added to bottles? Yes No NA
 12. Is there headspace in the VOA vials? Yes No NA
 13. Did all samples containers arrive in good condition(unbroken)? Yes No
 14. Does paperwork match bottle labels? Yes No
 15. Are matrices correctly identified on Chain of Custody? Yes No
 16. Is it clear what analyses were requested? Yes No
 17. Were all holding times able to be met? Yes No

Special Handling (if applicable)

18. Was client notified of all discrepancies with this order? Yes No NA

Person Notified:	<input type="text"/>	Date:	<input type="text"/>
By Whom:	<input type="text"/>	Via:	<input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:	<input type="text"/>		
Client Instructions:	<input type="text"/>		

19. Additional remarks:

Item Information

Item #	Temp °C
Sample 1	4.7

* Note: DoD/ELAP and TNI require items to be received at 4°C +/- 2°C



14648 NE 95th Street, Redmond, WA 98052 · (425) 883-3881

Laboratory: Fremont Analytical

Attention: Chelsea Ward

3600 Fremont Avenue N, Seattle, WA 98103

Phone Number: (206) 352-3790

Turnaround Request

1 Day 2 Day 3 Day

Standard

Other: _____

2203531

Laboratory Reference #: 03-234

Project Manager: David Baumeister

email: dbaumeister@onsite-env.com

Project Number: 6694-002-05

Project Name: _____

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	# of Cont.	Requested Analyses
	SWS-1-20220321	3/21/22	11:30	w	1	Chlorinated Acid Herbicides 8151A
Signature		Company		Date	Time	Comments/Special Instructions
Relinquished by:		OSE		3/22/22	11:10	
Received by:		alpha		3/22/22	11:00	
Relinquished by:		alpha		3/22/22	12:30	
Received by:		FAE		3/22/22	12:43	
Relinquished by:						
Received by:						

EDDs

Chain of Custody

Company: UEI Project Number: 6694-002-05 Project Name: U10-East Project Manager: Griffith Lopez Sampled by: Woodrow D. Stokstad			Turnaround Request (in working days) (Check One) <input type="checkbox"/> Same Day <input type="checkbox"/> 1 Day <input type="checkbox"/> 2 Days <input type="checkbox"/> 3 Days <input checked="" type="checkbox"/> Standard (7 Days) <input type="checkbox"/> _____ (other)			Laboratory Number: 03-234																		
Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX	NWTPH-Gx	NWTPH-Dx (Acid / SG Clean-up)	Volatiles 8260D	Halogenated Volatiles 8260D	EDB EPA 8011 (Waters Only)	Semivolatiles 8270E/SIM (with low-level PAHs)	PAHs 8270E/SIM (low-level)	PCBs 8082A	Organochlorine Pesticides 8081B	Organophosphorus Pesticides 8270E/SIM	Chlorinated Acid Herbicides 8151A	Total Metals*	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664A	% Moisture	
1	SLDS-1-20220321	3/21/22	3:16	Water	4			X	X	X			X		X	X		X	X				X	

Signature	Company	Date	Time	Comments/Special Instructions
<i>[Signature]</i>	UEI	3/21/22	1215	* Total Metals: As, Cd, Cr, Cu, Fe, Pb, Mn, Hg, Ni, Se, Zn - No Mg
<i>[Signature]</i>	ACPITA	3/21/22	1345	
<i>[Signature]</i>	ACPITA	3/21/22	1510	
<i>[Signature]</i>	OBE	3/21/22	1510	
Relinquished				Data Package: Standard <input type="checkbox"/> Level III <input type="checkbox"/> Level IV <input type="checkbox"/>
Received				
Reviewed/Date	Reviewed/Date	Chromatograms with final report <input type="checkbox"/> Electronic Data Deliverables (EDDs) <input type="checkbox"/>		



14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

April 5, 2022

Garrett Leque
GeoEngineers, Inc.
554 West Bakerview Road
Bellingham, WA 98226

Re: Analytical Data for Project 6694-002-05
Laboratory Reference No. 2203-257

Dear Garrett:

Enclosed are the analytical results and associated quality control data for samples submitted on March 23, 2022.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

A handwritten signature in black ink, appearing to read "DB", with a horizontal line extending to the right.

David Baumeister
Project Manager

Enclosures



OnSite Environmental, Inc. 14648 NE 95th Street, Redmond, WA 98052 (425) 883-3881

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: April 5, 2022
Samples Submitted: March 23, 2022
Laboratory Reference: 2203-257
Project: 6694-002-05

Case Narrative

Samples were collected on March 22, 2022 and received by the laboratory on March 23, 2022. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

Nitrate EPA 353.2 Analysis

The reported Nitrate results are a calculated value based on the subtraction of Nitrite from the Nitrate plus Nitrite result. The Nitrite analysis, which has a 48-hour holding time, was performed within the holding time. Immediately after this analysis, an aliquot of each sample was preserved with concentrated sulfuric acid and stored at 4 degrees C. The preserved samples were then analyzed within the maximum 28-day holding time for the Nitrate plus Nitrite analysis.

Any other QA/QC issues associated with this extraction and analysis will be indicated with a footnote reference and discussed in detail on the Data Qualifier page.



Date of Report: April 5, 2022
Samples Submitted: March 23, 2022
Laboratory Reference: 2203-257
Project: 6694-002-05

ANALYTICAL REPORT FOR SAMPLES

Client ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
MW8-20220322	03-257-01	Water	3-22-22	3-23-22	

DRAFT



Date of Report: April 5, 2022
 Samples Submitted: March 23, 2022
 Laboratory Reference: 2203-257
 Project: 6694-002-05

GASOLINE RANGE ORGANICS
NWTPH-Gx

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW8-20220322					
Laboratory ID:	03-257-01					
Gasoline	ND	100	NWTPH-Gx	3-24-22	3-24-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	86	66-117				



Date of Report: April 5, 2022
 Samples Submitted: March 23, 2022
 Laboratory Reference: 2203-257
 Project: 6694-002-05

DIESEL AND HEAVY OIL RANGE ORGANICS
NWTPH-Dx

Matrix: Water
 Units: mg/L (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW8-20220322					
Laboratory ID:	03-257-01					
Diesel Range Organics	ND	0.21	NWTPH-Dx	3-30-22	3-30-22	
Lube Oil Range Organics	ND	0.21	NWTPH-Dx	3-30-22	3-30-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	92	50-150				



Date of Report: April 5, 2022
 Samples Submitted: March 23, 2022
 Laboratory Reference: 2203-257
 Project: 6694-002-05

VOLATILE ORGANICS EPA 8260D
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW8-20220322					
Laboratory ID:	03-257-01					
Dichlorodifluoromethane	ND	0.20	EPA 8260D	3-23-22	3-23-22	
Chloromethane	ND	1.0	EPA 8260D	3-23-22	3-23-22	
Vinyl Chloride	ND	0.20	EPA 8260D	3-23-22	3-23-22	
Bromomethane	ND	3.3	EPA 8260D	3-23-22	3-23-22	
Chloroethane	ND	1.0	EPA 8260D	3-23-22	3-23-22	
Trichlorofluoromethane	ND	0.20	EPA 8260D	3-23-22	3-23-22	
1,1-Dichloroethene	ND	0.20	EPA 8260D	3-23-22	3-23-22	
Acetone	ND	5.0	EPA 8260D	3-23-22	3-23-22	
Iodomethane	ND	8.6	EPA 8260D	3-23-22	3-23-22	
Carbon Disulfide	ND	0.20	EPA 8260D	3-23-22	3-23-22	
Methylene Chloride	ND	1.0	EPA 8260D	3-23-22	3-23-22	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	3-23-22	3-23-22	
Methyl t-Butyl Ether	ND	0.20	EPA 8260D	3-23-22	3-23-22	
1,1-Dichloroethane	ND	0.20	EPA 8260D	3-23-22	3-23-22	
Vinyl Acetate	ND	1.0	EPA 8260D	3-23-22	3-23-22	
2,2-Dichloropropane	ND	0.20	EPA 8260D	3-23-22	3-23-22	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	3-23-22	3-23-22	
2-Butanone	ND	5.0	EPA 8260D	3-23-22	3-23-22	
Bromochloromethane	ND	0.20	EPA 8260D	3-23-22	3-23-22	
Chloroform	ND	0.20	EPA 8260D	3-23-22	3-23-22	
1,1,1-Trichloroethane	ND	0.20	EPA 8260D	3-23-22	3-23-22	
Carbon Tetrachloride	ND	0.20	EPA 8260D	3-23-22	3-23-22	
1,1-Dichloropropene	ND	0.20	EPA 8260D	3-23-22	3-23-22	
Benzene	ND	0.20	EPA 8260D	3-23-22	3-23-22	
1,2-Dichloroethane	ND	0.20	EPA 8260D	3-23-22	3-23-22	
Trichloroethene	ND	0.20	EPA 8260D	3-23-22	3-23-22	
1,2-Dichloropropane	ND	0.20	EPA 8260D	3-23-22	3-23-22	
Dibromomethane	ND	0.20	EPA 8260D	3-23-22	3-23-22	
Bromodichloromethane	ND	0.20	EPA 8260D	3-23-22	3-23-22	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260D	3-23-22	3-23-22	
Methyl Isobutyl Ketone	ND	2.0	EPA 8260D	3-23-22	3-23-22	
Toluene	ND	1.0	EPA 8260D	3-23-22	3-23-22	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260D	3-23-22	3-23-22	



Date of Report: April 5, 2022
 Samples Submitted: March 23, 2022
 Laboratory Reference: 2203-257
 Project: 6694-002-05

VOLATILE ORGANICS EPA 8260D
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW8-20220322					
Laboratory ID:	03-257-01					
1,1,2-Trichloroethane	ND	0.20	EPA 8260D	3-23-22	3-23-22	
Tetrachloroethene	ND	0.20	EPA 8260D	3-23-22	3-23-22	
1,3-Dichloropropane	ND	0.20	EPA 8260D	3-23-22	3-23-22	
2-Hexanone	ND	2.0	EPA 8260D	3-23-22	3-23-22	
Dibromochloromethane	ND	0.20	EPA 8260D	3-23-22	3-23-22	
1,2-Dibromoethane	ND	0.20	EPA 8260D	3-23-22	3-23-22	
Chlorobenzene	ND	0.20	EPA 8260D	3-23-22	3-23-22	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260D	3-23-22	3-23-22	
Ethylbenzene	ND	0.20	EPA 8260D	3-23-22	3-23-22	
m,p-Xylene	ND	0.40	EPA 8260D	3-23-22	3-23-22	
o-Xylene	ND	0.20	EPA 8260D	3-23-22	3-23-22	
Styrene	ND	0.20	EPA 8260D	3-23-22	3-23-22	
Bromoform	ND	1.0	EPA 8260D	3-23-22	3-23-22	
Isopropylbenzene	ND	0.20	EPA 8260D	3-23-22	3-23-22	
Bromobenzene	ND	0.20	EPA 8260D	3-23-22	3-23-22	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260D	3-23-22	3-23-22	
1,2,3-Trichloropropane	ND	0.20	EPA 8260D	3-23-22	3-23-22	
n-Propylbenzene	ND	0.20	EPA 8260D	3-23-22	3-23-22	
2-Chlorotoluene	ND	0.20	EPA 8260D	3-23-22	3-23-22	
4-Chlorotoluene	ND	0.20	EPA 8260D	3-23-22	3-23-22	
1,3,5-Trimethylbenzene	ND	0.20	EPA 8260D	3-23-22	3-23-22	
tert-Butylbenzene	ND	0.20	EPA 8260D	3-23-22	3-23-22	
1,2,4-Trimethylbenzene	ND	0.20	EPA 8260D	3-23-22	3-23-22	
sec-Butylbenzene	ND	0.20	EPA 8260D	3-23-22	3-23-22	
1,3-Dichlorobenzene	ND	0.20	EPA 8260D	3-23-22	3-23-22	
p-Isopropyltoluene	ND	0.20	EPA 8260D	3-23-22	3-23-22	
1,4-Dichlorobenzene	ND	0.20	EPA 8260D	3-23-22	3-23-22	
1,2-Dichlorobenzene	ND	0.20	EPA 8260D	3-23-22	3-23-22	
n-Butylbenzene	ND	0.20	EPA 8260D	3-23-22	3-23-22	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260D	3-23-22	3-23-22	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260D	3-23-22	3-23-22	
Hexachlorobutadiene	ND	1.0	EPA 8260D	3-23-22	3-23-22	
Naphthalene	ND	1.0	EPA 8260D	3-23-22	3-23-22	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260D	3-23-22	3-23-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>102</i>	<i>75-127</i>				
<i>Toluene-d8</i>	<i>101</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>97</i>	<i>78-125</i>				



Date of Report: April 5, 2022
 Samples Submitted: March 23, 2022
 Laboratory Reference: 2203-257
 Project: 6694-002-05

SEMIVOLATILE ORGANICS EPA 8270E/SIM
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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW8-20220322					
Laboratory ID:	03-257-01					
n-Nitrosodimethylamine	ND	1.1	EPA 8270E	3-24-22	3-24-22	
Pyridine	ND	1.1	EPA 8270E	3-24-22	3-24-22	
Phenol	ND	1.1	EPA 8270E	3-24-22	3-24-22	
Aniline	ND	5.4	EPA 8270E	3-24-22	3-24-22	
bis(2-Chloroethyl)ether	ND	1.1	EPA 8270E	3-24-22	3-24-22	
2-Chlorophenol	ND	1.1	EPA 8270E	3-24-22	3-24-22	
1,3-Dichlorobenzene	ND	1.1	EPA 8270E	3-24-22	3-24-22	
1,4-Dichlorobenzene	ND	1.1	EPA 8270E	3-24-22	3-24-22	
Benzyl alcohol	ND	1.1	EPA 8270E	3-24-22	3-24-22	
1,2-Dichlorobenzene	ND	1.1	EPA 8270E	3-24-22	3-24-22	
2-Methylphenol (o-Cresol)	ND	1.1	EPA 8270E	3-24-22	3-24-22	
bis(2-Chloroisopropyl)ether	ND	1.1	EPA 8270E	3-24-22	3-24-22	
(3+4)-Methylphenol (m,p-Cresol)	ND	1.1	EPA 8270E	3-24-22	3-24-22	
n-Nitroso-di-n-propylamine	ND	1.1	EPA 8270E	3-24-22	3-24-22	
Hexachloroethane	ND	1.1	EPA 8270E	3-24-22	3-24-22	
Nitrobenzene	ND	1.1	EPA 8270E	3-24-22	3-24-22	
Isophorone	ND	1.1	EPA 8270E	3-24-22	3-24-22	
2-Nitrophenol	ND	1.1	EPA 8270E	3-24-22	3-24-22	
2,4-Dimethylphenol	ND	1.1	EPA 8270E	3-24-22	3-24-22	
bis(2-Chloroethoxy)methane	ND	1.1	EPA 8270E	3-24-22	3-24-22	
2,4-Dichlorophenol	ND	1.1	EPA 8270E	3-24-22	3-24-22	
1,2,4-Trichlorobenzene	ND	1.1	EPA 8270E	3-24-22	3-24-22	
Naphthalene	ND	0.11	EPA 8270E/SIM	3-24-22	3-24-22	
4-Chloroaniline	ND	1.1	EPA 8270E	3-24-22	3-24-22	
Hexachlorobutadiene	ND	1.1	EPA 8270E	3-24-22	3-24-22	
4-Chloro-3-methylphenol	ND	1.1	EPA 8270E	3-24-22	3-24-22	
2-Methylnaphthalene	ND	0.11	EPA 8270E/SIM	3-24-22	3-24-22	
1-Methylnaphthalene	ND	0.11	EPA 8270E/SIM	3-24-22	3-24-22	
Hexachlorocyclopentadiene	ND	1.1	EPA 8270E	3-24-22	3-24-22	
2,4,6-Trichlorophenol	ND	1.1	EPA 8270E	3-24-22	3-24-22	
2,3-Dichloroaniline	ND	1.1	EPA 8270E	3-24-22	3-24-22	
2,4,5-Trichlorophenol	ND	1.1	EPA 8270E	3-24-22	3-24-22	
2-Chloronaphthalene	ND	1.1	EPA 8270E	3-24-22	3-24-22	
2-Nitroaniline	ND	1.1	EPA 8270E	3-24-22	3-24-22	
1,4-Dinitrobenzene	ND	1.1	EPA 8270E	3-24-22	3-24-22	
Dimethylphthalate	ND	5.4	EPA 8270E	3-24-22	3-24-22	
1,3-Dinitrobenzene	ND	1.1	EPA 8270E	3-24-22	3-24-22	
2,6-Dinitrotoluene	ND	1.1	EPA 8270E	3-24-22	3-24-22	
1,2-Dinitrobenzene	ND	1.1	EPA 8270E	3-24-22	3-24-22	
Acenaphthylene	ND	0.11	EPA 8270E/SIM	3-24-22	3-24-22	
3-Nitroaniline	ND	1.1	EPA 8270E	3-24-22	3-24-22	



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SEMIVOLATILE ORGANICS EPA 8270E/SIM
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW8-20220322					
Laboratory ID:	03-257-01					
2,4-Dinitrophenol	ND	5.4	EPA 8270E	3-24-22	3-24-22	
Acenaphthene	ND	0.11	EPA 8270E/SIM	3-24-22	3-24-22	
4-Nitrophenol	ND	5.4	EPA 8270E	3-24-22	3-24-22	
2,4-Dinitrotoluene	ND	1.1	EPA 8270E	3-24-22	3-24-22	
Dibenzofuran	ND	1.1	EPA 8270E	3-24-22	3-24-22	
2,3,5,6-Tetrachlorophenol	ND	1.1	EPA 8270E	3-24-22	3-24-22	
2,3,4,6-Tetrachlorophenol	ND	1.1	EPA 8270E	3-24-22	3-24-22	
Diethylphthalate	ND	1.1	EPA 8270E	3-24-22	3-24-22	
4-Chlorophenyl-phenylether	ND	1.1	EPA 8270E	3-24-22	3-24-22	
4-Nitroaniline	ND	1.1	EPA 8270E	3-24-22	3-24-22	
Fluorene	ND	0.11	EPA 8270E/SIM	3-24-22	3-24-22	
4,6-Dinitro-2-methylphenol	ND	5.4	EPA 8270E	3-24-22	3-24-22	
n-Nitrosodiphenylamine	ND	1.1	EPA 8270E	3-24-22	3-24-22	
1,2-Diphenylhydrazine	ND	1.1	EPA 8270E	3-24-22	3-24-22	
4-Bromophenyl-phenylether	ND	1.1	EPA 8270E	3-24-22	3-24-22	
Hexachlorobenzene	ND	1.1	EPA 8270E	3-24-22	3-24-22	
Pentachlorophenol	ND	5.4	EPA 8270E	3-24-22	3-24-22	
Phenanthrene	ND	0.11	EPA 8270E/SIM	3-24-22	3-24-22	
Anthracene	ND	0.11	EPA 8270E/SIM	3-24-22	3-24-22	
Carbazole	ND	1.1	EPA 8270E	3-24-22	3-24-22	
Di-n-butylphthalate	ND	5.4	EPA 8270E	3-24-22	3-24-22	
Fluoranthene	ND	0.11	EPA 8270E/SIM	3-24-22	3-24-22	
Pyrene	ND	0.11	EPA 8270E/SIM	3-24-22	3-24-22	
Butylbenzylphthalate	ND	1.1	EPA 8270E	3-24-22	3-24-22	
bis-2-Ethylhexyladipate	ND	5.4	EPA 8270E	3-24-22	3-24-22	
3,3'-Dichlorobenzidine	ND	1.1	EPA 8270E	3-24-22	3-24-22	
Benzo[a]anthracene	ND	0.011	EPA 8270E/SIM	3-24-22	3-24-22	
Chrysene	ND	0.011	EPA 8270E/SIM	3-24-22	3-24-22	
bis(2-Ethylhexyl)phthalate	ND	5.4	EPA 8270E	3-24-22	3-24-22	
Di-n-octylphthalate	ND	1.1	EPA 8270E	3-24-22	3-24-22	
Benzo[b]fluoranthene	ND	0.011	EPA 8270E/SIM	3-24-22	3-24-22	
Benzo(j,k)fluoranthene	ND	0.011	EPA 8270E/SIM	3-24-22	3-24-22	
Benzo[a]pyrene	ND	0.011	EPA 8270E/SIM	3-24-22	3-24-22	
Indeno[1,2,3-cd]pyrene	ND	0.011	EPA 8270E/SIM	3-24-22	3-24-22	
Dibenz[a,h]anthracene	ND	0.011	EPA 8270E/SIM	3-24-22	3-24-22	
Benzo[g,h,i]perylene	ND	0.011	EPA 8270E/SIM	3-24-22	3-24-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
2-Fluorophenol	49	10 - 82				
Phenol-d6	36	10 - 92				
Nitrobenzene-d5	77	32 - 105				
2-Fluorobiphenyl	74	38 - 105				
2,4,6-Tribromophenol	94	25 - 124				
Terphenyl-d14	80	42 - 116				



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PCBs EPA 8082A

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW8-20220322					
Laboratory ID:	03-257-01					
Aroclor 1016	ND	0.052	EPA 8082A	3-23-22	3-24-22	
Aroclor 1221	ND	0.052	EPA 8082A	3-23-22	3-24-22	
Aroclor 1232	ND	0.052	EPA 8082A	3-23-22	3-24-22	
Aroclor 1242	ND	0.052	EPA 8082A	3-23-22	3-24-22	
Aroclor 1248	ND	0.052	EPA 8082A	3-23-22	3-24-22	
Aroclor 1254	ND	0.052	EPA 8082A	3-23-22	3-24-22	
Aroclor 1260	ND	0.052	EPA 8082A	3-23-22	3-24-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>DCB</i>	<i>84</i>	<i>42-140</i>				



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**ORGANOCHLORINE
 PESTICIDES EPA 8081B**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW8-20220322					
Laboratory ID:	03-257-01					
alpha-BHC	ND	0.0052	EPA 8081B	3-23-22	3-23-22	
gamma-BHC (Lindane)	ND	0.0052	EPA 8081B	3-23-22	3-23-22	
beta-BHC	ND	0.0052	EPA 8081B	3-23-22	3-23-22	
delta-BHC	ND	0.0052	EPA 8081B	3-23-22	3-23-22	
Heptachlor	ND	0.0052	EPA 8081B	3-23-22	3-23-22	
Aldrin	ND	0.0021	EPA 8081B	3-23-22	3-23-22	
Heptachlor Epoxide	ND	0.0031	EPA 8081B	3-23-22	3-23-22	
gamma-Chlordane	ND	0.0052	EPA 8081B	3-23-22	3-23-22	
alpha-Chlordane	ND	0.0052	EPA 8081B	3-23-22	3-23-22	
4,4'-DDE	ND	0.0052	EPA 8081B	3-23-22	3-23-22	
Endosulfan I	ND	0.0052	EPA 8081B	3-23-22	3-23-22	
Dieldrin	ND	0.0052	EPA 8081B	3-23-22	3-23-22	
Endrin	ND	0.0052	EPA 8081B	3-23-22	3-23-22	
4,4'-DDD	ND	0.0052	EPA 8081B	3-23-22	3-23-22	
Endosulfan II	ND	0.0052	EPA 8081B	3-23-22	3-23-22	
4,4'-DDT	ND	0.0052	EPA 8081B	3-23-22	3-23-22	
Endrin Aldehyde	ND	0.0052	EPA 8081B	3-23-22	3-23-22	
Methoxychlor	ND	0.010	EPA 8081B	3-23-22	3-23-22	
Endosulfan Sulfate	ND	0.0052	EPA 8081B	3-23-22	3-23-22	
Endrin Ketone	ND	0.021	EPA 8081B	3-23-22	3-23-22	
Toxaphene	ND	0.052	EPA 8081B	3-23-22	3-23-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
TCMX	70	25-114				
DCB	86	30-137				



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TOTAL METALS
EPA 200.8/200.7/7470A

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW8-20220322					
Laboratory ID:	03-257-01					
Arsenic	ND	3.3	EPA 200.8	3-23-22	3-23-22	
Cadmium	ND	4.4	EPA 200.8	3-23-22	3-23-22	
Chromium	ND	11	EPA 200.8	3-23-22	3-23-22	
Copper	ND	11	EPA 200.8	3-23-22	3-23-22	
Iron	2800	50	EPA 200.7	3-24-22	3-24-22	
Lead	ND	1.1	EPA 200.8	3-23-22	3-23-22	
Magnesium	47000	1000	EPA 200.7	3-24-22	3-24-22	
Manganese	2400	20	EPA 200.7	3-24-22	3-24-22	
Mercury	ND	0.025	EPA 7470A	3-24-22	3-25-22	
Nickel	ND	22	EPA 200.8	3-23-22	3-23-22	
Selenium	ND	5.6	EPA 200.8	3-23-22	3-23-22	
Zinc	ND	28	EPA 200.8	3-23-22	3-23-22	



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DISSOLVED METALS
EPA 200.8/200.7/7470A

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW8-20220322					
Laboratory ID:	03-257-01					
Arsenic	ND	3.0	EPA 200.8		3-23-22	
Cadmium	ND	4.0	EPA 200.8		3-23-22	
Calcium	40000	1100	EPA 200.7		3-24-22	
Chromium	ND	10	EPA 200.8		3-23-22	
Copper	ND	10	EPA 200.8		3-23-22	
Iron	99	56	EPA 200.7		3-24-22	
Lead	ND	1.0	EPA 200.8		3-23-22	
Magnesium	40000	1100	EPA 200.7		3-24-22	
Manganese	2200	11	EPA 200.7		3-24-22	
Mercury	ND	0.025	EPA 7470A		3-25-22	
Nickel	ND	20	EPA 200.8		3-23-22	
Potassium	4500	1100	EPA 200.7		3-24-22	
Selenium	ND	5.0	EPA 200.8		3-23-22	
Sodium	9800	1100	EPA 200.7		3-24-22	
Zinc	ND	25	EPA 200.8		3-23-22	



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**TOTAL ALKALINITY
SM 2320B**

Matrix: Water
Units: mg CaCO₃/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW8-20220322					
Laboratory ID:	03-257-01					
Total Alkalinity	220	2.0	SM 2320B	3-24-22	3-24-22	



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**BICARBONATE
SM 2320B**

Matrix: Water
Units: mg CaCO₃/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW8-20220322					
Laboratory ID:	03-257-01					
Bicarbonate Concentration	220	2.0	SM 2320B	3-24-22	3-24-22	



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TOTAL DISSOLVED SOLIDS
SM 2540C

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW8-20220322					
Laboratory ID:	03-257-01					
Total Dissolved Solids	320	13	SM 2540C	3-24-22	3-25-22	



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Laboratory Reference: 2203-257
Project: 6694-002-05

CHLORIDE
SM 4500-Cl E

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW8-20220322					
Laboratory ID:	03-257-01					
Chloride	4.6	2.0	SM 4500-Cl E	3-24-22	3-24-22	



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NITRATE (as Nitrogen)
EPA 353.2

Matrix: Water
Units: mg/L-N

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW8-20220322					
Laboratory ID:	03-257-01					
Nitrate	2.9	0.050	EPA 353.2	3-25-22	3-25-22	



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SULFATE
ASTM D516-11

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW8-20220322					
Laboratory ID:	03-257-01					
Sulfate	69	25	ASTM D516-11	3-25-22	3-25-22	



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AMMONIA (as Nitrogen)
SM 4500-NH₃ D

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW8-20220322					
Laboratory ID:	03-257-01					
Ammonia	ND	0.050	SM 4500-NH3 D	3-28-22	3-28-22	



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**GASOLINE RANGE ORGANICS
 NWTPH-Gx
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0324W1					
Gasoline	ND	100	NWTPH-Gx	3-24-22	3-24-22	
Surrogate:	Percent Recovery		Control Limits			
Fluorobenzene	87	66-117				

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	03-253-01							
	ORIG	DUP						
Gasoline	ND	ND	NA	NA	NA	NA	30	
Surrogate:								
Fluorobenzene				87	87	66-117		



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**DIESEL AND HEAVY OIL RANGE ORGANICS
 NWTPH-Dx
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0330W1					
Diesel Range Organics	ND	0.16	NWTPH-Dx	3-30-22	3-30-22	
Lube Oil Range Organics	ND	0.16	NWTPH-Dx	3-30-22	3-30-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	93	50-150				

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	SB0330W1							
	ORIG	DUP						
Diesel Fuel #2	0.481	0.464	NA	NA	NA	NA	4	NA
<i>Surrogate:</i>								
<i>o-Terphenyl</i>				96	101	50-150		



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**VOLATILE ORGANICS EPA 8260D
 QUALITY CONTROL**

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Matrix: Water

Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0323W1					
Dichlorodifluoromethane	ND	0.20	EPA 8260D	3-23-22	3-23-22	
Chloromethane	ND	1.0	EPA 8260D	3-23-22	3-23-22	
Vinyl Chloride	ND	0.20	EPA 8260D	3-23-22	3-23-22	
Bromomethane	ND	3.3	EPA 8260D	3-23-22	3-23-22	
Chloroethane	ND	1.0	EPA 8260D	3-23-22	3-23-22	
Trichlorofluoromethane	ND	0.20	EPA 8260D	3-23-22	3-23-22	
1,1-Dichloroethene	ND	0.20	EPA 8260D	3-23-22	3-23-22	
Acetone	ND	5.0	EPA 8260D	3-23-22	3-23-22	
Iodomethane	ND	8.6	EPA 8260D	3-23-22	3-23-22	
Carbon Disulfide	ND	0.20	EPA 8260D	3-23-22	3-23-22	
Methylene Chloride	ND	1.0	EPA 8260D	3-23-22	3-23-22	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	3-23-22	3-23-22	
Methyl t-Butyl Ether	ND	0.20	EPA 8260D	3-23-22	3-23-22	
1,1-Dichloroethane	ND	0.20	EPA 8260D	3-23-22	3-23-22	
Vinyl Acetate	ND	1.0	EPA 8260D	3-23-22	3-23-22	
2,2-Dichloropropane	ND	0.20	EPA 8260D	3-23-22	3-23-22	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	3-23-22	3-23-22	
2-Butanone	ND	5.0	EPA 8260D	3-23-22	3-23-22	
Bromochloromethane	ND	0.20	EPA 8260D	3-23-22	3-23-22	
Chloroform	ND	0.20	EPA 8260D	3-23-22	3-23-22	
1,1,1-Trichloroethane	ND	0.20	EPA 8260D	3-23-22	3-23-22	
Carbon Tetrachloride	ND	0.20	EPA 8260D	3-23-22	3-23-22	
1,1-Dichloropropene	ND	0.20	EPA 8260D	3-23-22	3-23-22	
Benzene	ND	0.20	EPA 8260D	3-23-22	3-23-22	
1,2-Dichloroethane	ND	0.20	EPA 8260D	3-23-22	3-23-22	
Trichloroethene	ND	0.20	EPA 8260D	3-23-22	3-23-22	
1,2-Dichloropropane	ND	0.20	EPA 8260D	3-23-22	3-23-22	
Dibromomethane	ND	0.20	EPA 8260D	3-23-22	3-23-22	
Bromodichloromethane	ND	0.20	EPA 8260D	3-23-22	3-23-22	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260D	3-23-22	3-23-22	
Methyl Isobutyl Ketone	ND	2.0	EPA 8260D	3-23-22	3-23-22	
Toluene	ND	1.0	EPA 8260D	3-23-22	3-23-22	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260D	3-23-22	3-23-22	



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 Laboratory Reference: 2203-257
 Project: 6694-002-05

**VOLATILE ORGANICS EPA 8260D
 QUALITY CONTROL**

page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0323W1					
1,1,2-Trichloroethane	ND	0.20	EPA 8260D	3-23-22	3-23-22	
Tetrachloroethene	ND	0.20	EPA 8260D	3-23-22	3-23-22	
1,3-Dichloropropane	ND	0.20	EPA 8260D	3-23-22	3-23-22	
2-Hexanone	ND	2.0	EPA 8260D	3-23-22	3-23-22	
Dibromochloromethane	ND	0.20	EPA 8260D	3-23-22	3-23-22	
1,2-Dibromoethane	ND	0.20	EPA 8260D	3-23-22	3-23-22	
Chlorobenzene	ND	0.20	EPA 8260D	3-23-22	3-23-22	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260D	3-23-22	3-23-22	
Ethylbenzene	ND	0.20	EPA 8260D	3-23-22	3-23-22	
m,p-Xylene	ND	0.40	EPA 8260D	3-23-22	3-23-22	
o-Xylene	ND	0.20	EPA 8260D	3-23-22	3-23-22	
Styrene	ND	0.20	EPA 8260D	3-23-22	3-23-22	
Bromoform	ND	1.0	EPA 8260D	3-23-22	3-23-22	
Isopropylbenzene	ND	0.20	EPA 8260D	3-23-22	3-23-22	
Bromobenzene	ND	0.20	EPA 8260D	3-23-22	3-23-22	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260D	3-23-22	3-23-22	
1,2,3-Trichloropropane	ND	0.20	EPA 8260D	3-23-22	3-23-22	
n-Propylbenzene	ND	0.20	EPA 8260D	3-23-22	3-23-22	
2-Chlorotoluene	ND	0.20	EPA 8260D	3-23-22	3-23-22	
4-Chlorotoluene	ND	0.20	EPA 8260D	3-23-22	3-23-22	
1,3,5-Trimethylbenzene	ND	0.20	EPA 8260D	3-23-22	3-23-22	
tert-Butylbenzene	ND	0.20	EPA 8260D	3-23-22	3-23-22	
1,2,4-Trimethylbenzene	ND	0.20	EPA 8260D	3-23-22	3-23-22	
sec-Butylbenzene	ND	0.20	EPA 8260D	3-23-22	3-23-22	
1,3-Dichlorobenzene	ND	0.20	EPA 8260D	3-23-22	3-23-22	
p-Isopropyltoluene	ND	0.20	EPA 8260D	3-23-22	3-23-22	
1,4-Dichlorobenzene	ND	0.20	EPA 8260D	3-23-22	3-23-22	
1,2-Dichlorobenzene	ND	0.20	EPA 8260D	3-23-22	3-23-22	
n-Butylbenzene	ND	0.20	EPA 8260D	3-23-22	3-23-22	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260D	3-23-22	3-23-22	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260D	3-23-22	3-23-22	
Hexachlorobutadiene	ND	1.0	EPA 8260D	3-23-22	3-23-22	
Naphthalene	ND	1.0	EPA 8260D	3-23-22	3-23-22	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260D	3-23-22	3-23-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>103</i>	<i>75-127</i>				
<i>Toluene-d8</i>	<i>101</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>98</i>	<i>78-125</i>				



Date of Report: April 5, 2022
 Samples Submitted: March 23, 2022
 Laboratory Reference: 2203-257
 Project: 6694-002-05

**VOLATILE ORGANICS EPA 8260D
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD	RPD	Flags
					SB	SBD	Limits	RPD	Limit	
SPIKE BLANKS										
Laboratory ID:	SB0323W1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	11.6	10.9	10.0	10.0	116	109	78-125	6	19	
Benzene	11.9	11.2	10.0	10.0	119	112	80-119	6	16	
Trichloroethene	11.8	11.0	10.0	10.0	118	110	80-121	7	18	
Toluene	11.4	10.7	10.0	10.0	114	107	80-117	6	18	
Chlorobenzene	10.9	10.4	10.0	10.0	109	104	80-117	5	17	
<i>Surrogate:</i>										
Dibromofluoromethane					105	105	75-127			
Toluene-d8					102	103	80-127			
4-Bromofluorobenzene					102	104	78-125			



Date of Report: April 5, 2022
 Samples Submitted: March 23, 2022
 Laboratory Reference: 2203-257
 Project: 6694-002-05

**SEMIVOLATILE ORGANICS EPA 8270E/SIM
 QUALITY CONTROL**

page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0324W2					
n-Nitrosodimethylamine	ND	1.0	EPA 8270E	3-24-22	3-24-22	
Pyridine	ND	1.0	EPA 8270E	3-24-22	3-24-22	
Phenol	ND	1.0	EPA 8270E	3-24-22	3-24-22	
Aniline	ND	5.0	EPA 8270E	3-24-22	3-24-22	
bis(2-Chloroethyl)ether	ND	1.0	EPA 8270E	3-24-22	3-24-22	
2-Chlorophenol	ND	1.0	EPA 8270E	3-24-22	3-24-22	
1,3-Dichlorobenzene	ND	1.0	EPA 8270E	3-24-22	3-24-22	
1,4-Dichlorobenzene	ND	1.0	EPA 8270E	3-24-22	3-24-22	
Benzyl alcohol	ND	1.0	EPA 8270E	3-24-22	3-24-22	
1,2-Dichlorobenzene	ND	1.0	EPA 8270E	3-24-22	3-24-22	
2-Methylphenol (o-Cresol)	ND	1.0	EPA 8270E	3-24-22	3-24-22	
bis(2-Chloroisopropyl)ether	ND	1.0	EPA 8270E	3-24-22	3-24-22	
(3+4)-Methylphenol (m,p-Cresol)	ND	1.0	EPA 8270E	3-24-22	3-24-22	
n-Nitroso-di-n-propylamine	ND	1.0	EPA 8270E	3-24-22	3-24-22	
Hexachloroethane	ND	1.0	EPA 8270E	3-24-22	3-24-22	
Nitrobenzene	ND	1.0	EPA 8270E	3-24-22	3-24-22	
Isophorone	ND	1.0	EPA 8270E	3-24-22	3-24-22	
2-Nitrophenol	ND	1.0	EPA 8270E	3-24-22	3-24-22	
2,4-Dimethylphenol	ND	1.0	EPA 8270E	3-24-22	3-24-22	
bis(2-Chloroethoxy)methane	ND	1.0	EPA 8270E	3-24-22	3-24-22	
2,4-Dichlorophenol	ND	1.0	EPA 8270E	3-24-22	3-24-22	
1,2,4-Trichlorobenzene	ND	1.0	EPA 8270E	3-24-22	3-24-22	
Naphthalene	ND	0.10	EPA 8270E/SIM	3-24-22	3-24-22	
4-Chloroaniline	ND	1.0	EPA 8270E	3-24-22	3-24-22	
Hexachlorobutadiene	ND	1.0	EPA 8270E	3-24-22	3-24-22	
4-Chloro-3-methylphenol	ND	1.0	EPA 8270E	3-24-22	3-24-22	
2-Methylnaphthalene	ND	0.10	EPA 8270E/SIM	3-24-22	3-24-22	
1-Methylnaphthalene	ND	0.10	EPA 8270E/SIM	3-24-22	3-24-22	
Hexachlorocyclopentadiene	ND	1.0	EPA 8270E	3-24-22	3-24-22	
2,4,6-Trichlorophenol	ND	1.0	EPA 8270E	3-24-22	3-24-22	
2,3-Dichloroaniline	ND	1.0	EPA 8270E	3-24-22	3-24-22	
2,4,5-Trichlorophenol	ND	1.0	EPA 8270E	3-24-22	3-24-22	
2-Chloronaphthalene	ND	1.0	EPA 8270E	3-24-22	3-24-22	
2-Nitroaniline	ND	1.0	EPA 8270E	3-24-22	3-24-22	
1,4-Dinitrobenzene	ND	1.0	EPA 8270E	3-24-22	3-24-22	
Dimethylphthalate	ND	5.0	EPA 8270E	3-24-22	3-24-22	
1,3-Dinitrobenzene	ND	1.0	EPA 8270E	3-24-22	3-24-22	
2,6-Dinitrotoluene	ND	1.0	EPA 8270E	3-24-22	3-24-22	
1,2-Dinitrobenzene	ND	1.0	EPA 8270E	3-24-22	3-24-22	
Acenaphthylene	ND	0.10	EPA 8270E/SIM	3-24-22	3-24-22	
3-Nitroaniline	ND	1.0	EPA 8270E	3-24-22	3-24-22	



Date of Report: April 5, 2022
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 Laboratory Reference: 2203-257
 Project: 6694-002-05

**SEMIVOLATILE ORGANICS EPA 8270E/SIM
 QUALITY CONTROL**

page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0324W2					
2,4-Dinitrophenol	ND	5.0	EPA 8270E	3-24-22	3-24-22	
Acenaphthene	ND	0.10	EPA 8270E/SIM	3-24-22	3-24-22	
4-Nitrophenol	ND	5.0	EPA 8270E	3-24-22	3-24-22	
2,4-Dinitrotoluene	ND	1.0	EPA 8270E	3-24-22	3-24-22	
Dibenzofuran	ND	1.0	EPA 8270E	3-24-22	3-24-22	
2,3,5,6-Tetrachlorophenol	ND	1.0	EPA 8270E	3-24-22	3-24-22	
2,3,4,6-Tetrachlorophenol	ND	1.0	EPA 8270E	3-24-22	3-24-22	
Diethylphthalate	ND	1.0	EPA 8270E	3-24-22	3-24-22	
4-Chlorophenyl-phenylether	ND	1.0	EPA 8270E	3-24-22	3-24-22	
4-Nitroaniline	ND	1.0	EPA 8270E	3-24-22	3-24-22	
Fluorene	ND	0.10	EPA 8270E/SIM	3-24-22	3-24-22	
4,6-Dinitro-2-methylphenol	ND	5.0	EPA 8270E	3-24-22	3-24-22	
n-Nitrosodiphenylamine	ND	1.0	EPA 8270E	3-24-22	3-24-22	
1,2-Diphenylhydrazine	ND	1.0	EPA 8270E	3-24-22	3-24-22	
4-Bromophenyl-phenylether	ND	1.0	EPA 8270E	3-24-22	3-24-22	
Hexachlorobenzene	ND	1.0	EPA 8270E	3-24-22	3-24-22	
Pentachlorophenol	ND	5.0	EPA 8270E	3-24-22	3-24-22	
Phenanthrene	ND	0.10	EPA 8270E/SIM	3-24-22	3-24-22	
Anthracene	ND	0.10	EPA 8270E/SIM	3-24-22	3-24-22	
Carbazole	ND	1.0	EPA 8270E	3-24-22	3-24-22	
Di-n-butylphthalate	ND	5.0	EPA 8270E	3-24-22	3-24-22	
Fluoranthene	ND	0.10	EPA 8270E/SIM	3-24-22	3-24-22	
Pyrene	ND	0.10	EPA 8270E/SIM	3-24-22	3-24-22	
Butylbenzylphthalate	ND	1.0	EPA 8270E	3-24-22	3-24-22	
bis-2-Ethylhexyladipate	ND	5.0	EPA 8270E	3-24-22	3-24-22	
3,3'-Dichlorobenzidine	ND	1.0	EPA 8270E	3-24-22	3-24-22	
Benzo[a]anthracene	ND	0.010	EPA 8270E/SIM	3-24-22	3-24-22	
Chrysene	ND	0.010	EPA 8270E/SIM	3-24-22	3-24-22	
bis(2-Ethylhexyl)phthalate	ND	5.0	EPA 8270E	3-24-22	3-24-22	
Di-n-octylphthalate	ND	1.0	EPA 8270E	3-24-22	3-24-22	
Benzo[b]fluoranthene	ND	0.010	EPA 8270E/SIM	3-24-22	3-24-22	
Benzo(j,k)fluoranthene	ND	0.010	EPA 8270E/SIM	3-24-22	3-24-22	
Benzo[a]pyrene	ND	0.010	EPA 8270E/SIM	3-24-22	3-24-22	
Indeno[1,2,3-cd]pyrene	ND	0.010	EPA 8270E/SIM	3-24-22	3-24-22	
Dibenz[a,h]anthracene	ND	0.010	EPA 8270E/SIM	3-24-22	3-24-22	
Benzo[g,h,i]perylene	ND	0.010	EPA 8270E/SIM	3-24-22	3-24-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
2-Fluorophenol	50	10 - 82				
Phenol-d6	38	10 - 92				
Nitrobenzene-d5	80	32 - 105				
2-Fluorobiphenyl	74	38 - 105				
2,4,6-Tribromophenol	94	25 - 124				
Terphenyl-d14	82	42 - 116				



OnSite Environmental, Inc. 14648 NE 95th Street, Redmond, WA 98052 (425) 883-3881

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: April 5, 2022
 Samples Submitted: March 23, 2022
 Laboratory Reference: 2203-257
 Project: 6694-002-05

**SEMIVOLATILE ORGANICS EPA 8270E/SIM
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
MATRIX SPIKES											
Laboratory ID:	03-268-01										
	MS	MSD	MS	MSD		MS	MSD				
Phenol	99.1	95.4	160	160	20.8	49	47	20 - 108	4	24	
2-Chlorophenol	96.9	93.4	160	160	ND	61	58	24 - 105	4	32	
1,4-Dichlorobenzene	41.7	42.3	80.0	80.0	ND	52	53	24 - 100	1	36	
n-Nitroso-di-n-propylamine	56.0	56.9	80.0	80.0	ND	70	71	21 - 143	2	30	
1,2,4-Trichlorobenzene	46.0	44.9	80.0	80.0	ND	58	56	34 - 105	2	34	
4-Chloro-3-methylphenol	107	102	160	160	ND	67	64	44 - 113	5	21	
Acenaphthene	59.5	58.6	80.0	80.0	ND	74	73	47 - 106	2	19	
4-Nitrophenol	120	111	160	160	ND	75	69	20 - 127	8	37	
2,4-Dinitrotoluene	54.4	51.5	80.0	80.0	ND	68	64	45 - 106	5	19	
Pentachlorophenol	127	121	160	160	ND	79	76	20 - 136	5	39	
Pyrene	60.9	57.6	80.0	80.0	ND	76	72	47 - 112	6	23	
<i>Surrogate:</i>											
2-Fluorophenol						52	50	10 - 82			
Phenol-d6						57	54	10 - 92			
Nitrobenzene-d5						67	61	32 - 105			
2-Fluorobiphenyl						68	65	38 - 105			
2,4,6-Tribromophenol						78	72	25 - 124			
Terphenyl-d14						66	61	42 - 116			



Date of Report: April 5, 2022
 Samples Submitted: March 23, 2022
 Laboratory Reference: 2203-257
 Project: 6694-002-05

**PCBs EPA 8082A
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0323W1					
Aroclor 1016	ND	0.050	EPA 8082A	3-23-22	3-24-22	
Aroclor 1221	ND	0.050	EPA 8082A	3-23-22	3-24-22	
Aroclor 1232	ND	0.050	EPA 8082A	3-23-22	3-24-22	
Aroclor 1242	ND	0.050	EPA 8082A	3-23-22	3-24-22	
Aroclor 1248	ND	0.050	EPA 8082A	3-23-22	3-24-22	
Aroclor 1254	ND	0.050	EPA 8082A	3-23-22	3-24-22	
Aroclor 1260	ND	0.050	EPA 8082A	3-23-22	3-24-22	
Surrogate:	Percent Recovery	Control Limits				
DCB	86	42-140				

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS											
Laboratory ID:	SB0323W1										
	SB	SBD	SB	SBD		SB	SBD				
Aroclor 1260	0.495	0.442	0.500	0.500	N/A	99	88	73-131	11	12	
Surrogate:											
DCB						95	104	42-140			



Date of Report: April 5, 2022
 Samples Submitted: March 23, 2022
 Laboratory Reference: 2203-257
 Project: 6694-002-05

**ORGANOCHLORINE
 PESTICIDES EPA 8081B
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0323W1					
alpha-BHC	ND	0.0050	EPA 8081B	3-23-22	3-23-22	
gamma-BHC (Lindane)	ND	0.0050	EPA 8081B	3-23-22	3-23-22	
beta-BHC	ND	0.0050	EPA 8081B	3-23-22	3-23-22	
delta-BHC	ND	0.0050	EPA 8081B	3-23-22	3-23-22	
Heptachlor	ND	0.0050	EPA 8081B	3-23-22	3-23-22	
Aldrin	ND	0.0020	EPA 8081B	3-23-22	3-23-22	
Heptachlor Epoxide	ND	0.0030	EPA 8081B	3-23-22	3-23-22	
gamma-Chlordane	ND	0.0050	EPA 8081B	3-23-22	3-23-22	
alpha-Chlordane	ND	0.0050	EPA 8081B	3-23-22	3-23-22	
4,4'-DDE	ND	0.0050	EPA 8081B	3-23-22	3-23-22	
Endosulfan I	ND	0.0050	EPA 8081B	3-23-22	3-23-22	
Dieldrin	ND	0.0050	EPA 8081B	3-23-22	3-23-22	
Endrin	ND	0.0050	EPA 8081B	3-23-22	3-23-22	
4,4'-DDD	ND	0.0050	EPA 8081B	3-23-22	3-23-22	
Endosulfan II	ND	0.0050	EPA 8081B	3-23-22	3-23-22	
4,4'-DDT	ND	0.0050	EPA 8081B	3-23-22	3-23-22	
Endrin Aldehyde	ND	0.0050	EPA 8081B	3-23-22	3-23-22	
Methoxychlor	ND	0.010	EPA 8081B	3-23-22	3-23-22	
Endosulfan Sulfate	ND	0.0050	EPA 8081B	3-23-22	3-23-22	
Endrin Ketone	ND	0.020	EPA 8081B	3-23-22	3-23-22	
Toxaphene	ND	0.050	EPA 8081B	3-23-22	3-23-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
TCMX	63	25-114				
DCB	85	30-137				



Date of Report: April 5, 2022
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 Project: 6694-002-05

**ORGANOCHLORINE
 PESTICIDES EPA 8081B
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS											
Laboratory ID:	SB0323W2										
	SB	SBD	SB	SBD		SB	SBD				
alpha-BHC	0.0878	0.0928	0.100	0.100	N/A	88	93	42-113	6	19	
gamma-BHC (Lindane)	0.0871	0.0918	0.100	0.100	N/A	87	92	45-114	5	15	
beta-BHC	0.0871	0.0845	0.100	0.100	N/A	87	84	40-118	3	15	
delta-BHC	0.0912	0.0934	0.100	0.100	N/A	91	93	20-125	2	15	
Heptachlor	0.0814	0.0833	0.100	0.100	N/A	81	83	41-120	2	16	
Aldrin	0.0878	0.0886	0.100	0.100	N/A	88	89	35-115	1	15	
Heptachlor Epoxide	0.0839	0.0850	0.100	0.100	N/A	84	85	50-118	1	15	
gamma-Chlordane	0.0860	0.0864	0.100	0.100	N/A	86	86	46-110	0	15	
alpha-Chlordane	0.0854	0.0849	0.100	0.100	N/A	85	85	38-112	1	15	
4,4'-DDE	0.0944	0.0888	0.100	0.100	N/A	94	89	41-127	6	15	
Endosulfan I	0.0932	0.0942	0.100	0.100	N/A	93	94	45-119	1	15	
Dieldrin	0.0930	0.0911	0.100	0.100	N/A	93	91	46-115	2	15	
Endrin	0.105	0.104	0.100	0.100	N/A	105	104	52-124	1	15	
4,4'-DDD	0.0948	0.0926	0.100	0.100	N/A	95	93	52-121	2	15	
Endosulfan II	0.0879	0.0883	0.100	0.100	N/A	88	88	44-114	0	15	
4,4'-DDT	0.100	0.0951	0.100	0.100	N/A	100	95	48-123	5	15	
Endrin Aldehyde	0.0884	0.0827	0.100	0.100	N/A	88	83	45-114	7	15	
Methoxychlor	0.0823	0.0756	0.100	0.100	N/A	82	76	49-130	8	15	
Endosulfan Sulfate	0.0878	0.0870	0.100	0.100	N/A	88	87	39-117	1	15	
Endrin Ketone	0.0830	0.0778	0.100	0.100	N/A	83	78	53-119	6	15	
Surrogate:											
TCMX						72	75	25-114			
DCB						99	98	30-137			



Date of Report: April 5, 2022
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 Project: 6694-002-05

**TOTAL METALS
 EPA 200.8/200.7/7470A
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0324WH2					
Iron	ND	50	EPA 200.7	3-24-22	3-24-22	
Magnesium	ND	1000	EPA 200.7	3-24-22	3-24-22	
Manganese	ND	20	EPA 200.7	3-24-22	3-24-22	
Laboratory ID:	MB0323WM1					
Arsenic	ND	3.3	EPA 200.8	3-23-22	3-23-22	
Cadmium	ND	4.4	EPA 200.8	3-23-22	3-23-22	
Chromium	ND	11	EPA 200.8	3-23-22	3-23-22	
Copper	ND	11	EPA 200.8	3-23-22	3-23-22	
Lead	ND	1.1	EPA 200.8	3-23-22	3-23-22	
Nickel	ND	22	EPA 200.8	3-23-22	3-23-22	
Selenium	ND	5.6	EPA 200.8	3-23-22	3-23-22	
Zinc	ND	28	EPA 200.8	3-23-22	3-23-22	
Laboratory ID:	MB0324W1					
Mercury	ND	0.025	EPA 7470A	3-24-22	3-25-22	



Date of Report: April 5, 2022
 Samples Submitted: March 23, 2022
 Laboratory Reference: 2203-257
 Project: 6694-002-05

TOTAL METALS
EPA 200.8/200.7/7470A
QUALITY CONTROL

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result		Spike Level		Source	Percent	Recovery	RPD	RPD	Flags
					Result	Recovery	Limits	RPD	Limit	
DUPLICATE										
Laboratory ID:	03-256-01									
	ORIG	DUP								
Iron	ND	165	NA	NA		NA	NA	NA	20	
Magnesium	8840	9460	NA	NA		NA	NA	7	20	
Manganese	ND	ND	NA	NA		NA	NA	NA	20	
Laboratory ID:	03-161-07									
Arsenic	ND	ND	NA	NA		NA	NA	NA	20	
Cadmium	ND	ND	NA	NA		NA	NA	NA	20	
Chromium	ND	ND	NA	NA		NA	NA	NA	20	
Copper	ND	ND	NA	NA		NA	NA	NA	20	
Lead	ND	ND	NA	NA		NA	NA	NA	20	
Nickel	ND	ND	NA	NA		NA	NA	NA	20	
Selenium	ND	ND	NA	NA		NA	NA	NA	20	
Zinc	ND	ND	NA	NA		NA	NA	NA	20	
Laboratory ID:	03-257-01									
Mercury	ND	ND	NA	NA		NA	NA	NA	20	
MATRIX SPIKES										
Laboratory ID:	03-256-01									
	MS	MSD	MS	MSD		MS	MSD			
Iron	22200	22000	20000	20000	ND	111	110	75-125	1	20
Magnesium	31300	31100	20000	20000	8840	112	111	75-125	1	20
Manganese	547	543	500	500	ND	109	109	75-125	1	20
Laboratory ID:	03-161-07									
Arsenic	113	106	111	111	ND	102	96	75-125	6	20
Cadmium	104	102	111	111	ND	94	92	75-125	3	20
Chromium	104	99.1	111	111	ND	94	89	75-125	5	20
Copper	101	96.4	111	111	ND	91	87	75-125	5	20
Lead	110	105	111	111	ND	99	94	75-125	5	20
Nickel	101	95.6	111	111	ND	91	86	75-125	5	20
Selenium	115	110	111	111	ND	103	99	75-125	4	20
Zinc	119	114	111	111	13.3	95	91	75-125	4	20
Laboratory ID:	03-257-01									
Mercury	6.13	6.13	6.25	6.25	ND	98	98	75-125	0	20



Date of Report: April 5, 2022
 Samples Submitted: March 23, 2022
 Laboratory Reference: 2203-257
 Project: 6694-002-05

**DISSOLVED METALS
 EPA 200.8/200.7/7470A
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0324D1					
Calcium	ND	1100	EPA 200.7		3-24-22	
Iron	ND	56	EPA 200.7		3-24-22	
Magnesium	ND	1100	EPA 200.7		3-24-22	
Manganese	ND	11	EPA 200.7		3-24-22	
Potassium	ND	1100	EPA 200.7		3-24-22	
Sodium	ND	1100	EPA 200.7		3-24-22	
Laboratory ID:	MB0318F1					
Arsenic	ND	3.0	EPA 200.8	3-18-22	3-23-22	
Cadmium	ND	4.0	EPA 200.8	3-18-22	3-23-22	
Chromium	ND	10	EPA 200.8	3-18-22	3-23-22	
Copper	ND	10	EPA 200.8	3-18-22	3-23-22	
Lead	ND	1.0	EPA 200.8	3-18-22	3-23-22	
Nickel	ND	20	EPA 200.8	3-18-22	3-23-22	
Selenium	ND	5.0	EPA 200.8	3-18-22	3-23-22	
Zinc	ND	25	EPA 200.8	3-18-22	3-23-22	
Laboratory ID:	MB0324D1					
Mercury	ND	0.025	EPA 7470A		3-25-22	



Date of Report: April 5, 2022
 Samples Submitted: March 23, 2022
 Laboratory Reference: 2203-257
 Project: 6694-002-05

**DISSOLVED METALS
 EPA 200.8/200.7/7470A
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result		Spike Level		Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE										
Laboratory ID:	03-173-01									
	ORIG	DUP								
Calcium	18200	18400	NA	NA		NA	NA	1	20	
Iron	ND	ND	NA	NA		NA	NA	NA	20	
Magnesium	11500	11500	NA	NA		NA	NA	0	20	
Manganese	61.6	62.9	NA	NA		NA	NA	2	20	
Potassium	2230	2260	NA	NA		NA	NA	1	20	
Sodium	5970	6020	NA	NA		NA	NA	1	20	
Laboratory ID:	03-173-01									
Arsenic	8.84	9.40	NA	NA		NA	NA	6	20	
Cadmium	ND	ND	NA	NA		NA	NA	NA	20	
Chromium	ND	ND	NA	NA		NA	NA	NA	20	
Copper	ND	ND	NA	NA		NA	NA	NA	20	
Lead	ND	ND	NA	NA		NA	NA	NA	20	
Nickel	ND	ND	NA	NA		NA	NA	NA	20	
Selenium	ND	ND	NA	NA		NA	NA	NA	20	
Zinc	ND	ND	NA	NA		NA	NA	NA	20	
Laboratory ID:	03-248-01									
Mercury	ND	ND	NA	NA		NA	NA	NA	20	
MATRIX SPIKES										
Laboratory ID:	03-173-01									
	MS	MSD	MS	MSD		MS	MSD			
Calcium	40800	39000	22200	22200	18200	102	94	75-125	5	20
Iron	24300	22800	22200	22200	ND	110	103	75-125	7	20
Magnesium	34400	32500	22200	22200	11500	103	95	75-125	6	20
Manganese	689	606	556	556	61.6	113	98	75-125	13	20
Potassium	26000	24300	22200	22200	2230	107	100	75-125	7	20
Sodium	30200	28600	22200	22200	5970	109	102	75-125	5	20
Laboratory ID:	03-173-01									
Arsenic	91.6	92.2	80.0	80.0	8.84	103	104	75-125	1	20
Cadmium	79.4	79.0	80.0	80.0	ND	99	99	75-125	1	20
Chromium	79.4	78.2	80.0	80.0	ND	99	98	75-125	2	20
Copper	76.6	75.4	80.0	80.0	ND	96	94	75-125	2	20
Lead	82.4	81.8	80.0	80.0	ND	103	102	75-125	1	20
Nickel	76.8	75.8	80.0	80.0	ND	96	95	75-125	1	20
Selenium	85.8	84.0	80.0	80.0	ND	107	105	75-125	2	20
Zinc	82.0	82.6	80.0	80.0	ND	103	103	75-125	1	20
Laboratory ID:	03-248-01									
Mercury	6.23	6.28	6.25	6.25	ND	100	100	75-125	1	20



OnSite Environmental, Inc. 14648 NE 95th Street, Redmond, WA 98052 (425) 883-3881

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: April 5, 2022
 Samples Submitted: March 23, 2022
 Laboratory Reference: 2203-257
 Project: 6694-002-05

**TOTAL ALKALINITY
 SM 2320B
 QUALITY CONTROL**

Matrix: Water
 Units: mg CaCO₃/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0324W1					
Total Alkalinity	ND	2.0	SM 2320B	3-24-22	3-24-22	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	03-241-03							
	ORIG	DUP						
Total Alkalinity	92.0	94.0	NA	NA	NA	2	10	

SPIKE BLANK								
Laboratory ID:	SB0324W1							
	SB	SB		SB				
Total Alkalinity	106	100	NA	106	89-110	NA	NA	



Date of Report: December 15, 2022
 Samples Submitted: December 7, 2022
 Laboratory Reference: 2112-075
 Project: 6694-002-05

**BICARBONATE
 SM 2320B
 QUALITY CONTROL**

Matrix: Water
 Units: mg CaCO₃/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0324W1					
Bicarbonate Concentration	ND	2.0	SM 2320B	3-24-22	3-24-22	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	03-241-03							
	ORIG	DUP						
Bicarbonate	92.0	94.0	NA	NA	NA	2	10	

SPIKE BLANK								
Laboratory ID:	SB0324W1							
	SB	SB		SB				
Bicarbonate	106	100	NA	106	89-110	NA	NA	



Date of Report: April 5, 2022
 Samples Submitted: March 23, 2022
 Laboratory Reference: 2203-257
 Project: 6694-002-05

**TOTAL DISSOLVED SOLIDS
 SM 2540C
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0324W1					
Total Dissolved Solids	ND	13	SM 2540C	3-24-22	3-25-22	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	03-234-01							
	ORIG	DUP						
Total Dissolved Solids	528	528	NA	NA	NA	0	29	

SPIKE BLANK								
Laboratory ID:	SB0324W1							
	SB	SB		SB				
Total Dissolved Solids	484	500	NA	97	84-110	NA	NA	



Date of Report: April 5, 2022
 Samples Submitted: March 23, 2022
 Laboratory Reference: 2203-257
 Project: 6694-002-05

**CHLORIDE
 SM 4500-Cl E
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0324W1					
Chloride	ND	2.0	SM 4500-Cl E	3-24-22	3-24-22	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	03-233-01							
	ORIG	DUP						
Chloride	5.13	5.05	NA	NA	NA	2	15	

MATRIX SPIKE								
Laboratory ID:	03-233-01							
	MS	MS		MS				
Chloride	56.2	50.0	5.13	102	86-115	NA	NA	

SPIKE BLANK								
Laboratory ID:	SB0324W1							
	SB	SB		SB				
Chloride	51.3	50.0	NA	103	86-115	NA	NA	



Date of Report: April 5, 2022
 Samples Submitted: March 23, 2022
 Laboratory Reference: 2203-257
 Project: 6694-002-05

NITRATE (as Nitrogen)
EPA 353.2
QUALITY CONTROL

Matrix: Water
 Units: mg/L-N

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0325W1					
Nitrate	ND	0.050	EPA 353.2	3-25-22	3-25-22	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	03-278-01							
	ORIG	DUP						
Nitrate	0.0874	0.0769	NA	NA	NA	NA	13	16

MATRIX SPIKE								
Laboratory ID:	03-278-01							
	MS	MS		MS				
Nitrate	2.19	2.00	0.0874	105	92-125	NA	NA	



Date of Report: April 5, 2022
 Samples Submitted: March 23, 2022
 Laboratory Reference: 2203-257
 Project: 6694-002-05

**SULFATE
 ASTM D516-11
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0325W1					
Sulfate	ND	5.0	ASTM D516-11	3-25-22	3-25-22	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	03-233-01							
	ORIG	DUP						
Sulfate	10.0	9.89	NA	NA	NA	1	10	

MATRIX SPIKE								
Laboratory ID:	03-233-01							
	MS	MS		MS				
Sulfate	31.2	20.0	10.0	106	69-139	NA	NA	



Date of Report: April 5, 2022
 Samples Submitted: March 23, 2022
 Laboratory Reference: 2203-257
 Project: 6694-002-05

AMMONIA (as Nitrogen)
SM 4500-NH₃ D
QUALITY CONTROL

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0328W1					
Ammonia	ND	0.050	SM 4500-NH3 D	3-28-22	3-28-22	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	03-267-01							
	ORIG	DUP						
Ammonia	ND	ND	NA	NA	NA	NA	19	

MATRIX SPIKE								
Laboratory ID:	03-267-01							
	MS	MS		MS				
Ammonia	5.03	5.00	ND	101	80-113	NA	NA	





Data Qualifiers and Abbreviations

- A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.
 - B - The analyte indicated was also found in the blank sample.
 - C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.
 - E - The value reported exceeds the quantitation range and is an estimate.
 - F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.
 - H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.
 - I - Compound recovery is outside of the control limits.
 - J - The value reported was below the practical quantitation limit. The value is an estimate.
 - K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.
 - L - The RPD is outside of the control limits.
 - M - Hydrocarbons in the gasoline range are impacting the diesel range result.
 - M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.
 - N - Hydrocarbons in the lube oil range are impacting the diesel range result.
 - N1 - Hydrocarbons in diesel range are impacting lube oil range results.
 - O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.
 - P - The RPD of the detected concentrations between the two columns is greater than 40.
 - Q - Surrogate recovery is outside of the control limits.
 - S - Surrogate recovery data is not available due to the necessary dilution of the sample.
 - T - The sample chromatogram is not similar to a typical _____.
 - U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
 - U1 - The practical quantitation limit is elevated due to interferences present in the sample.
 - V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.
 - W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.
 - X - Sample extract treated with a mercury cleanup procedure.
 - X1 - Sample extract treated with a sulfuric acid/silica gel cleanup procedure.
 - Y - The calibration verification for this analyte exceeded the 20% drift specified in methods 8260 & 8270, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.
 - Z -
- ND - Not Detected at PQL
 PQL - Practical Quantitation Limit
 RPD - Relative Percent Difference





OnSite Environmental Inc

David Baumeister
14648 NE 95th Street
Redmond, WA 98052

RE: 03-257

Work Order Number: 2203578

April 05, 2022

Attention David Baumeister:

Fremont Analytical, Inc. received 1 sample(s) on 3/23/2022 for the analyses presented in the following report.

Herbicides by EPA Method 8151A (GC/MS)

This report consists of the following:

- Case Narrative
- Analytical Results
- Applicable Quality Control Summary Reports
- Chain of Custody

All analyses were performed consistent with the Quality Assurance program of Fremont Analytical, Inc. Please contact the laboratory if you should have any questions about the results.

Thank you for using Fremont Analytical.

Sincerely,

Brianna Barnes
Project Manager



CLIENT: OnSite Environmental Inc
Project: 03-257
Work Order: 2203578

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received
2203578-001	MW8-20220322	03/22/2022 2:15 PM	03/23/2022 2:52 PM

DRAFT

Note: If no "Time Collected" is supplied, a default of 12:00AM is assigned

CLIENT: OnSite Environmental Inc

Project: 03-257

I. SAMPLE RECEIPT:

Samples receipt information is recorded on the attached Sample Receipt Checklist.

II. GENERAL REPORTING COMMENTS:

Results are reported on a wet weight basis unless dry-weight correction is denoted in the units field on the analytical report ("mg/kg-dry" or "ug/kg-dry").

Matrix Spike (MS) and MS Duplicate (MSD) samples are tested from an analytical batch of "like" matrix to check for possible matrix effect. The MS and MSD will provide site specific matrix data only for those samples which are spiked by the laboratory. The sample chosen for spike purposes may or may not have been a sample submitted in this sample delivery group. The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The LCS and the MB are processed with the samples and the MS/MSD to ensure method criteria are achieved throughout the entire analytical process.

III. ANALYSES AND EXCEPTIONS:

Exceptions associated with this report will be footnoted in the analytical results page(s) or the quality control summary page(s) and/or noted below.

DRAFT

Qualifiers:

- * - Flagged value is not within established control limits
- B - Analyte detected in the associated Method Blank
- D - Dilution was required
- E - Value above quantitation range
- H - Holding times for preparation or analysis exceeded
- I - Analyte with an internal standard that does not meet established acceptance criteria
- J - Analyte detected below Reporting Limit
- N - Tentatively Identified Compound (TIC)
- Q - Analyte with an initial or continuing calibration that does not meet established acceptance criteria
- S - Spike recovery outside accepted recovery limits
- ND - Not detected at the Reporting Limit
- R - High relative percent difference observed

Acronyms:

- %Rec - Percent Recovery
- CCB - Continued Calibration Blank
- CCV - Continued Calibration Verification
- DF - Dilution Factor
- DUP - Sample Duplicate
- HEM - Hexane Extractable Material
- ICV - Initial Calibration Verification
- LCS/LCSD - Laboratory Control Sample / Laboratory Control Sample Duplicate
- MCL - Maximum Contaminant Level
- MB or MBLANK - Method Blank
- MDL - Method Detection Limit
- MS/MSD - Matrix Spike / Matrix Spike Duplicate
- PDS - Post Digestion Spike
- Ref Val - Reference Value
- REP - Sample Replicate
- RL - Reporting Limit
- RPD - Relative Percent Difference
- SD - Serial Dilution
- SGT - Silica Gel Treatment
- SPK - Spike
- Surr - Surrogate



Client: OnSite Environmental Inc

Collection Date: 3/22/2022 2:15:00 PM

Project: 03-257

Lab ID: 2203578-001

Matrix: Water

Client Sample ID: MW8-20220322

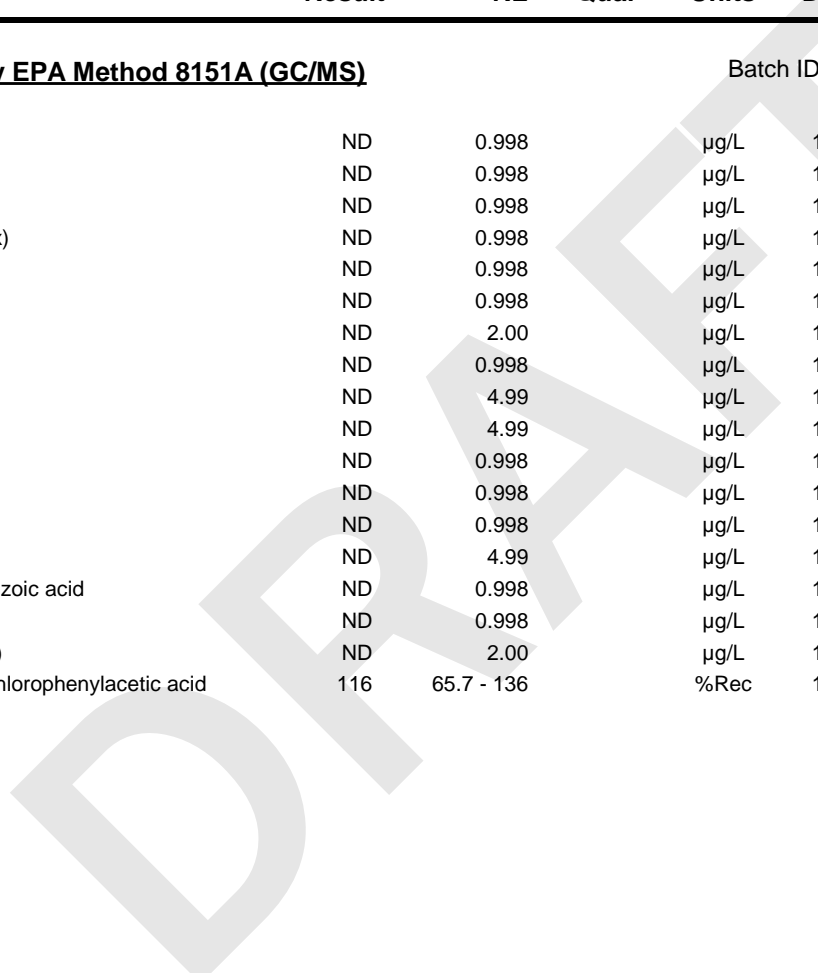
Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Herbicides by EPA Method 8151A (GC/MS)

Batch ID: 35867

Analyst: SB

Dicamba	ND	0.998		µg/L	1	3/28/2022 10:32:18 PM
2,4-D	ND	0.998		µg/L	1	3/28/2022 10:32:18 PM
2,4-DP	ND	0.998		µg/L	1	3/28/2022 10:32:18 PM
2,4,5-TP (Silvex)	ND	0.998		µg/L	1	3/28/2022 10:32:18 PM
2,4,5-T	ND	0.998		µg/L	1	3/28/2022 10:32:18 PM
Dinoseb	ND	0.998		µg/L	1	3/28/2022 10:32:18 PM
Dalapon	ND	2.00		µg/L	1	3/28/2022 10:32:18 PM
2,4-DB	ND	0.998		µg/L	1	3/28/2022 10:32:18 PM
MCPP	ND	4.99		µg/L	1	3/28/2022 10:32:18 PM
MCPA	ND	4.99		µg/L	1	3/28/2022 10:32:18 PM
Picloram	ND	0.998		µg/L	1	3/28/2022 10:32:18 PM
Bentazon	ND	0.998		µg/L	1	3/28/2022 10:32:18 PM
Chloramben	ND	0.998		µg/L	1	3/28/2022 10:32:18 PM
Acifluorfen	ND	4.99		µg/L	1	3/28/2022 10:32:18 PM
3,5-Dichlorobenzoic acid	ND	0.998		µg/L	1	3/28/2022 10:32:18 PM
4-Nitrophenol	ND	0.998		µg/L	1	3/28/2022 10:32:18 PM
Dacthal (DCPA)	ND	2.00		µg/L	1	3/28/2022 10:32:18 PM
Surr: 2,4-Dichlorophenylacetic acid	116	65.7 - 136		%Rec	1	3/28/2022 10:32:18 PM



Work Order: 2203578
 CLIENT: OnSite Environmental Inc
 Project: 03-257

QC SUMMARY REPORT
Herbicides by EPA Method 8151A (GC/MS)

Sample ID: MB-35867	SampType: MBLK	Units: µg/L	Prep Date: 3/24/2022	RunNo: 74377							
Client ID: MBLKW	Batch ID: 35867		Analysis Date: 3/28/2022	SeqNo: 1525407							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Dicamba	ND	1.00									
2,4-D	ND	1.00									
2,4-DP	ND	1.00									
2,4,5-TP (Silvex)	ND	1.00									
2,4,5-T	ND	1.00									
Dinoseb	ND	1.00									
Dalapon	ND	2.00									
2,4-DB	ND	1.00									
MCPD	ND	5.00									
MCPA	ND	5.00									
Picloram	ND	1.00									
Bentazon	ND	1.00									
Chloramben	ND	1.00									
Acifluorfen	ND	5.00									
3,5-Dichlorobenzoic acid	ND	1.00									
4-Nitrophenol	ND	1.00									
Dacthal (DCPA)	ND	2.00									
Surr: 2,4-Dichlorophenylacetic acid	16.7		20.00		83.6	65.7	136				

Sample ID: LCS-35867	SampType: LCS	Units: µg/L	Prep Date: 3/24/2022	RunNo: 74377							
Client ID: LCSW	Batch ID: 35867		Analysis Date: 3/28/2022	SeqNo: 1525408							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Dicamba	3.99	1.00	4.000	0	99.8	16.6	148				
2,4-D	3.98	1.00	4.000	0	99.5	50.4	150				
2,4-DP	3.67	1.00	4.000	0	91.7	53	135				
2,4,5-TP (Silvex)	3.87	1.00	4.000	0	96.9	53.6	140				
2,4,5-T	3.76	1.00	4.000	0	94.0	50	141				
Dinoseb	2.32	1.00	4.000	0	58.0	5	119				
Dalapon	15.1	2.00	20.00	0	75.5	5.65	97.2				

Work Order: 2203578
 CLIENT: OnSite Environmental Inc
 Project: 03-257

QC SUMMARY REPORT
Herbicides by EPA Method 8151A (GC/MS)

Sample ID: LCS-35867	SampType: LCS	Units: µg/L				Prep Date: 3/24/2022	RunNo: 74377				
Client ID: LCSW	Batch ID: 35867					Analysis Date: 3/28/2022	SeqNo: 1525408				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
2,4-DB	3.64	1.00	4.000	0	91.0	54.9	141				
MCPP	19.7	5.00	20.00	0	98.3	28.7	166				
MCPA	19.7	5.00	20.00	0	98.4	20.7	176				
Picloram	2.34	1.00	4.000	0	58.4	9.72	120				
Bentazon	3.43	1.00	4.000	0	85.8	41.2	141				
Chloramben	2.14	1.00	4.000	0	53.5	5	109				
Acifluorfen	2.00	5.00	4.000	0	50.0	7.62	139				
3,5-Dichlorobenzoic acid	3.73	1.00	4.000	0	93.1	52.4	120				
4-Nitrophenol	2.65	1.00	4.000	0	66.1	5	107				
Dacthal (DCPA)	1.80	2.00	4.000	0	45.0	5	65.4				
Surr: 2,4-Dichlorophenylacetic acid	20.7		20.00		104	65.7	136				

Sample ID: 2203531-001AMS	SampType: MS	Units: µg/L				Prep Date: 3/24/2022	RunNo: 74377				
Client ID: BATCH	Batch ID: 35867					Analysis Date: 3/28/2022	SeqNo: 1525411				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dicamba	4.28	1.10	4.392	0	97.4	31	142				
2,4-D	4.47	1.10	4.392	0	102	50.3	149				
2,4-DP	3.95	1.10	4.392	0	89.9	49.9	143				
2,4,5-TP (Silvex)	4.36	1.10	4.392	0	99.4	47.7	141				
2,4,5-T	4.34	1.10	4.392	0	98.9	34.4	139				
Dinoseb	3.42	1.10	4.392	0	78.0	27.3	117				
Dalapon	15.9	2.20	21.96	0	72.6	14.2	113				
2,4-DB	4.13	1.10	4.392	0	94.1	31.3	147				
MCPP	20.8	5.49	21.96	0	94.7	30.5	177				
MCPA	20.6	5.49	21.96	0	93.9	36.8	163				
Picloram	3.29	1.10	4.392	0	74.9	18.8	115				
Bentazon	4.07	1.10	4.392	0	92.7	11.9	176				
Chloramben	2.91	1.10	4.392	0	66.2	5	112				
Acifluorfen	3.07	5.49	4.392	0	70.0	28.1	146				

Work Order: 2203578
 CLIENT: OnSite Environmental Inc
 Project: 03-257

QC SUMMARY REPORT
Herbicides by EPA Method 8151A (GC/MS)

Sample ID: 2203531-001AMS	SampType: MS	Units: µg/L	Prep Date: 3/24/2022	RunNo: 74377							
Client ID: BATCH	Batch ID: 35867		Analysis Date: 3/28/2022	SeqNo: 1525411							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

3,5-Dichlorobenzoic acid	4.03	1.10	4.392	0	91.8	36.2	146				
4-Nitrophenol	2.05	1.10	4.392	0	46.6	5	116				
Dacthal (DCPA)	1.74	2.20	4.392	0	39.6	5	84.6				
Surr: 2,4-Dichlorophenylacetic acid	23.1		21.96		105	65.7	136				

Sample ID: 2203578-001ADUP	SampType: DUP	Units: µg/L	Prep Date: 3/24/2022	RunNo: 74377							
Client ID: MW8-20220322	Batch ID: 35867		Analysis Date: 3/28/2022	SeqNo: 1525414							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Dicamba	ND	0.992						0	0	50	
2,4-D	ND	0.992						0	0	50	
2,4-DP	ND	0.992						0	0	50	
2,4,5-TP (Silvex)	ND	0.992						0	0	50	
2,4,5-T	ND	0.992						0	0	50	
Dinoseb	ND	0.992						0	0	50	
Dalapon	ND	1.98						0	0	50	
2,4-DB	ND	0.992						0	0	50	
MCPP	ND	4.96						0	0	50	
MCPA	ND	4.96						0	0	50	
Picloram	ND	0.992						0	0	50	
Bentazon	ND	0.992						0	0	50	
Chloramben	ND	0.992						0	0	50	
Acifluorfen	ND	4.96						0	0	50	
3,5-Dichlorobenzoic acid	ND	0.992						0	0	50	
4-Nitrophenol	ND	0.992						0	0	50	
Dacthal (DCPA)	ND	1.98						0	0	50	
Surr: 2,4-Dichlorophenylacetic acid	21.4		19.84		108	65.7	136		0		

Client Name: **ONSITE**

 Work Order Number: **2203578**

 Logged by: **Gabrielle Coeulle**

 Date Received: **3/23/2022 2:52:00 PM**

Chain of Custody

1. Is Chain of Custody complete? Yes No Not Present
2. How was the sample delivered? Client

Log In

3. Coolers are present? Yes No NA
4. Shipping container/cooler in good condition? Yes No
5. Custody Seals present on shipping container/cooler?
(Refer to comments for Custody Seals not intact) Yes No Not Present
6. Was an attempt made to cool the samples? Yes No NA
7. Were all items received at a temperature of >2°C to 6°C * Yes No NA
8. Sample(s) in proper container(s)? Yes No
9. Sufficient sample volume for indicated test(s)? Yes No
10. Are samples properly preserved? Yes No
11. Was preservative added to bottles? Yes No NA
12. Is there headspace in the VOA vials? Yes No NA
13. Did all samples containers arrive in good condition(unbroken)? Yes No
14. Does paperwork match bottle labels? Yes No
15. Are matrices correctly identified on Chain of Custody? Yes No
16. Is it clear what analyses were requested? Yes No
17. Were all holding times able to be met? Yes No

Special Handling (if applicable)

18. Was client notified of all discrepancies with this order? Yes No NA

Person Notified:	<input type="text"/>	Date:	<input type="text"/>
By Whom:	<input type="text"/>	Via:	<input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:	<input type="text"/>		
Client Instructions:	<input type="text"/>		

19. Additional remarks:

Item Information

Item #	Temp °C
Sample 1	5.7

* Note: DoD/ELAP and TNI require items to be received at 4°C +/- 2°C

Chain of Custody

Company: CEEI Project Number: 6094-002-05 Project Name: NO-East Project Manager: Garrett Leque Sampled by: Woodrow D. Stolestad	Turnaround Request (in working days) (Check One) <input type="checkbox"/> Same Day <input type="checkbox"/> 1 Day <input type="checkbox"/> 2 Days <input type="checkbox"/> 3 Days <input checked="" type="checkbox"/> Standard (7 Days) <small>(TPH analysis 5 Days)</small> <input type="checkbox"/> _____ (other)	Laboratory Number: 03-257
--	--	----------------------------------

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX	NWTPH-Gx	NWTPH-Dx	Volatiles 8260B	Halogenated Volatiles 8260B	Semi-volatiles 8270D/SIM (with low-level PAHs)	PAHs 8270D/SIM (low-level)	PCBs 8082	Organochlorine Pesticides 8081A	Organophosphorus Pesticides 8270D/SIM	Chlorinated Acid Herbicides 8151A	Total PCBs/MTCA Metals (circle one)	TCLP Metals (circle one)	HEM (oil and grease) 1664	Total Dissolved Metals	NH ₃ , TDS	Alkalinity + Hardness	Cl ⁻ , NO ₃ ⁻ , SO ₄ ⁻²	% Moisture	
1	MWS-20220322	3/22/22	1415	Water	20			X	X	X		X		X	X		X		X		X					

Relinquished	Signature	Company	Date	Time	Comments/Special Instructions
Relinquished		CEEI	3/22/22	1630	T/D metals: As, Cd, Cr, Cu, Fe,
Received		ALPHA	3/22/22	10:09 AM	Pb, Mn, Hg, Ni, Se, Mg, Zn
Relinquished		ALPHA	3/23/22	11:06 AM	
Received		CEEI	3/23/22	1106	
Relinquished					
Received					
Reviewed/Date		Reviewed/Date			Chromatograms with final report <input type="checkbox"/>



14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

April 15, 2022

Garrett Leque
GeoEngineers, Inc.
554 West Bakerview Road
Bellingham, WA 98226

Re: Analytical Data for Project 6694-002-05
Laboratory Reference No. 2203-363

Dear Garrett:

Enclosed are the analytical results and associated quality control data for samples submitted on March 31, 2022.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

A handwritten signature in black ink, appearing to read "DB", with a horizontal line extending to the right.

David Baumeister
Project Manager

Enclosures



OnSite Environmental, Inc. 14648 NE 95th Street, Redmond, WA 98052 (425) 883-3881

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: April 15, 2022
Samples Submitted: March 31, 2022
Laboratory Reference: 2203-363
Project: 6694-002-05

Case Narrative

Samples were collected on March 30, 2022 and received by the laboratory on March 31, 2022. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

Semivolatiles EPA 8270E/SIM Analysis

The spike blank and spike blank duplicate both had a high recovery for one analyte indicating a high bias. The associated sample had no detectable recoveries. No further action was taken.

Nitrate EPA 353.2 Analysis

The reported Nitrate results are a calculated value based on the subtraction of Nitrite from the Nitrate plus Nitrite result. The Nitrite analysis, which has a 48-hour holding time, was performed within the holding time. Immediately after this analysis, an aliquot from each sample was preserved with concentrated sulfuric acid and stored at 4 degrees C. The preserved samples were then analyzed within the maximum 28-day holding time for the Nitrate plus Nitrite analysis.

Please note that any other QA/QC issues associated with these extractions and analyses will be indicated with a footnote reference and discussed in detail on the Data Qualifier page.



Date of Report: April 15, 2022
Samples Submitted: March 31, 2022
Laboratory Reference: 2203-363
Project: 6694-002-05

ANALYTICAL REPORT FOR SAMPLES

Client ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
MW1-220330	03-363-01	Water	3-30-22	3-31-22	

DRAFT



Date of Report: April 15, 2022
 Samples Submitted: March 31, 2022
 Laboratory Reference: 2203-363
 Project: 6694-002-05

GASOLINE RANGE ORGANICS
NWTPH-Gx

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW1-220330					
Laboratory ID:	03-363-01					
Gasoline	ND	100	NWTPH-Gx	4-4-22	4-4-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	95	66-117				



Date of Report: April 15, 2022
 Samples Submitted: March 31, 2022
 Laboratory Reference: 2203-363
 Project: 6694-002-05

DIESEL AND HEAVY OIL RANGE ORGANICS
NWTPH-Dx

Matrix: Water
 Units: mg/L (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW1-220330					
Laboratory ID:	03-363-01					
Diesel Range Organics	ND	0.20	NWTPH-Dx	4-8-22	4-8-22	
Lube Oil Range Organics	ND	0.20	NWTPH-Dx	4-8-22	4-8-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	90	50-150				



Date of Report: April 15, 2022
 Samples Submitted: March 31, 2022
 Laboratory Reference: 2203-363
 Project: 6694-002-05

VOLATILE ORGANICS EPA 8260D
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW1-220330					
Laboratory ID:	03-363-01					
Dichlorodifluoromethane	ND	0.20	EPA 8260D	4-1-22	4-1-22	
Chloromethane	ND	1.0	EPA 8260D	4-1-22	4-1-22	
Vinyl Chloride	ND	0.20	EPA 8260D	4-1-22	4-1-22	
Bromomethane	ND	1.0	EPA 8260D	4-1-22	4-1-22	
Chloroethane	ND	1.0	EPA 8260D	4-1-22	4-1-22	
Trichlorofluoromethane	ND	0.20	EPA 8260D	4-1-22	4-1-22	
1,1-Dichloroethene	ND	0.20	EPA 8260D	4-1-22	4-1-22	
Acetone	ND	5.0	EPA 8260D	4-1-22	4-1-22	
Iodomethane	ND	5.0	EPA 8260D	4-1-22	4-1-22	
Carbon Disulfide	ND	0.20	EPA 8260D	4-1-22	4-1-22	
Methylene Chloride	ND	1.0	EPA 8260D	4-1-22	4-1-22	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	4-1-22	4-1-22	
Methyl t-Butyl Ether	ND	0.20	EPA 8260D	4-1-22	4-1-22	
1,1-Dichloroethane	ND	0.20	EPA 8260D	4-1-22	4-1-22	
Vinyl Acetate	ND	1.0	EPA 8260D	4-1-22	4-1-22	
2,2-Dichloropropane	ND	0.20	EPA 8260D	4-1-22	4-1-22	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	4-1-22	4-1-22	
2-Butanone	ND	5.0	EPA 8260D	4-1-22	4-1-22	
Bromochloromethane	ND	0.20	EPA 8260D	4-1-22	4-1-22	
Chloroform	ND	0.20	EPA 8260D	4-1-22	4-1-22	
1,1,1-Trichloroethane	ND	0.20	EPA 8260D	4-1-22	4-1-22	
Carbon Tetrachloride	ND	0.20	EPA 8260D	4-1-22	4-1-22	
1,1-Dichloropropene	ND	0.20	EPA 8260D	4-1-22	4-1-22	
Benzene	ND	0.20	EPA 8260D	4-1-22	4-1-22	
1,2-Dichloroethane	ND	0.20	EPA 8260D	4-1-22	4-1-22	
Trichloroethene	ND	0.20	EPA 8260D	4-1-22	4-1-22	
1,2-Dichloropropane	ND	0.20	EPA 8260D	4-1-22	4-1-22	
Dibromomethane	ND	0.20	EPA 8260D	4-1-22	4-1-22	
Bromodichloromethane	ND	0.20	EPA 8260D	4-1-22	4-1-22	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260D	4-1-22	4-1-22	
Methyl Isobutyl Ketone	ND	2.0	EPA 8260D	4-1-22	4-1-22	
Toluene	ND	1.0	EPA 8260D	4-1-22	4-1-22	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260D	4-1-22	4-1-22	



Date of Report: April 15, 2022
 Samples Submitted: March 31, 2022
 Laboratory Reference: 2203-363
 Project: 6694-002-05

VOLATILE ORGANICS EPA 8260D
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW1-220330					
Laboratory ID:	03-363-01					
1,1,2-Trichloroethane	ND	0.20	EPA 8260D	4-1-22	4-1-22	
Tetrachloroethene	ND	0.20	EPA 8260D	4-1-22	4-1-22	
1,3-Dichloropropane	ND	0.20	EPA 8260D	4-1-22	4-1-22	
2-Hexanone	ND	2.0	EPA 8260D	4-1-22	4-1-22	
Dibromochloromethane	ND	0.20	EPA 8260D	4-1-22	4-1-22	
1,2-Dibromoethane	ND	0.20	EPA 8260D	4-1-22	4-1-22	
Chlorobenzene	ND	0.20	EPA 8260D	4-1-22	4-1-22	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260D	4-1-22	4-1-22	
Ethylbenzene	ND	0.20	EPA 8260D	4-1-22	4-1-22	
m,p-Xylene	ND	0.40	EPA 8260D	4-1-22	4-1-22	
o-Xylene	ND	0.20	EPA 8260D	4-1-22	4-1-22	
Styrene	ND	0.20	EPA 8260D	4-1-22	4-1-22	
Bromoform	ND	1.0	EPA 8260D	4-1-22	4-1-22	
Isopropylbenzene	ND	0.20	EPA 8260D	4-1-22	4-1-22	
Bromobenzene	ND	0.20	EPA 8260D	4-1-22	4-1-22	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260D	4-1-22	4-1-22	
1,2,3-Trichloropropane	ND	0.20	EPA 8260D	4-1-22	4-1-22	
n-Propylbenzene	ND	0.20	EPA 8260D	4-1-22	4-1-22	
2-Chlorotoluene	ND	0.20	EPA 8260D	4-1-22	4-1-22	
4-Chlorotoluene	ND	0.20	EPA 8260D	4-1-22	4-1-22	
1,3,5-Trimethylbenzene	ND	0.20	EPA 8260D	4-1-22	4-1-22	
tert-Butylbenzene	ND	0.20	EPA 8260D	4-1-22	4-1-22	
1,2,4-Trimethylbenzene	ND	0.20	EPA 8260D	4-1-22	4-1-22	
sec-Butylbenzene	ND	0.20	EPA 8260D	4-1-22	4-1-22	
1,3-Dichlorobenzene	ND	0.20	EPA 8260D	4-1-22	4-1-22	
p-Isopropyltoluene	ND	0.20	EPA 8260D	4-1-22	4-1-22	
1,4-Dichlorobenzene	ND	0.20	EPA 8260D	4-1-22	4-1-22	
1,2-Dichlorobenzene	ND	0.20	EPA 8260D	4-1-22	4-1-22	
n-Butylbenzene	ND	0.20	EPA 8260D	4-1-22	4-1-22	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260D	4-1-22	4-1-22	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260D	4-1-22	4-1-22	
Hexachlorobutadiene	ND	1.0	EPA 8260D	4-1-22	4-1-22	
Naphthalene	ND	1.0	EPA 8260D	4-1-22	4-1-22	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260D	4-1-22	4-1-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>111</i>	<i>75-127</i>				
<i>Toluene-d8</i>	<i>102</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>103</i>	<i>78-125</i>				



Date of Report: April 15, 2022
 Samples Submitted: March 31, 2022
 Laboratory Reference: 2203-363
 Project: 6694-002-05

SEMIVOLATILE ORGANICS EPA 8270E/SIM
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW1-220330					
Laboratory ID:	03-363-01					
n-Nitrosodimethylamine	ND	0.97	EPA 8270E	4-4-22	4-4-22	
Pyridine	ND	0.97	EPA 8270E	4-4-22	4-4-22	
Phenol	ND	0.97	EPA 8270E	4-4-22	4-4-22	
Aniline	ND	4.9	EPA 8270E	4-4-22	4-4-22	
bis(2-Chloroethyl)ether	ND	0.97	EPA 8270E	4-4-22	4-4-22	
2-Chlorophenol	ND	0.97	EPA 8270E	4-4-22	4-4-22	
1,3-Dichlorobenzene	ND	0.97	EPA 8270E	4-4-22	4-4-22	
1,4-Dichlorobenzene	ND	0.97	EPA 8270E	4-4-22	4-4-22	
Benzyl alcohol	ND	0.97	EPA 8270E	4-4-22	4-4-22	
1,2-Dichlorobenzene	ND	0.97	EPA 8270E	4-4-22	4-4-22	
2-Methylphenol (o-Cresol)	ND	0.97	EPA 8270E	4-4-22	4-4-22	
bis(2-Chloroisopropyl)ether	ND	0.97	EPA 8270E	4-4-22	4-4-22	
(3+4)-Methylphenol (m,p-Cresol)	ND	0.97	EPA 8270E	4-4-22	4-4-22	
n-Nitroso-di-n-propylamine	ND	0.97	EPA 8270E	4-4-22	4-4-22	
Hexachloroethane	ND	0.97	EPA 8270E	4-4-22	4-4-22	
Nitrobenzene	ND	0.97	EPA 8270E	4-4-22	4-4-22	
Isophorone	ND	0.97	EPA 8270E	4-4-22	4-4-22	
2-Nitrophenol	ND	0.97	EPA 8270E	4-4-22	4-4-22	
2,4-Dimethylphenol	ND	0.97	EPA 8270E	4-4-22	4-4-22	
bis(2-Chloroethoxy)methane	ND	0.97	EPA 8270E	4-4-22	4-4-22	
2,4-Dichlorophenol	ND	0.97	EPA 8270E	4-4-22	4-4-22	
1,2,4-Trichlorobenzene	ND	0.97	EPA 8270E	4-4-22	4-4-22	
Naphthalene	ND	0.097	EPA 8270E/SIM	4-4-22	4-4-22	
4-Chloroaniline	ND	1.3	EPA 8270E	4-4-22	4-4-22	
Hexachlorobutadiene	ND	0.97	EPA 8270E	4-4-22	4-4-22	
4-Chloro-3-methylphenol	ND	0.97	EPA 8270E	4-4-22	4-4-22	
2-Methylnaphthalene	ND	0.097	EPA 8270E/SIM	4-4-22	4-4-22	
1-Methylnaphthalene	ND	0.097	EPA 8270E/SIM	4-4-22	4-4-22	
Hexachlorocyclopentadiene	ND	0.97	EPA 8270E	4-4-22	4-4-22	
2,4,6-Trichlorophenol	ND	0.97	EPA 8270E	4-4-22	4-4-22	
2,3-Dichloroaniline	ND	0.97	EPA 8270E	4-4-22	4-4-22	
2,4,5-Trichlorophenol	ND	0.97	EPA 8270E	4-4-22	4-4-22	
2-Chloronaphthalene	ND	0.97	EPA 8270E	4-4-22	4-4-22	
2-Nitroaniline	ND	0.97	EPA 8270E	4-4-22	4-4-22	
1,4-Dinitrobenzene	ND	0.97	EPA 8270E	4-4-22	4-4-22	
Dimethylphthalate	ND	4.9	EPA 8270E	4-4-22	4-4-22	
1,3-Dinitrobenzene	ND	0.97	EPA 8270E	4-4-22	4-4-22	
2,6-Dinitrotoluene	ND	0.97	EPA 8270E	4-4-22	4-4-22	
1,2-Dinitrobenzene	ND	0.97	EPA 8270E	4-4-22	4-4-22	
Acenaphthylene	ND	0.097	EPA 8270E/SIM	4-4-22	4-4-22	
3-Nitroaniline	ND	0.97	EPA 8270E	4-4-22	4-4-22	



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SEMIVOLATILE ORGANICS EPA 8270E/SIM
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW1-220330					
Laboratory ID:	03-363-01					
2,4-Dinitrophenol	ND	4.9	EPA 8270E	4-4-22	4-4-22	
Acenaphthene	ND	0.097	EPA 8270E/SIM	4-4-22	4-4-22	
4-Nitrophenol	ND	4.9	EPA 8270E	4-4-22	4-4-22	
2,4-Dinitrotoluene	ND	0.97	EPA 8270E	4-4-22	4-4-22	
Dibenzofuran	ND	0.97	EPA 8270E	4-4-22	4-4-22	
2,3,5,6-Tetrachlorophenol	ND	0.97	EPA 8270E	4-4-22	4-4-22	
2,3,4,6-Tetrachlorophenol	ND	0.97	EPA 8270E	4-4-22	4-4-22	
Diethylphthalate	ND	0.97	EPA 8270E	4-4-22	4-4-22	
4-Chlorophenyl-phenylether	ND	0.97	EPA 8270E	4-4-22	4-4-22	
4-Nitroaniline	ND	0.97	EPA 8270E	4-4-22	4-4-22	
Fluorene	ND	0.097	EPA 8270E/SIM	4-4-22	4-4-22	
4,6-Dinitro-2-methylphenol	ND	4.9	EPA 8270E	4-4-22	4-4-22	
n-Nitrosodiphenylamine	ND	0.97	EPA 8270E	4-4-22	4-4-22	
1,2-Diphenylhydrazine	ND	0.97	EPA 8270E	4-4-22	4-4-22	
4-Bromophenyl-phenylether	ND	0.97	EPA 8270E	4-4-22	4-4-22	
Hexachlorobenzene	ND	0.97	EPA 8270E	4-4-22	4-4-22	
Pentachlorophenol	ND	4.9	EPA 8270E	4-4-22	4-4-22	
Phenanthrene	ND	0.097	EPA 8270E/SIM	4-4-22	4-4-22	
Anthracene	ND	0.097	EPA 8270E/SIM	4-4-22	4-4-22	
Carbazole	ND	0.97	EPA 8270E	4-4-22	4-4-22	
Di-n-butylphthalate	ND	4.9	EPA 8270E	4-4-22	4-4-22	
Fluoranthene	ND	0.097	EPA 8270E/SIM	4-4-22	4-4-22	
Pyrene	ND	0.097	EPA 8270E/SIM	4-4-22	4-4-22	
Butylbenzylphthalate	ND	0.97	EPA 8270E	4-4-22	4-4-22	
bis-2-Ethylhexyladipate	ND	4.9	EPA 8270E	4-4-22	4-4-22	
3,3'-Dichlorobenzidine	ND	0.97	EPA 8270E	4-4-22	4-4-22	
Benzo[a]anthracene	ND	0.0097	EPA 8270E/SIM	4-4-22	4-4-22	
Chrysene	ND	0.0097	EPA 8270E/SIM	4-4-22	4-4-22	
bis(2-Ethylhexyl)phthalate	ND	4.9	EPA 8270E	4-4-22	4-4-22	
Di-n-octylphthalate	ND	0.97	EPA 8270E	4-4-22	4-4-22	
Benzo[b]fluoranthene	ND	0.0097	EPA 8270E/SIM	4-4-22	4-4-22	
Benzo(j,k)fluoranthene	ND	0.0097	EPA 8270E/SIM	4-4-22	4-4-22	
Benzo[a]pyrene	ND	0.0097	EPA 8270E/SIM	4-4-22	4-4-22	
Indeno[1,2,3-cd]pyrene	ND	0.0097	EPA 8270E/SIM	4-4-22	4-4-22	
Dibenz[a,h]anthracene	ND	0.0097	EPA 8270E/SIM	4-4-22	4-4-22	
Benzo[g,h,i]perylene	ND	0.0097	EPA 8270E/SIM	4-4-22	4-4-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
2-Fluorophenol	37	10 - 82				
Phenol-d6	32	10 - 92				
Nitrobenzene-d5	69	32 - 105				
2-Fluorobiphenyl	74	38 - 105				
2,4,6-Tribromophenol	97	25 - 124				
Terphenyl-d14	83	42 - 116				



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 Project: 6694-002-05

PCBs EPA 8082A

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW1-220330					
Laboratory ID:	03-363-01					
Aroclor 1016	ND	0.049	EPA 8082A	4-5-22	4-8-22	
Aroclor 1221	ND	0.049	EPA 8082A	4-5-22	4-8-22	
Aroclor 1232	ND	0.049	EPA 8082A	4-5-22	4-8-22	
Aroclor 1242	ND	0.049	EPA 8082A	4-5-22	4-8-22	
Aroclor 1248	ND	0.049	EPA 8082A	4-5-22	4-8-22	
Aroclor 1254	ND	0.049	EPA 8082A	4-5-22	4-8-22	
Aroclor 1260	ND	0.049	EPA 8082A	4-5-22	4-8-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>DCB</i>	95	42-140				



Date of Report: April 15, 2022
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 Project: 6694-002-05

**ORGANOCHLORINE
 PESTICIDES EPA 8081B**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW1-220330					
Laboratory ID:	03-363-01					
alpha-BHC	ND	0.0049	EPA 8081B	4-5-22	4-6-22	
gamma-BHC (Lindane)	ND	0.0049	EPA 8081B	4-5-22	4-6-22	
beta-BHC	ND	0.0049	EPA 8081B	4-5-22	4-6-22	
delta-BHC	ND	0.0049	EPA 8081B	4-5-22	4-6-22	
Heptachlor	ND	0.0049	EPA 8081B	4-5-22	4-6-22	
Aldrin	ND	0.0020	EPA 8081B	4-5-22	4-6-22	
Heptachlor Epoxide	ND	0.0029	EPA 8081B	4-5-22	4-6-22	
gamma-Chlordane	ND	0.0049	EPA 8081B	4-5-22	4-6-22	
alpha-Chlordane	ND	0.0049	EPA 8081B	4-5-22	4-6-22	
4,4'-DDE	ND	0.0049	EPA 8081B	4-5-22	4-6-22	
Endosulfan I	ND	0.0049	EPA 8081B	4-5-22	4-6-22	
Dieldrin	ND	0.0049	EPA 8081B	4-5-22	4-6-22	
Endrin	ND	0.0049	EPA 8081B	4-5-22	4-6-22	
4,4'-DDD	ND	0.0049	EPA 8081B	4-5-22	4-6-22	
Endosulfan II	ND	0.0049	EPA 8081B	4-5-22	4-6-22	
4,4'-DDT	ND	0.0049	EPA 8081B	4-5-22	4-6-22	Y1
Endrin Aldehyde	ND	0.0049	EPA 8081B	4-5-22	4-6-22	
Methoxychlor	ND	0.0098	EPA 8081B	4-5-22	4-6-22	
Endosulfan Sulfate	ND	0.0049	EPA 8081B	4-5-22	4-6-22	
Endrin Ketone	ND	0.020	EPA 8081B	4-5-22	4-6-22	
Toxaphene	ND	0.049	EPA 8081B	4-5-22	4-6-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
TCMX	66	25-114				
DCB	87	30-137				



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TOTAL METALS
EPA 200.8/200.7/7470A

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW1-220330					
Laboratory ID:	03-363-01					
Arsenic	5.8	3.3	EPA 200.8	4-6-22	4-6-22	
Cadmium	ND	4.4	EPA 200.8	4-6-22	4-6-22	
Chromium	ND	11	EPA 200.8	4-6-22	4-6-22	
Copper	ND	11	EPA 200.8	4-6-22	4-6-22	
Iron	1900	50	EPA 200.7	4-6-22	4-6-22	
Lead	ND	1.1	EPA 200.8	4-6-22	4-6-22	
Magnesium	10000	1000	EPA 200.7	4-6-22	4-6-22	
Manganese	390	10	EPA 200.7	4-6-22	4-6-22	
Mercury	ND	0.025	EPA 7470A	4-4-22	4-4-22	
Nickel	86	22	EPA 200.8	4-6-22	4-6-22	
Selenium	ND	5.6	EPA 200.8	4-6-22	4-6-22	
Zinc	ND	28	EPA 200.8	4-6-22	4-6-22	



Date of Report: April 15, 2022
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 Laboratory Reference: 2203-363
 Project: 6694-002-05

DISSOLVED METALS
EPA 200.8/200.7/7470A

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW1-220330					
Laboratory ID:	03-363-01					
Arsenic	5.0	3.0	EPA 200.8		4-5-22	
Cadmium	ND	4.0	EPA 200.8		4-5-22	
Calcium	18000	1100	EPA 200.7		4-6-22	
Chromium	ND	10	EPA 200.8		4-5-22	
Copper	ND	10	EPA 200.8		4-5-22	
Iron	330	56	EPA 200.7		4-6-22	
Lead	ND	1.0	EPA 200.8		4-5-22	
Magnesium	9200	1100	EPA 200.7		4-6-22	
Manganese	350	11	EPA 200.7		4-6-22	
Mercury	ND	0.025	EPA 7470A		4-4-22	
Nickel	ND	20	EPA 200.8		4-5-22	
Potassium	2500	1100	EPA 200.7		4-6-22	
Selenium	ND	5.0	EPA 200.8		4-5-22	
Sodium	5700	1100	EPA 200.7		4-6-22	
Zinc	ND	25	EPA 200.8		4-5-22	



Date of Report: April 15, 2022
Samples Submitted: March 31, 2022
Laboratory Reference: 2203-363
Project: 6694-002-05

**TOTAL ALKALINITY
SM 2320B**

Matrix: Water
Units: mg CaCO₃/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW1-220330					
Laboratory ID:	03-363-01					
Total Alkalinity	86	2.0	SM 2320B	4-4-22	4-4-22	



Date of Report: December 15, 2022
Samples Submitted: December 7, 2022
Laboratory Reference: 2112-075
Project: 6694-002-05

**BICARBONATE
SM 2320B**

Matrix: Water
Units: mg CaCO₃/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW1-220330					
Laboratory ID:	03-363-01					
Bicarbonate	86	2.0	SM 2320B	4-4-22	4-4-22	



Date of Report: April 15, 2022
Samples Submitted: March 31, 2022
Laboratory Reference: 2203-363
Project: 6694-002-05

**TOTAL DISSOLVED SOLIDS
SM 2540C**

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW1-220330					
Laboratory ID:	03-363-01					
Total Dissolved Solids	100	13	SM 2540C	4-1-22	4-4-22	



Date of Report: April 15, 2022
Samples Submitted: March 31, 2022
Laboratory Reference: 2203-363
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CHLORIDE
SM 4500-Cl E

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW1-220330					
Laboratory ID:	03-363-01					
Chloride	3.9	2.0	SM 4500-Cl E	4-6-22	4-6-22	



Date of Report: April 15, 2022
Samples Submitted: March 31, 2022
Laboratory Reference: 2203-363
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NITRATE (as Nitrogen)
EPA 353.2

Matrix: Water
Units: mg/L-N

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW1-220330					
Laboratory ID:	03-363-01					
Nitrate	ND	0.050	EPA 353.2	4-8-22	4-8-22	



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SULFATE
ASTM D516-11

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW1-220330					
Laboratory ID:	03-363-01					
Sulfate	ND	5.0	ASTM D516-11	4-1-22	4-1-22	



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AMMONIA (as Nitrogen)
SM 4500-NH₃ D

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW1-220330					
Laboratory ID:	03-363-01					
Ammonia	0.21	0.050	SM 4500-NH3 D	4-5-22	4-5-22	



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**GASOLINE RANGE ORGANICS
 NWTPH-Gx
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0404W1					
Gasoline	ND	100	NWTPH-Gx	4-4-22	4-4-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
Fluorobenzene	95	66-117				

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	03-361-01							
	ORIG	DUP						
Gasoline	199	192	NA	NA	NA	NA	4	30
<i>Surrogate:</i>								
Fluorobenzene				92	92	66-117		



Date of Report: April 15, 2022
 Samples Submitted: March 31, 2022
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**DIESEL AND HEAVY OIL RANGE ORGANICS
 NWTPH-Dx
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0408W1					
Diesel Range Organics	ND	0.16	NWTPH-Dx	4-8-22	4-8-22	
Lube Oil Range Organics	ND	0.16	NWTPH-Dx	4-8-22	4-8-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	103	50-150				

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	04-017-02							
	ORIG	DUP						
Diesel Range	ND	ND	NA	NA	NA	NA	NA	NA
Lube Oil Range	ND	ND	NA	NA	NA	NA	NA	NA
<i>Surrogate:</i>								
<i>o-Terphenyl</i>				98	90	50-150		



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VOLATILE ORGANICS EPA 8260D
QUALITY CONTROL
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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0401W2					
Dichlorodifluoromethane	ND	0.20	EPA 8260D	4-1-22	4-1-22	
Chloromethane	ND	1.0	EPA 8260D	4-1-22	4-1-22	
Vinyl Chloride	ND	0.20	EPA 8260D	4-1-22	4-1-22	
Bromomethane	ND	1.0	EPA 8260D	4-1-22	4-1-22	
Chloroethane	ND	1.0	EPA 8260D	4-1-22	4-1-22	
Trichlorofluoromethane	ND	0.20	EPA 8260D	4-1-22	4-1-22	
1,1-Dichloroethene	ND	0.20	EPA 8260D	4-1-22	4-1-22	
Acetone	ND	5.0	EPA 8260D	4-1-22	4-1-22	
Iodomethane	ND	5.0	EPA 8260D	4-1-22	4-1-22	
Carbon Disulfide	ND	0.20	EPA 8260D	4-1-22	4-1-22	
Methylene Chloride	ND	1.0	EPA 8260D	4-1-22	4-1-22	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	4-1-22	4-1-22	
Methyl t-Butyl Ether	ND	0.20	EPA 8260D	4-1-22	4-1-22	
1,1-Dichloroethane	ND	0.20	EPA 8260D	4-1-22	4-1-22	
Vinyl Acetate	ND	1.0	EPA 8260D	4-1-22	4-1-22	
2,2-Dichloropropane	ND	0.20	EPA 8260D	4-1-22	4-1-22	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	4-1-22	4-1-22	
2-Butanone	ND	5.0	EPA 8260D	4-1-22	4-1-22	
Bromochloromethane	ND	0.20	EPA 8260D	4-1-22	4-1-22	
Chloroform	ND	0.20	EPA 8260D	4-1-22	4-1-22	
1,1,1-Trichloroethane	ND	0.20	EPA 8260D	4-1-22	4-1-22	
Carbon Tetrachloride	ND	0.20	EPA 8260D	4-1-22	4-1-22	
1,1-Dichloropropene	ND	0.20	EPA 8260D	4-1-22	4-1-22	
Benzene	ND	0.20	EPA 8260D	4-1-22	4-1-22	
1,2-Dichloroethane	ND	0.20	EPA 8260D	4-1-22	4-1-22	
Trichloroethene	ND	0.20	EPA 8260D	4-1-22	4-1-22	
1,2-Dichloropropane	ND	0.20	EPA 8260D	4-1-22	4-1-22	
Dibromomethane	ND	0.20	EPA 8260D	4-1-22	4-1-22	
Bromodichloromethane	ND	0.20	EPA 8260D	4-1-22	4-1-22	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260D	4-1-22	4-1-22	
Methyl Isobutyl Ketone	ND	2.0	EPA 8260D	4-1-22	4-1-22	
Toluene	ND	1.0	EPA 8260D	4-1-22	4-1-22	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260D	4-1-22	4-1-22	



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**VOLATILE ORGANICS EPA 8260D
 QUALITY CONTROL**

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0401W2					
1,1,2-Trichloroethane	ND	0.20	EPA 8260D	4-1-22	4-1-22	
Tetrachloroethene	ND	0.20	EPA 8260D	4-1-22	4-1-22	
1,3-Dichloropropane	ND	0.20	EPA 8260D	4-1-22	4-1-22	
2-Hexanone	ND	2.0	EPA 8260D	4-1-22	4-1-22	
Dibromochloromethane	ND	0.20	EPA 8260D	4-1-22	4-1-22	
1,2-Dibromoethane	ND	0.20	EPA 8260D	4-1-22	4-1-22	
Chlorobenzene	ND	0.20	EPA 8260D	4-1-22	4-1-22	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260D	4-1-22	4-1-22	
Ethylbenzene	ND	0.20	EPA 8260D	4-1-22	4-1-22	
m,p-Xylene	ND	0.40	EPA 8260D	4-1-22	4-1-22	
o-Xylene	ND	0.20	EPA 8260D	4-1-22	4-1-22	
Styrene	ND	0.20	EPA 8260D	4-1-22	4-1-22	
Bromoform	ND	1.0	EPA 8260D	4-1-22	4-1-22	
Isopropylbenzene	ND	0.20	EPA 8260D	4-1-22	4-1-22	
Bromobenzene	ND	0.20	EPA 8260D	4-1-22	4-1-22	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260D	4-1-22	4-1-22	
1,2,3-Trichloropropane	ND	0.20	EPA 8260D	4-1-22	4-1-22	
n-Propylbenzene	ND	0.20	EPA 8260D	4-1-22	4-1-22	
2-Chlorotoluene	ND	0.20	EPA 8260D	4-1-22	4-1-22	
4-Chlorotoluene	ND	0.20	EPA 8260D	4-1-22	4-1-22	
1,3,5-Trimethylbenzene	ND	0.20	EPA 8260D	4-1-22	4-1-22	
tert-Butylbenzene	ND	0.20	EPA 8260D	4-1-22	4-1-22	
1,2,4-Trimethylbenzene	ND	0.20	EPA 8260D	4-1-22	4-1-22	
sec-Butylbenzene	ND	0.20	EPA 8260D	4-1-22	4-1-22	
1,3-Dichlorobenzene	ND	0.20	EPA 8260D	4-1-22	4-1-22	
p-Isopropyltoluene	ND	0.20	EPA 8260D	4-1-22	4-1-22	
1,4-Dichlorobenzene	ND	0.20	EPA 8260D	4-1-22	4-1-22	
1,2-Dichlorobenzene	ND	0.20	EPA 8260D	4-1-22	4-1-22	
n-Butylbenzene	ND	0.20	EPA 8260D	4-1-22	4-1-22	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260D	4-1-22	4-1-22	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260D	4-1-22	4-1-22	
Hexachlorobutadiene	ND	1.0	EPA 8260D	4-1-22	4-1-22	
Naphthalene	ND	1.0	EPA 8260D	4-1-22	4-1-22	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260D	4-1-22	4-1-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>109</i>	<i>75-127</i>				
<i>Toluene-d8</i>	<i>103</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>103</i>	<i>78-125</i>				



Date of Report: April 15, 2022
 Samples Submitted: March 31, 2022
 Laboratory Reference: 2203-363
 Project: 6694-002-05

**VOLATILE ORGANICS EPA 8260D
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD	RPD	Flags
					SB	SBD	Limits	RPD	Limit	
SPIKE BLANKS										
Laboratory ID:	SB0401W2									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	9.88	10.0	10.0	10.0	99	100	78-125	1	19	
Benzene	10.1	10.1	10.0	10.0	101	101	80-119	0	16	
Trichloroethene	9.97	9.94	10.0	10.0	100	99	80-121	0	18	
Toluene	9.28	9.00	10.0	10.0	93	90	80-117	3	18	
Chlorobenzene	10.2	10.3	10.0	10.0	102	103	80-117	1	17	
<i>Surrogate:</i>										
Dibromofluoromethane					109	108	75-127			
Toluene-d8					100	99	80-127			
4-Bromofluorobenzene					107	106	78-125			



Date of Report: April 15, 2022
 Samples Submitted: March 31, 2022
 Laboratory Reference: 2203-363
 Project: 6694-002-05

**SEMIVOLATILE ORGANICS EPA 8270E/SIM
 QUALITY CONTROL**

page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0404W1					
n-Nitrosodimethylamine	ND	1.0	EPA 8270E	4-4-22	4-4-22	
Pyridine	ND	1.0	EPA 8270E	4-4-22	4-4-22	
Phenol	ND	1.0	EPA 8270E	4-4-22	4-4-22	
Aniline	ND	5.0	EPA 8270E	4-4-22	4-4-22	
bis(2-Chloroethyl)ether	ND	1.0	EPA 8270E	4-4-22	4-4-22	
2-Chlorophenol	ND	1.0	EPA 8270E	4-4-22	4-4-22	
1,3-Dichlorobenzene	ND	1.0	EPA 8270E	4-4-22	4-4-22	
1,4-Dichlorobenzene	ND	1.0	EPA 8270E	4-4-22	4-4-22	
Benzyl alcohol	ND	1.0	EPA 8270E	4-4-22	4-4-22	
1,2-Dichlorobenzene	ND	1.0	EPA 8270E	4-4-22	4-4-22	
2-Methylphenol (o-Cresol)	ND	1.0	EPA 8270E	4-4-22	4-4-22	
bis(2-Chloroisopropyl)ether	ND	1.0	EPA 8270E	4-4-22	4-4-22	
(3+4)-Methylphenol (m,p-Cresol)	ND	1.0	EPA 8270E	4-4-22	4-4-22	
n-Nitroso-di-n-propylamine	ND	1.0	EPA 8270E	4-4-22	4-4-22	
Hexachloroethane	ND	1.0	EPA 8270E	4-4-22	4-4-22	
Nitrobenzene	ND	1.0	EPA 8270E	4-4-22	4-4-22	
Isophorone	ND	1.0	EPA 8270E	4-4-22	4-4-22	
2-Nitrophenol	ND	1.0	EPA 8270E	4-4-22	4-4-22	
2,4-Dimethylphenol	ND	1.0	EPA 8270E	4-4-22	4-4-22	
bis(2-Chloroethoxy)methane	ND	1.0	EPA 8270E	4-4-22	4-4-22	
2,4-Dichlorophenol	ND	1.0	EPA 8270E	4-4-22	4-4-22	
1,2,4-Trichlorobenzene	ND	1.0	EPA 8270E	4-4-22	4-4-22	
Naphthalene	ND	0.10	EPA 8270E/SIM	4-4-22	4-4-22	
4-Chloroaniline	ND	1.3	EPA 8270E	4-4-22	4-4-22	
Hexachlorobutadiene	ND	1.0	EPA 8270E	4-4-22	4-4-22	
4-Chloro-3-methylphenol	ND	1.0	EPA 8270E	4-4-22	4-4-22	
2-Methylnaphthalene	ND	0.10	EPA 8270E/SIM	4-4-22	4-4-22	
1-Methylnaphthalene	ND	0.10	EPA 8270E/SIM	4-4-22	4-4-22	
Hexachlorocyclopentadiene	ND	1.0	EPA 8270E	4-4-22	4-4-22	
2,4,6-Trichlorophenol	ND	1.0	EPA 8270E	4-4-22	4-4-22	
2,3-Dichloroaniline	ND	1.0	EPA 8270E	4-4-22	4-4-22	
2,4,5-Trichlorophenol	ND	1.0	EPA 8270E	4-4-22	4-4-22	
2-Chloronaphthalene	ND	1.0	EPA 8270E	4-4-22	4-4-22	
2-Nitroaniline	ND	1.0	EPA 8270E	4-4-22	4-4-22	
1,4-Dinitrobenzene	ND	1.0	EPA 8270E	4-4-22	4-4-22	
Dimethylphthalate	ND	5.0	EPA 8270E	4-4-22	4-4-22	
1,3-Dinitrobenzene	ND	1.0	EPA 8270E	4-4-22	4-4-22	
2,6-Dinitrotoluene	ND	1.0	EPA 8270E	4-4-22	4-4-22	
1,2-Dinitrobenzene	ND	1.0	EPA 8270E	4-4-22	4-4-22	
Acenaphthylene	ND	0.10	EPA 8270E/SIM	4-4-22	4-4-22	
3-Nitroaniline	ND	1.0	EPA 8270E	4-4-22	4-4-22	



Date of Report: April 15, 2022
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**SEMIVOLATILE ORGANICS EPA 8270E/SIM
 QUALITY CONTROL**

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0404W1					
2,4-Dinitrophenol	ND	5.0	EPA 8270E	4-4-22	4-4-22	
Acenaphthene	ND	0.10	EPA 8270E/SIM	4-4-22	4-4-22	
4-Nitrophenol	ND	5.0	EPA 8270E	4-4-22	4-4-22	
2,4-Dinitrotoluene	ND	1.0	EPA 8270E	4-4-22	4-4-22	
Dibenzofuran	ND	1.0	EPA 8270E	4-4-22	4-4-22	
2,3,5,6-Tetrachlorophenol	ND	1.0	EPA 8270E	4-4-22	4-4-22	
2,3,4,6-Tetrachlorophenol	ND	1.0	EPA 8270E	4-4-22	4-4-22	
Diethylphthalate	ND	1.0	EPA 8270E	4-4-22	4-4-22	
4-Chlorophenyl-phenylether	ND	1.0	EPA 8270E	4-4-22	4-4-22	
4-Nitroaniline	ND	1.0	EPA 8270E	4-4-22	4-4-22	
Fluorene	ND	0.10	EPA 8270E/SIM	4-4-22	4-4-22	
4,6-Dinitro-2-methylphenol	ND	5.0	EPA 8270E	4-4-22	4-4-22	
n-Nitrosodiphenylamine	ND	1.0	EPA 8270E	4-4-22	4-4-22	
1,2-Diphenylhydrazine	ND	1.0	EPA 8270E	4-4-22	4-4-22	
4-Bromophenyl-phenylether	ND	1.0	EPA 8270E	4-4-22	4-4-22	
Hexachlorobenzene	ND	1.0	EPA 8270E	4-4-22	4-4-22	
Pentachlorophenol	ND	5.0	EPA 8270E	4-4-22	4-4-22	
Phenanthrene	ND	0.10	EPA 8270E/SIM	4-4-22	4-4-22	
Anthracene	ND	0.10	EPA 8270E/SIM	4-4-22	4-4-22	
Carbazole	ND	1.0	EPA 8270E	4-4-22	4-4-22	
Di-n-butylphthalate	ND	5.0	EPA 8270E	4-4-22	4-4-22	
Fluoranthene	ND	0.10	EPA 8270E/SIM	4-4-22	4-4-22	
Pyrene	ND	0.10	EPA 8270E/SIM	4-4-22	4-4-22	
Butylbenzylphthalate	ND	1.0	EPA 8270E	4-4-22	4-4-22	
bis-2-Ethylhexyladipate	ND	5.0	EPA 8270E	4-4-22	4-4-22	
3,3'-Dichlorobenzidine	ND	1.0	EPA 8270E	4-4-22	4-4-22	
Benzo[a]anthracene	ND	0.010	EPA 8270E/SIM	4-4-22	4-4-22	
Chrysene	ND	0.010	EPA 8270E/SIM	4-4-22	4-4-22	
bis(2-Ethylhexyl)phthalate	ND	5.0	EPA 8270E	4-4-22	4-4-22	
Di-n-octylphthalate	ND	1.0	EPA 8270E	4-4-22	4-4-22	
Benzo[b]fluoranthene	ND	0.010	EPA 8270E/SIM	4-4-22	4-4-22	
Benzo(j,k)fluoranthene	ND	0.010	EPA 8270E/SIM	4-4-22	4-4-22	
Benzo[a]pyrene	ND	0.010	EPA 8270E/SIM	4-4-22	4-4-22	
Indeno[1,2,3-cd]pyrene	ND	0.010	EPA 8270E/SIM	4-4-22	4-4-22	
Dibenz[a,h]anthracene	ND	0.010	EPA 8270E/SIM	4-4-22	4-4-22	
Benzo[g,h,i]perylene	ND	0.010	EPA 8270E/SIM	4-4-22	4-4-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
2-Fluorophenol	43	10 - 82				
Phenol-d6	31	10 - 92				
Nitrobenzene-d5	66	32 - 105				
2-Fluorobiphenyl	71	38 - 105				
2,4,6-Tribromophenol	95	25 - 124				
Terphenyl-d14	82	42 - 116				



Date of Report: April 15, 2022
 Samples Submitted: March 31, 2022
 Laboratory Reference: 2203-363
 Project: 6694-002-05

**SEMIVOLATILE ORGANICS EPA 8270E/SIM
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB0404W1									
	SB	SBD	SB	SBD	SB	SBD				
Phenol	13.4	15.0	40.0	40.0	34	38	21 - 53	11	26	
2-Chlorophenol	27.7	30.1	40.0	40.0	69	75	38 - 92	8	28	
1,4-Dichlorobenzene	11.8	13.0	20.0	20.0	59	65	30 - 88	10	32	
n-Nitroso-di-n-propylamine	13.0	14.5	20.0	20.0	65	73	40 - 103	11	27	
1,2,4-Trichlorobenzene	12.7	13.8	20.0	20.0	64	69	37 - 95	8	29	
4-Chloro-3-methylphenol	34.7	36.8	40.0	40.0	87	92	50 - 101	6	17	
Acenaphthene	14.4	15.3	20.0	20.0	72	77	46 - 97	6	19	
4-Nitrophenol	19.5	21.8	40.0	40.0	49	55	23 - 64	11	34	
2,4-Dinitrotoluene	14.2	15.0	20.0	20.0	71	75	46 - 100	5	17	
Pentachlorophenol	56.6	58.3	40.0	40.0	142	146	39 - 123	3	29	I,I
Pyrene	17.4	18.3	20.0	20.0	87	92	52 - 107	5	19	
<i>Surrogate:</i>										
2-Fluorophenol					42	48	10 - 82			
Phenol-d6					36	39	10 - 92			
Nitrobenzene-d5					76	80	32 - 105			
2-Fluorobiphenyl					71	79	38 - 105			
2,4,6-Tribromophenol					99	104	25 - 124			
Terphenyl-d14					87	91	42 - 116			



Date of Report: April 15, 2022
 Samples Submitted: March 31, 2022
 Laboratory Reference: 2203-363
 Project: 6694-002-05

**PCBs EPA 8082A
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0405W2					
Aroclor 1016	ND	0.050	EPA 8082A	4-5-22	4-6-22	
Aroclor 1221	ND	0.050	EPA 8082A	4-5-22	4-6-22	
Aroclor 1232	ND	0.050	EPA 8082A	4-5-22	4-6-22	
Aroclor 1242	ND	0.050	EPA 8082A	4-5-22	4-6-22	
Aroclor 1248	ND	0.050	EPA 8082A	4-5-22	4-6-22	
Aroclor 1254	ND	0.050	EPA 8082A	4-5-22	4-6-22	
Aroclor 1260	ND	0.050	EPA 8082A	4-5-22	4-6-22	
Surrogate:	Percent Recovery	Control Limits				
DCB	103	42-140				

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS								
Laboratory ID:	SB0405W2							
	SB	SBD	SB	SBD	SB	SBD		
Aroclor 1260	0.461	0.496	0.500	0.500	N/A	92 99	73-131	7 12
Surrogate:								
DCB						106 111	42-140	



Date of Report: April 15, 2022
 Samples Submitted: March 31, 2022
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 Project: 6694-002-05

**ORGANOCHLORINE
 PESTICIDES EPA 8081B
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0405W2					
alpha-BHC	ND	0.0050	EPA 8081B	4-5-22	4-6-22	
gamma-BHC (Lindane)	ND	0.0050	EPA 8081B	4-5-22	4-6-22	
beta-BHC	ND	0.0050	EPA 8081B	4-5-22	4-6-22	
delta-BHC	ND	0.0050	EPA 8081B	4-5-22	4-6-22	
Heptachlor	ND	0.0050	EPA 8081B	4-5-22	4-6-22	
Aldrin	ND	0.0020	EPA 8081B	4-5-22	4-6-22	
Heptachlor Epoxide	ND	0.0030	EPA 8081B	4-5-22	4-6-22	
gamma-Chlordane	ND	0.0050	EPA 8081B	4-5-22	4-6-22	
alpha-Chlordane	ND	0.0050	EPA 8081B	4-5-22	4-6-22	
4,4'-DDE	ND	0.0050	EPA 8081B	4-5-22	4-6-22	
Endosulfan I	ND	0.0050	EPA 8081B	4-5-22	4-6-22	
Dieldrin	ND	0.0050	EPA 8081B	4-5-22	4-6-22	
Endrin	ND	0.0050	EPA 8081B	4-5-22	4-6-22	
4,4'-DDD	ND	0.0050	EPA 8081B	4-5-22	4-6-22	
Endosulfan II	ND	0.0050	EPA 8081B	4-5-22	4-6-22	
4,4'-DDT	ND	0.0050	EPA 8081B	4-5-22	4-6-22	
Endrin Aldehyde	ND	0.0050	EPA 8081B	4-5-22	4-6-22	
Methoxychlor	ND	0.010	EPA 8081B	4-5-22	4-6-22	
Endosulfan Sulfate	ND	0.0050	EPA 8081B	4-5-22	4-6-22	
Endrin Ketone	ND	0.020	EPA 8081B	4-5-22	4-6-22	
Toxaphene	ND	0.050	EPA 8081B	4-5-22	4-6-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
TCMX	57	25-114				
DCB	97	30-137				



Date of Report: April 15, 2022
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 Laboratory Reference: 2203-363
 Project: 6694-002-05

**ORGANOCHLORINE
 PESTICIDES EPA 8081B
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS											
Laboratory ID:	SB0405W3										
	SB	SBD	SB	SBD		SB	SBD				
alpha-BHC	0.0840	0.0856	0.100	0.100	N/A	84	86	42-113	2	19	
gamma-BHC (Lindane)	0.0840	0.0860	0.100	0.100	N/A	84	86	45-114	2	15	
beta-BHC	0.0805	0.0794	0.100	0.100	N/A	81	79	40-118	1	15	
delta-BHC	0.0949	0.0963	0.100	0.100	N/A	95	96	20-125	1	15	
Heptachlor	0.0778	0.0826	0.100	0.100	N/A	78	83	41-120	6	16	
Aldrin	0.0709	0.0770	0.100	0.100	N/A	71	77	35-115	8	15	
Heptachlor Epoxide	0.0822	0.0815	0.100	0.100	N/A	82	82	50-118	1	15	
gamma-Chlordane	0.0788	0.0803	0.100	0.100	N/A	79	80	46-110	2	15	
alpha-Chlordane	0.0763	0.0773	0.100	0.100	N/A	76	77	38-112	1	15	
4,4'-DDE	0.0811	0.0809	0.100	0.100	N/A	81	81	41-127	0	15	
Endosulfan I	0.0885	0.0887	0.100	0.100	N/A	88	89	45-119	0	15	
Dieldrin	0.0864	0.0868	0.100	0.100	N/A	86	87	46-115	0	15	
Endrin	0.0906	0.0912	0.100	0.100	N/A	91	91	52-124	1	15	
4,4'-DDD	0.0967	0.0965	0.100	0.100	N/A	97	96	52-121	0	15	
Endosulfan II	0.0841	0.0838	0.100	0.100	N/A	84	84	44-114	0	15	
4,4'-DDT	0.0892	0.0863	0.100	0.100	N/A	89	86	48-123	3	15	
Endrin Aldehyde	0.0786	0.0777	0.100	0.100	N/A	79	78	45-114	1	15	
Methoxychlor	0.0861	0.0837	0.100	0.100	N/A	86	84	49-130	3	15	
Endosulfan Sulfate	0.0819	0.0813	0.100	0.100	N/A	82	81	39-117	1	15	
Endrin Ketone	0.0796	0.0793	0.100	0.100	N/A	80	79	53-119	0	15	
Surrogate:											
TCMX						53	58	25-114			
DCB						88	88	30-137			



Date of Report: April 15, 2022
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 Laboratory Reference: 2203-363
 Project: 6694-002-05

TOTAL METALS
EPA 200.8/200.7/7470A
QUALITY CONTROL

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0406WH1					
Iron	ND	50	EPA 200.7	4-6-22	4-6-22	
Magnesium	ND	1000	EPA 200.7	4-6-22	4-6-22	
Manganese	ND	10	EPA 200.7	4-6-22	4-6-22	
Laboratory ID:	MB0406WM1					
Arsenic	ND	3.3	EPA 200.8	4-6-22	4-6-22	
Cadmium	ND	4.4	EPA 200.8	4-6-22	4-6-22	
Chromium	ND	11	EPA 200.8	4-6-22	4-6-22	
Copper	ND	11	EPA 200.8	4-6-22	4-6-22	
Lead	ND	1.1	EPA 200.8	4-6-22	4-6-22	
Nickel	ND	22	EPA 200.8	4-6-22	4-6-22	
Selenium	ND	5.6	EPA 200.8	4-6-22	4-6-22	
Zinc	ND	28	EPA 200.8	4-6-22	4-6-22	
Laboratory ID:	MB0404W1					
Mercury	ND	0.025	EPA 7470A	4-4-22	4-4-22	



Date of Report: April 15, 2022
 Samples Submitted: March 31, 2022
 Laboratory Reference: 2203-363
 Project: 6694-002-05

TOTAL METALS
EPA 200.8/200.7/7470A
QUALITY CONTROL

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result		Spike Level		Source	Percent	Recovery	RPD		Flags
					Result	Recovery	Limits	RPD	Limit	
DUPLICATE										
Laboratory ID:	03-363-01									
	ORIG	DUP								
Iron	1900	1870	NA	NA		NA	NA	2	20	
Magnesium	10100	10100	NA	NA		NA	NA	0	20	
Manganese	393	392	NA	NA		NA	NA	0	20	
Laboratory ID:	04-007-01									
Arsenic	ND	ND	NA	NA		NA	NA	NA	20	
Cadmium	ND	ND	NA	NA		NA	NA	NA	20	
Chromium	ND	ND	NA	NA		NA	NA	NA	20	
Copper	ND	ND	NA	NA		NA	NA	NA	20	
Lead	ND	ND	NA	NA		NA	NA	NA	20	
Nickel	ND	ND	NA	NA		NA	NA	NA	20	
Selenium	ND	ND	NA	NA		NA	NA	NA	20	
Zinc	ND	ND	NA	NA		NA	NA	NA	20	
Laboratory ID:	03-363-01									
Mercury	ND	ND	NA	NA		NA	NA	NA	20	
MATRIX SPIKES										
Laboratory ID:	03-363-01									
	MS	MSD	MS	MSD		MS	MSD			
Iron	23700	24000	20000	20000	1900	109	111	75-125	1	20
Magnesium	31200	32000	20000	20000	10100	106	110	75-125	3	20
Manganese	933	958	500	500	393	108	113	75-125	3	20
Laboratory ID:	04-007-01									
Arsenic	117	104	111	111	ND	106	94	75-125	12	20
Cadmium	109	103	111	111	ND	98	93	75-125	6	20
Chromium	109	97.8	111	111	ND	99	88	75-125	11	20
Copper	106	94.2	111	111	ND	95	85	75-125	12	20
Lead	107	101	111	111	ND	96	91	75-125	6	20
Nickel	106	94.9	111	111	ND	95	86	75-125	11	20
Selenium	117	107	111	111	ND	105	96	75-125	9	20
Zinc	118	106	111	111	ND	107	95	75-125	12	20
Laboratory ID:	03-363-01									
Mercury	6.45	6.40	6.25	6.25	ND	103	102	75-125	1	20



Date of Report: April 15, 2022
 Samples Submitted: March 31, 2022
 Laboratory Reference: 2203-363
 Project: 6694-002-05

**DISSOLVED METALS
 EPA 200.8/200.7/7470A
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0406D1					
Calcium	ND	1100	EPA 200.7		4-6-22	
Iron	ND	56	EPA 200.7		4-6-22	
Magnesium	ND	1100	EPA 200.7		4-6-22	
Manganese	ND	11	EPA 200.7		4-6-22	
Potassium	ND	1100	EPA 200.7		4-6-22	
Sodium	ND	1100	EPA 200.7		4-6-22	
Laboratory ID:	MB0404F1					
Arsenic	ND	3.0	EPA 200.8		4-5-22	
Cadmium	ND	4.0	EPA 200.8		4-5-22	
Chromium	ND	10	EPA 200.8		4-5-22	
Copper	ND	10	EPA 200.8		4-5-22	
Lead	ND	1.0	EPA 200.8		4-5-22	
Nickel	ND	20	EPA 200.8		4-5-22	
Selenium	ND	5.0	EPA 200.8		4-5-22	
Zinc	ND	25	EPA 200.8		4-5-22	
Laboratory ID:	MB0401F1					
Mercury	ND	0.025	EPA 7470A	4-4-22	4-4-22	



Date of Report: April 15, 2022
 Samples Submitted: March 31, 2022
 Laboratory Reference: 2203-363
 Project: 6694-002-05

DISSOLVED METALS
EPA 200.8/200.7/7470A
QUALITY CONTROL

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result		Spike Level		Source	Percent	Recovery	RPD		Flags
					Result	Recovery	Limits	RPD	Limit	
DUPLICATE										
Laboratory ID:	03-363-01									
	ORIG	DUP								
Calcium	18400	18900	NA	NA		NA	NA	2	20	
Iron	329	323	NA	NA		NA	NA	2	20	
Magnesium	9200	9300	NA	NA		NA	NA	1	20	
Manganese	349	353	NA	NA		NA	NA	1	20	
Potassium	2500	2490	NA	NA		NA	NA	0	20	
Sodium	5740	5710	NA	NA		NA	NA	1	20	
Laboratory ID:	04-007-01									
Arsenic	ND	ND	NA	NA		NA	NA	NA	20	
Cadmium	ND	ND	NA	NA		NA	NA	NA	20	
Chromium	ND	ND	NA	NA		NA	NA	NA	20	
Copper	ND	ND	NA	NA		NA	NA	NA	20	
Lead	ND	ND	NA	NA		NA	NA	NA	20	
Nickel	ND	ND	NA	NA		NA	NA	NA	20	
Selenium	ND	ND	NA	NA		NA	NA	NA	20	
Zinc	ND	ND	NA	NA		NA	NA	NA	20	
Laboratory ID:	03-363-01									
Mercury	ND	ND	NA	NA		NA	NA	NA	20	



Date of Report: April 15, 2022
 Samples Submitted: March 31, 2022
 Laboratory Reference: 2203-363
 Project: 6694-002-05

**DISSOLVED METALS
 EPA 200.8/200.7/7470A
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result		Spike Level		Source	Percent	Recovery	RPD		
					Result	Recovery	Limits	RPD	Limit	Flags
MATRIX SPIKES										
Laboratory ID:	03-363-01									
	MS	MSD	MS	MSD		MS	MSD			
Calcium	41700	41700	22200	22200	18400	105	105	75-125	0	20
Iron	25100	25000	22200	22200	329	112	111	75-125	0	20
Magnesium	31900	31900	22200	22200	9200	102	102	75-125	0	20
Manganese	918	922	556	556	349	102	103	75-125	0	20
Potassium	27200	27200	22200	22200	2500	111	111	75-125	0	20
Sodium	28700	28700	22200	22200	5740	104	104	75-125	0	20
Laboratory ID:	04-007-01									
Arsenic	81.4	81.8	80.0	80.0	ND	102	102	75-125	0	20
Cadmium	77.4	77.0	80.0	80.0	ND	97	96	75-125	1	20
Chromium	77.8	78.4	80.0	80.0	ND	97	98	75-125	1	20
Copper	76.2	75.6	80.0	80.0	ND	95	95	75-125	1	20
Lead	77.8	77.0	80.0	80.0	ND	97	96	75-125	1	20
Nickel	76.2	77.4	80.0	80.0	ND	95	97	75-125	2	20
Selenium	86.2	82.6	80.0	80.0	ND	108	103	75-125	4	20
Zinc	81.2	81.0	80.0	80.0	ND	102	101	75-125	0	20
Laboratory ID:	03-363-01									
Mercury	6.48	6.45	6.25	6.25	ND	104	103	75-125	0	20



Date of Report: April 15, 2022
 Samples Submitted: March 31, 2022
 Laboratory Reference: 2203-363
 Project: 6694-002-05

**TOTAL ALKALINITY
 SM 2320B
 QUALITY CONTROL**

Matrix: Water
 Units: mg CaCO₃/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0404W1					
Total Alkalinity	ND	2.0	SM 2320B	4-4-22	4-4-22	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	03-363-01							
	ORIG	DUP						
Total Alkalinity	86.0	90.0	NA	NA	NA	5	10	

SPIKE BLANK								
Laboratory ID:	SB0404W1							
	SB	SB		SB				
Total Alkalinity	106	100	NA	106	89-110	NA	NA	



Date of Report: December 15, 2022
 Samples Submitted: December 7, 2022
 Laboratory Reference: 2112-075
 Project: 6694-002-05

**BICARBONATE
 SM 2320B
 QUALITY CONTROL**

Matrix: Water
 Units: mg CaCO₃/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0404W1					
Bicarbonate	ND	2.0	SM 2320B	4-4-22	4-4-22	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	03-363-01							
	ORIG	DUP						
Bicarbonate	86.0	90.0	NA	NA	NA	5	10	

SPIKE BLANK								
Laboratory ID:	SB0404W1							
	SB	SB		SB				
Bicarbonate	106	100	NA	106	89-110	NA	NA	



Date of Report: April 15, 2022
 Samples Submitted: March 31, 2022
 Laboratory Reference: 2203-363
 Project: 6694-002-05

**TOTAL DISSOLVED SOLIDS
 SM 2540C
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0401W1					
Total Dissolved Solids	ND	13	SM 2540C	4-1-22	4-4-22	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	03-366-01							
	ORIG	DUP						
Total Dissolved Solids	127	132	NA	NA	NA	4	29	

SPIKE BLANK								
Laboratory ID:	SB0401W1							
	SB	SB		SB				
Total Dissolved Solids	483	500	NA	97	84-110	NA	NA	



Date of Report: April 15, 2022
 Samples Submitted: March 31, 2022
 Laboratory Reference: 2203-363
 Project: 6694-002-05

**CHLORIDE
 SM 4500-Cl E
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0406W1					
Chloride	ND	2.0	SM 4500-Cl E	4-6-22	4-6-22	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	03-363-01							
	ORIG	DUP						
Chloride	3.87	4.14	NA	NA	NA	7	15	

MATRIX SPIKE								
Laboratory ID:	03-363-01							
	MS	MS		MS				
Chloride	56.4	50.0	3.87	105	86-115	NA	NA	

SPIKE BLANK								
Laboratory ID:	SB0406W1							
	SB	SB		SB				
Chloride	52.1	50.0	NA	104	86-115	NA	NA	



Date of Report: April 15, 2022
 Samples Submitted: March 31, 2022
 Laboratory Reference: 2203-363
 Project: 6694-002-05

**NITRATE (as Nitrogen)
 EPA 353.2
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L-N

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0408W1					
Nitrate	ND	0.050	EPA 353.2	4-8-22	4-8-22	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	03-363-01							
	ORIG	DUP						
Nitrate	ND	ND	NA	NA	NA	NA	16	

MATRIX SPIKE								
Laboratory ID:	03-363-01							
	MS	MS		MS				
Nitrate	2.24	2.00	ND	112	92-125	NA	NA	

SPIKE BLANK								
Laboratory ID:	SB0408W1							
	SB	SB		SB				
Nitrate	2.08	2.00	NA	104	90-121	NA	NA	



Date of Report: April 15, 2022
 Samples Submitted: March 31, 2022
 Laboratory Reference: 2203-363
 Project: 6694-002-05

**SULFATE
 ASTM D516-11
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0401W1					
Sulfate	ND	5.0	ASTM D516-11	4-1-22	4-1-22	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	03-363-01							
	ORIG	DUP						
Sulfate	ND	ND	NA	NA	NA	NA	10	

MATRIX SPIKE								
Laboratory ID:	03-363-01							
	MS	MS		MS				
Sulfate	12.0	10.0	ND	120	69-139	NA	NA	

SPIKE BLANK								
Laboratory ID:	SB0401W1							
	SB	SB		SB				
Sulfate	10.4	10.0	NA	104	89-117	NA	NA	



Date of Report: April 15, 2022
 Samples Submitted: March 31, 2022
 Laboratory Reference: 2203-363
 Project: 6694-002-05

**AMMONIA (as Nitrogen)
 SM 4500-NH₃ D
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0405W1					
Ammonia	ND	0.050	SM 4500-NH3 D	4-5-22	4-5-22	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	03-363-01							
	ORIG	DUP						
Ammonia	0.214	0.238	NA	NA	NA	11	19	

MATRIX SPIKE								
Laboratory ID:	03-363-01							
	MS	MS		MS				
Ammonia	5.18	5.00	0.214	99	80-113	NA	NA	

SPIKE BLANK								
Laboratory ID:	SB0405W1							
	SB	SB		SB				
Ammonia	5.00	5.00	NA	100	88-110	NA	NA	





Data Qualifiers and Abbreviations

- A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.
 - B - The analyte indicated was also found in the blank sample.
 - C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.
 - E - The value reported exceeds the quantitation range and is an estimate.
 - F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.
 - H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.
 - I - Compound recovery is outside of the control limits.
 - J - The value reported was below the practical quantitation limit. The value is an estimate.
 - K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.
 - L - The RPD is outside of the control limits.
 - M - Hydrocarbons in the gasoline range are impacting the diesel range result.
 - M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.
 - N - Hydrocarbons in the lube oil range are impacting the diesel range result.
 - N1 - Hydrocarbons in diesel range are impacting lube oil range results.
 - O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.
 - P - The RPD of the detected concentrations between the two columns is greater than 40.
 - Q - Surrogate recovery is outside of the control limits.
 - S - Surrogate recovery data is not available due to the necessary dilution of the sample.
 - T - The sample chromatogram is not similar to a typical _____.
 - U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
 - U1 - The practical quantitation limit is elevated due to interferences present in the sample.
 - V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.
 - W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.
 - X - Sample extract treated with a mercury cleanup procedure.
 - X1 - Sample extract treated with a sulfuric acid/silica gel cleanup procedure.
 - X2 - Sample extract treated with a silica gel cleanup procedure.
 - Y - The calibration verification for this analyte exceeded the 20% drift specified in methods 8260 & 8270, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.
 - Y1 - Negative effects of the matrix from this sample on the instrument caused values for this analyte in the bracketing continuing calibration verification standard (CCVs) to be outside of 20% acceptance criteria. Because of this, quantitation limits and sample concentrations should be considered estimates.
 - Z -
- ND - Not Detected at PQL
 PQL - Practical Quantitation Limit
 RPD - Relative Percent Difference





OnSite Environmental Inc

David Baumeister
14648 NE 95th Street
Redmond, WA 98052

RE: 03-363

Work Order Number: 2204014

April 15, 2022

Attention David Baumeister:

Fremont Analytical, Inc. received 1 sample(s) on 4/1/2022 for the analyses presented in the following report.

Herbicides by EPA Method 8151A (GC/MS)

This report consists of the following:

- Case Narrative
- Analytical Results
- Applicable Quality Control Summary Reports
- Chain of Custody

All analyses were performed consistent with the Quality Assurance program of Fremont Analytical, Inc. Please contact the laboratory if you should have any questions about the results.

Thank you for using Fremont Analytical.

Sincerely,

Brianna Barnes
Project Manager

CLIENT: OnSite Environmental Inc
Project: 03-363
Work Order: 2204014

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received
2204014-001	MW1-220330	03/30/2022 3:30 PM	04/01/2022 1:03 PM

DRAFT

Note: If no "Time Collected" is supplied, a default of 12:00AM is assigned

CLIENT: OnSite Environmental Inc
Project: 03-363

I. SAMPLE RECEIPT:

Samples receipt information is recorded on the attached Sample Receipt Checklist.

II. GENERAL REPORTING COMMENTS:

Results are reported on a wet weight basis unless dry-weight correction is denoted in the units field on the analytical report ("mg/kg-dry" or "ug/kg-dry").

Matrix Spike (MS) and MS Duplicate (MSD) samples are tested from an analytical batch of "like" matrix to check for possible matrix effect. The MS and MSD will provide site specific matrix data only for those samples which are spiked by the laboratory. The sample chosen for spike purposes may or may not have been a sample submitted in this sample delivery group. The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The LCS and the MB are processed with the samples and the MS/MSD to ensure method criteria are achieved throughout the entire analytical process.

III. ANALYSES AND EXCEPTIONS:

Exceptions associated with this report will be footnoted in the analytical results page(s) or the quality control summary page(s) and/or noted below.

DRAFT

Qualifiers:

- * - Flagged value is not within established control limits
- B - Analyte detected in the associated Method Blank
- D - Dilution was required
- E - Value above quantitation range
- H - Holding times for preparation or analysis exceeded
- I - Analyte with an internal standard that does not meet established acceptance criteria
- J - Analyte detected below Reporting Limit
- N - Tentatively Identified Compound (TIC)
- Q - Analyte with an initial or continuing calibration that does not meet established acceptance criteria
- S - Spike recovery outside accepted recovery limits
- ND - Not detected at the Reporting Limit
- R - High relative percent difference observed

Acronyms:

- %Rec - Percent Recovery
- CCB - Continued Calibration Blank
- CCV - Continued Calibration Verification
- DF - Dilution Factor
- DUP - Sample Duplicate
- HEM - Hexane Extractable Material
- ICV - Initial Calibration Verification
- LCS/LCSD - Laboratory Control Sample / Laboratory Control Sample Duplicate
- MCL - Maximum Contaminant Level
- MB or MBLANK - Method Blank
- MDL - Method Detection Limit
- MS/MSD - Matrix Spike / Matrix Spike Duplicate
- PDS - Post Digestion Spike
- Ref Val - Reference Value
- REP - Sample Replicate
- RL - Reporting Limit
- RPD - Relative Percent Difference
- SD - Serial Dilution
- SGT - Silica Gel Treatment
- SPK - Spike
- Surr - Surrogate



Client: OnSite Environmental Inc

Collection Date: 3/30/2022 3:30:00 PM

Project: 03-363

Lab ID: 2204014-001

Matrix: Water

Client Sample ID: MW1-220330

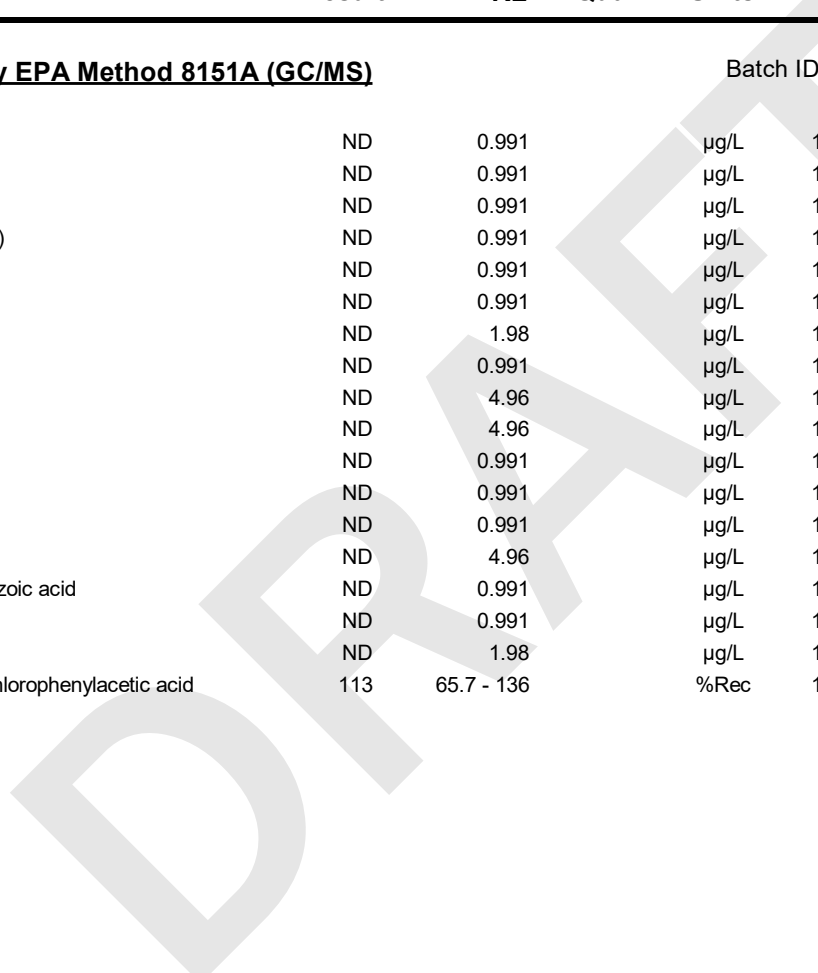
Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Herbicides by EPA Method 8151A (GC/MS)

Batch ID: 36002

Analyst: SB

Dicamba	ND	0.991		µg/L	1	4/7/2022 5:21:54 PM
2,4-D	ND	0.991		µg/L	1	4/7/2022 5:21:54 PM
2,4-DP	ND	0.991		µg/L	1	4/7/2022 5:21:54 PM
2,4,5-TP (Silvex)	ND	0.991		µg/L	1	4/7/2022 5:21:54 PM
2,4,5-T	ND	0.991		µg/L	1	4/7/2022 5:21:54 PM
Dinoseb	ND	0.991		µg/L	1	4/7/2022 5:21:54 PM
Dalapon	ND	1.98		µg/L	1	4/7/2022 5:21:54 PM
2,4-DB	ND	0.991		µg/L	1	4/7/2022 5:21:54 PM
MCPP	ND	4.96		µg/L	1	4/7/2022 5:21:54 PM
MCPA	ND	4.96		µg/L	1	4/7/2022 5:21:54 PM
Picloram	ND	0.991		µg/L	1	4/7/2022 5:21:54 PM
Bentazon	ND	0.991		µg/L	1	4/7/2022 5:21:54 PM
Chloramben	ND	0.991		µg/L	1	4/7/2022 5:21:54 PM
Acifluorfen	ND	4.96		µg/L	1	4/7/2022 5:21:54 PM
3,5-Dichlorobenzoic acid	ND	0.991		µg/L	1	4/7/2022 5:21:54 PM
4-Nitrophenol	ND	0.991		µg/L	1	4/7/2022 5:21:54 PM
Dacthal (DCPA)	ND	1.98		µg/L	1	4/7/2022 5:21:54 PM
Surr: 2,4-Dichlorophenylacetic acid	113	65.7 - 136		%Rec	1	4/7/2022 5:21:54 PM



Work Order: 2204014
 CLIENT: OnSite Environmental Inc
 Project: 03-363

QC SUMMARY REPORT
Herbicides by EPA Method 8151A (GC/MS)

Sample ID: MB-36002	SampType: MBLK	Units: µg/L	Prep Date: 4/5/2022	RunNo: 74678							
Client ID: MBLKW	Batch ID: 36002		Analysis Date: 4/7/2022	SeqNo: 1532325							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Dicamba	ND	1.00									
2,4-D	ND	1.00									
2,4-DP	ND	1.00									
2,4,5-TP (Silvex)	ND	1.00									
2,4,5-T	ND	1.00									
Dinoseb	ND	1.00									
Dalapon	ND	2.00									
2,4-DB	ND	1.00									
MCPP	ND	5.00									
MCPA	ND	5.00									
Picloram	ND	1.00									
Bentazon	ND	1.00									
Chloramben	ND	1.00									
Acifluorfen	ND	5.00									
3,5-Dichlorobenzoic acid	ND	1.00									
4-Nitrophenol	ND	1.00									
Dacthal (DCPA)	ND	2.00									
Surr: 2,4-Dichlorophenylacetic acid	20.8		20.00		104	65.7	136				

Sample ID: LCS-36002	SampType: LCS	Units: µg/L	Prep Date: 4/5/2022	RunNo: 74678							
Client ID: LCSW	Batch ID: 36002		Analysis Date: 4/7/2022	SeqNo: 1532326							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Dicamba	4.22	1.00	4.000	0	106	16.6	148				
2,4-D	4.30	1.00	4.000	0	108	50.4	150				
2,4-DP	3.83	1.00	4.000	0	95.7	53	135				
2,4,5-TP (Silvex)	4.20	1.00	4.000	0	105	53.6	140				
2,4,5-T	4.13	1.00	4.000	0	103	50	141				
Dinoseb	3.26	1.00	4.000	0	81.5	5	119				
Dalapon	16.2	2.00	20.00	0	81.2	5.65	97.2				

Work Order: 2204014
 CLIENT: OnSite Environmental Inc
 Project: 03-363

QC SUMMARY REPORT
Herbicides by EPA Method 8151A (GC/MS)

Sample ID: LCS-36002	SampType: LCS	Units: µg/L				Prep Date: 4/5/2022	RunNo: 74678				
Client ID: LCSW	Batch ID: 36002					Analysis Date: 4/7/2022	SeqNo: 1532326				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
2,4-DB	3.74	1.00	4.000	0	93.6	54.9	141				
MCPP	20.8	5.00	20.00	0	104	28.7	166				
MCPA	20.8	5.00	20.00	0	104	20.7	176				
Picloram	2.91	1.00	4.000	0	72.9	9.72	120				
Bentazon	4.12	1.00	4.000	0	103	41.2	141				
Chloramben	2.99	1.00	4.000	0	74.7	5	109				
Acifluorfen	3.42	5.00	4.000	0	85.5	7.62	139				
3,5-Dichlorobenzoic acid	4.27	1.00	4.000	0	107	52.4	120				
4-Nitrophenol	2.97	1.00	4.000	0	74.2	5	107				
Dacthal (DCPA)	2.29	2.00	4.000	0	57.3	5	65.4				
Surr: 2,4-Dichlorophenylacetic acid	25.1		20.00		125	65.7	136				

Sample ID: LCS-36002	SampType: LCS	Units: µg/L				Prep Date: 4/5/2022	RunNo: 74678				
Client ID: LCSW02	Batch ID: 36002					Analysis Date: 4/7/2022	SeqNo: 1532327				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dicamba	4.63	1.00	4.000	0	116	16.6	148	4.224	9.20	30	
2,4-D	4.70	1.00	4.000	0	118	50.4	150	4.303	8.86	30	
2,4-DP	4.19	1.00	4.000	0	105	53	135	3.827	9.09	30	
2,4,5-TP (Silvex)	4.60	1.00	4.000	0	115	53.6	140	4.200	9.03	30	
2,4,5-T	4.51	1.00	4.000	0	113	50	141	4.135	8.75	30	
Dinoseb	3.87	1.00	4.000	0	96.7	5	119	3.259	17.1	30	
Dalapon	17.1	2.00	20.00	0	85.4	5.65	97.2	16.23	5.06	30	
2,4-DB	4.09	1.00	4.000	0	102	54.9	141	3.743	8.97	30	
MCPP	23.0	5.00	20.00	0	115	28.7	166	20.84	9.93	30	
MCPA	23.0	5.00	20.00	0	115	20.7	176	20.79	10.1	30	
Picloram	3.01	1.00	4.000	0	75.3	9.72	120	2.914	3.28	30	
Bentazon	4.33	1.00	4.000	0	108	41.2	141	4.124	4.86	30	
Chloramben	2.49	1.00	4.000	0	62.2	5	109	2.986	18.2	30	
Acifluorfen	3.81	5.00	4.000	0	95.3	7.62	139	3.420	10.8	30	

Work Order: 2204014
 CLIENT: OnSite Environmental Inc
 Project: 03-363

QC SUMMARY REPORT
Herbicides by EPA Method 8151A (GC/MS)

Sample ID: LCS D-36002	SampType: LCS D	Units: µg/L	Prep Date: 4/5/2022	RunNo: 74678							
Client ID: LCS W02	Batch ID: 36002		Analysis Date: 4/7/2022	SeqNo: 1532327							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
3,5-Dichlorobenzoic acid	4.56	1.00	4.000	0	114	52.4	120	4.271	6.60	30	
4-Nitrophenol	0.868	1.00	4.000	0	21.7	5	107	2.969	110	30	R
Dacthal (DCPA)	2.38	2.00	4.000	0	59.5	5	65.4	2.292	3.70	30	
Surr: 2,4-Dichlorophenylacetic acid	25.6		20.00		128	65.7	136		0		

NOTES:

R - High RPD observed, spike recovery is within range.

Sample ID: 2204014-001AMS	SampType: MS	Units: µg/L	Prep Date: 4/5/2022	RunNo: 74678							
Client ID: MW1-220330	Batch ID: 36002		Analysis Date: 4/7/2022	SeqNo: 1532329							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dicamba	3.91	0.993	3.973	0	98.5	31	142				
2,4-D	3.94	0.993	3.973	0	99.1	50.3	149				
2,4-DP	3.55	0.993	3.973	0	89.3	49.9	143				
2,4,5-TP (Silvex)	3.83	0.993	3.973	0	96.4	47.7	141				
2,4,5-T	3.83	0.993	3.973	0	96.3	34.4	139				
Dinoseb	3.04	0.993	3.973	0	76.5	27.3	117				
Dalapon	14.2	1.99	19.86	0	71.7	14.2	113				
2,4-DB	3.46	0.993	3.973	0	87.1	31.3	147				
MCPP	18.0	4.97	19.86	0	90.7	30.5	177				
MCPA	17.9	4.97	19.86	0	90.1	36.8	163				
Picloram	2.47	0.993	3.973	0	62.3	18.8	115				
Bentazon	3.72	0.993	3.973	0	93.6	11.9	176				
Chloramben	2.37	0.993	3.973	0	59.5	5	112				
Acifluorfen	3.06	4.97	3.973	0	77.1	28.1	146				
3,5-Dichlorobenzoic acid	3.87	0.993	3.973	0	97.4	36.2	146				
4-Nitrophenol	2.60	0.993	3.973	0	65.5	5	116				
Dacthal (DCPA)	2.00	1.99	3.973	0	50.3	5	84.6				
Surr: 2,4-Dichlorophenylacetic acid	22.0		19.86		111	65.7	136				

Client Name: ONSITE	Work Order Number: 2204014
Logged by: Clare Griggs	Date Received: 4/1/2022 1:03:00 PM

Chain of Custody

1. Is Chain of Custody complete? Yes No Not Present
2. How was the sample delivered? Courier

Log In

3. Coolers are present? Yes No NA
4. Shipping container/cooler in good condition? Yes No
5. Custody Seals present on shipping container/cooler?
(Refer to comments for Custody Seals not intact) Yes No Not Present
6. Was an attempt made to cool the samples? Yes No NA
7. Were all items received at a temperature of >2°C to 6°C * Yes No NA
8. Sample(s) in proper container(s)? Yes No
9. Sufficient sample volume for indicated test(s)? Yes No
10. Are samples properly preserved? Yes No
11. Was preservative added to bottles? Yes No NA
12. Is there headspace in the VOA vials? Yes No NA
13. Did all samples containers arrive in good condition(unbroken)? Yes No
14. Does paperwork match bottle labels? Yes No
15. Are matrices correctly identified on Chain of Custody? Yes No
16. Is it clear what analyses were requested? Yes No
17. Were all holding times able to be met? Yes No

Special Handling (if applicable)

18. Was client notified of all discrepancies with this order? Yes No NA

Person Notified:	<input type="text"/>	Date:	<input type="text"/>
By Whom:	<input type="text"/>	Via:	<input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:	<input type="text"/>		
Client Instructions:	<input type="text"/>		

19. Additional remarks:

Item Information

Item #	Temp °C
Sample	5.9

* Note: DoD/ELAP and TNI require items to be received at 4°C +/- 2°C



14648 NE 95th Street, Redmond, WA 98052 · (425) 883-3881

2204014 Page 1 of 1

Page 10 of 10

Laboratory: Fremont Analytical

Attention: Chelsea Ward

3600 Fremont Avenue N, Seattle, WA 98103

Phone Number: (206) 352-3790

Turnaround Request

1 Day 2 Day 3 Day

Standard

Other: _____

Laboratory Reference #: 03-363

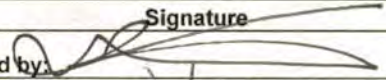
Project Manager: David Baumeister

email: dbaumeister@onsite-env.com

Project Number: 6694-002-05

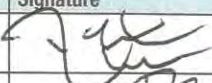

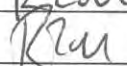
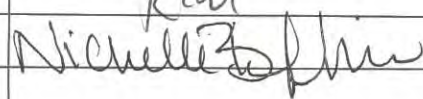
Project Name: _____

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	# of Cont.	Requested Analyses
	MW1-220330	3/30/22	15:30	W	1	Chlorinated Acid Herbicides 8151

Signature	Company	Date	Time	Comments/Special Instructions
	FAI	4/1/22	1200	EDDs Hold Time 4/6 15:30
Received by: Van	Spdy	4/1/22	1200	
Relinquished by: Van	Spdy	4/1/22	1300	
Received by: Alex Jozep	FAI	4/1/22	13:03	
Relinquished by:				
Received by:				

Chain of Custody

Turnaround Request (in working days) (Check One) <input type="checkbox"/> Same Day <input type="checkbox"/> 1 Day <input type="checkbox"/> 2 Days <input type="checkbox"/> 3 Days <input checked="" type="checkbox"/> Standard (7 Days) <input type="checkbox"/> _____ (other)			Number of Containers	Laboratory Number: 03-363																													
Company: <u>GTEI</u>	Project Number: <u>6694-002-05</u>	Project Name: <u>Go East</u>		Project Manager: <u>Garrett Leque</u>	Sampled by: <u>de</u>	Lab ID	NB	Sample Identification	Date Sampled	Time Sampled	Matrix	NMTPH-HCID	NMTPH-Gx/BTEX (8021 <input type="checkbox"/> 8260 <input type="checkbox"/>)	NMTPH-Gx	NMTPH-Dx (Acid / SG Clean-up <input type="checkbox"/>)	Volatiles 8260	Halogenated Volatiles 8260	EDB EPA 8011 (Waters Only)	Semivolatiles 8270/SIM (with low-level PAHs)	PAHs 8270/SIM (low-level)	PCBs 8082	Organochlorine Pesticides 8081	Organophosphorus Pesticides 8270/SIM	Chlorinated Acid Herbicides 8151	Total RCRA Metals	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664	TDS	T/D metals*	Alk, Bicar b	Diss: Ca, Na, K	% Microliters Cl, NO3, SO4, NH3
					1		<u>MWI</u> <u>GW-220330</u>	<u>3/31/22</u>	<u>1530</u>	<u>GW</u>			X	X	X			X		X	X							X	X	X	X	X	

Signature	Company	Date	Time	Comments/Special Instructions
	<u>GTEI</u>	<u>3/31/22</u>	<u>1400</u>	Grant to email analytic list * metals: As, Cd, Cr, Cu, Fe, Pb, Mn, Hg, Ni, Se, Zn, mg. x- Added 4/1 NB (STA)
	<u>alpha</u>	<u>3/31/22</u>	<u>14:00</u>	
	<u>alpha</u>	<u>3/31/22</u>	<u>4:23</u>	
	<u>OSE</u>	<u>3/31/22</u>	<u>1623</u>	
Relinquished				Data Package: Standard <input type="checkbox"/> Level III <input type="checkbox"/> Level IV <input type="checkbox"/>
Received				Chromatograms with final report <input type="checkbox"/> Electronic Data Deliverables (EDDs) <input type="checkbox"/>
Reviewed/Date				



14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

April 13, 2022

Garrett Leque
GeoEngineers, Inc.
554 West Bakerview Road
Bellingham, WA 98226

Re: Analytical Data for Project 6694-002-05 T700
Laboratory Reference No. 2204-036

Dear Garrett:

Enclosed are the analytical results and associated quality control data for samples submitted on April 5, 2022.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

A handwritten signature in black ink, appearing to read "DB", with a long horizontal stroke extending to the right.

David Baumeister
Project Manager

Enclosures



OnSite Environmental, Inc. 14648 NE 95th Street, Redmond, WA 98052 (425) 883-3881

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: April 13, 2022
Samples Submitted: April 5, 2022
Laboratory Reference: 2204-036
Project: 6694-002-05 T700

Case Narrative

Samples were collected on April 4, 2022 and received by the laboratory on April 5, 2022. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

Nitrate EPA 353.2 Analysis

The reported Nitrate results are a calculated value based on the subtraction of Nitrite from the Nitrate plus Nitrite result. The Nitrite analysis, which has a 48-hour holding time, was performed within the holding time. Immediately after this analysis, an aliquot from each sample was preserved with concentrated sulfuric acid and stored at 4 degrees C. The preserved samples were then analyzed within the maximum 28-day holding time for the Nitrate plus Nitrite analysis.

Any other QA/QC issues associated with this extraction and analysis will be indicated with a footnote reference and discussed in detail on the Data Qualifier page.



Date of Report: April 13, 2022
Samples Submitted: April 5, 2022
Laboratory Reference: 2204-036
Project: 6694-002-05 T700

ANALYTICAL REPORT FOR SAMPLES

Client ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
MW-10-20220404	04-036-01	Water	4-4-22	4-5-22	
MW-9-20220404	04-036-02	Water	4-4-22	4-5-22	

DRAFT



Date of Report: April 13, 2022
 Samples Submitted: April 5, 2022
 Laboratory Reference: 2204-036
 Project: 6694-002-05 T700

GASOLINE RANGE ORGANICS
NWTPH-Gx

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-10-20220404					
Laboratory ID:	04-036-01					
Gasoline	ND	100	NWTPH-Gx	4-7-22	4-7-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	95	66-117				
Client ID:	MW-9-20220404					
Laboratory ID:	04-036-02					
Gasoline	ND	100	NWTPH-Gx	4-7-22	4-7-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	94	66-117				



Date of Report: April 13, 2022
 Samples Submitted: April 5, 2022
 Laboratory Reference: 2204-036
 Project: 6694-002-05 T700

**DIESEL AND HEAVY OIL RANGE ORGANICS
 NWTPH-Dx**

Matrix: Water
 Units: mg/L (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-10-20220404					
Laboratory ID:	04-036-01					
Diesel Range Organics	ND	0.16	NWTPH-Dx	4-8-22	4-8-22	
Lube Oil Range Organics	0.22	0.22	NWTPH-Dx	4-8-22	4-8-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	84	50-150				
Client ID:	MW-9-20220404					
Laboratory ID:	04-036-02					
Diesel Range Organics	0.20	0.16	NWTPH-Dx	4-8-22	4-8-22	
Lube Oil Range Organics	0.25	0.21	NWTPH-Dx	4-8-22	4-8-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	85	50-150				



Date of Report: April 13, 2022
 Samples Submitted: April 5, 2022
 Laboratory Reference: 2204-036
 Project: 6694-002-05 T700

VOLATILE ORGANICS EPA 8260D
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-10-20220404					
Laboratory ID:	04-036-01					
Dichlorodifluoromethane	ND	0.29	EPA 8260D	4-5-22	4-5-22	
Chloromethane	ND	1.0	EPA 8260D	4-5-22	4-5-22	
Vinyl Chloride	ND	0.20	EPA 8260D	4-5-22	4-5-22	
Bromomethane	ND	1.0	EPA 8260D	4-5-22	4-5-22	
Chloroethane	ND	1.0	EPA 8260D	4-5-22	4-5-22	
Trichlorofluoromethane	ND	0.20	EPA 8260D	4-5-22	4-5-22	
1,1-Dichloroethene	ND	0.20	EPA 8260D	4-5-22	4-5-22	
Acetone	ND	5.0	EPA 8260D	4-5-22	4-5-22	
Iodomethane	ND	2.0	EPA 8260D	4-5-22	4-5-22	
Carbon Disulfide	ND	0.20	EPA 8260D	4-5-22	4-5-22	
Methylene Chloride	ND	1.0	EPA 8260D	4-5-22	4-5-22	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	4-5-22	4-5-22	
Methyl t-Butyl Ether	ND	0.20	EPA 8260D	4-5-22	4-5-22	
1,1-Dichloroethane	ND	0.20	EPA 8260D	4-5-22	4-5-22	
Vinyl Acetate	ND	1.0	EPA 8260D	4-5-22	4-5-22	
2,2-Dichloropropane	ND	0.20	EPA 8260D	4-5-22	4-5-22	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	4-5-22	4-5-22	
2-Butanone	ND	5.0	EPA 8260D	4-5-22	4-5-22	
Bromochloromethane	ND	0.20	EPA 8260D	4-5-22	4-5-22	
Chloroform	ND	0.20	EPA 8260D	4-5-22	4-5-22	
1,1,1-Trichloroethane	ND	0.20	EPA 8260D	4-5-22	4-5-22	
Carbon Tetrachloride	ND	0.20	EPA 8260D	4-5-22	4-5-22	
1,1-Dichloropropene	ND	0.20	EPA 8260D	4-5-22	4-5-22	
Benzene	ND	0.20	EPA 8260D	4-5-22	4-5-22	
1,2-Dichloroethane	ND	0.20	EPA 8260D	4-5-22	4-5-22	
Trichloroethene	ND	0.20	EPA 8260D	4-5-22	4-5-22	
1,2-Dichloropropane	ND	0.20	EPA 8260D	4-5-22	4-5-22	
Dibromomethane	ND	0.20	EPA 8260D	4-5-22	4-5-22	
Bromodichloromethane	ND	0.20	EPA 8260D	4-5-22	4-5-22	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260D	4-5-22	4-5-22	
Methyl Isobutyl Ketone	ND	2.0	EPA 8260D	4-5-22	4-5-22	
Toluene	ND	1.0	EPA 8260D	4-5-22	4-5-22	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260D	4-5-22	4-5-22	



Date of Report: April 13, 2022
 Samples Submitted: April 5, 2022
 Laboratory Reference: 2204-036
 Project: 6694-002-05 T700

VOLATILE ORGANICS EPA 8260D
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-10-20220404					
Laboratory ID:	04-036-01					
1,1,2-Trichloroethane	ND	0.20	EPA 8260D	4-5-22	4-5-22	
Tetrachloroethene	ND	0.20	EPA 8260D	4-5-22	4-5-22	
1,3-Dichloropropane	ND	0.20	EPA 8260D	4-5-22	4-5-22	
2-Hexanone	ND	2.0	EPA 8260D	4-5-22	4-5-22	
Dibromochloromethane	ND	0.20	EPA 8260D	4-5-22	4-5-22	
1,2-Dibromoethane	ND	0.20	EPA 8260D	4-5-22	4-5-22	
Chlorobenzene	ND	0.20	EPA 8260D	4-5-22	4-5-22	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260D	4-5-22	4-5-22	
Ethylbenzene	ND	0.20	EPA 8260D	4-5-22	4-5-22	
m,p-Xylene	ND	0.40	EPA 8260D	4-5-22	4-5-22	
o-Xylene	ND	0.20	EPA 8260D	4-5-22	4-5-22	
Styrene	ND	0.20	EPA 8260D	4-5-22	4-5-22	
Bromoform	ND	1.0	EPA 8260D	4-5-22	4-5-22	
Isopropylbenzene	ND	0.20	EPA 8260D	4-5-22	4-5-22	
Bromobenzene	ND	0.20	EPA 8260D	4-5-22	4-5-22	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260D	4-5-22	4-5-22	
1,2,3-Trichloropropane	ND	0.20	EPA 8260D	4-5-22	4-5-22	
n-Propylbenzene	ND	0.20	EPA 8260D	4-5-22	4-5-22	
2-Chlorotoluene	ND	0.20	EPA 8260D	4-5-22	4-5-22	
4-Chlorotoluene	ND	0.20	EPA 8260D	4-5-22	4-5-22	
1,3,5-Trimethylbenzene	ND	0.20	EPA 8260D	4-5-22	4-5-22	
tert-Butylbenzene	ND	0.20	EPA 8260D	4-5-22	4-5-22	
1,2,4-Trimethylbenzene	ND	0.20	EPA 8260D	4-5-22	4-5-22	
sec-Butylbenzene	ND	0.20	EPA 8260D	4-5-22	4-5-22	
1,3-Dichlorobenzene	ND	0.20	EPA 8260D	4-5-22	4-5-22	
p-Isopropyltoluene	0.37	0.20	EPA 8260D	4-5-22	4-5-22	
1,4-Dichlorobenzene	ND	0.20	EPA 8260D	4-5-22	4-5-22	
1,2-Dichlorobenzene	ND	0.20	EPA 8260D	4-5-22	4-5-22	
n-Butylbenzene	ND	0.20	EPA 8260D	4-5-22	4-5-22	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260D	4-5-22	4-5-22	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260D	4-5-22	4-5-22	
Hexachlorobutadiene	ND	1.0	EPA 8260D	4-5-22	4-5-22	
Naphthalene	ND	1.0	EPA 8260D	4-5-22	4-5-22	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260D	4-5-22	4-5-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>104</i>	<i>75-127</i>				
<i>Toluene-d8</i>	<i>98</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>103</i>	<i>78-125</i>				



Date of Report: April 13, 2022
 Samples Submitted: April 5, 2022
 Laboratory Reference: 2204-036
 Project: 6694-002-05 T700

VOLATILE ORGANICS EPA 8260D
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-9-20220404					
Laboratory ID:	04-036-02					
Dichlorodifluoromethane	ND	0.29	EPA 8260D	4-5-22	4-5-22	
Chloromethane	ND	1.0	EPA 8260D	4-5-22	4-5-22	
Vinyl Chloride	ND	0.20	EPA 8260D	4-5-22	4-5-22	
Bromomethane	ND	1.0	EPA 8260D	4-5-22	4-5-22	
Chloroethane	ND	1.0	EPA 8260D	4-5-22	4-5-22	
Trichlorofluoromethane	ND	0.20	EPA 8260D	4-5-22	4-5-22	
1,1-Dichloroethene	ND	0.20	EPA 8260D	4-5-22	4-5-22	
Acetone	ND	5.0	EPA 8260D	4-5-22	4-5-22	
Iodomethane	ND	2.0	EPA 8260D	4-5-22	4-5-22	
Carbon Disulfide	ND	0.20	EPA 8260D	4-5-22	4-5-22	
Methylene Chloride	ND	1.0	EPA 8260D	4-5-22	4-5-22	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	4-5-22	4-5-22	
Methyl t-Butyl Ether	ND	0.20	EPA 8260D	4-5-22	4-5-22	
1,1-Dichloroethane	ND	0.20	EPA 8260D	4-5-22	4-5-22	
Vinyl Acetate	ND	1.0	EPA 8260D	4-5-22	4-5-22	
2,2-Dichloropropane	ND	0.20	EPA 8260D	4-5-22	4-5-22	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	4-5-22	4-5-22	
2-Butanone	ND	5.0	EPA 8260D	4-5-22	4-5-22	
Bromochloromethane	ND	0.20	EPA 8260D	4-5-22	4-5-22	
Chloroform	ND	0.20	EPA 8260D	4-5-22	4-5-22	
1,1,1-Trichloroethane	ND	0.20	EPA 8260D	4-5-22	4-5-22	
Carbon Tetrachloride	ND	0.20	EPA 8260D	4-5-22	4-5-22	
1,1-Dichloropropene	ND	0.20	EPA 8260D	4-5-22	4-5-22	
Benzene	ND	0.20	EPA 8260D	4-5-22	4-5-22	
1,2-Dichloroethane	ND	0.20	EPA 8260D	4-5-22	4-5-22	
Trichloroethene	ND	0.20	EPA 8260D	4-5-22	4-5-22	
1,2-Dichloropropane	ND	0.20	EPA 8260D	4-5-22	4-5-22	
Dibromomethane	ND	0.20	EPA 8260D	4-5-22	4-5-22	
Bromodichloromethane	ND	0.20	EPA 8260D	4-5-22	4-5-22	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260D	4-5-22	4-5-22	
Methyl Isobutyl Ketone	ND	2.0	EPA 8260D	4-5-22	4-5-22	
Toluene	ND	1.0	EPA 8260D	4-5-22	4-5-22	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260D	4-5-22	4-5-22	



Date of Report: April 13, 2022
 Samples Submitted: April 5, 2022
 Laboratory Reference: 2204-036
 Project: 6694-002-05 T700

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-9-20220404					
Laboratory ID:	04-036-02					
1,1,2-Trichloroethane	ND	0.20	EPA 8260D	4-5-22	4-5-22	
Tetrachloroethene	ND	0.20	EPA 8260D	4-5-22	4-5-22	
1,3-Dichloropropane	ND	0.20	EPA 8260D	4-5-22	4-5-22	
2-Hexanone	ND	2.0	EPA 8260D	4-5-22	4-5-22	
Dibromochloromethane	ND	0.20	EPA 8260D	4-5-22	4-5-22	
1,2-Dibromoethane	ND	0.20	EPA 8260D	4-5-22	4-5-22	
Chlorobenzene	ND	0.20	EPA 8260D	4-5-22	4-5-22	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260D	4-5-22	4-5-22	
Ethylbenzene	ND	0.20	EPA 8260D	4-5-22	4-5-22	
m,p-Xylene	ND	0.40	EPA 8260D	4-5-22	4-5-22	
o-Xylene	ND	0.20	EPA 8260D	4-5-22	4-5-22	
Styrene	ND	0.20	EPA 8260D	4-5-22	4-5-22	
Bromoform	ND	1.0	EPA 8260D	4-5-22	4-5-22	
Isopropylbenzene	ND	0.20	EPA 8260D	4-5-22	4-5-22	
Bromobenzene	ND	0.20	EPA 8260D	4-5-22	4-5-22	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260D	4-5-22	4-5-22	
1,2,3-Trichloropropane	ND	0.20	EPA 8260D	4-5-22	4-5-22	
n-Propylbenzene	ND	0.20	EPA 8260D	4-5-22	4-5-22	
2-Chlorotoluene	ND	0.20	EPA 8260D	4-5-22	4-5-22	
4-Chlorotoluene	ND	0.20	EPA 8260D	4-5-22	4-5-22	
1,3,5-Trimethylbenzene	ND	0.20	EPA 8260D	4-5-22	4-5-22	
tert-Butylbenzene	ND	0.20	EPA 8260D	4-5-22	4-5-22	
1,2,4-Trimethylbenzene	ND	0.20	EPA 8260D	4-5-22	4-5-22	
sec-Butylbenzene	ND	0.20	EPA 8260D	4-5-22	4-5-22	
1,3-Dichlorobenzene	ND	0.20	EPA 8260D	4-5-22	4-5-22	
p-Isopropyltoluene	ND	0.20	EPA 8260D	4-5-22	4-5-22	
1,4-Dichlorobenzene	ND	0.20	EPA 8260D	4-5-22	4-5-22	
1,2-Dichlorobenzene	ND	0.20	EPA 8260D	4-5-22	4-5-22	
n-Butylbenzene	ND	0.20	EPA 8260D	4-5-22	4-5-22	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260D	4-5-22	4-5-22	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260D	4-5-22	4-5-22	
Hexachlorobutadiene	ND	1.0	EPA 8260D	4-5-22	4-5-22	
Naphthalene	ND	1.0	EPA 8260D	4-5-22	4-5-22	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260D	4-5-22	4-5-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>91</i>	<i>75-127</i>				
<i>Toluene-d8</i>	<i>98</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>100</i>	<i>78-125</i>				



Date of Report: April 13, 2022
 Samples Submitted: April 5, 2022
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SEMIVOLATILE ORGANICS EPA 8270E/SIM
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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-10-20220404					
Laboratory ID:	04-036-01					
n-Nitrosodimethylamine	ND	1.0	EPA 8270E	4-7-22	4-7-22	
Pyridine	ND	1.0	EPA 8270E	4-7-22	4-7-22	
Phenol	ND	1.0	EPA 8270E	4-7-22	4-7-22	
Aniline	ND	5.1	EPA 8270E	4-7-22	4-7-22	
bis(2-Chloroethyl)ether	ND	1.0	EPA 8270E	4-7-22	4-7-22	
2-Chlorophenol	ND	1.0	EPA 8270E	4-7-22	4-7-22	
1,3-Dichlorobenzene	ND	1.0	EPA 8270E	4-7-22	4-7-22	
1,4-Dichlorobenzene	ND	1.0	EPA 8270E	4-7-22	4-7-22	
Benzyl alcohol	ND	1.0	EPA 8270E	4-7-22	4-7-22	
1,2-Dichlorobenzene	ND	1.0	EPA 8270E	4-7-22	4-7-22	
2-Methylphenol (o-Cresol)	ND	1.0	EPA 8270E	4-7-22	4-7-22	
bis(2-Chloroisopropyl)ether	ND	1.0	EPA 8270E	4-7-22	4-7-22	
(3+4)-Methylphenol (m,p-Cresol)	ND	1.0	EPA 8270E	4-7-22	4-7-22	
n-Nitroso-di-n-propylamine	ND	1.0	EPA 8270E	4-7-22	4-7-22	
Hexachloroethane	ND	1.0	EPA 8270E	4-7-22	4-7-22	
Nitrobenzene	ND	1.0	EPA 8270E	4-7-22	4-7-22	
Isophorone	ND	1.0	EPA 8270E	4-7-22	4-7-22	
2-Nitrophenol	ND	1.0	EPA 8270E	4-7-22	4-7-22	
2,4-Dimethylphenol	ND	1.0	EPA 8270E	4-7-22	4-7-22	
bis(2-Chloroethoxy)methane	ND	1.0	EPA 8270E	4-7-22	4-7-22	
2,4-Dichlorophenol	ND	1.0	EPA 8270E	4-7-22	4-7-22	
1,2,4-Trichlorobenzene	ND	1.0	EPA 8270E	4-7-22	4-7-22	
Naphthalene	ND	0.10	EPA 8270E/SIM	4-7-22	4-7-22	
4-Chloroaniline	ND	1.0	EPA 8270E	4-7-22	4-7-22	
Hexachlorobutadiene	ND	1.0	EPA 8270E	4-7-22	4-7-22	
4-Chloro-3-methylphenol	ND	1.0	EPA 8270E	4-7-22	4-7-22	
2-Methylnaphthalene	ND	0.10	EPA 8270E/SIM	4-7-22	4-7-22	
1-Methylnaphthalene	ND	0.10	EPA 8270E/SIM	4-7-22	4-7-22	
Hexachlorocyclopentadiene	ND	1.0	EPA 8270E	4-7-22	4-7-22	
2,4,6-Trichlorophenol	ND	1.0	EPA 8270E	4-7-22	4-7-22	
2,3-Dichloroaniline	ND	1.0	EPA 8270E	4-7-22	4-7-22	
2,4,5-Trichlorophenol	ND	1.0	EPA 8270E	4-7-22	4-7-22	
2-Chloronaphthalene	ND	1.0	EPA 8270E	4-7-22	4-7-22	
2-Nitroaniline	ND	1.0	EPA 8270E	4-7-22	4-7-22	
1,4-Dinitrobenzene	ND	1.0	EPA 8270E	4-7-22	4-7-22	
Dimethylphthalate	ND	5.1	EPA 8270E	4-7-22	4-7-22	
1,3-Dinitrobenzene	ND	1.0	EPA 8270E	4-7-22	4-7-22	
2,6-Dinitrotoluene	ND	1.0	EPA 8270E	4-7-22	4-7-22	
1,2-Dinitrobenzene	ND	1.0	EPA 8270E	4-7-22	4-7-22	
Acenaphthylene	ND	0.10	EPA 8270E/SIM	4-7-22	4-7-22	
3-Nitroaniline	ND	1.0	EPA 8270E	4-7-22	4-7-22	



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SEMIVOLATILE ORGANICS EPA 8270E/SIM
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-10-20220404					
Laboratory ID:	04-036-01					
2,4-Dinitrophenol	ND	5.1	EPA 8270E	4-7-22	4-7-22	
Acenaphthene	ND	0.10	EPA 8270E/SIM	4-7-22	4-7-22	
4-Nitrophenol	ND	5.1	EPA 8270E	4-7-22	4-7-22	
2,4-Dinitrotoluene	ND	1.0	EPA 8270E	4-7-22	4-7-22	
Dibenzofuran	ND	1.0	EPA 8270E	4-7-22	4-7-22	
2,3,5,6-Tetrachlorophenol	ND	1.0	EPA 8270E	4-7-22	4-7-22	
2,3,4,6-Tetrachlorophenol	ND	1.0	EPA 8270E	4-7-22	4-7-22	
Diethylphthalate	ND	1.0	EPA 8270E	4-7-22	4-7-22	
4-Chlorophenyl-phenylether	ND	1.0	EPA 8270E	4-7-22	4-7-22	
4-Nitroaniline	ND	1.0	EPA 8270E	4-7-22	4-7-22	
Fluorene	ND	0.10	EPA 8270E/SIM	4-7-22	4-7-22	
4,6-Dinitro-2-methylphenol	ND	5.1	EPA 8270E	4-7-22	4-7-22	
n-Nitrosodiphenylamine	ND	1.0	EPA 8270E	4-7-22	4-7-22	
1,2-Diphenylhydrazine	ND	1.0	EPA 8270E	4-7-22	4-7-22	
4-Bromophenyl-phenylether	ND	1.0	EPA 8270E	4-7-22	4-7-22	
Hexachlorobenzene	ND	1.0	EPA 8270E	4-7-22	4-7-22	
Pentachlorophenol	ND	5.1	EPA 8270E	4-7-22	4-7-22	
Phenanthrene	ND	0.10	EPA 8270E/SIM	4-7-22	4-7-22	
Anthracene	ND	0.10	EPA 8270E/SIM	4-7-22	4-7-22	
Carbazole	ND	1.0	EPA 8270E	4-7-22	4-7-22	
Di-n-butylphthalate	ND	5.1	EPA 8270E	4-7-22	4-7-22	
Fluoranthene	ND	0.10	EPA 8270E/SIM	4-7-22	4-7-22	
Pyrene	ND	0.10	EPA 8270E/SIM	4-7-22	4-7-22	
Butylbenzylphthalate	ND	1.0	EPA 8270E	4-7-22	4-7-22	
bis-2-Ethylhexyladipate	ND	5.1	EPA 8270E	4-7-22	4-7-22	
3,3'-Dichlorobenzidine	ND	1.0	EPA 8270E	4-7-22	4-7-22	
Benzo[a]anthracene	ND	0.010	EPA 8270E/SIM	4-7-22	4-7-22	
Chrysene	ND	0.010	EPA 8270E/SIM	4-7-22	4-7-22	
bis(2-Ethylhexyl)phthalate	ND	5.1	EPA 8270E	4-7-22	4-7-22	
Di-n-octylphthalate	ND	1.0	EPA 8270E	4-7-22	4-7-22	
Benzo[b]fluoranthene	ND	0.010	EPA 8270E/SIM	4-7-22	4-7-22	
Benzo(j,k)fluoranthene	ND	0.010	EPA 8270E/SIM	4-7-22	4-7-22	
Benzo[a]pyrene	ND	0.010	EPA 8270E/SIM	4-7-22	4-7-22	
Indeno[1,2,3-cd]pyrene	ND	0.010	EPA 8270E/SIM	4-7-22	4-7-22	
Dibenz[a,h]anthracene	ND	0.010	EPA 8270E/SIM	4-7-22	4-7-22	
Benzo[g,h,i]perylene	ND	0.010	EPA 8270E/SIM	4-7-22	4-7-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
2-Fluorophenol	42	10 - 82				
Phenol-d6	32	10 - 92				
Nitrobenzene-d5	64	32 - 105				
2-Fluorobiphenyl	70	38 - 105				
2,4,6-Tribromophenol	87	25 - 124				
Terphenyl-d14	72	42 - 116				



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SEMIVOLATILE ORGANICS EPA 8270E/SIM
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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-9-20220404					
Laboratory ID:	04-036-02					
n-Nitrosodimethylamine	ND	1.0	EPA 8270E	4-7-22	4-7-22	
Pyridine	ND	1.0	EPA 8270E	4-7-22	4-7-22	
Phenol	ND	1.0	EPA 8270E	4-7-22	4-7-22	
Aniline	ND	5.2	EPA 8270E	4-7-22	4-7-22	
bis(2-Chloroethyl)ether	ND	1.0	EPA 8270E	4-7-22	4-7-22	
2-Chlorophenol	ND	1.0	EPA 8270E	4-7-22	4-7-22	
1,3-Dichlorobenzene	ND	1.0	EPA 8270E	4-7-22	4-7-22	
1,4-Dichlorobenzene	ND	1.0	EPA 8270E	4-7-22	4-7-22	
Benzyl alcohol	ND	1.0	EPA 8270E	4-7-22	4-7-22	
1,2-Dichlorobenzene	ND	1.0	EPA 8270E	4-7-22	4-7-22	
2-Methylphenol (o-Cresol)	ND	1.0	EPA 8270E	4-7-22	4-7-22	
bis(2-Chloroisopropyl)ether	ND	1.0	EPA 8270E	4-7-22	4-7-22	
(3+4)-Methylphenol (m,p-Cresol)	ND	1.0	EPA 8270E	4-7-22	4-7-22	
n-Nitroso-di-n-propylamine	ND	1.0	EPA 8270E	4-7-22	4-7-22	
Hexachloroethane	ND	1.0	EPA 8270E	4-7-22	4-7-22	
Nitrobenzene	ND	1.0	EPA 8270E	4-7-22	4-7-22	
Isophorone	ND	1.0	EPA 8270E	4-7-22	4-7-22	
2-Nitrophenol	ND	1.0	EPA 8270E	4-7-22	4-7-22	
2,4-Dimethylphenol	ND	1.0	EPA 8270E	4-7-22	4-7-22	
bis(2-Chloroethoxy)methane	ND	1.0	EPA 8270E	4-7-22	4-7-22	
2,4-Dichlorophenol	ND	1.0	EPA 8270E	4-7-22	4-7-22	
1,2,4-Trichlorobenzene	ND	1.0	EPA 8270E	4-7-22	4-7-22	
Naphthalene	ND	0.10	EPA 8270E/SIM	4-7-22	4-7-22	
4-Chloroaniline	ND	1.0	EPA 8270E	4-7-22	4-7-22	
Hexachlorobutadiene	ND	1.0	EPA 8270E	4-7-22	4-7-22	
4-Chloro-3-methylphenol	ND	1.0	EPA 8270E	4-7-22	4-7-22	
2-Methylnaphthalene	ND	0.10	EPA 8270E/SIM	4-7-22	4-7-22	
1-Methylnaphthalene	ND	0.10	EPA 8270E/SIM	4-7-22	4-7-22	
Hexachlorocyclopentadiene	ND	1.0	EPA 8270E	4-7-22	4-7-22	
2,4,6-Trichlorophenol	ND	1.0	EPA 8270E	4-7-22	4-7-22	
2,3-Dichloroaniline	ND	1.0	EPA 8270E	4-7-22	4-7-22	
2,4,5-Trichlorophenol	ND	1.0	EPA 8270E	4-7-22	4-7-22	
2-Chloronaphthalene	ND	1.0	EPA 8270E	4-7-22	4-7-22	
2-Nitroaniline	ND	1.0	EPA 8270E	4-7-22	4-7-22	
1,4-Dinitrobenzene	ND	1.0	EPA 8270E	4-7-22	4-7-22	
Dimethylphthalate	ND	5.2	EPA 8270E	4-7-22	4-7-22	
1,3-Dinitrobenzene	ND	1.0	EPA 8270E	4-7-22	4-7-22	
2,6-Dinitrotoluene	ND	1.0	EPA 8270E	4-7-22	4-7-22	
1,2-Dinitrobenzene	ND	1.0	EPA 8270E	4-7-22	4-7-22	
Acenaphthylene	ND	0.10	EPA 8270E/SIM	4-7-22	4-7-22	
3-Nitroaniline	ND	1.0	EPA 8270E	4-7-22	4-7-22	



Date of Report: April 13, 2022
 Samples Submitted: April 5, 2022
 Laboratory Reference: 2204-036
 Project: 6694-002-05 T700

SEMIVOLATILE ORGANICS EPA 8270E/SIM
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-9-20220404					
Laboratory ID:	04-036-02					
2,4-Dinitrophenol	ND	5.2	EPA 8270E	4-7-22	4-7-22	
Acenaphthene	0.46	0.10	EPA 8270E/SIM	4-7-22	4-7-22	
4-Nitrophenol	ND	5.2	EPA 8270E	4-7-22	4-7-22	
2,4-Dinitrotoluene	ND	1.0	EPA 8270E	4-7-22	4-7-22	
Dibenzofuran	ND	1.0	EPA 8270E	4-7-22	4-7-22	
2,3,5,6-Tetrachlorophenol	ND	1.0	EPA 8270E	4-7-22	4-7-22	
2,3,4,6-Tetrachlorophenol	ND	1.0	EPA 8270E	4-7-22	4-7-22	
Diethylphthalate	ND	1.0	EPA 8270E	4-7-22	4-7-22	
4-Chlorophenyl-phenylether	ND	1.0	EPA 8270E	4-7-22	4-7-22	
4-Nitroaniline	ND	1.0	EPA 8270E	4-7-22	4-7-22	
Fluorene	0.12	0.10	EPA 8270E/SIM	4-7-22	4-7-22	
4,6-Dinitro-2-methylphenol	ND	5.2	EPA 8270E	4-7-22	4-7-22	
n-Nitrosodiphenylamine	ND	1.0	EPA 8270E	4-7-22	4-7-22	
1,2-Diphenylhydrazine	ND	1.0	EPA 8270E	4-7-22	4-7-22	
4-Bromophenyl-phenylether	ND	1.0	EPA 8270E	4-7-22	4-7-22	
Hexachlorobenzene	ND	1.0	EPA 8270E	4-7-22	4-7-22	
Pentachlorophenol	ND	5.2	EPA 8270E	4-7-22	4-7-22	
Phenanthrene	ND	0.10	EPA 8270E/SIM	4-7-22	4-7-22	
Anthracene	ND	0.10	EPA 8270E/SIM	4-7-22	4-7-22	
Carbazole	ND	1.0	EPA 8270E	4-7-22	4-7-22	
Di-n-butylphthalate	ND	5.2	EPA 8270E	4-7-22	4-7-22	
Fluoranthene	ND	0.10	EPA 8270E/SIM	4-7-22	4-7-22	
Pyrene	ND	0.10	EPA 8270E/SIM	4-7-22	4-7-22	
Butylbenzylphthalate	ND	1.0	EPA 8270E	4-7-22	4-7-22	
bis-2-Ethylhexyladipate	ND	5.2	EPA 8270E	4-7-22	4-7-22	
3,3'-Dichlorobenzidine	ND	1.0	EPA 8270E	4-7-22	4-7-22	
Benzo[a]anthracene	ND	0.010	EPA 8270E/SIM	4-7-22	4-7-22	
Chrysene	ND	0.010	EPA 8270E/SIM	4-7-22	4-7-22	
bis(2-Ethylhexyl)phthalate	ND	5.2	EPA 8270E	4-7-22	4-7-22	
Di-n-octylphthalate	ND	1.0	EPA 8270E	4-7-22	4-7-22	
Benzo[b]fluoranthene	ND	0.010	EPA 8270E/SIM	4-7-22	4-7-22	
Benzo(j,k)fluoranthene	ND	0.010	EPA 8270E/SIM	4-7-22	4-7-22	
Benzo[a]pyrene	ND	0.010	EPA 8270E/SIM	4-7-22	4-7-22	
Indeno[1,2,3-cd]pyrene	ND	0.010	EPA 8270E/SIM	4-7-22	4-7-22	
Dibenz[a,h]anthracene	ND	0.010	EPA 8270E/SIM	4-7-22	4-7-22	
Benzo[g,h,i]perylene	ND	0.010	EPA 8270E/SIM	4-7-22	4-7-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
2-Fluorophenol	44	10 - 82				
Phenol-d6	32	10 - 92				
Nitrobenzene-d5	63	32 - 105				
2-Fluorobiphenyl	69	38 - 105				
2,4,6-Tribromophenol	83	25 - 124				
Terphenyl-d14	72	42 - 116				



Date of Report: April 13, 2022
 Samples Submitted: April 5, 2022
 Laboratory Reference: 2204-036
 Project: 6694-002-05 T700

PCBs EPA 8082A

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID: MW-10-20220404						
Laboratory ID: 04-036-01						
Aroclor 1016	ND	0.054	EPA 8082A	4-5-22	4-8-22	
Aroclor 1221	ND	0.054	EPA 8082A	4-5-22	4-8-22	
Aroclor 1232	ND	0.054	EPA 8082A	4-5-22	4-8-22	
Aroclor 1242	ND	0.054	EPA 8082A	4-5-22	4-8-22	
Aroclor 1248	ND	0.054	EPA 8082A	4-5-22	4-8-22	
Aroclor 1254	ND	0.054	EPA 8082A	4-5-22	4-8-22	
Aroclor 1260	ND	0.054	EPA 8082A	4-5-22	4-8-22	
<i>Surrogate: Percent Recovery Control Limits</i>						
DCB	106	42-140				

Client ID: MW-9-20220404						
Laboratory ID: 04-036-02						
Aroclor 1016	ND	0.055	EPA 8082A	4-5-22	4-8-22	
Aroclor 1221	ND	0.055	EPA 8082A	4-5-22	4-8-22	
Aroclor 1232	ND	0.055	EPA 8082A	4-5-22	4-8-22	
Aroclor 1242	ND	0.055	EPA 8082A	4-5-22	4-8-22	
Aroclor 1248	ND	0.055	EPA 8082A	4-5-22	4-8-22	
Aroclor 1254	ND	0.055	EPA 8082A	4-5-22	4-8-22	
Aroclor 1260	ND	0.055	EPA 8082A	4-5-22	4-8-22	
<i>Surrogate: Percent Recovery Control Limits</i>						
DCB	111	42-140				



Date of Report: April 13, 2022
 Samples Submitted: April 5, 2022
 Laboratory Reference: 2204-036
 Project: 6694-002-05 T700

**ORGANOCHLORINE
 PESTICIDES EPA 8081B**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-10-20220404					
Laboratory ID:	04-036-01					
alpha-BHC	ND	0.0054	EPA 8081B	4-5-22	4-6-22	
gamma-BHC (Lindane)	ND	0.0054	EPA 8081B	4-5-22	4-6-22	
beta-BHC	ND	0.0054	EPA 8081B	4-5-22	4-6-22	
delta-BHC	ND	0.0054	EPA 8081B	4-5-22	4-6-22	
Heptachlor	ND	0.0054	EPA 8081B	4-5-22	4-6-22	
Aldrin	ND	0.0022	EPA 8081B	4-5-22	4-6-22	
Heptachlor Epoxide	ND	0.0033	EPA 8081B	4-5-22	4-6-22	
gamma-Chlordane	ND	0.0054	EPA 8081B	4-5-22	4-6-22	
alpha-Chlordane	ND	0.0054	EPA 8081B	4-5-22	4-6-22	
4,4'-DDE	ND	0.0054	EPA 8081B	4-5-22	4-6-22	
Endosulfan I	ND	0.0054	EPA 8081B	4-5-22	4-6-22	
Dieldrin	ND	0.0054	EPA 8081B	4-5-22	4-6-22	
Endrin	ND	0.0054	EPA 8081B	4-5-22	4-6-22	
4,4'-DDD	ND	0.0054	EPA 8081B	4-5-22	4-6-22	
Endosulfan II	ND	0.0054	EPA 8081B	4-5-22	4-6-22	
4,4'-DDT	ND	0.0054	EPA 8081B	4-5-22	4-6-22	Y1
Endrin Aldehyde	ND	0.0054	EPA 8081B	4-5-22	4-6-22	
Methoxychlor	0.029	0.011	EPA 8081B	4-5-22	4-6-22	
Endosulfan Sulfate	ND	0.0054	EPA 8081B	4-5-22	4-6-22	
Endrin Ketone	ND	0.022	EPA 8081B	4-5-22	4-6-22	
Toxaphene	ND	0.054	EPA 8081B	4-5-22	4-6-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
TCMX	68	25-114				
DCB	87	30-137				



Date of Report: April 13, 2022
 Samples Submitted: April 5, 2022
 Laboratory Reference: 2204-036
 Project: 6694-002-05 T700

**ORGANOCHLORINE
 PESTICIDES EPA 8081B**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-9-20220404					
Laboratory ID:	04-036-02					
alpha-BHC	ND	0.0055	EPA 8081B	4-5-22	4-6-22	
gamma-BHC (Lindane)	ND	0.0055	EPA 8081B	4-5-22	4-6-22	
beta-BHC	ND	0.0055	EPA 8081B	4-5-22	4-6-22	
delta-BHC	ND	0.0055	EPA 8081B	4-5-22	4-6-22	
Heptachlor	ND	0.0055	EPA 8081B	4-5-22	4-6-22	
Aldrin	ND	0.0022	EPA 8081B	4-5-22	4-6-22	
Heptachlor Epoxide	ND	0.0033	EPA 8081B	4-5-22	4-6-22	
gamma-Chlordane	ND	0.0055	EPA 8081B	4-5-22	4-6-22	
alpha-Chlordane	ND	0.0055	EPA 8081B	4-5-22	4-6-22	
4,4'-DDE	ND	0.0055	EPA 8081B	4-5-22	4-6-22	
Endosulfan I	ND	0.0055	EPA 8081B	4-5-22	4-6-22	
Dieldrin	ND	0.0055	EPA 8081B	4-5-22	4-6-22	
Endrin	ND	0.0055	EPA 8081B	4-5-22	4-6-22	
4,4'-DDD	ND	0.0055	EPA 8081B	4-5-22	4-6-22	
Endosulfan II	ND	0.0055	EPA 8081B	4-5-22	4-6-22	
4,4'-DDT	ND	0.0055	EPA 8081B	4-5-22	4-6-22	Y1
Endrin Aldehyde	ND	0.0055	EPA 8081B	4-5-22	4-6-22	
Methoxychlor	ND	0.011	EPA 8081B	4-5-22	4-6-22	
Endosulfan Sulfate	ND	0.0055	EPA 8081B	4-5-22	4-6-22	
Endrin Ketone	ND	0.022	EPA 8081B	4-5-22	4-6-22	
Toxaphene	ND	0.055	EPA 8081B	4-5-22	4-6-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
TCMX	71	25-114				
DCB	89	30-137				



Date of Report: April 13, 2022
 Samples Submitted: April 5, 2022
 Laboratory Reference: 2204-036
 Project: 6694-002-05 T700

TOTAL METALS
EPA 200.8/200.7/7470A

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-10-20220404					
Laboratory ID:	04-036-01					
Arsenic	4.3	3.3	EPA 200.8	4-6-22	4-6-22	
Cadmium	ND	4.4	EPA 200.8	4-6-22	4-6-22	
Chromium	ND	11	EPA 200.8	4-6-22	4-6-22	
Copper	ND	11	EPA 200.8	4-6-22	4-6-22	
Iron	6800	50	EPA 200.7	4-6-22	4-6-22	
Lead	4.5	1.1	EPA 200.8	4-6-22	4-6-22	
Magnesium	23000	1000	EPA 200.7	4-6-22	4-6-22	
Manganese	320	10	EPA 200.7	4-6-22	4-6-22	
Mercury	ND	0.025	EPA 7470A	4-7-22	4-7-22	
Nickel	ND	22	EPA 200.8	4-6-22	4-6-22	
Selenium	ND	5.6	EPA 200.8	4-6-22	4-6-22	
Zinc	ND	28	EPA 200.8	4-6-22	4-6-22	

Client ID:	MW-9-20220404					
Laboratory ID:	04-036-02					
Arsenic	ND	3.3	EPA 200.8	4-6-22	4-6-22	
Cadmium	ND	4.4	EPA 200.8	4-6-22	4-6-22	
Chromium	ND	11	EPA 200.8	4-6-22	4-6-22	
Copper	ND	11	EPA 200.8	4-6-22	4-6-22	
Iron	5100	50	EPA 200.7	4-6-22	4-6-22	
Lead	2.5	1.1	EPA 200.8	4-6-22	4-6-22	
Magnesium	30000	1000	EPA 200.7	4-6-22	4-6-22	
Manganese	1500	10	EPA 200.7	4-6-22	4-6-22	
Mercury	ND	0.025	EPA 7470A	4-7-22	4-7-22	
Nickel	ND	22	EPA 200.8	4-6-22	4-6-22	
Selenium	ND	5.6	EPA 200.8	4-6-22	4-6-22	
Zinc	ND	28	EPA 200.8	4-6-22	4-6-22	



Date of Report: April 13, 2022
 Samples Submitted: April 5, 2022
 Laboratory Reference: 2204-036
 Project: 6694-002-05 T700

DISSOLVED METALS
EPA 200.8/200.7/7470A

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-10-20220404					
Laboratory ID:	04-036-01					
Arsenic	ND	3.0	EPA 200.8	4-5-22	4-5-22	
Cadmium	ND	4.0	EPA 200.8	4-5-22	4-5-22	
Calcium	48000	1100	EPA 200.7	4-5-22	4-6-22	
Chromium	ND	10	EPA 200.8	4-5-22	4-5-22	
Copper	ND	10	EPA 200.8	4-5-22	4-5-22	
Iron	100	56	EPA 200.7	4-5-22	4-6-22	
Lead	ND	1.0	EPA 200.8	4-5-22	4-5-22	
Magnesium	18000	1100	EPA 200.7	4-5-22	4-6-22	
Manganese	200	11	EPA 200.7	4-5-22	4-6-22	
Mercury	ND	0.025	EPA 7470A	4-5-22	4-7-22	
Nickel	ND	20	EPA 200.8	4-5-22	4-5-22	
Potassium	4300	1100	EPA 200.7	4-5-22	4-6-22	
Selenium	ND	5.0	EPA 200.8	4-5-22	4-5-22	
Sodium	8200	1100	EPA 200.7	4-5-22	4-6-22	
Zinc	ND	25	EPA 200.8	4-5-22	4-5-22	

Client ID:	MW-9-20220404					
Laboratory ID:	04-036-02					
Arsenic	ND	3.0	EPA 200.8	4-5-22	4-5-22	
Cadmium	ND	4.0	EPA 200.8	4-5-22	4-5-22	
Calcium	110000	5000	EPA 200.7	4-5-22	4-6-22	
Chromium	ND	10	EPA 200.8	4-5-22	4-5-22	
Copper	ND	10	EPA 200.8	4-5-22	4-5-22	
Iron	ND	56	EPA 200.7	4-5-22	4-6-22	
Lead	ND	1.0	EPA 200.8	4-5-22	4-5-22	
Magnesium	26000	1100	EPA 200.7	4-5-22	4-6-22	
Manganese	1300	11	EPA 200.7	4-5-22	4-6-22	
Mercury	ND	0.025	EPA 7470A	4-5-22	4-7-22	
Nickel	ND	20	EPA 200.8	4-5-22	4-5-22	
Potassium	6900	1100	EPA 200.7	4-5-22	4-6-22	
Selenium	ND	5.0	EPA 200.8	4-5-22	4-5-22	
Sodium	14000	1100	EPA 200.7	4-5-22	4-6-22	
Zinc	ND	25	EPA 200.8	4-5-22	4-5-22	



Date of Report: April 13, 2022
 Samples Submitted: April 5, 2022
 Laboratory Reference: 2204-036
 Project: 6694-002-05 T700

**TOTAL ALKALINITY
 SM 2320B**

Matrix: Water
 Units: mg CaCO₃/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-10-20220404					
Laboratory ID:	04-036-01					
Total Alkalinity	170	2.0	SM 2320B	4-7-22	4-7-22	
Client ID:	MW-9-20220404					
Laboratory ID:	04-036-02					
Total Alkalinity	390	2.0	SM 2320B	4-7-22	4-7-22	



Date of Report: December 15, 2022
 Samples Submitted: December 7, 2022
 Laboratory Reference: 2112-075
 Project: 6694-002-05 T700

**BICARBONATE
 SM 2320B**

Matrix: Water
 Units: mg CaCO₃/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-10-20220404					
Laboratory ID:	04-036-01					
Bicarbonate	170	2.0	SM 2320B	4-7-22	4-7-22	
Client ID:	MW-9-20220404					
Laboratory ID:	04-036-02					
Bicarbonate	390	2.0	SM 2320B	4-7-22	4-7-22	



Date of Report: April 13, 2022
 Samples Submitted: April 5, 2022
 Laboratory Reference: 2204-036
 Project: 6694-002-05 T700

**TOTAL DISSOLVED SOLIDS
 SM 2540C**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-10-20220404					
Laboratory ID:	04-036-01					
Total Dissolved Solids	270	13	SM 2540C	4-6-22	4-7-22	

Client ID:	MW-9-20220404					
Laboratory ID:	04-036-02					
Total Dissolved Solids	460	13	SM 2540C	4-6-22	4-7-22	



Date of Report: April 13, 2022
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CHLORIDE
SM 4500-Cl E

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-10-20220404					
Laboratory ID:	04-036-01					
Chloride	6.1	2.0	SM 4500-Cl E	4-6-22	4-6-22	
Client ID:	MW-9-20220404					
Laboratory ID:	04-036-02					
Chloride	6.7	2.0	SM 4500-Cl E	4-6-22	4-6-22	



Date of Report: April 13, 2022
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NITRATE (as Nitrogen)
EPA 353.2

Matrix: Water
 Units: mg/L-N

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-10-20220404					
Laboratory ID:	04-036-01					
Nitrate	0.18	0.050	EPA 353.2	4-8-22	4-8-22	
Client ID:	MW-9-20220404					
Laboratory ID:	04-036-02					
Nitrate	0.066	0.050	EPA 353.2	4-8-22	4-8-22	



Date of Report: April 13, 2022
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SULFATE
ASTM D516-11

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-10-20220404					
Laboratory ID:	04-036-01					
Sulfate	48	10	ASTM D516-11	4-8-22	4-8-22	
Client ID:	MW-9-20220404					
Laboratory ID:	04-036-02					
Sulfate	25	10	ASTM D516-11	4-8-22	4-8-22	



Date of Report: April 13, 2022
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AMMONIA (as Nitrogen)
SM 4500-NH₃ D

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-10-20220404					
Laboratory ID:	04-036-01					
Ammonia	ND	0.050	SM 4500-NH3 D	4-5-22	4-5-22	
Client ID:	MW-9-20220404					
Laboratory ID:	04-036-02					
Ammonia	1.8	0.050	SM 4500-NH3 D	4-5-22	4-5-22	



Date of Report: April 13, 2022
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 Project: 6694-002-05 T700

**GASOLINE RANGE ORGANICS
 NWTPH-Gx
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0407W1					
Gasoline	ND	100	NWTPH-Gx	4-7-22	4-7-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	95	66-117				

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	04-036-01							
	ORIG	DUP						
Gasoline	ND	ND	NA	NA	NA	NA	30	
<i>Surrogate:</i>								
<i>Fluorobenzene</i>				95	95	66-117		



Date of Report: April 13, 2022
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 Laboratory Reference: 2204-036
 Project: 6694-002-05 T700

**DIESEL AND HEAVY OIL RANGE ORGANICS
 NWTPH-Dx
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0408W1					
Diesel Range Organics	ND	0.080	NWTPH-Dx	4-8-22	4-8-22	
Lube Oil Range Organics	ND	0.16	NWTPH-Dx	4-8-22	4-8-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	103	50-150				

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	04-017-02							
	ORIG	DUP						
Diesel Range	ND	ND	NA	NA	NA	NA	NA	NA
Lube Oil Range	ND	ND	NA	NA	NA	NA	NA	NA
<i>Surrogate:</i>								
<i>o-Terphenyl</i>				98	90	50-150		



Date of Report: April 13, 2022
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 Project: 6694-002-05 T700

**VOLATILE ORGANICS EPA 8260D
 QUALITY CONTROL**

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Matrix: Water

Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0405W1					
Dichlorodifluoromethane	ND	0.29	EPA 8260D	4-5-22	4-5-22	
Chloromethane	ND	1.0	EPA 8260D	4-5-22	4-5-22	
Vinyl Chloride	ND	0.20	EPA 8260D	4-5-22	4-5-22	
Bromomethane	ND	1.0	EPA 8260D	4-5-22	4-5-22	
Chloroethane	ND	1.0	EPA 8260D	4-5-22	4-5-22	
Trichlorofluoromethane	ND	0.20	EPA 8260D	4-5-22	4-5-22	
1,1-Dichloroethene	ND	0.20	EPA 8260D	4-5-22	4-5-22	
Acetone	ND	5.0	EPA 8260D	4-5-22	4-5-22	
Iodomethane	ND	2.0	EPA 8260D	4-5-22	4-5-22	
Carbon Disulfide	ND	0.20	EPA 8260D	4-5-22	4-5-22	
Methylene Chloride	ND	1.0	EPA 8260D	4-5-22	4-5-22	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	4-5-22	4-5-22	
Methyl t-Butyl Ether	ND	0.20	EPA 8260D	4-5-22	4-5-22	
1,1-Dichloroethane	ND	0.20	EPA 8260D	4-5-22	4-5-22	
Vinyl Acetate	ND	1.0	EPA 8260D	4-5-22	4-5-22	
2,2-Dichloropropane	ND	0.20	EPA 8260D	4-5-22	4-5-22	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	4-5-22	4-5-22	
2-Butanone	ND	5.0	EPA 8260D	4-5-22	4-5-22	
Bromochloromethane	ND	0.20	EPA 8260D	4-5-22	4-5-22	
Chloroform	ND	0.20	EPA 8260D	4-5-22	4-5-22	
1,1,1-Trichloroethane	ND	0.20	EPA 8260D	4-5-22	4-5-22	
Carbon Tetrachloride	ND	0.20	EPA 8260D	4-5-22	4-5-22	
1,1-Dichloropropene	ND	0.20	EPA 8260D	4-5-22	4-5-22	
Benzene	ND	0.20	EPA 8260D	4-5-22	4-5-22	
1,2-Dichloroethane	ND	0.20	EPA 8260D	4-5-22	4-5-22	
Trichloroethene	ND	0.20	EPA 8260D	4-5-22	4-5-22	
1,2-Dichloropropane	ND	0.20	EPA 8260D	4-5-22	4-5-22	
Dibromomethane	ND	0.20	EPA 8260D	4-5-22	4-5-22	
Bromodichloromethane	ND	0.20	EPA 8260D	4-5-22	4-5-22	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260D	4-5-22	4-5-22	
Methyl Isobutyl Ketone	ND	2.0	EPA 8260D	4-5-22	4-5-22	
Toluene	ND	1.0	EPA 8260D	4-5-22	4-5-22	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260D	4-5-22	4-5-22	



Date of Report: April 13, 2022
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**VOLATILE ORGANICS EPA 8260D
 QUALITY CONTROL**

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0405W1					
1,1,2-Trichloroethane	ND	0.20	EPA 8260D	4-5-22	4-5-22	
Tetrachloroethene	ND	0.20	EPA 8260D	4-5-22	4-5-22	
1,3-Dichloropropane	ND	0.20	EPA 8260D	4-5-22	4-5-22	
2-Hexanone	ND	2.0	EPA 8260D	4-5-22	4-5-22	
Dibromochloromethane	ND	0.20	EPA 8260D	4-5-22	4-5-22	
1,2-Dibromoethane	ND	0.20	EPA 8260D	4-5-22	4-5-22	
Chlorobenzene	ND	0.20	EPA 8260D	4-5-22	4-5-22	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260D	4-5-22	4-5-22	
Ethylbenzene	ND	0.20	EPA 8260D	4-5-22	4-5-22	
m,p-Xylene	ND	0.40	EPA 8260D	4-5-22	4-5-22	
o-Xylene	ND	0.20	EPA 8260D	4-5-22	4-5-22	
Styrene	ND	0.20	EPA 8260D	4-5-22	4-5-22	
Bromoform	ND	1.0	EPA 8260D	4-5-22	4-5-22	
Isopropylbenzene	ND	0.20	EPA 8260D	4-5-22	4-5-22	
Bromobenzene	ND	0.20	EPA 8260D	4-5-22	4-5-22	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260D	4-5-22	4-5-22	
1,2,3-Trichloropropane	ND	0.20	EPA 8260D	4-5-22	4-5-22	
n-Propylbenzene	ND	0.20	EPA 8260D	4-5-22	4-5-22	
2-Chlorotoluene	ND	0.20	EPA 8260D	4-5-22	4-5-22	
4-Chlorotoluene	ND	0.20	EPA 8260D	4-5-22	4-5-22	
1,3,5-Trimethylbenzene	ND	0.20	EPA 8260D	4-5-22	4-5-22	
tert-Butylbenzene	ND	0.20	EPA 8260D	4-5-22	4-5-22	
1,2,4-Trimethylbenzene	ND	0.20	EPA 8260D	4-5-22	4-5-22	
sec-Butylbenzene	ND	0.20	EPA 8260D	4-5-22	4-5-22	
1,3-Dichlorobenzene	ND	0.20	EPA 8260D	4-5-22	4-5-22	
p-Isopropyltoluene	ND	0.20	EPA 8260D	4-5-22	4-5-22	
1,4-Dichlorobenzene	ND	0.20	EPA 8260D	4-5-22	4-5-22	
1,2-Dichlorobenzene	ND	0.20	EPA 8260D	4-5-22	4-5-22	
n-Butylbenzene	ND	0.20	EPA 8260D	4-5-22	4-5-22	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260D	4-5-22	4-5-22	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260D	4-5-22	4-5-22	
Hexachlorobutadiene	ND	1.0	EPA 8260D	4-5-22	4-5-22	
Naphthalene	ND	1.0	EPA 8260D	4-5-22	4-5-22	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260D	4-5-22	4-5-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>113</i>	<i>75-127</i>				
<i>Toluene-d8</i>	<i>100</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>103</i>	<i>78-125</i>				



Date of Report: April 13, 2022
 Samples Submitted: April 5, 2022
 Laboratory Reference: 2204-036
 Project: 6694-002-05 T700

**VOLATILE ORGANICS EPA 8260D
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD	RPD	Flags
					SB	SBD	Limits	RPD	Limit	
SPIKE BLANKS										
Laboratory ID:	SB0405W1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	10.1	10.1	10.0	10.0	101	101	78-125	0	19	
Benzene	10.4	10.5	10.0	10.0	104	105	80-119	1	16	
Trichloroethene	10.3	10.0	10.0	10.0	103	100	80-121	3	18	
Toluene	8.92	9.16	10.0	10.0	89	92	80-117	3	18	
Chlorobenzene	10.4	10.2	10.0	10.0	104	102	80-117	2	17	
<i>Surrogate:</i>										
Dibromofluoromethane					106	112	75-127			
Toluene-d8					99	101	80-127			
4-Bromofluorobenzene					88	106	78-125			



Date of Report: April 13, 2022
 Samples Submitted: April 5, 2022
 Laboratory Reference: 2204-036
 Project: 6694-002-05 T700

**SEMIVOLATILE ORGANICS EPA 8270E/SIM
 QUALITY CONTROL**

page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0407W1					
n-Nitrosodimethylamine	ND	1.0	EPA 8270E	4-7-22	4-7-22	
Pyridine	ND	1.0	EPA 8270E	4-7-22	4-7-22	
Phenol	ND	1.0	EPA 8270E	4-7-22	4-7-22	
Aniline	ND	5.0	EPA 8270E	4-7-22	4-7-22	
bis(2-Chloroethyl)ether	ND	1.0	EPA 8270E	4-7-22	4-7-22	
2-Chlorophenol	ND	1.0	EPA 8270E	4-7-22	4-7-22	
1,3-Dichlorobenzene	ND	1.0	EPA 8270E	4-7-22	4-7-22	
1,4-Dichlorobenzene	ND	1.0	EPA 8270E	4-7-22	4-7-22	
Benzyl alcohol	ND	1.0	EPA 8270E	4-7-22	4-7-22	
1,2-Dichlorobenzene	ND	1.0	EPA 8270E	4-7-22	4-7-22	
2-Methylphenol (o-Cresol)	ND	1.0	EPA 8270E	4-7-22	4-7-22	
bis(2-Chloroisopropyl)ether	ND	1.0	EPA 8270E	4-7-22	4-7-22	
(3+4)-Methylphenol (m,p-Cresol)	ND	1.0	EPA 8270E	4-7-22	4-7-22	
n-Nitroso-di-n-propylamine	ND	1.0	EPA 8270E	4-7-22	4-7-22	
Hexachloroethane	ND	1.0	EPA 8270E	4-7-22	4-7-22	
Nitrobenzene	ND	1.0	EPA 8270E	4-7-22	4-7-22	
Isophorone	ND	1.0	EPA 8270E	4-7-22	4-7-22	
2-Nitrophenol	ND	1.0	EPA 8270E	4-7-22	4-7-22	
2,4-Dimethylphenol	ND	1.0	EPA 8270E	4-7-22	4-7-22	
bis(2-Chloroethoxy)methane	ND	1.0	EPA 8270E	4-7-22	4-7-22	
2,4-Dichlorophenol	ND	1.0	EPA 8270E	4-7-22	4-7-22	
1,2,4-Trichlorobenzene	ND	1.0	EPA 8270E	4-7-22	4-7-22	
Naphthalene	ND	0.10	EPA 8270E/SIM	4-7-22	4-7-22	
4-Chloroaniline	ND	1.0	EPA 8270E	4-7-22	4-7-22	
Hexachlorobutadiene	ND	1.0	EPA 8270E	4-7-22	4-7-22	
4-Chloro-3-methylphenol	ND	1.0	EPA 8270E	4-7-22	4-7-22	
2-Methylnaphthalene	ND	0.10	EPA 8270E/SIM	4-7-22	4-7-22	
1-Methylnaphthalene	ND	0.10	EPA 8270E/SIM	4-7-22	4-7-22	
Hexachlorocyclopentadiene	ND	1.0	EPA 8270E	4-7-22	4-7-22	
2,4,6-Trichlorophenol	ND	1.0	EPA 8270E	4-7-22	4-7-22	
2,3-Dichloroaniline	ND	1.0	EPA 8270E	4-7-22	4-7-22	
2,4,5-Trichlorophenol	ND	1.0	EPA 8270E	4-7-22	4-7-22	
2-Chloronaphthalene	ND	1.0	EPA 8270E	4-7-22	4-7-22	
2-Nitroaniline	ND	1.0	EPA 8270E	4-7-22	4-7-22	
1,4-Dinitrobenzene	ND	1.0	EPA 8270E	4-7-22	4-7-22	
Dimethylphthalate	ND	5.0	EPA 8270E	4-7-22	4-7-22	
1,3-Dinitrobenzene	ND	1.0	EPA 8270E	4-7-22	4-7-22	
2,6-Dinitrotoluene	ND	1.0	EPA 8270E	4-7-22	4-7-22	
1,2-Dinitrobenzene	ND	1.0	EPA 8270E	4-7-22	4-7-22	
Acenaphthylene	ND	0.10	EPA 8270E/SIM	4-7-22	4-7-22	
3-Nitroaniline	ND	1.0	EPA 8270E	4-7-22	4-7-22	



Date of Report: April 13, 2022
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**SEMIVOLATILE ORGANICS EPA 8270E/SIM
 QUALITY CONTROL**

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0407W1					
2,4-Dinitrophenol	ND	5.0	EPA 8270E	4-7-22	4-7-22	
Acenaphthene	ND	0.10	EPA 8270E/SIM	4-7-22	4-7-22	
4-Nitrophenol	ND	5.0	EPA 8270E	4-7-22	4-7-22	
2,4-Dinitrotoluene	ND	1.0	EPA 8270E	4-7-22	4-7-22	
Dibenzofuran	ND	1.0	EPA 8270E	4-7-22	4-7-22	
2,3,5,6-Tetrachlorophenol	ND	1.0	EPA 8270E	4-7-22	4-7-22	
2,3,4,6-Tetrachlorophenol	ND	1.0	EPA 8270E	4-7-22	4-7-22	
Diethylphthalate	ND	1.0	EPA 8270E	4-7-22	4-7-22	
4-Chlorophenyl-phenylether	ND	1.0	EPA 8270E	4-7-22	4-7-22	
4-Nitroaniline	ND	1.0	EPA 8270E	4-7-22	4-7-22	
Fluorene	ND	0.10	EPA 8270E/SIM	4-7-22	4-7-22	
4,6-Dinitro-2-methylphenol	ND	5.0	EPA 8270E	4-7-22	4-7-22	
n-Nitrosodiphenylamine	ND	1.0	EPA 8270E	4-7-22	4-7-22	
1,2-Diphenylhydrazine	ND	1.0	EPA 8270E	4-7-22	4-7-22	
4-Bromophenyl-phenylether	ND	1.0	EPA 8270E	4-7-22	4-7-22	
Hexachlorobenzene	ND	1.0	EPA 8270E	4-7-22	4-7-22	
Pentachlorophenol	ND	5.0	EPA 8270E	4-7-22	4-7-22	
Phenanthrene	ND	0.10	EPA 8270E/SIM	4-7-22	4-7-22	
Anthracene	ND	0.10	EPA 8270E/SIM	4-7-22	4-7-22	
Carbazole	ND	1.0	EPA 8270E	4-7-22	4-7-22	
Di-n-butylphthalate	ND	5.0	EPA 8270E	4-7-22	4-7-22	
Fluoranthene	ND	0.10	EPA 8270E/SIM	4-7-22	4-7-22	
Pyrene	ND	0.10	EPA 8270E/SIM	4-7-22	4-7-22	
Butylbenzylphthalate	ND	1.0	EPA 8270E	4-7-22	4-7-22	
bis-2-Ethylhexyladipate	ND	5.0	EPA 8270E	4-7-22	4-7-22	
3,3'-Dichlorobenzidine	ND	1.0	EPA 8270E	4-7-22	4-7-22	
Benzo[a]anthracene	ND	0.010	EPA 8270E/SIM	4-7-22	4-7-22	
Chrysene	ND	0.010	EPA 8270E/SIM	4-7-22	4-7-22	
bis(2-Ethylhexyl)phthalate	ND	5.0	EPA 8270E	4-7-22	4-7-22	
Di-n-octylphthalate	ND	1.0	EPA 8270E	4-7-22	4-7-22	
Benzo[b]fluoranthene	ND	0.010	EPA 8270E/SIM	4-7-22	4-7-22	
Benzo(j,k)fluoranthene	ND	0.010	EPA 8270E/SIM	4-7-22	4-7-22	
Benzo[a]pyrene	ND	0.010	EPA 8270E/SIM	4-7-22	4-7-22	
Indeno[1,2,3-cd]pyrene	ND	0.010	EPA 8270E/SIM	4-7-22	4-7-22	
Dibenz[a,h]anthracene	ND	0.010	EPA 8270E/SIM	4-7-22	4-7-22	
Benzo[g,h,i]perylene	ND	0.010	EPA 8270E/SIM	4-7-22	4-7-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
2-Fluorophenol	48	10 - 82				
Phenol-d6	36	10 - 92				
Nitrobenzene-d5	67	32 - 105				
2-Fluorobiphenyl	71	38 - 105				
2,4,6-Tribromophenol	93	25 - 124				
Terphenyl-d14	75	42 - 116				



Date of Report: April 13, 2022
 Samples Submitted: April 5, 2022
 Laboratory Reference: 2204-036
 Project: 6694-002-05 T700

**SEMIVOLATILE ORGANICS EPA 8270E/SIM
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
	SB	SBD	SB	SBD	SB	SBD				
SPIKE BLANKS										
Laboratory ID:	SB0407W1									
Phenol	14.1	13.2	40.0	40.0	35	33	21 - 53	7	26	
2-Chlorophenol	24.9	22.1	40.0	40.0	62	55	38 - 92	12	28	
1,4-Dichlorobenzene	11.5	8.41	20.0	20.0	58	42	30 - 88	31	32	
n-Nitroso-di-n-propylamine	13.8	11.5	20.0	20.0	69	58	40 - 103	18	27	
1,2,4-Trichlorobenzene	13.1	10.9	20.0	20.0	66	55	37 - 95	18	29	
4-Chloro-3-methylphenol	29.0	29.7	40.0	40.0	73	74	50 - 101	2	17	
Acenaphthene	15.3	14.6	20.0	20.0	77	73	46 - 97	5	19	
4-Nitrophenol	18.0	17.8	40.0	40.0	45	45	23 - 64	1	34	
2,4-Dinitrotoluene	16.7	16.3	20.0	20.0	84	82	46 - 100	2	17	
Pentachlorophenol	40.7	39.6	40.0	40.0	102	99	39 - 123	3	29	
Pyrene	15.4	15.9	20.0	20.0	77	80	52 - 107	3	19	
<i>Surrogate:</i>										
2-Fluorophenol					42	36	10 - 82			
Phenol-d6					34	32	10 - 92			
Nitrobenzene-d5					67	54	32 - 105			
2-Fluorobiphenyl					73	69	38 - 105			
2,4,6-Tribromophenol					91	89	25 - 124			
Terphenyl-d14					73	76	42 - 116			



Date of Report: April 13, 2022
 Samples Submitted: April 5, 2022
 Laboratory Reference: 2204-036
 Project: 6694-002-05 T700

**PCBs EPA 8082A
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0405W2					
Aroclor 1016	ND	0.050	EPA 8082A	4-5-22	4-6-22	
Aroclor 1221	ND	0.050	EPA 8082A	4-5-22	4-6-22	
Aroclor 1232	ND	0.050	EPA 8082A	4-5-22	4-6-22	
Aroclor 1242	ND	0.050	EPA 8082A	4-5-22	4-6-22	
Aroclor 1248	ND	0.050	EPA 8082A	4-5-22	4-6-22	
Aroclor 1254	ND	0.050	EPA 8082A	4-5-22	4-6-22	
Aroclor 1260	ND	0.050	EPA 8082A	4-5-22	4-6-22	
Surrogate:	Percent Recovery	Control Limits				
DCB	103	42-140				

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS											
Laboratory ID:	SB0405W2										
	SB	SBD	SB	SBD		SB	SBD				
Aroclor 1260	0.461	0.496	0.500	0.500	N/A	92	99	73-131	7	12	
Surrogate:											
DCB						106	111	42-140			



Date of Report: April 13, 2022
 Samples Submitted: April 5, 2022
 Laboratory Reference: 2204-036
 Project: 6694-002-05 T700

**ORGANOCHLORINE
 PESTICIDES EPA 8081B
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0405W2					
alpha-BHC	ND	0.0050	EPA 8081B	4-5-22	4-6-22	
gamma-BHC (Lindane)	ND	0.0050	EPA 8081B	4-5-22	4-6-22	
beta-BHC	ND	0.0050	EPA 8081B	4-5-22	4-6-22	
delta-BHC	ND	0.0050	EPA 8081B	4-5-22	4-6-22	
Heptachlor	ND	0.0050	EPA 8081B	4-5-22	4-6-22	
Aldrin	ND	0.0020	EPA 8081B	4-5-22	4-6-22	
Heptachlor Epoxide	ND	0.0030	EPA 8081B	4-5-22	4-6-22	
gamma-Chlordane	ND	0.0050	EPA 8081B	4-5-22	4-6-22	
alpha-Chlordane	ND	0.0050	EPA 8081B	4-5-22	4-6-22	
4,4'-DDE	ND	0.0050	EPA 8081B	4-5-22	4-6-22	
Endosulfan I	ND	0.0050	EPA 8081B	4-5-22	4-6-22	
Dieldrin	ND	0.0050	EPA 8081B	4-5-22	4-6-22	
Endrin	ND	0.0050	EPA 8081B	4-5-22	4-6-22	
4,4'-DDD	ND	0.0050	EPA 8081B	4-5-22	4-6-22	
Endosulfan II	ND	0.0050	EPA 8081B	4-5-22	4-6-22	
4,4'-DDT	ND	0.0050	EPA 8081B	4-5-22	4-6-22	
Endrin Aldehyde	ND	0.0050	EPA 8081B	4-5-22	4-6-22	
Methoxychlor	ND	0.010	EPA 8081B	4-5-22	4-6-22	
Endosulfan Sulfate	ND	0.0050	EPA 8081B	4-5-22	4-6-22	
Endrin Ketone	ND	0.020	EPA 8081B	4-5-22	4-6-22	
Toxaphene	ND	0.050	EPA 8081B	4-5-22	4-6-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
TCMX	57	25-114				
DCB	97	30-137				



Date of Report: April 13, 2022
 Samples Submitted: April 5, 2022
 Laboratory Reference: 2204-036
 Project: 6694-002-05 T700

**ORGANOCHLORINE
 PESTICIDES EPA 8081B
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS											
Laboratory ID:	SB0405W3										
	SB	SBD	SB	SBD		SB	SBD				
alpha-BHC	0.0840	0.0856	0.100	0.100	N/A	84	86	42-113	2	19	
gamma-BHC (Lindane)	0.0840	0.0860	0.100	0.100	N/A	84	86	45-114	2	15	
beta-BHC	0.0805	0.0794	0.100	0.100	N/A	81	79	40-118	1	15	
delta-BHC	0.0949	0.0963	0.100	0.100	N/A	95	96	20-125	1	15	
Heptachlor	0.0778	0.0826	0.100	0.100	N/A	78	83	41-120	6	16	
Aldrin	0.0709	0.0770	0.100	0.100	N/A	71	77	35-115	8	15	
Heptachlor Epoxide	0.0822	0.0815	0.100	0.100	N/A	82	82	50-118	1	15	
gamma-Chlordane	0.0788	0.0803	0.100	0.100	N/A	79	80	46-110	2	15	
alpha-Chlordane	0.0763	0.0773	0.100	0.100	N/A	76	77	38-112	1	15	
4,4'-DDE	0.0811	0.0809	0.100	0.100	N/A	81	81	41-127	0	15	
Endosulfan I	0.0885	0.0887	0.100	0.100	N/A	88	89	45-119	0	15	
Dieldrin	0.0864	0.0868	0.100	0.100	N/A	86	87	46-115	0	15	
Endrin	0.0906	0.0912	0.100	0.100	N/A	91	91	52-124	1	15	
4,4'-DDD	0.0967	0.0965	0.100	0.100	N/A	97	96	52-121	0	15	
Endosulfan II	0.0841	0.0838	0.100	0.100	N/A	84	84	44-114	0	15	
4,4'-DDT	0.0892	0.0863	0.100	0.100	N/A	89	86	48-123	3	15	
Endrin Aldehyde	0.0786	0.0777	0.100	0.100	N/A	79	78	45-114	1	15	
Methoxychlor	0.0861	0.0837	0.100	0.100	N/A	86	84	49-130	3	15	
Endosulfan Sulfate	0.0819	0.0813	0.100	0.100	N/A	82	81	39-117	1	15	
Endrin Ketone	0.0796	0.0793	0.100	0.100	N/A	80	79	53-119	0	15	
Surrogate:											
TCMX						53	58	25-114			
DCB						88	88	30-137			



Date of Report: April 13, 2022
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 Project: 6694-002-05 T700

TOTAL METALS
EPA 200.8/200.7/7470A
QUALITY CONTROL

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0406WH1					
Iron	ND	50	EPA 200.7	4-6-22	4-6-22	
Magnesium	ND	1000	EPA 200.7	4-6-22	4-6-22	
Manganese	ND	10	EPA 200.7	4-6-22	4-6-22	
METHOD BLANK						
Laboratory ID:	MB0406WM1					
Arsenic	ND	3.3	EPA 200.8	4-6-22	4-6-22	
Cadmium	ND	4.4	EPA 200.8	4-6-22	4-6-22	
Chromium	ND	11	EPA 200.8	4-6-22	4-6-22	
Copper	ND	11	EPA 200.8	4-6-22	4-6-22	
Lead	ND	1.1	EPA 200.8	4-6-22	4-6-22	
Nickel	ND	22	EPA 200.8	4-6-22	4-6-22	
Selenium	ND	5.6	EPA 200.8	4-6-22	4-6-22	
Zinc	ND	28	EPA 200.8	4-6-22	4-6-22	
METHOD BLANK						
Laboratory ID:	MB0407W1					
Mercury	ND	0.025	EPA 7470A	4-7-22	4-7-22	



Date of Report: April 13, 2022
 Samples Submitted: April 5, 2022
 Laboratory Reference: 2204-036
 Project: 6694-002-05 T700

TOTAL METALS
EPA 200.8/200.7/7470A
QUALITY CONTROL

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags		
DUPLICATE										
Laboratory ID:	03-363-01									
	ORIG	DUP								
Iron	1900	1870	NA	NA	NA	NA	2	20		
Magnesium	10100	10100	NA	NA	NA	NA	0	20		
Manganese	393	392	NA	NA	NA	NA	0	20		
Laboratory ID:	04-007-01									
Arsenic	ND	ND	NA	NA	NA	NA	NA	20		
Cadmium	ND	ND	NA	NA	NA	NA	NA	20		
Chromium	ND	ND	NA	NA	NA	NA	NA	20		
Copper	ND	ND	NA	NA	NA	NA	NA	20		
Lead	ND	ND	NA	NA	NA	NA	NA	20		
Nickel	ND	ND	NA	NA	NA	NA	NA	20		
Selenium	ND	ND	NA	NA	NA	NA	NA	20		
Zinc	ND	ND	NA	NA	NA	NA	NA	20		
Laboratory ID:	04-036-02									
Mercury	ND	ND	NA	NA	NA	NA	NA	20		
MATRIX SPIKES										
Laboratory ID:	03-363-01									
	MS	MSD	MS	MSD	MS	MSD				
Iron	23700	24000	20000	20000	1900	109	111	75-125	1	20
Magnesium	31200	32000	20000	20000	10100	106	110	75-125	3	20
Manganese	933	958	500	500	393	108	113	75-125	3	20
Laboratory ID:	04-007-01									
Arsenic	117	104	111	111	ND	106	94	75-125	12	20
Cadmium	109	103	111	111	ND	98	93	75-125	6	20
Chromium	109	97.8	111	111	ND	99	88	75-125	11	20
Copper	106	94.2	111	111	ND	95	85	75-125	12	20
Lead	107	101	111	111	ND	96	91	75-125	6	20
Nickel	106	94.9	111	111	ND	95	86	75-125	11	20
Selenium	117	107	111	111	ND	105	96	75-125	9	20
Zinc	118	106	111	111	ND	107	95	75-125	12	20
Laboratory ID:	04-036-02									
Mercury	6.55	6.63	6.25	6.25	ND	105	106	75-125	1	20



Date of Report: April 13, 2022
 Samples Submitted: April 5, 2022
 Laboratory Reference: 2204-036
 Project: 6694-002-05 T700

**DISSOLVED METALS
 EPA 200.8/200.7/7470A
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0405F1					
Calcium	ND	1100	EPA 200.7	4-5-22	4-6-22	
Iron	ND	56	EPA 200.7	4-5-22	4-6-22	
Magnesium	ND	1100	EPA 200.7	4-5-22	4-6-22	
Manganese	ND	11	EPA 200.7	4-5-22	4-6-22	
Potassium	ND	1100	EPA 200.7	4-5-22	4-6-22	
Sodium	ND	1100	EPA 200.7	4-5-22	4-6-22	
Laboratory ID:	MB0405F1					
Arsenic	ND	3.0	EPA 200.8	4-5-22	4-5-22	
Cadmium	ND	4.0	EPA 200.8	4-5-22	4-5-22	
Chromium	ND	10	EPA 200.8	4-5-22	4-5-22	
Copper	ND	10	EPA 200.8	4-5-22	4-5-22	
Lead	ND	1.0	EPA 200.8	4-5-22	4-5-22	
Nickel	ND	20	EPA 200.8	4-5-22	4-5-22	
Selenium	ND	5.0	EPA 200.8	4-5-22	4-5-22	
Zinc	ND	25	EPA 200.8	4-5-22	4-5-22	
Laboratory ID:	MB0405F1					
Mercury	ND	0.025	EPA 7470A	4-5-22	4-7-22	



Date of Report: April 13, 2022
 Samples Submitted: April 5, 2022
 Laboratory Reference: 2204-036
 Project: 6694-002-05 T700

DISSOLVED METALS
EPA 200.8/200.7/7470A
QUALITY CONTROL

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result		Spike Level		Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE										
Laboratory ID:	03-363-01									
	ORIG	DUP								
Calcium	18400	18900	NA	NA		NA	NA	2	20	
Iron	329	323	NA	NA		NA	NA	2	20	
Magnesium	9200	9320	NA	NA		NA	NA	1	20	
Manganese	349	353	NA	NA		NA	NA	1	20	
Potassium	2500	2490	NA	NA		NA	NA	0	20	
Sodium	5740	5710	NA	NA		NA	NA	1	20	
Laboratory ID:	04-007-01									
Arsenic	ND	ND	NA	NA		NA	NA	NA	20	
Cadmium	ND	ND	NA	NA		NA	NA	NA	20	
Chromium	ND	ND	NA	NA		NA	NA	NA	20	
Copper	ND	ND	NA	NA		NA	NA	NA	20	
Lead	ND	ND	NA	NA		NA	NA	NA	20	
Nickel	ND	ND	NA	NA		NA	NA	NA	20	
Selenium	ND	ND	NA	NA		NA	NA	NA	20	
Zinc	ND	ND	NA	NA		NA	NA	NA	20	
Laboratory ID:	04-010-06									
Mercury	ND	ND	NA	NA		NA	NA	NA	20	
MATRIX SPIKES										
Laboratory ID:	03-363-01									
	MS	MSD	MS	MSD		MS	MSD			
Calcium	41700	41700	22200	22200	21800	90	90	75-125	0	20
Iron	25100	25000	22200	22200	329	112	111	75-125	0	20
Magnesium	31900	31900	22200	22200	9200	102	102	75-125	0	20
Manganese	918	922	556	556	349	102	103	75-125	0	20
Potassium	27200	27200	22200	22200	2500	111	111	75-125	0	20
Sodium	28700	28700	22200	22200	5740	104	104	75-125	0	20
Laboratory ID:	04-007-01									
Arsenic	81.4	81.8	80.0	80.0	ND	102	102	75-125	0	20
Cadmium	77.4	77.0	80.0	80.0	ND	97	96	75-125	1	20
Chromium	77.8	78.4	80.0	80.0	ND	97	98	75-125	1	20
Copper	76.2	75.6	80.0	80.0	ND	95	95	75-125	1	20
Lead	77.8	77.0	80.0	80.0	ND	97	96	75-125	1	20
Nickel	76.2	77.4	80.0	80.0	ND	95	97	75-125	2	20
Selenium	86.2	82.6	80.0	80.0	ND	108	103	75-125	4	20
Zinc	81.2	81.0	80.0	80.0	ND	102	101	75-125	0	20
Laboratory ID:	04-010-06									
Mercury	6.45	6.48	6.25	6.25	ND	103	104	75-125	0	20



Date of Report: April 13, 2022
 Samples Submitted: April 5, 2022
 Laboratory Reference: 2204-036
 Project: 6694-002-05 T700

**TOTAL ALKALINITY
 SM 2320B
 QUALITY CONTROL**

Matrix: Water
 Units: mg CaCO₃/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0407W1					
Total Alkalinity	ND	2.0	SM 2320B	4-7-22	4-7-22	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	04-036-01							
	ORIG	DUP						
Total Alkalinity	174	172	NA	NA	NA	1	10	

SPIKE BLANK								
Laboratory ID:	SB0407W1							
	SB	SB		SB				
Total Alkalinity	104	100	NA	104	89-110	NA	NA	



Date of Report: December 15, 2022
 Samples Submitted: December 7, 2022
 Laboratory Reference: 2112-075
 Project: 6694-002-05 T700

**BICARBONATE
 SM 2320B
 QUALITY CONTROL**

Matrix: Water
 Units: mg CaCO₃/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0407W1					
Bicarbonate	ND	2.0	SM 2320B	4-7-22	4-7-22	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	04-036-01							
	ORIG	DUP						
Bicarbonate	174	172	NA	NA	NA	1	10	

SPIKE BLANK								
Laboratory ID:	SB0407W1							
	SB	SB		SB				
Bicarbonate	104	100	NA	104	89-110	NA	NA	



Date of Report: April 13, 2022
 Samples Submitted: April 5, 2022
 Laboratory Reference: 2204-036
 Project: 6694-002-05 T700

**TOTAL DISSOLVED SOLIDS
 SM 2540C
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0406W1					
Total Dissolved Solids	ND	13	SM 2540C	4-6-22	4-7-22	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	04-036-02							
	ORIG	DUP						
Total Dissolved Solids	459	456	NA	NA	NA	1	29	

SPIKE BLANK								
Laboratory ID:	SB0406W1							
	SB	SB		SB				
Total Dissolved Solids	467	500	NA	93	84-110	NA	NA	



Date of Report: April 13, 2022
 Samples Submitted: April 5, 2022
 Laboratory Reference: 2204-036
 Project: 6694-002-05 T700

**CHLORIDE
 SM 4500-Cl E
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0406W1					
Chloride	ND	2.0	SM 4500-Cl E	4-6-22	4-6-22	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	03-363-01							
	ORIG	DUP						
Chloride	3.87	4.14	NA	NA	NA	7	15	

MATRIX SPIKE								
Laboratory ID:	03-363-01							
	MS	MS		MS				
Chloride	56.4	50.0	3.87	105	86-115	NA	NA	

SPIKE BLANK								
Laboratory ID:	SB0406W1							
	SB	SB		SB				
Chloride	52.1	50.0	NA	104	86-115	NA	NA	



Date of Report: April 13, 2022
 Samples Submitted: April 5, 2022
 Laboratory Reference: 2204-036
 Project: 6694-002-05 T700

NITRATE (as Nitrogen)
EPA 353.2
QUALITY CONTROL

Matrix: Water
 Units: mg/L-N

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0408W1					
Nitrate	ND	0.050	EPA 353.2	4-8-22	4-8-22	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	03-363-01							
	ORIG	DUP						
Nitrate	ND	ND	NA	NA	NA	NA	16	

MATRIX SPIKE								
Laboratory ID:	03-363-01							
	MS	MS		MS				
Nitrate	2.24	2.00	ND	112	92-125	NA	NA	

SPIKE BLANK								
Laboratory ID:	SB0408W1							
	SB	SB		SB				
Nitrate	2.08	2.00	NA	104	90-121	NA	NA	



Date of Report: April 13, 2022
 Samples Submitted: April 5, 2022
 Laboratory Reference: 2204-036
 Project: 6694-002-05 T700

**SULFATE
 ASTM D516-11
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0408W1					
Sulfate	ND	5.0	ASTM D516-11	4-8-22	4-8-22	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	04-036-02							
	ORIG	DUP						
Sulfate	25.3	25.3	NA	NA	NA	0	10	

MATRIX SPIKE								
Laboratory ID:	04-036-02							
	MS	MS		MS				
Sulfate	44.0	20.0	25.3	94	69-139	NA	NA	

SPIKE BLANK								
Laboratory ID:	SB0408W1							
	SB	SB		SB				
Sulfate	10.2	10.0	NA	102	89-117	NA	NA	



Date of Report: April 13, 2022
 Samples Submitted: April 5, 2022
 Laboratory Reference: 2204-036
 Project: 6694-002-05 T700

AMMONIA (as Nitrogen)
SM 4500-NH₃ D
QUALITY CONTROL

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0405W1					
Ammonia	ND	0.050	SM 4500-NH3 D	4-5-22	4-5-22	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	03-363-01							
	ORIG	DUP						
Ammonia	0.214	0.238	NA	NA	NA	NA	11	19

MATRIX SPIKE								
Laboratory ID:	03-363-01							
	MS		MS		MS			
Ammonia	5.18		5.00	0.214	99	80-113	NA	NA

SPIKE BLANK								
Laboratory ID:	SB0405W1							
	SB		SB		SB			
Ammonia	5.00		5.00	NA	100	88-110	NA	NA





Data Qualifiers and Abbreviations

- A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.
 - B - The analyte indicated was also found in the blank sample.
 - C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.
 - E - The value reported exceeds the quantitation range and is an estimate.
 - F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.
 - H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.
 - I - Compound recovery is outside of the control limits.
 - J - The value reported was below the practical quantitation limit. The value is an estimate.
 - K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.
 - L - The RPD is outside of the control limits.
 - M - Hydrocarbons in the gasoline range are impacting the diesel range result.
 - M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.
 - N - Hydrocarbons in the lube oil range are impacting the diesel range result.
 - N1 - Hydrocarbons in diesel range are impacting lube oil range results.
 - O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.
 - P - The RPD of the detected concentrations between the two columns is greater than 40.
 - Q - Surrogate recovery is outside of the control limits.
 - S - Surrogate recovery data is not available due to the necessary dilution of the sample.
 - T - The sample chromatogram is not similar to a typical _____.
 - U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
 - U1 - The practical quantitation limit is elevated due to interferences present in the sample.
 - V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.
 - W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.
 - X - Sample extract treated with a mercury cleanup procedure.
 - X1 - Sample extract treated with a sulfuric acid/silica gel cleanup procedure.
 - Y - The calibration verification for this analyte exceeded the 20% drift specified in methods 8260 & 8270, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.
 - Z -
- ND - Not Detected at PQL
 PQL - Practical Quantitation Limit
 RPD - Relative Percent Difference





OnSite Environmental Inc

David Baumeister
14648 NE 95th Street
Redmond, WA 98052

RE: 04-036

Work Order Number: 2204113

April 13, 2022

Attention David Baumeister:

Fremont Analytical, Inc. received 2 sample(s) on 4/6/2022 for the analyses presented in the following report.

Herbicides by EPA Method 8151A (GC/MS)

This report consists of the following:

- Case Narrative
- Analytical Results
- Applicable Quality Control Summary Reports
- Chain of Custody

All analyses were performed consistent with the Quality Assurance program of Fremont Analytical, Inc. Please contact the laboratory if you should have any questions about the results.

Thank you for using Fremont Analytical.

Sincerely,

Brianna Barnes
Project Manager

CLIENT: OnSite Environmental Inc
Project: 04-036
Work Order: 2204113

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received
2204113-001	MW-10-20220404	04/04/2022 2:45 PM	04/06/2022 3:23 PM
2204113-002	MW-9-20220404	04/04/2022 12:55 PM	04/06/2022 3:23 PM

DRAFT

Note: If no "Time Collected" is supplied, a default of 12:00AM is assigned

CLIENT: OnSite Environmental Inc

Project: 04-036

I. SAMPLE RECEIPT:

Samples receipt information is recorded on the attached Sample Receipt Checklist.

II. GENERAL REPORTING COMMENTS:

Results are reported on a wet weight basis unless dry-weight correction is denoted in the units field on the analytical report ("mg/kg-dry" or "ug/kg-dry").

Matrix Spike (MS) and MS Duplicate (MSD) samples are tested from an analytical batch of "like" matrix to check for possible matrix effect. The MS and MSD will provide site specific matrix data only for those samples which are spiked by the laboratory. The sample chosen for spike purposes may or may not have been a sample submitted in this sample delivery group. The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The LCS and the MB are processed with the samples and the MS/MSD to ensure method criteria are achieved throughout the entire analytical process.

III. ANALYSES AND EXCEPTIONS:

Exceptions associated with this report will be footnoted in the analytical results page(s) or the quality control summary page(s) and/or noted below.

DRAFT

Qualifiers:

- * - Flagged value is not within established control limits
- B - Analyte detected in the associated Method Blank
- D - Dilution was required
- E - Value above quantitation range
- H - Holding times for preparation or analysis exceeded
- I - Analyte with an internal standard that does not meet established acceptance criteria
- J - Analyte detected below Reporting Limit
- N - Tentatively Identified Compound (TIC)
- Q - Analyte with an initial or continuing calibration that does not meet established acceptance criteria
- S - Spike recovery outside accepted recovery limits
- ND - Not detected at the Reporting Limit
- R - High relative percent difference observed

Acronyms:

- %Rec - Percent Recovery
- CCB - Continued Calibration Blank
- CCV - Continued Calibration Verification
- DF - Dilution Factor
- DUP - Sample Duplicate
- HEM - Hexane Extractable Material
- ICV - Initial Calibration Verification
- LCS/LCSD - Laboratory Control Sample / Laboratory Control Sample Duplicate
- MCL - Maximum Contaminant Level
- MB or MBLANK - Method Blank
- MDL - Method Detection Limit
- MS/MSD - Matrix Spike / Matrix Spike Duplicate
- PDS - Post Digestion Spike
- Ref Val - Reference Value
- REP - Sample Replicate
- RL - Reporting Limit
- RPD - Relative Percent Difference
- SD - Serial Dilution
- SGT - Silica Gel Treatment
- SPK - Spike
- Surr - Surrogate



Client: OnSite Environmental Inc

Collection Date: 4/4/2022 2:45:00 PM

Project: 04-036

Lab ID: 2204113-001

Matrix: Water

Client Sample ID: MW-10-20220404

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Herbicides by EPA Method 8151A (GC/MS)

Batch ID: 36035

Analyst: SB

Dicamba	ND	0.991		µg/L	1	4/8/2022 3:20:00 PM
2,4-D	ND	0.991		µg/L	1	4/8/2022 3:20:00 PM
2,4-DP	ND	0.991		µg/L	1	4/8/2022 3:20:00 PM
2,4,5-TP (Silvex)	ND	0.991		µg/L	1	4/8/2022 3:20:00 PM
2,4,5-T	ND	0.991		µg/L	1	4/8/2022 3:20:00 PM
Dinoseb	ND	0.991		µg/L	1	4/8/2022 3:20:00 PM
Dalapon	ND	1.98		µg/L	1	4/8/2022 3:20:00 PM
2,4-DB	ND	0.991		µg/L	1	4/8/2022 3:20:00 PM
MCPP	ND	4.96		µg/L	1	4/8/2022 3:20:00 PM
MCPA	ND	4.96		µg/L	1	4/8/2022 3:20:00 PM
Picloram	ND	0.991	Q	µg/L	1	4/8/2022 3:20:00 PM
Bentazon	ND	0.991		µg/L	1	4/8/2022 3:20:00 PM
Chloramben	ND	0.991		µg/L	1	4/8/2022 3:20:00 PM
Acifluorfen	ND	4.96		µg/L	1	4/8/2022 3:20:00 PM
3,5-Dichlorobenzoic acid	ND	0.991		µg/L	1	4/8/2022 3:20:00 PM
4-Nitrophenol	ND	0.991		µg/L	1	4/8/2022 3:20:00 PM
Dacthal (DCPA)	ND	1.98		µg/L	1	4/8/2022 3:20:00 PM
Surr: 2,4-Dichlorophenylacetic acid	120	65.7 - 136		%Rec	1	4/8/2022 3:20:00 PM

NOTES:

Q - Associated calibration verification is below acceptance criteria. Result may be low-biased.



Client: OnSite Environmental Inc

Collection Date: 4/4/2022 12:55:00 PM

Project: 04-036

Lab ID: 2204113-002

Matrix: Water

Client Sample ID: MW-9-20220404

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Herbicides by EPA Method 8151A (GC/MS)

Batch ID: 36035

Analyst: SB

Dicamba	ND	0.987		µg/L	1	4/8/2022 3:40:43 PM
2,4-D	ND	0.987		µg/L	1	4/8/2022 3:40:43 PM
2,4-DP	ND	0.987		µg/L	1	4/8/2022 3:40:43 PM
2,4,5-TP (Silvex)	ND	0.987		µg/L	1	4/8/2022 3:40:43 PM
2,4,5-T	ND	0.987		µg/L	1	4/8/2022 3:40:43 PM
Dinoseb	ND	0.987		µg/L	1	4/8/2022 3:40:43 PM
Dalapon	ND	1.97		µg/L	1	4/8/2022 3:40:43 PM
2,4-DB	ND	0.987		µg/L	1	4/8/2022 3:40:43 PM
MCP	ND	4.93		µg/L	1	4/8/2022 3:40:43 PM
MCPA	ND	4.93		µg/L	1	4/8/2022 3:40:43 PM
Picloram	ND	0.987	Q	µg/L	1	4/8/2022 3:40:43 PM
Bentazon	ND	0.987		µg/L	1	4/8/2022 3:40:43 PM
Chloramben	ND	0.987		µg/L	1	4/8/2022 3:40:43 PM
Acifluorfen	ND	4.93		µg/L	1	4/8/2022 3:40:43 PM
3,5-Dichlorobenzoic acid	ND	0.987		µg/L	1	4/8/2022 3:40:43 PM
4-Nitrophenol	ND	0.987		µg/L	1	4/8/2022 3:40:43 PM
Dacthal (DCPA)	ND	1.97		µg/L	1	4/8/2022 3:40:43 PM
Surr: 2,4-Dichlorophenylacetic acid	112	65.7 - 136		%Rec	1	4/8/2022 3:40:43 PM

NOTES:

Q - Associated calibration verification is below acceptance criteria. Result may be low-biased.

Work Order: 2204113
 CLIENT: OnSite Environmental Inc
 Project: 04-036

QC SUMMARY REPORT
Herbicides by EPA Method 8151A (GC/MS)

Sample ID: MB-36035	SampType: MBLK	Units: µg/L	Prep Date: 4/7/2022	RunNo: 74639							
Client ID: MBLKW	Batch ID: 36035		Analysis Date: 4/8/2022	SeqNo: 1531455							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Dicamba	ND	1.00									
2,4-D	ND	1.00									
2,4-DP	ND	1.00									
2,4,5-TP (Silvex)	ND	1.00									
2,4,5-T	ND	1.00									
Dinoseb	ND	1.00									
Dalapon	ND	2.00									
2,4-DB	ND	1.00									
MCPD	ND	5.00									
MCPA	ND	5.00									
Picloram	ND	1.00									Q
Bentazon	ND	1.00									
Chloramben	ND	1.00									
Acifluorfen	ND	5.00									
3,5-Dichlorobenzoic acid	ND	1.00									
4-Nitrophenol	ND	1.00									
Dacthal (DCPA)	ND	2.00									
Surr: 2,4-Dichlorophenylacetic acid	27.4		20.00		137	65.7	136				S

NOTES:

S - Outlying surrogate recovery(ies) observed (high bias). Sample is non-detect; result meets QC requirements.
 Q - Associated calibration verification is below acceptance criteria. Result may be low-biased.

Sample ID: LCS-36035	SampType: LCS	Units: µg/L	Prep Date: 4/7/2022	RunNo: 74639							
Client ID: LCSW	Batch ID: 36035		Analysis Date: 4/8/2022	SeqNo: 1531456							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Dicamba	3.84	1.00	4.000	0	96.0	16.6	148				
2,4-D	3.88	1.00	4.000	0	96.9	50.4	150				
2,4-DP	3.54	1.00	4.000	0	88.5	53	135				
2,4,5-TP (Silvex)	3.85	1.00	4.000	0	96.3	53.6	140				
2,4,5-T	3.71	1.00	4.000	0	92.7	50	141				

Work Order: 2204113
 CLIENT: OnSite Environmental Inc
 Project: 04-036

QC SUMMARY REPORT
Herbicides by EPA Method 8151A (GC/MS)

Sample ID: LCS-36035	SampType: LCS	Units: µg/L	Prep Date: 4/7/2022	RunNo: 74639							
Client ID: LCSW	Batch ID: 36035		Analysis Date: 4/8/2022	SeqNo: 1531456							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Dinoseb	1.60	1.00	4.000	0	40.0	5	119				
Dalapon	13.7	2.00	20.00	0	68.5	5.65	97.2				
2,4-DB	3.40	1.00	4.000	0	85.1	54.9	141				
MCPPP	21.1	5.00	20.00	0	106	28.7	166				
MCPA	20.9	5.00	20.00	0	105	20.7	176				
Picloram	2.12	1.00	4.000	0	52.9	9.72	120				
Bentazon	3.59	1.00	4.000	0	89.8	41.2	141				
Chloramben	1.59	1.00	4.000	0	39.7	5	109				
Acifluorfen	1.74	5.00	4.000	0	43.5	7.62	139				
3,5-Dichlorobenzoic acid	3.86	1.00	4.000	0	96.4	52.4	120				
4-Nitrophenol	1.45	1.00	4.000	0	36.1	5	107				
Dacthal (DCPA)	1.45	2.00	4.000	0	36.4	5	65.4				
Surr: 2,4-Dichlorophenylacetic acid	22.5		20.00		112	65.7	136				

Sample ID: 2204077-002EMS	SampType: MS	Units: µg/L	Prep Date: 4/7/2022	RunNo: 74639							
Client ID: BATCH	Batch ID: 36035		Analysis Date: 4/8/2022	SeqNo: 1531459							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Dicamba	4.43	0.995	3.982	0	111	31	142				
2,4-D	4.56	0.995	3.982	0	114	50.3	149				
2,4-DP	4.05	0.995	3.982	0	102	49.9	143				
2,4,5-TP (Silvex)	4.37	0.995	3.982	0	110	47.7	141				
2,4,5-T	4.26	0.995	3.982	0	107	34.4	139				
Dinoseb	2.89	0.995	3.982	0	72.5	27.3	117				
Dalapon	15.2	1.99	19.91	0	76.5	14.2	113				
2,4-DB	3.94	0.995	3.982	0	98.8	31.3	147				
MCPPP	23.9	4.98	19.91	0	120	30.5	177				
MCPA	24.0	4.98	19.91	0	121	36.8	163				
Picloram	2.33	0.995	3.982	0	58.6	18.8	115				
Bentazon	3.95	0.995	3.982	0	99.2	11.9	176				

Work Order: 2204113
 CLIENT: OnSite Environmental Inc
 Project: 04-036

QC SUMMARY REPORT
Herbicides by EPA Method 8151A (GC/MS)

Sample ID: 2204077-002EMS	SampType: MS	Units: µg/L	Prep Date: 4/7/2022	RunNo: 74639							
Client ID: BATCH	Batch ID: 36035	Analysis Date: 4/8/2022	SeqNo: 1531459								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloramben	1.51	0.995	3.982	0	38.0	5	112				
Acifluorfen	2.74	1.99	3.982	0	68.9	28.1	146				
3,5-Dichlorobenzoic acid	4.31	0.995	3.982	0	108	36.2	146				
4-Nitrophenol	1.53	0.995	3.982	0	38.5	5	116				
Dacthal (DCPA)	1.53	0.995	3.982	0	38.3	5	84.6				
Surr: 2,4-Dichlorophenylacetic acid	25.3		19.91		127	65.7	136				

Sample ID: 2204077-002EMSD	SampType: MSD	Units: µg/L	Prep Date: 4/7/2022	RunNo: 74639							
Client ID: BATCH	Batch ID: 36035	Analysis Date: 4/8/2022	SeqNo: 1531460								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dicamba	4.04	0.991	3.962	0	102	31	142	4.425	9.01	50	
2,4-D	4.05	0.991	3.962	0	102	50.3	149	4.558	11.9	50	
2,4-DP	3.67	0.991	3.962	0	92.7	49.9	143	4.052	9.84	50	
2,4,5-TP (Silvex)	3.97	0.991	3.962	0	100	47.7	141	4.374	9.77	50	
2,4,5-T	3.79	0.991	3.962	0	95.8	34.4	139	4.259	11.5	50	
Dinoseb	2.76	0.991	3.962	0	69.6	27.3	117	2.887	4.62	50	
Dalapon	14.4	1.98	19.81	0	72.9	14.2	113	15.23	5.35	50	
2,4-DB	3.51	0.991	3.962	0	88.6	31.3	147	3.935	11.4	50	
MCPP	25.6	4.95	19.81	0	129	30.5	177	23.92	6.84	50	
MCPA	25.7	4.95	19.81	0	130	36.8	163	23.99	6.92	50	
Picloram	2.15	0.991	3.962	0	54.2	18.8	115	2.332	8.23	50	
Bentazon	3.73	0.991	3.962	0	94.1	11.9	176	3.949	5.72	50	
Chloramben	1.52	0.991	3.962	0	38.2	5	112	1.514	0.0939	50	
Acifluorfen	2.61	1.98	3.962	0	65.8	28.1	146	2.743	5.04	50	
3,5-Dichlorobenzoic acid	4.11	0.991	3.962	0	104	36.2	146	4.308	4.62	50	
4-Nitrophenol	1.12	0.991	3.962	0	28.3	5	116	1.533	31.1	50	
Dacthal (DCPA)	1.39	0.991	3.962	0	35.2	5	84.6	1.527	9.05	50	
Surr: 2,4-Dichlorophenylacetic acid	23.3		19.81		118	65.7	136		0		

Client Name: ONSITE

Work Order Number: 2204113

Logged by: Gabrielle Coeuille

Date Received: 4/6/2022 3:23:00 PM

Chain of Custody

1. Is Chain of Custody complete? Yes No Not Present
2. How was the sample delivered? Client

Log In

3. Coolers are present? Yes No NA
4. Shipping container/cooler in good condition? Yes No
5. Custody Seals present on shipping container/cooler?
(Refer to comments for Custody Seals not intact) Yes No Not Present
6. Was an attempt made to cool the samples? Yes No NA
7. Were all items received at a temperature of >2°C to 6°C * Unknown prior to receipt Yes No NA
8. Sample(s) in proper container(s)? Yes No
9. Sufficient sample volume for indicated test(s)? Yes No
10. Are samples properly preserved? Yes No
11. Was preservative added to bottles? Yes No NA
12. Is there headspace in the VOA vials? Yes No NA
13. Did all samples containers arrive in good condition(unbroken)? Yes No
14. Does paperwork match bottle labels? Yes No
15. Are matrices correctly identified on Chain of Custody? Yes No
16. Is it clear what analyses were requested? Yes No
17. Were all holding times able to be met? Yes No

Special Handling (if applicable)

18. Was client notified of all discrepancies with this order? Yes No NA

Person Notified:	<input type="text"/>	Date:	<input type="text"/>
By Whom:	<input type="text"/>	Via:	<input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:	<input type="text"/>		
Client Instructions:	<input type="text"/>		

19. Additional remarks:

Item Information

Item #	Temp °C
Sample 1	8.2

* Note: DoD/ELAP and TNI require items to be received at 4°C +/- 2°C



14648 NE 95th Street, Redmond, WA 98052 · (425) 883-3881

Laboratory: Fremont Analytical
 Attention: Chelsea Ward
 3600 Fremont Avenue N, Seattle, WA 98103
 Phone Number: (206) 352-3790

Turnaround Request

1 Day 2 Day 3 Day

Standard

Other: _____

2204113

Laboratory Reference #: 04-036

Project Manager: David Baumeister

email: dbaumeister@onsite-env.com

Project Number: 6694-002-05

Project Name: _____

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	# of Cont.	Requested Analyses
	MW-10-20220404	4/4/22	14:45	Water	1	Chlorinated Acid Herbicide 8151
	MW-9-20220404	4/4/22	12:55	Water	1	Chlorinated Acid Herbicide 8151
Signature		Company		Date	Time	Comments/Special Instructions
Relinquished by:		OSE		4/6/22	1300	
Received by:		Spdy		4/9/22	1300	
Relinquished by:		Spdy		4/10/22	1515	
Received by:		FAI		4/6/22	15:23	
Relinquished by: _____						
Received by: _____						

Chain of Custody

Company: GEI

Project Number: 6694-002-05

Project Name: 110-East

Project Manager: Garrett Leque

Sampled by: Woodrow D. Stokstad

Turnaround Request (in working days)

(Check One)

Same Day 1 Day

2 Days 3 Days

Standard (7 Days)

_____ (other)

Laboratory Number: **04-036**

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers
1	MW-10-20220404	4/4/22	1445	water	18
2	MW-9-20220404	4/4/22	1755	↓	18

NWTPH-HCID	NWTPH-Gx/BTEX (8021 <input type="checkbox"/> 8260 <input type="checkbox"/>)	NWTPH-Gx	NWTPH-Dx (Acid / SG Clean-up <input type="checkbox"/>)	Volatiles 8260	Halogenated Volatiles 8260	EDB EPA 8011 (Waters Only)	Semivolatiles 8270/SIM (with low-level PAHs)	PAHs 8270/SIM (low-level)	PCBs 8082	Organochlorine Pesticides 8081	Organophosphorus Pesticides 8270/SIM	Chlorinated Acid Herbicides 8151	Total RCRA Metals	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664	TDS	Iron and Dissolved (Lab Filtered) ^{phosphorus}	alkalinity + bicarbonate ^{sm 2520B}	Ca, K, Na, ^{200.7 / 200.8}	1/2 Nitrate ^{Cl, NO3, SO4, NH3}
		X	X	X			X		X	X		X					X	X	X	X	X
		X	X	X			X		X	X		X					X	X	X	X	X

Signature	Company	Date	Time	Comments/Special Instructions
<u>W.D. Stokstad</u>	<u>GEI</u>	<u>4/4/2022</u>	<u>1610</u>	Total and Dissolved metals As, Cd, Cr, Cu, Fe, Pb, Mn, Hg, Ni, Se, Zn, Mg Please refer to Garrett for full list
<u>#17</u>	<u>Speedy & Pl</u>	<u>4/5/22</u>	<u>10:05</u>	
<u>#17</u>	<u>Speedy & Pl</u>	<u>4/5/22</u>	<u>11:57</u>	
<u>[Signature]</u>	<u>OSI</u>	<u>4/5/22</u>	<u>1107</u>	
Reviewed/Date	Reviewed/Date	Data Package: Standard <input type="checkbox"/> Level III <input type="checkbox"/> Level IV <input type="checkbox"/>		
				Chromatograms with final report <input type="checkbox"/> Electronic Data Deliverables (EDDs) <input type="checkbox"/>

Project:	April and May 2022 Groundwater and Surface Water Sampling Results Go East Landfill Site, Everett, Washington
GEI File:	6694-002-05
Date:	March 5, 2023

This report documents the results of a United States Environmental Protection Agency (USEPA)-defined Stage 2A data validation (USEPA Document 540-R-08-005; USEPA 2009) of analytical data from the analyses of water samples collected as part of the April and May 2022 sampling events, and the associated laboratory quality control (QC) samples. The samples were obtained from the Go East Landfill Site located in Everett, Washington.

OBJECTIVE AND QUALITY CONTROL ELEMENTS

GeoEngineers, Inc. (GeoEngineers) completed the data validation consistent with the USEPA Contract Laboratory Program National Functional Guidelines for Organic Superfund Data Review (USEPA 2020a) and Inorganic Superfund Data Review (USEPA 2020b) to determine if the laboratory analytical results meet the project objectives and are usable for their intended purpose. Data usability was assessed by determining if:

- The samples were analyzed using well-defined and acceptable methods that provide reporting limits below applicable regulatory criteria;
- The precision and accuracy of the data are measured by well-defined control limits to provide defensible data; and
- The quality assurance/quality control (QA/QC) procedures utilized by the laboratory meet acceptable industry practices and standards.

The data validation included review of the following QC elements:

- Data Package Completeness
- Chain-of-Custody Documentation
- Holding Times and Sample Preservation
- Method Blanks
- Surrogates
- Matrix Spikes/Matrix Spike Duplicates
- Laboratory Control Samples/Laboratory Control Sample Duplicates
- Laboratory Duplicates
- Reporting Limits

VALIDATED SAMPLE DELIVERY GROUPS

This data validation included review of the sample delivery groups (SDGs) listed below in Table 1.

TABLE 1: SUMMARY OF VALIDATED SAMPLE DELIVERY GROUP

2204-317	MW-3-20220427
2205-009	MW8-05022022
2205-023	SWS-1-220503
2205-024	MW-6-220503
2205-065	MW-1-220504
2205-066	MW-2-220505
2205-084	MW-7-20220506
2205-227	MW-5-220518
2205-228	MW-9-20220519

CHEMICAL ANALYSIS PERFORMED

OnSite Environmental, Inc. (OnSite) of Redmond, Washington, performed laboratory analysis on the water samples using one or more of the following methods:

- Gasoline-range Hydrocarbons (NWTPH-Gx) by Method NWTPH-Gx;
- Petroleum Hydrocarbons (NWTPH-Dx) by Method NWTPH-Dx;
- Volatile Organic Compounds (VOCs) by Method EPA 8260D;
- Semi-volatile Organic Compounds (SVOCs) by Method EPA 8270E (Full-scan Compound list);
- Low-level Polycyclic Aromatic Hydrocarbons (PAHs) by Method EPA 8270E/Selective Ion Monitoring (SIM);
- Polychlorinated Biphenyls (PCB) Aroclors by Method EPA 8082A;
- Organochlorine Pesticides by Method EPA 8081B;

- Total and Dissolved Metals by Methods EPA 200.7, EPA 200.8, or EPA 7470A;
- Total Alkalinity and Bicarbonate by Method SM2320B;
- Total Dissolved Solids (TDS) by Method SM2540C;
- Total Organic Carbon (TOC) by Method SM5310B;
- Chloride by Method SM4500-Cl E;
- Nitrate by Method EPA 353.2;
- Sulfate by ASTM D516-11; and
- Ammonia by Method SM4500-NH3 D

OnSite subcontracted to Fremont Analytical, Inc., (Fremont) located in Seattle, Washington for laboratory analyses on the water samples using the following method:

- Chlorinated Acid Herbicides by Method EPA 8151A

DATA VALIDATION SUMMARY

The results for each of the QC elements are summarized below.

Data Package Completeness

OnSite provided the required deliverables for the data validation according to the National Functional Guidelines. The laboratory followed adequate corrective action processes and the identified anomalies were discussed in the relevant laboratory case narrative.

Chain-of-Custody Documentation

Chain-of-custody (COC) forms were provided with the laboratory analytical reports. The COCs were accurate and complete when submitted to the laboratory. The forms were appropriately signed and dated by both field collectors and laboratory personnel upon receipt.

Holding Times and Sample Preservation

The sample holding time is defined as the time that elapses between sample collection and sample analysis. Maximum holding time criteria exist for each analysis to help ensure that the analyte concentrations found at the time of analysis reflect the concentration present at the time of sample collection. Established holding times were met for each analysis, with the exceptions noted below. The sample coolers arrived at the laboratory within the appropriate temperatures of between two and six degrees Celsius.

SDG 2205-065: (Nitrate) The 48-hour holding time for nitrate analysis was exceeded by eleven days in Sample MW-1-220504. The reporting limit for this target analyte was qualified as estimated (UJ) in this sample.

SDG 2205-066: (Nitrate) The 48-hour holding time for nitrate analysis was exceeded by ten days in Sample MW-2-220505. The reporting limit for this target analyte was qualified as estimated (UJ) in this sample.

SDG 2205-084: (Nitrate) The 48-hour holding time for nitrate analysis was exceeded by nine days in Sample MW-7-20220506. The reporting limit for this target analyte was qualified as estimated (UJ) in this sample.

SDG 2205-227: (Alkalinity) The 14-day holding time for alkalinity analysis was exceeded by one day in Sample MW-5-220518. The positive result for this target analyte was qualified as estimated (J) in this sample.

(Bicarbonate) The 14-day holding time for bicarbonate analysis was exceeded by one day in Sample MW-5-220518. The positive result for this target analyte was qualified as estimated (J) in this sample.

(Nitrate) The 48-hour holding time for nitrate analysis was exceeded by eleven days in Sample MW-5-220518. The reporting limit for this target analyte was qualified as estimated (UJ) in this sample.

SDG 2205-228: (Nitrate) The 48-hour holding time for nitrate analysis was exceeded by ten days in Sample MW-9-20220519. The positive result for this target analyte was qualified as estimated (J) in this sample.

SDG 2205-229: (Nitrate) The 48-hour holding time for nitrate analysis was exceeded by ten days in Sample MW-10-20220519. The positive result for this target analyte was qualified as estimated (J) in this sample.

Method Blanks

Method blanks are analyzed to ensure that laboratory procedures and reagents do not introduce measurable concentrations of the analytes of interest. A method blank was analyzed with each batch of samples, at a frequency of 1 per 20 samples. For each sample batch, method blanks for the applicable methods were analyzed at the required frequency. None of the analytes of interest were detected above the reporting limits in the method blanks.

Surrogate Recoveries

A surrogate compound is a compound that is chemically similar to the organic analytes of interest, but unlikely to be found in an environmental sample. Surrogates are used for organic analyses and are added to the samples, standards, and blanks to serve as an accuracy and specificity check of each analysis. The surrogates are added to the samples at a known concentration and percent recoveries are calculated following analysis. The surrogate percent recoveries for field samples were within the laboratory control limits.

Matrix Spikes/Matrix Spike Duplicates

Since the actual analyte concentration in an environmental sample is not known, the accuracy of a particular analysis is usually inferred by performing a matrix spike (MS) analysis on one sample from the associated batch, known as the parent sample. One aliquot of the sample is analyzed in the normal manner and then a second aliquot of the sample is spiked with a known amount of analyte concentration and analyzed. From these analyses, a percent recovery is calculated. Matrix spike duplicate (MSD) analyses are generally performed for organic analyses as a precision check and analyzed in the same sequence as a matrix spike. Using the result values from the MS and MSD, the relative percent difference (RPD) is calculated. The percent recovery control limits for MS and MSD analyses are specified in the laboratory documents, as are the RPD control limits for MS/MSD sample sets.

For inorganic methods, the matrix spike is followed by a post-digestion spike sample if an element percent recovery was outside the control limits in the matrix spike. The percent recovery control limits for matrix spikes are 75% to 125%.

One MS/MSD analysis should be performed for every analytical batch or every 20 field samples, whichever is more frequent. The frequency requirements were met for each analysis and the percent recovery and RPD values were within the proper control limits, with the following exceptions:

SDG 2205-065: (Herbicides) The laboratory performed a matrix spike on Sample MW-1-220504. The percent recovery for dinoseb was greater than the control limit in the MS extracted on 5/9/2022. There were no positive results for this target analyte in this sample; therefore, no qualification was required.

SDG 2205-229: (Herbicides) The laboratory performed a matrix spike on Sample MW-10-20220519. The percent recovery for dinoseb was greater than the control limit in the MS extracted on 5/24/2022. There were no positive results for this target analyte in this sample; therefore, no qualification was required.

Laboratory Control Samples/Laboratory Control Sample Duplicates

A Laboratory Control Sample (LCS) is a blank sample that is spiked with a known amount of analyte and then analyzed. An LCS is similar to an MS, but without the possibility of matrix interference. Given that matrix interference is not an issue, control limits for accuracy and precision in the LCS and its duplicate (LCSD) are usually more rigorous than for MS/MSD analyses. Additionally, data qualification based on LCS/LCSD analyses would apply to each sample in the associated batch, instead of just the parent sample. The percent recovery control limits for LCS and LCSD analyses are specified in the laboratory documents, as are the RPD control limits for LCS/LCSD sample sets.

One LCS/LCSD analysis should be performed for every analytical batch or every 20 field samples, whichever is more frequent. The frequency requirements were met for each analysis and the percent recovery and RPD values were within the proper control limits, with the following exceptions:

SDG 2204-317: (Herbicides) The percent recoveries for 3,5-Dichlorobenzoic acid and 4-Nitrophenol were greater than the control limits in the LCS/LCSD extracted on 5/4/2022. There were no positive results for these target analytes in the associated field sample; therefore, no qualifications were required.

Additionally, in the same LCS/LCSD sample set, the percent recovery for dinoseb was greater than the control limits in the LCS; however, the percent recovery for this target analyte was within the control limits in the corresponding LCSD. No action was required for this outlier.

SDGs 2205-009, 2205-023, 2205-024, 2205-065, and 2205-066: (Herbicides) The RPD for 4-Nitrophenol was greater than the control limit in the LCS/LCSD extracted on 5/9/2022. There were no positive results for this target analyte in the associated field sample; therefore, no qualification was required.

SDG 2205-084: (Herbicides) The percent recoveries for 2,4-DB, dinoseb, and picloram were greater than the control limits in the LCS/LCSD extracted on 5/13/2022. There were no positive results for these target analytes in the associated field sample; therefore, no qualifications were required.

Additionally, in the same LCS/LCSD sample set, the percent recovery for many other herbicide target analytes were outside the control limits in the LCSD; however, the percent recovery for these target analytes were within the control limits in the corresponding LCS. No action was required for these outliers.

SDGs 2205-227, 2205-228, and 2205-229: (Pesticides) The RPD for aldrin was greater than the control limit in the LCS/LCSD extracted on 5/25/2022. There were no positive results for this target analyte in the associated field sample; therefore, no qualification was required.

(Herbicides) The percent recovery for dinoseb was greater than the control limits in the LCSD extracted on 5/24/2022; however, the percent recovery for this target analyte was within the control limits in the corresponding LCS. No action was required for this outlier.

Additionally, in the same LCS/LCSD sample set, the RPD for 4-Nitrophenol was greater than the control limit. There were no positive results for this target analyte in the associated field sample; therefore, no qualification was required.

Laboratory Duplicates

Internal laboratory duplicate analyses are performed to monitor the precision of the analyses. Two separate aliquots of a sample are analyzed as distinct samples in the laboratory and the RPD between the two results is calculated. Duplicate analyses should be performed once per analytical batch. If one or more of the samples used has a concentration less than five times the reporting limit for that sample, the absolute difference is used instead of the RPD. For organic analyses, the RPD control limits are specified in the laboratory documents. For inorganic analyses, the RPD control limit for water samples is 20 percent. Laboratory duplicates were analyzed at the proper frequency and the specified acceptance criteria were met, with the following exception:

SDG 2205-024: (Nitrate) The laboratory performed a laboratory duplicate sample set on Sample MW-6-220503. The RPD for nitrate was greater than the control limit in the laboratory duplicate extracted on 5/4/2022. The positive result for nitrate was qualified as estimated (J) in this sample.

Reporting Limits

The contract required quantitation limits (CRQL) were met by the laboratory for the target analytes throughout this sampling event, with some exceptions where the CRQL was elevated due to required sample dilution.

OVERALL ASSESSMENT

As was determined by this data validation, the laboratory followed the specified analytical methods. Accuracy was acceptable, as demonstrated by the surrogates, LCS/LCSD, and MS/MSD percent recovery values, with the exceptions noted above. Precision was also acceptable, as demonstrated by the LCS/LCSD, MS/MSD, and laboratory duplicate RPD values, with the exceptions noted above.

The data are acceptable for the intended use, with the following qualifications listed below in Table 2.

TABLE 2: SUMMARY OF QUALIFIED SAMPLES

Sample ID	Analyte	Qualifier	Reason
MW-1-220504	Nitrate	UJ	Holding Time
MW-2-220505	Nitrate	UJ	Holding Time
MW-5-220518	Alkalinity	J	Holding Time
	Bicarbonate	J	Holding Time
	Nitrate	UJ	Holding Time
MW-6-220503	Nitrate	J	Laboratory Duplicate Precision
MW-7-20220506	Nitrate	UJ	Holding Time
MW-9-20220519	Nitrate	J	Holding Time
MW-10-20220519	Nitrate	J	Holding Time

REFERENCES

- GeoEngineers, Inc., "Interim Action Work Plan, Go East Corp Landfill Site, Everett, Washington, Ecology Agreed Order No. DE 18121 – prepared for Washington State Department of Ecology on Behalf of PG&E, LLC. GEI File No. 6694-002-03, April 23, 2020.
- U.S. Environmental Protection Agency (USEPA). "Guidance for Labeling Externally Validated Laboratory Analytical Data for Superfund Use," EPA-540-R-08-005. January 2009.
- U.S. Environmental Protection Agency (USEPA) 2020a. Contract Laboratory Program National Functional Guidelines for Organic Superfund Methods Data Review, EPA-540-R-20-005. November 2020.
- U.S. Environmental Protection Agency (USEPA) 2020b. Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Methods Data Review, EPA-542-R-20-006. November 2020.



14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

May 17, 2022

Garrett Leque
GeoEngineers, Inc.
554 West Bakerview Road
Bellingham, WA 98226

Re: Analytical Data for Project 6694-002-05 T700
Laboratory Reference No. 2204-317

Dear Garrett:

Enclosed are the analytical results and associated quality control data for samples submitted on April 28, 2022.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

A handwritten signature in black ink, appearing to read "DB", with a horizontal line extending to the right.

David Baumeister
Project Manager

Enclosures



OnSite Environmental, Inc. 14648 NE 95th Street, Redmond, WA 98052 (425) 883-3881

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: May 17, 2022
Samples Submitted: April 28, 2022
Laboratory Reference: 2204-317
Project: 6694-002-05 T700

Case Narrative

Samples were collected on April 27, 2022 and received by the laboratory on April 28, 2022. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.



Date of Report: May 17, 2022
Samples Submitted: April 28, 2022
Laboratory Reference: 2204-317
Project: 6694-002-05 T700

ANALYTICAL REPORT FOR SAMPLES

Client ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
MW-3-20220427	04-317-01	Water	4-27-22	4-28-22	

DRAFT



Date of Report: May 17, 2022
 Samples Submitted: April 28, 2022
 Laboratory Reference: 2204-317
 Project: 6694-002-05 T700

GASOLINE RANGE ORGANICS
NWTPH-Gx

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-3-20220427					
Laboratory ID:	04-317-01					
Gasoline	ND	100	NWTPH-Gx	4-28-22	4-28-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	95	66-117				



Date of Report: May 17, 2022
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 Project: 6694-002-05 T700

DIESEL AND HEAVY OIL RANGE ORGANICS
NWTPH-Dx

Matrix: Water
 Units: mg/L (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-3-20220427					
Laboratory ID:	04-317-01					
Diesel Range Organics	ND	0.22	NWTPH-Dx	5-2-22	5-3-22	
Lube Oil Range Organics	ND	0.22	NWTPH-Dx	5-2-22	5-3-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	<i>108</i>	<i>50-150</i>				



Date of Report: May 17, 2022
 Samples Submitted: April 28, 2022
 Laboratory Reference: 2204-317
 Project: 6694-002-05 T700

VOLATILE ORGANICS EPA 8260D
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-3-20220427					
Laboratory ID:	04-317-01					
Dichlorodifluoromethane	ND	0.39	EPA 8260D	4-29-22	4-29-22	
Chloromethane	ND	1.3	EPA 8260D	4-29-22	4-29-22	
Vinyl Chloride	ND	0.20	EPA 8260D	4-29-22	4-29-22	
Bromomethane	ND	2.8	EPA 8260D	4-29-22	4-29-22	
Chloroethane	ND	1.0	EPA 8260D	4-29-22	4-29-22	
Trichlorofluoromethane	ND	0.20	EPA 8260D	4-29-22	4-29-22	
1,1-Dichloroethene	ND	0.20	EPA 8260D	4-29-22	4-29-22	
Acetone	ND	5	EPA 8260D	4-29-22	4-29-22	
Iodomethane	ND	14	EPA 8260D	4-29-22	4-29-22	
Carbon Disulfide	ND	0.20	EPA 8260D	4-29-22	4-29-22	
Methylene Chloride	ND	1.0	EPA 8260D	4-29-22	4-29-22	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	4-29-22	4-29-22	
Methyl t-Butyl Ether	ND	0.20	EPA 8260D	4-29-22	4-29-22	
1,1-Dichloroethane	ND	0.20	EPA 8260D	4-29-22	4-29-22	
Vinyl Acetate	ND	1.0	EPA 8260D	4-29-22	4-29-22	
2,2-Dichloropropane	ND	0.20	EPA 8260D	4-29-22	4-29-22	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	4-29-22	4-29-22	
2-Butanone	ND	5	EPA 8260D	4-29-22	4-29-22	
Bromochloromethane	ND	0.20	EPA 8260D	4-29-22	4-29-22	
Chloroform	ND	0.20	EPA 8260D	4-29-22	4-29-22	
1,1,1-Trichloroethane	ND	0.20	EPA 8260D	4-29-22	4-29-22	
Carbon Tetrachloride	ND	0.20	EPA 8260D	4-29-22	4-29-22	
1,1-Dichloropropene	ND	0.20	EPA 8260D	4-29-22	4-29-22	
Benzene	ND	0.20	EPA 8260D	4-29-22	4-29-22	
1,2-Dichloroethane	ND	0.20	EPA 8260D	4-29-22	4-29-22	
Trichloroethene	ND	0.20	EPA 8260D	4-29-22	4-29-22	
1,2-Dichloropropane	ND	0.20	EPA 8260D	4-29-22	4-29-22	
Dibromomethane	ND	0.20	EPA 8260D	4-29-22	4-29-22	
Bromodichloromethane	ND	0.20	EPA 8260D	4-29-22	4-29-22	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260D	4-29-22	4-29-22	
Methyl Isobutyl Ketone	ND	2.0	EPA 8260D	4-29-22	4-29-22	
Toluene	ND	1.0	EPA 8260D	4-29-22	4-29-22	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260D	4-29-22	4-29-22	



Date of Report: May 17, 2022
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 Laboratory Reference: 2204-317
 Project: 6694-002-05 T700

VOLATILE ORGANICS EPA 8260D
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-3-20220427					
Laboratory ID:	04-317-01					
1,1,2-Trichloroethane	ND	0.20	EPA 8260D	4-29-22	4-29-22	
Tetrachloroethene	ND	0.20	EPA 8260D	4-29-22	4-29-22	
1,3-Dichloropropane	ND	0.20	EPA 8260D	4-29-22	4-29-22	
2-Hexanone	ND	2.0	EPA 8260D	4-29-22	4-29-22	
Dibromochloromethane	ND	0.20	EPA 8260D	4-29-22	4-29-22	
1,2-Dibromoethane	ND	0.20	EPA 8260D	4-29-22	4-29-22	
Chlorobenzene	ND	0.20	EPA 8260D	4-29-22	4-29-22	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260D	4-29-22	4-29-22	
Ethylbenzene	ND	0.20	EPA 8260D	4-29-22	4-29-22	
m,p-Xylene	ND	0.40	EPA 8260D	4-29-22	4-29-22	
o-Xylene	ND	0.20	EPA 8260D	4-29-22	4-29-22	
Styrene	ND	0.20	EPA 8260D	4-29-22	4-29-22	
Bromoform	ND	1.0	EPA 8260D	4-29-22	4-29-22	
Isopropylbenzene	ND	0.20	EPA 8260D	4-29-22	4-29-22	
Bromobenzene	ND	0.20	EPA 8260D	4-29-22	4-29-22	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260D	4-29-22	4-29-22	
1,2,3-Trichloropropane	ND	0.20	EPA 8260D	4-29-22	4-29-22	
n-Propylbenzene	ND	0.20	EPA 8260D	4-29-22	4-29-22	
2-Chlorotoluene	ND	0.20	EPA 8260D	4-29-22	4-29-22	
4-Chlorotoluene	ND	0.20	EPA 8260D	4-29-22	4-29-22	
1,3,5-Trimethylbenzene	ND	0.20	EPA 8260D	4-29-22	4-29-22	
tert-Butylbenzene	ND	0.20	EPA 8260D	4-29-22	4-29-22	
1,2,4-Trimethylbenzene	ND	0.20	EPA 8260D	4-29-22	4-29-22	
sec-Butylbenzene	ND	0.20	EPA 8260D	4-29-22	4-29-22	
1,3-Dichlorobenzene	ND	0.20	EPA 8260D	4-29-22	4-29-22	
p-Isopropyltoluene	ND	0.20	EPA 8260D	4-29-22	4-29-22	
1,4-Dichlorobenzene	ND	0.20	EPA 8260D	4-29-22	4-29-22	
1,2-Dichlorobenzene	ND	0.20	EPA 8260D	4-29-22	4-29-22	
n-Butylbenzene	ND	0.20	EPA 8260D	4-29-22	4-29-22	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260D	4-29-22	4-29-22	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260D	4-29-22	4-29-22	
Hexachlorobutadiene	ND	1.0	EPA 8260D	4-29-22	4-29-22	
Naphthalene	ND	1.0	EPA 8260D	4-29-22	4-29-22	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260D	4-29-22	4-29-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>97</i>	<i>75-127</i>				
<i>Toluene-d8</i>	<i>100</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>96</i>	<i>78-125</i>				



Date of Report: May 17, 2022
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 Laboratory Reference: 2204-317
 Project: 6694-002-05 T700

SEMIVOLATILE ORGANICS EPA 8270E/SIM
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-3-20220427					
Laboratory ID:	04-317-01					
n-Nitrosodimethylamine	ND	1.0	EPA 8270E	4-29-22	4-29-22	
Pyridine	ND	1.0	EPA 8270E	4-29-22	4-29-22	
Phenol	ND	1.0	EPA 8270E	4-29-22	4-29-22	
Aniline	ND	5.2	EPA 8270E	4-29-22	4-29-22	
bis(2-Chloroethyl)ether	ND	1.0	EPA 8270E	4-29-22	4-29-22	
2-Chlorophenol	ND	1.0	EPA 8270E	4-29-22	4-29-22	
1,3-Dichlorobenzene	ND	1.0	EPA 8270E	4-29-22	4-29-22	
1,4-Dichlorobenzene	ND	1.0	EPA 8270E	4-29-22	4-29-22	
Benzyl alcohol	ND	1.0	EPA 8270E	4-29-22	4-29-22	
1,2-Dichlorobenzene	ND	1.0	EPA 8270E	4-29-22	4-29-22	
2-Methylphenol (o-Cresol)	ND	1.0	EPA 8270E	4-29-22	4-29-22	
bis(2-Chloroisopropyl)ether	ND	1.0	EPA 8270E	4-29-22	4-29-22	
(3+4)-Methylphenol (m,p-Cresol)	ND	1.0	EPA 8270E	4-29-22	4-29-22	
n-Nitroso-di-n-propylamine	ND	1.0	EPA 8270E	4-29-22	4-29-22	
Hexachloroethane	ND	1.0	EPA 8270E	4-29-22	4-29-22	
Nitrobenzene	ND	1.0	EPA 8270E	4-29-22	4-29-22	
Isophorone	ND	1.0	EPA 8270E	4-29-22	4-29-22	
2-Nitrophenol	ND	1.0	EPA 8270E	4-29-22	4-29-22	
2,4-Dimethylphenol	ND	1.0	EPA 8270E	4-29-22	4-29-22	
bis(2-Chloroethoxy)methane	ND	1.0	EPA 8270E	4-29-22	4-29-22	
2,4-Dichlorophenol	ND	1.0	EPA 8270E	4-29-22	4-29-22	
1,2,4-Trichlorobenzene	ND	1.0	EPA 8270E	4-29-22	4-29-22	
Naphthalene	ND	0.10	EPA 8270E/SIM	4-29-22	4-29-22	
4-Chloroaniline	ND	1.0	EPA 8270E	4-29-22	4-29-22	
Hexachlorobutadiene	ND	1.0	EPA 8270E	4-29-22	4-29-22	
4-Chloro-3-methylphenol	ND	1.0	EPA 8270E	4-29-22	4-29-22	
2-Methylnaphthalene	ND	0.10	EPA 8270E/SIM	4-29-22	4-29-22	
1-Methylnaphthalene	ND	0.10	EPA 8270E/SIM	4-29-22	4-29-22	
Hexachlorocyclopentadiene	ND	1.0	EPA 8270E	4-29-22	4-29-22	
2,4,6-Trichlorophenol	ND	1.0	EPA 8270E	4-29-22	4-29-22	
2,3-Dichloroaniline	ND	1.0	EPA 8270E	4-29-22	4-29-22	
2,4,5-Trichlorophenol	ND	1.0	EPA 8270E	4-29-22	4-29-22	
2-Chloronaphthalene	ND	1.0	EPA 8270E	4-29-22	4-29-22	
2-Nitroaniline	ND	1.0	EPA 8270E	4-29-22	4-29-22	
1,4-Dinitrobenzene	ND	1.0	EPA 8270E	4-29-22	4-29-22	
Dimethylphthalate	ND	5.2	EPA 8270E	4-29-22	4-29-22	
1,3-Dinitrobenzene	ND	1.0	EPA 8270E	4-29-22	4-29-22	
2,6-Dinitrotoluene	ND	1.0	EPA 8270E	4-29-22	4-29-22	
1,2-Dinitrobenzene	ND	1.0	EPA 8270E	4-29-22	4-29-22	
Acenaphthylene	ND	0.10	EPA 8270E/SIM	4-29-22	4-29-22	
3-Nitroaniline	ND	1.0	EPA 8270E	4-29-22	4-29-22	



Date of Report: May 17, 2022
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SEMIVOLATILE ORGANICS EPA 8270E/SIM
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-3-20220427					
Laboratory ID:	04-317-01					
2,4-Dinitrophenol	ND	5.2	EPA 8270E	4-29-22	4-29-22	
Acenaphthene	ND	0.10	EPA 8270E/SIM	4-29-22	4-29-22	
4-Nitrophenol	ND	5.2	EPA 8270E	4-29-22	4-29-22	
2,4-Dinitrotoluene	ND	1.0	EPA 8270E	4-29-22	4-29-22	
Dibenzofuran	ND	1.0	EPA 8270E	4-29-22	4-29-22	
2,3,5,6-Tetrachlorophenol	ND	1.0	EPA 8270E	4-29-22	4-29-22	
2,3,4,6-Tetrachlorophenol	ND	1.0	EPA 8270E	4-29-22	4-29-22	
Diethylphthalate	ND	1.0	EPA 8270E	4-29-22	4-29-22	
4-Chlorophenyl-phenylether	ND	1.0	EPA 8270E	4-29-22	4-29-22	
4-Nitroaniline	ND	1.0	EPA 8270E	4-29-22	4-29-22	
Fluorene	ND	0.10	EPA 8270E/SIM	4-29-22	4-29-22	
4,6-Dinitro-2-methylphenol	ND	5.2	EPA 8270E	4-29-22	4-29-22	
n-Nitrosodiphenylamine	ND	1.0	EPA 8270E	4-29-22	4-29-22	
1,2-Diphenylhydrazine	ND	1.0	EPA 8270E	4-29-22	4-29-22	
4-Bromophenyl-phenylether	ND	1.0	EPA 8270E	4-29-22	4-29-22	
Hexachlorobenzene	ND	1.0	EPA 8270E	4-29-22	4-29-22	
Pentachlorophenol	ND	2.1	EPA 8270E	4-29-22	4-29-22	
Phenanthrene	ND	0.10	EPA 8270E/SIM	4-29-22	4-29-22	
Anthracene	ND	0.10	EPA 8270E/SIM	4-29-22	4-29-22	
Carbazole	ND	1.0	EPA 8270E	4-29-22	4-29-22	
Di-n-butylphthalate	ND	5.2	EPA 8270E	4-29-22	4-29-22	
Fluoranthene	ND	0.10	EPA 8270E/SIM	4-29-22	4-29-22	
Pyrene	ND	0.10	EPA 8270E/SIM	4-29-22	4-29-22	
Butylbenzylphthalate	ND	1.0	EPA 8270E	4-29-22	4-29-22	
bis-2-Ethylhexyladipate	ND	5.2	EPA 8270E	4-29-22	4-29-22	
3,3'-Dichlorobenzidine	ND	1.0	EPA 8270E	4-29-22	4-29-22	
Benzo[a]anthracene	ND	0.010	EPA 8270E/SIM	4-29-22	4-29-22	
Chrysene	ND	0.010	EPA 8270E/SIM	4-29-22	4-29-22	
bis(2-Ethylhexyl)phthalate	ND	5.2	EPA 8270E	4-29-22	4-29-22	
Di-n-octylphthalate	ND	1.0	EPA 8270E	4-29-22	4-29-22	
Benzo[b]fluoranthene	ND	0.010	EPA 8270E/SIM	4-29-22	4-29-22	
Benzo(j,k)fluoranthene	ND	0.010	EPA 8270E/SIM	4-29-22	4-29-22	
Benzo[a]pyrene	ND	0.010	EPA 8270E/SIM	4-29-22	4-29-22	
Indeno[1,2,3-cd]pyrene	ND	0.010	EPA 8270E/SIM	4-29-22	4-29-22	
Dibenz[a,h]anthracene	ND	0.010	EPA 8270E/SIM	4-29-22	4-29-22	
Benzo[g,h,i]perylene	ND	0.010	EPA 8270E/SIM	4-29-22	4-29-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
2-Fluorophenol	41	10 - 82				
Phenol-d6	30	10 - 92				
Nitrobenzene-d5	63	32 - 105				
2-Fluorobiphenyl	69	38 - 105				
2,4,6-Tribromophenol	80	25 - 124				
Terphenyl-d14	70	42 - 116				



Date of Report: May 17, 2022
 Samples Submitted: April 28, 2022
 Laboratory Reference: 2204-317
 Project: 6694-002-05 T700

PCBs EPA 8082A

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-3-20220427					
Laboratory ID:	04-317-01					
Aroclor 1016	ND	0.050	EPA 8082A	5-3-22	5-4-22	
Aroclor 1221	ND	0.050	EPA 8082A	5-3-22	5-4-22	
Aroclor 1232	ND	0.050	EPA 8082A	5-3-22	5-4-22	
Aroclor 1242	ND	0.050	EPA 8082A	5-3-22	5-4-22	
Aroclor 1248	ND	0.050	EPA 8082A	5-3-22	5-4-22	
Aroclor 1254	ND	0.050	EPA 8082A	5-3-22	5-4-22	
Aroclor 1260	ND	0.050	EPA 8082A	5-3-22	5-4-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>DCB</i>	83	49-133				



Date of Report: May 17, 2022
 Samples Submitted: April 28, 2022
 Laboratory Reference: 2204-317
 Project: 6694-002-05 T700

**ORGANOCHLORINE
 PESTICIDES EPA 8081B**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-3-20220427					
Laboratory ID:	04-317-01					
alpha-BHC	ND	0.0050	EPA 8081B	5-3-22	5-3-22	
gamma-BHC (Lindane)	ND	0.0050	EPA 8081B	5-3-22	5-3-22	
beta-BHC	ND	0.0050	EPA 8081B	5-3-22	5-3-22	
delta-BHC	ND	0.0050	EPA 8081B	5-3-22	5-3-22	
Heptachlor	ND	0.0050	EPA 8081B	5-3-22	5-3-22	
Aldrin	ND	0.0020	EPA 8081B	5-3-22	5-3-22	
Heptachlor Epoxide	ND	0.0030	EPA 8081B	5-3-22	5-3-22	
gamma-Chlordane	ND	0.0050	EPA 8081B	5-3-22	5-3-22	
alpha-Chlordane	ND	0.0050	EPA 8081B	5-3-22	5-3-22	
4,4'-DDE	ND	0.0050	EPA 8081B	5-3-22	5-3-22	
Endosulfan I	ND	0.0050	EPA 8081B	5-3-22	5-3-22	
Dieldrin	ND	0.0050	EPA 8081B	5-3-22	5-3-22	
Endrin	ND	0.0050	EPA 8081B	5-3-22	5-3-22	
4,4'-DDD	ND	0.0050	EPA 8081B	5-3-22	5-3-22	
Endosulfan II	ND	0.0050	EPA 8081B	5-3-22	5-3-22	
4,4'-DDT	ND	0.0050	EPA 8081B	5-3-22	5-3-22	Y1
Endrin Aldehyde	ND	0.0050	EPA 8081B	5-3-22	5-3-22	
Methoxychlor	ND	0.010	EPA 8081B	5-3-22	5-3-22	
Endosulfan Sulfate	ND	0.0050	EPA 8081B	5-3-22	5-3-22	
Endrin Ketone	ND	0.020	EPA 8081B	5-3-22	5-3-22	
Toxaphene	ND	0.050	EPA 8081B	5-3-22	5-3-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
TCMX	55	21-110				
DCB	77	42-113				



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TOTAL METALS
EPA 200.8/200.7/7470A

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-3-20220427					
Laboratory ID:	04-317-01					
Arsenic	3.6	3.3	EPA 200.8	5-5-22	5-5-22	
Cadmium	ND	4.4	EPA 200.8	5-5-22	5-5-22	
Chromium	ND	11	EPA 200.8	5-5-22	5-5-22	
Copper	ND	11	EPA 200.8	5-5-22	5-5-22	
Iron	3800	50	EPA 200.7	5-3-22	5-3-22	
Lead	1.1	1.1	EPA 200.8	5-5-22	5-5-22	
Magnesium	14000	1000	EPA 200.7	5-3-22	5-3-22	
Manganese	220	10	EPA 200.7	5-3-22	5-3-22	
Mercury	ND	0.025	EPA 7470A	5-4-22	5-4-22	
Nickel	ND	22	EPA 200.8	5-5-22	5-5-22	
Selenium	ND	5.6	EPA 200.8	5-5-22	5-5-22	
Zinc	ND	28	EPA 200.8	5-5-22	5-5-22	



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DISSOLVED METALS
EPA 200.8/200.7/7470A

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-3-20220427					
Laboratory ID:	04-317-01					
Arsenic	3.1	3.0	EPA 200.8		5-4-22	
Cadmium	ND	4.0	EPA 200.8		5-4-22	
Calcium	23000	1100	EPA 200.7		5-2-22	
Chromium	ND	10	EPA 200.8		5-4-22	
Copper	ND	10	EPA 200.8		5-4-22	
Iron	ND	56	EPA 200.7		5-2-22	
Lead	ND	1.0	EPA 200.8		5-4-22	
Magnesium	13000	1100	EPA 200.7		5-2-22	
Manganese	150	11	EPA 200.7		5-2-22	
Mercury	ND	0.025	EPA 7470A		5-4-22	
Nickel	ND	20	EPA 200.8		5-4-22	
Potassium	2400	1100	EPA 200.7		5-2-22	
Selenium	ND	5.0	EPA 200.8		5-4-22	
Sodium	7000	1100	EPA 200.7		5-2-22	
Zinc	ND	25	EPA 200.8		5-4-22	



Date of Report: May 17, 2022
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**TOTAL ALKALINITY
 SM 2320B**

Matrix: Water
 Units: mg CaCO₃/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-3-20220427					
Laboratory ID:	04-317-01					
Total Alkalinity	100	2.0	SM 2320B	5-4-22	5-4-22	



Date of Report: December 15, 2021
Samples Submitted: December 7, 2021
Laboratory Reference: 2112-075
Project: 6694-002-05 T700

**BICARBONATE
SM 2320B**

Matrix: Water
Units: mg CaCO₃/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-3-20220427					
Laboratory ID:	04-317-01					
Bicarbonate	100	2.0	SM 2320B	5-4-22	5-4-22	



Date of Report: May 17, 2022
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**TOTAL DISSOLVED SOLIDS
SM 2540C**

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-3-20220427					
Laboratory ID:	04-317-01					
Total Dissolved Solids	170	13	SM 2540C	4-29-22	5-2-22	



Date of Report: May 17, 2022
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Laboratory Reference: 2204-317
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CHLORIDE
SM 4500-Cl E

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-3-20220427					
Laboratory ID:	04-317-01					
Chloride	6.4	2.0	SM 4500-Cl E	5-2-22	5-2-22	



Date of Report: May 17, 2022
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NITRATE (as Nitrogen)
EPA 353.2

Matrix: Water
Units: mg/L-N

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-3-20220427					
Laboratory ID:	04-317-01					
Nitrate	ND	0.050	EPA 353.2	4-28-22	4-28-22	



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SULFATE
ASTM D516-11

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-3-20220427					
Laboratory ID:	04-317-01					
Sulfate	13	10	ASTM D516-11	5-9-22	5-9-22	



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AMMONIA (as Nitrogen)
SM 4500-NH₃ D

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-3-20220427					
Laboratory ID:	04-317-01					
Ammonia	0.060	0.050	SM 4500-NH3 D	5-16-22	5-16-02	



Date of Report: May 17, 2022
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**GASOLINE RANGE ORGANICS
 NWTPH-Gx
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0428W2					
Gasoline	ND	100	NWTPH-Gx	4-28-22	4-28-22	
Surrogate:	Percent Recovery		Control Limits			
Fluorobenzene	87	66-117				

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	04-316-02							
	ORIG	DUP						
Gasoline	ND	ND	NA	NA	NA	NA	30	
Surrogate:								
Fluorobenzene				87	87	66-117		



Date of Report: May 17, 2022
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 Laboratory Reference: 2204-317
 Project: 6694-002-05 T700

**DIESEL AND HEAVY OIL RANGE ORGANICS
 NWTPH-Dx
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0502W1					
Diesel Range Organics	ND	0.080	NWTPH-Dx	5-2-22	5-2-22	
Lube Oil Range Organics	ND	0.16	NWTPH-Dx	5-2-22	5-2-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	100	50-150				

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	SB0502W1							
	ORIG	DUP						
Diesel Fuel #2	0.515	0.503	NA	NA	NA	NA	2	NA
<i>Surrogate:</i>								
<i>o-Terphenyl</i>				105	106	50-150		



Date of Report: May 17, 2022
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**VOLATILE ORGANICS EPA 8260D
 QUALITY CONTROL**

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Matrix: Water

Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0429W2					
Dichlorodifluoromethane	ND	0.39	EPA 8260D	4-29-22	4-29-22	
Chloromethane	ND	1.3	EPA 8260D	4-29-22	4-29-22	
Vinyl Chloride	ND	0.20	EPA 8260D	4-29-22	4-29-22	
Bromomethane	ND	2.8	EPA 8260D	4-29-22	4-29-22	
Chloroethane	ND	1.0	EPA 8260D	4-29-22	4-29-22	
Trichlorofluoromethane	ND	0.20	EPA 8260D	4-29-22	4-29-22	
1,1-Dichloroethene	ND	0.20	EPA 8260D	4-29-22	4-29-22	
Acetone	ND	5.0	EPA 8260D	4-29-22	4-29-22	
Iodomethane	ND	14	EPA 8260D	4-29-22	4-29-22	
Carbon Disulfide	ND	0.20	EPA 8260D	4-29-22	4-29-22	
Methylene Chloride	ND	1.0	EPA 8260D	4-29-22	4-29-22	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	4-29-22	4-29-22	
Methyl t-Butyl Ether	ND	0.20	EPA 8260D	4-29-22	4-29-22	
1,1-Dichloroethane	ND	0.20	EPA 8260D	4-29-22	4-29-22	
Vinyl Acetate	ND	1.0	EPA 8260D	4-29-22	4-29-22	
2,2-Dichloropropane	ND	0.20	EPA 8260D	4-29-22	4-29-22	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	4-29-22	4-29-22	
2-Butanone	ND	5.0	EPA 8260D	4-29-22	4-29-22	
Bromochloromethane	ND	0.20	EPA 8260D	4-29-22	4-29-22	
Chloroform	ND	0.20	EPA 8260D	4-29-22	4-29-22	
1,1,1-Trichloroethane	ND	0.20	EPA 8260D	4-29-22	4-29-22	
Carbon Tetrachloride	ND	0.20	EPA 8260D	4-29-22	4-29-22	
1,1-Dichloropropene	ND	0.20	EPA 8260D	4-29-22	4-29-22	
Benzene	ND	0.20	EPA 8260D	4-29-22	4-29-22	
1,2-Dichloroethane	ND	0.20	EPA 8260D	4-29-22	4-29-22	
Trichloroethene	ND	0.20	EPA 8260D	4-29-22	4-29-22	
1,2-Dichloropropane	ND	0.20	EPA 8260D	4-29-22	4-29-22	
Dibromomethane	ND	0.20	EPA 8260D	4-29-22	4-29-22	
Bromodichloromethane	ND	0.20	EPA 8260D	4-29-22	4-29-22	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260D	4-29-22	4-29-22	
Methyl Isobutyl Ketone	ND	2.0	EPA 8260D	4-29-22	4-29-22	
Toluene	ND	1.0	EPA 8260D	4-29-22	4-29-22	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260D	4-29-22	4-29-22	



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**VOLATILE ORGANICS EPA 8260D
 QUALITY CONTROL**

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0429W2					
1,1,2-Trichloroethane	ND	0.20	EPA 8260D	4-29-22	4-29-22	
Tetrachloroethene	ND	0.20	EPA 8260D	4-29-22	4-29-22	
1,3-Dichloropropane	ND	0.20	EPA 8260D	4-29-22	4-29-22	
2-Hexanone	ND	2.0	EPA 8260D	4-29-22	4-29-22	
Dibromochloromethane	ND	0.20	EPA 8260D	4-29-22	4-29-22	
1,2-Dibromoethane	ND	0.20	EPA 8260D	4-29-22	4-29-22	
Chlorobenzene	ND	0.20	EPA 8260D	4-29-22	4-29-22	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260D	4-29-22	4-29-22	
Ethylbenzene	ND	0.20	EPA 8260D	4-29-22	4-29-22	
m,p-Xylene	ND	0.40	EPA 8260D	4-29-22	4-29-22	
o-Xylene	ND	0.20	EPA 8260D	4-29-22	4-29-22	
Styrene	ND	0.20	EPA 8260D	4-29-22	4-29-22	
Bromoform	ND	1.0	EPA 8260D	4-29-22	4-29-22	
Isopropylbenzene	ND	0.20	EPA 8260D	4-29-22	4-29-22	
Bromobenzene	ND	0.20	EPA 8260D	4-29-22	4-29-22	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260D	4-29-22	4-29-22	
1,2,3-Trichloropropane	ND	0.20	EPA 8260D	4-29-22	4-29-22	
n-Propylbenzene	ND	0.20	EPA 8260D	4-29-22	4-29-22	
2-Chlorotoluene	ND	0.20	EPA 8260D	4-29-22	4-29-22	
4-Chlorotoluene	ND	0.20	EPA 8260D	4-29-22	4-29-22	
1,3,5-Trimethylbenzene	ND	0.20	EPA 8260D	4-29-22	4-29-22	
tert-Butylbenzene	ND	0.20	EPA 8260D	4-29-22	4-29-22	
1,2,4-Trimethylbenzene	ND	0.20	EPA 8260D	4-29-22	4-29-22	
sec-Butylbenzene	ND	0.20	EPA 8260D	4-29-22	4-29-22	
1,3-Dichlorobenzene	ND	0.20	EPA 8260D	4-29-22	4-29-22	
p-Isopropyltoluene	ND	0.20	EPA 8260D	4-29-22	4-29-22	
1,4-Dichlorobenzene	ND	0.20	EPA 8260D	4-29-22	4-29-22	
1,2-Dichlorobenzene	ND	0.20	EPA 8260D	4-29-22	4-29-22	
n-Butylbenzene	ND	0.20	EPA 8260D	4-29-22	4-29-22	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260D	4-29-22	4-29-22	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260D	4-29-22	4-29-22	
Hexachlorobutadiene	ND	1.0	EPA 8260D	4-29-22	4-29-22	
Naphthalene	ND	1.0	EPA 8260D	4-29-22	4-29-22	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260D	4-29-22	4-29-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>102</i>	<i>75-127</i>				
<i>Toluene-d8</i>	<i>99</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>97</i>	<i>78-125</i>				



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**VOLATILE ORGANICS EPA 8260D
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD	RPD	Flags
					Recovery	Limits	RPD	Limit		
SPIKE BLANKS										
Laboratory ID:	SB0429W2									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	9.71	9.69	10.0	10.0	97	97	78-125	0	19	
Benzene	9.82	9.95	10.0	10.0	98	100	80-119	1	16	
Trichloroethene	9.83	10.1	10.0	10.0	98	101	80-121	3	18	
Toluene	9.69	9.84	10.0	10.0	97	98	80-117	2	18	
Chlorobenzene	9.64	9.82	10.0	10.0	96	98	80-117	2	17	
<i>Surrogate:</i>										
Dibromofluoromethane					102	103	75-127			
Toluene-d8					100	102	80-127			
4-Bromofluorobenzene					101	102	78-125			



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**SEMIVOLATILE ORGANICS EPA 8270E/SIM
 QUALITY CONTROL**

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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0429W2					
n-Nitrosodimethylamine	ND	1.0	EPA 8270E	4-29-22	4-29-22	
Pyridine	ND	1.0	EPA 8270E	4-29-22	4-29-22	
Phenol	ND	1.0	EPA 8270E	4-29-22	4-29-22	
Aniline	ND	5.0	EPA 8270E	4-29-22	4-29-22	
bis(2-Chloroethyl)ether	ND	1.0	EPA 8270E	4-29-22	4-29-22	
2-Chlorophenol	ND	1.0	EPA 8270E	4-29-22	4-29-22	
1,3-Dichlorobenzene	ND	1.0	EPA 8270E	4-29-22	4-29-22	
1,4-Dichlorobenzene	ND	1.0	EPA 8270E	4-29-22	4-29-22	
Benzyl alcohol	ND	1.0	EPA 8270E	4-29-22	4-29-22	
1,2-Dichlorobenzene	ND	1.0	EPA 8270E	4-29-22	4-29-22	
2-Methylphenol (o-Cresol)	ND	1.0	EPA 8270E	4-29-22	4-29-22	
bis(2-Chloroisopropyl)ether	ND	1.0	EPA 8270E	4-29-22	4-29-22	
(3+4)-Methylphenol (m,p-Cresol)	ND	1.0	EPA 8270E	4-29-22	4-29-22	
n-Nitroso-di-n-propylamine	ND	1.0	EPA 8270E	4-29-22	4-29-22	
Hexachloroethane	ND	1.0	EPA 8270E	4-29-22	4-29-22	
Nitrobenzene	ND	1.0	EPA 8270E	4-29-22	4-29-22	
Isophorone	ND	1.0	EPA 8270E	4-29-22	4-29-22	
2-Nitrophenol	ND	1.0	EPA 8270E	4-29-22	4-29-22	
2,4-Dimethylphenol	ND	1.0	EPA 8270E	4-29-22	4-29-22	
bis(2-Chloroethoxy)methane	ND	1.0	EPA 8270E	4-29-22	4-29-22	
2,4-Dichlorophenol	ND	1.0	EPA 8270E	4-29-22	4-29-22	
1,2,4-Trichlorobenzene	ND	1.0	EPA 8270E	4-29-22	4-29-22	
Naphthalene	ND	0.10	EPA 8270E/SIM	4-29-22	4-29-22	
4-Chloroaniline	ND	1.0	EPA 8270E	4-29-22	4-29-22	
Hexachlorobutadiene	ND	1.0	EPA 8270E	4-29-22	4-29-22	
4-Chloro-3-methylphenol	ND	1.0	EPA 8270E	4-29-22	4-29-22	
2-Methylnaphthalene	ND	0.10	EPA 8270E/SIM	4-29-22	4-29-22	
1-Methylnaphthalene	ND	0.10	EPA 8270E/SIM	4-29-22	4-29-22	
Hexachlorocyclopentadiene	ND	1.0	EPA 8270E	4-29-22	4-29-22	
2,4,6-Trichlorophenol	ND	1.0	EPA 8270E	4-29-22	4-29-22	
2,3-Dichloroaniline	ND	1.0	EPA 8270E	4-29-22	4-29-22	
2,4,5-Trichlorophenol	ND	1.0	EPA 8270E	4-29-22	4-29-22	
2-Chloronaphthalene	ND	1.0	EPA 8270E	4-29-22	4-29-22	
2-Nitroaniline	ND	1.0	EPA 8270E	4-29-22	4-29-22	
1,4-Dinitrobenzene	ND	1.0	EPA 8270E	4-29-22	4-29-22	
Dimethylphthalate	ND	5.0	EPA 8270E	4-29-22	4-29-22	
1,3-Dinitrobenzene	ND	1.0	EPA 8270E	4-29-22	4-29-22	
2,6-Dinitrotoluene	ND	1.0	EPA 8270E	4-29-22	4-29-22	
1,2-Dinitrobenzene	ND	1.0	EPA 8270E	4-29-22	4-29-22	
Acenaphthylene	ND	0.10	EPA 8270E/SIM	4-29-22	4-29-22	
3-Nitroaniline	ND	1.0	EPA 8270E	4-29-22	4-29-22	



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**SEMIVOLATILE ORGANICS EPA 8270E/SIM
 QUALITY CONTROL**

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0429W2					
2,4-Dinitrophenol	ND	5.0	EPA 8270E	4-29-22	4-29-22	
Acenaphthene	ND	0.10	EPA 8270E/SIM	4-29-22	4-29-22	
4-Nitrophenol	ND	5.0	EPA 8270E	4-29-22	4-29-22	
2,4-Dinitrotoluene	ND	1.0	EPA 8270E	4-29-22	4-29-22	
Dibenzofuran	ND	1.0	EPA 8270E	4-29-22	4-29-22	
2,3,5,6-Tetrachlorophenol	ND	1.0	EPA 8270E	4-29-22	4-29-22	
2,3,4,6-Tetrachlorophenol	ND	1.0	EPA 8270E	4-29-22	4-29-22	
Diethylphthalate	ND	1.0	EPA 8270E	4-29-22	4-29-22	
4-Chlorophenyl-phenylether	ND	1.0	EPA 8270E	4-29-22	4-29-22	
4-Nitroaniline	ND	1.0	EPA 8270E	4-29-22	4-29-22	
Fluorene	ND	0.10	EPA 8270E/SIM	4-29-22	4-29-22	
4,6-Dinitro-2-methylphenol	ND	5.0	EPA 8270E	4-29-22	4-29-22	
n-Nitrosodiphenylamine	ND	1.0	EPA 8270E	4-29-22	4-29-22	
1,2-Diphenylhydrazine	ND	1.0	EPA 8270E	4-29-22	4-29-22	
4-Bromophenyl-phenylether	ND	1.0	EPA 8270E	4-29-22	4-29-22	
Hexachlorobenzene	ND	1.0	EPA 8270E	4-29-22	4-29-22	
Pentachlorophenol	ND	2.0	EPA 8270E	4-29-22	4-29-22	
Phenanthrene	ND	0.10	EPA 8270E/SIM	4-29-22	4-29-22	
Anthracene	ND	0.10	EPA 8270E/SIM	4-29-22	4-29-22	
Carbazole	ND	1.0	EPA 8270E	4-29-22	4-29-22	
Di-n-butylphthalate	ND	5.0	EPA 8270E	4-29-22	4-29-22	
Fluoranthene	ND	0.10	EPA 8270E/SIM	4-29-22	4-29-22	
Pyrene	ND	0.10	EPA 8270E/SIM	4-29-22	4-29-22	
Butylbenzylphthalate	ND	1.0	EPA 8270E	4-29-22	4-29-22	
bis-2-Ethylhexyladipate	ND	5.0	EPA 8270E	4-29-22	4-29-22	
3,3'-Dichlorobenzidine	ND	1.0	EPA 8270E	4-29-22	4-29-22	
Benzo[a]anthracene	ND	0.010	EPA 8270E/SIM	4-29-22	4-29-22	
Chrysene	ND	0.010	EPA 8270E/SIM	4-29-22	4-29-22	
bis(2-Ethylhexyl)phthalate	ND	5.0	EPA 8270E	4-29-22	4-29-22	
Di-n-octylphthalate	ND	1.0	EPA 8270E	4-29-22	4-29-22	
Benzo[b]fluoranthene	ND	0.010	EPA 8270E/SIM	4-29-22	4-29-22	
Benzo(j,k)fluoranthene	ND	0.010	EPA 8270E/SIM	4-29-22	4-29-22	
Benzo[a]pyrene	ND	0.010	EPA 8270E/SIM	4-29-22	4-29-22	
Indeno[1,2,3-cd]pyrene	ND	0.010	EPA 8270E/SIM	4-29-22	4-29-22	
Dibenz[a,h]anthracene	ND	0.010	EPA 8270E/SIM	4-29-22	4-29-22	
Benzo[g,h,i]perylene	ND	0.010	EPA 8270E/SIM	4-29-22	4-29-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
2-Fluorophenol	44	10 - 82				
Phenol-d6	32	10 - 92				
Nitrobenzene-d5	64	32 - 105				
2-Fluorobiphenyl	69	38 - 105				
2,4,6-Tribromophenol	88	25 - 124				
Terphenyl-d14	76	42 - 116				



Date of Report: May 17, 2022
 Samples Submitted: April 28, 2022
 Laboratory Reference: 2204-317
 Project: 6694-002-05 T700

**SEMIVOLATILE ORGANICS EPA 8270E/SIM
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB0429W2									
	SB	SBD	SB	SBD	SB	SBD				
Phenol	12.7	13.4	40.0	40.0	32	34	21 - 53	5	26	
2-Chlorophenol	24.2	25.3	40.0	40.0	61	63	38 - 92	4	28	
1,4-Dichlorobenzene	12.7	13.6	20.0	20.0	64	68	30 - 88	7	32	
n-Nitroso-di-n-propylamine	15.5	15.8	20.0	20.0	78	79	40 - 103	2	27	
1,2,4-Trichlorobenzene	13.3	14.5	20.0	20.0	67	73	37 - 95	9	29	
4-Chloro-3-methylphenol	26.0	28.0	40.0	40.0	65	70	50 - 101	7	17	
Acenaphthene	15.7	16.4	20.0	20.0	79	82	46 - 97	4	19	
4-Nitrophenol	18.6	19.8	40.0	40.0	47	50	23 - 64	6	34	
2,4-Dinitrotoluene	16.1	16.4	20.0	20.0	81	82	46 - 100	2	17	
Pentachlorophenol	44.1	45.0	40.0	40.0	110	113	39 - 123	2	29	
Pyrene	16.5	16.4	20.0	20.0	83	82	52 - 107	1	19	
<i>Surrogate:</i>										
2-Fluorophenol					35	37	10 - 82			
Phenol-d6					28	30	10 - 92			
Nitrobenzene-d5					66	67	32 - 105			
2-Fluorobiphenyl					68	70	38 - 105			
2,4,6-Tribromophenol					84	83	25 - 124			
Terphenyl-d14					70	69	42 - 116			



Date of Report: May 17, 2022
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 Project: 6694-002-05 T700

**PCBs EPA 8082A
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0503W1					
Aroclor 1016	ND	0.050	EPA 8082A	5-3-22	5-4-22	
Aroclor 1221	ND	0.050	EPA 8082A	5-3-22	5-4-22	
Aroclor 1232	ND	0.050	EPA 8082A	5-3-22	5-4-22	
Aroclor 1242	ND	0.050	EPA 8082A	5-3-22	5-4-22	
Aroclor 1248	ND	0.050	EPA 8082A	5-3-22	5-4-22	
Aroclor 1254	ND	0.050	EPA 8082A	5-3-22	5-4-22	
Aroclor 1260	ND	0.050	EPA 8082A	5-3-22	5-4-22	
Surrogate:	Percent Recovery	Control Limits				
DCB	90	49-133				

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS								
Laboratory ID:	SB0503W1							
	SB	SBD	SB	SBD	SB	SBD		
Aroclor 1260	0.412	0.418	0.500	0.500	N/A	82	84	67-120 1 15
Surrogate:								
DCB						64	70	49-133



Date of Report: May 17, 2022
 Samples Submitted: April 28, 2022
 Laboratory Reference: 2204-317
 Project: 6694-002-05 T700

**ORGANOCHLORINE
 PESTICIDES EPA 8081B
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0503W1					
alpha-BHC	ND	0.0050	EPA 8081B	5-3-22	5-3-22	
gamma-BHC (Lindane)	ND	0.0050	EPA 8081B	5-3-22	5-3-22	
beta-BHC	ND	0.0050	EPA 8081B	5-3-22	5-3-22	
delta-BHC	ND	0.0050	EPA 8081B	5-3-22	5-3-22	
Heptachlor	ND	0.0050	EPA 8081B	5-3-22	5-3-22	
Aldrin	ND	0.0020	EPA 8081B	5-3-22	5-3-22	
Heptachlor Epoxide	ND	0.0030	EPA 8081B	5-3-22	5-3-22	
gamma-Chlordane	ND	0.0050	EPA 8081B	5-3-22	5-3-22	
alpha-Chlordane	ND	0.0050	EPA 8081B	5-3-22	5-3-22	
4,4'-DDE	ND	0.0050	EPA 8081B	5-3-22	5-3-22	
Endosulfan I	ND	0.0050	EPA 8081B	5-3-22	5-3-22	
Dieldrin	ND	0.0050	EPA 8081B	5-3-22	5-3-22	
Endrin	ND	0.0050	EPA 8081B	5-3-22	5-3-22	
4,4'-DDD	ND	0.0050	EPA 8081B	5-3-22	5-3-22	
Endosulfan II	ND	0.0050	EPA 8081B	5-3-22	5-3-22	
4,4'-DDT	ND	0.0050	EPA 8081B	5-3-22	5-3-22	
Endrin Aldehyde	ND	0.0050	EPA 8081B	5-3-22	5-3-22	
Methoxychlor	ND	0.010	EPA 8081B	5-3-22	5-3-22	
Endosulfan Sulfate	ND	0.0050	EPA 8081B	5-3-22	5-3-22	
Endrin Ketone	ND	0.020	EPA 8081B	5-3-22	5-3-22	
Toxaphene	ND	0.050	EPA 8081B	5-3-22	5-3-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
TCMX	57	21-110				
DCB	89	42-113				



Date of Report: May 17, 2022
 Samples Submitted: April 28, 2022
 Laboratory Reference: 2204-317
 Project: 6694-002-05 T700

**ORGANOCHLORINE
 PESTICIDES EPA 8081B
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS											
Laboratory ID:	SB0503W2										
	SB	SBD	SB	SBD		SB	SBD				
alpha-BHC	0.0879	0.0859	0.100	0.100	N/A	88	86	50-113	2	19	
gamma-BHC (Lindane)	0.0931	0.0888	0.100	0.100	N/A	93	89	50-114	5	15	
beta-BHC	0.0861	0.0826	0.100	0.100	N/A	86	83	45-110	4	15	
delta-BHC	0.101	0.0957	0.100	0.100	N/A	101	96	40-113	5	15	
Heptachlor	0.0882	0.0828	0.100	0.100	N/A	88	83	41-107	6	16	
Aldrin	0.0823	0.0807	0.100	0.100	N/A	82	81	39-105	2	15	
Heptachlor Epoxide	0.0881	0.0824	0.100	0.100	N/A	88	82	53-106	7	15	
gamma-Chlordane	0.0843	0.0806	0.100	0.100	N/A	84	81	46-110	4	15	
alpha-Chlordane	0.0820	0.0765	0.100	0.100	N/A	82	77	46-110	7	15	
4,4'-DDE	0.0884	0.0834	0.100	0.100	N/A	88	83	39-129	6	15	
Endosulfan I	0.0938	0.0884	0.100	0.100	N/A	94	88	51-109	6	15	
Dieldrin	0.0940	0.0887	0.100	0.100	N/A	94	89	55-112	6	15	
Endrin	0.0985	0.0939	0.100	0.100	N/A	98	94	54-119	5	16	
4,4'-DDD	0.107	0.100	0.100	0.100	N/A	107	100	52-142	7	15	
Endosulfan II	0.0909	0.0854	0.100	0.100	N/A	91	85	49-115	6	15	
4,4'-DDT	0.118	0.102	0.100	0.100	N/A	118	102	52-136	15	15	
Endrin Aldehyde	0.0914	0.0853	0.100	0.100	N/A	91	85	39-128	7	15	
Methoxychlor	0.101	0.0980	0.100	0.100	N/A	101	98	56-156	3	19	
Endosulfan Sulfate	0.0906	0.0847	0.100	0.100	N/A	91	85	44-120	7	15	
Endrin Ketone	0.102	0.0881	0.100	0.100	N/A	102	88	45-122	15	15	
Surrogate:											
TCMX						64	65	21-110			
DCB						88	80	42-113			



Date of Report: May 17, 2022
 Samples Submitted: April 28, 2022
 Laboratory Reference: 2204-317
 Project: 6694-002-05 T700

**TOTAL METALS
 EPA 200.8/200.7/7470A
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0503WH1					
Iron	ND	50	EPA 200.7	5-3-22	5-3-22	
Magnesium	ND	1000	EPA 200.7	5-3-22	5-3-22	
Manganese	ND	10	EPA 200.7	5-3-22	5-3-22	
Laboratory ID:	MB0505WM1					
Arsenic	ND	3.3	EPA 200.8	5-5-22	5-5-22	
Cadmium	ND	4.4	EPA 200.8	5-5-22	5-5-22	
Chromium	ND	11	EPA 200.8	5-5-22	5-5-22	
Copper	ND	11	EPA 200.8	5-5-22	5-5-22	
Lead	ND	1.1	EPA 200.8	5-5-22	5-5-22	
Nickel	ND	22	EPA 200.8	5-5-22	5-5-22	
Selenium	ND	5.6	EPA 200.8	5-5-22	5-5-22	
Zinc	ND	28	EPA 200.8	5-5-22	5-5-22	
Laboratory ID:	MB0504W1					
Mercury	ND	0.025	EPA 7470A	5-4-22	5-4-22	



Date of Report: May 17, 2022
 Samples Submitted: April 28, 2022
 Laboratory Reference: 2204-317
 Project: 6694-002-05 T700

TOTAL METALS
EPA 200.8/200.7/7470A
QUALITY CONTROL

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result		Spike Level		Source	Percent	Recovery	RPD		Flags
					Result	Recovery	Limits	RPD	Limit	
DUPLICATE										
Laboratory ID:	04-317-01									
	ORIG	DUP								
Iron	3750	4540	NA	NA		NA	NA	19	20	
Magnesium	14300	14900	NA	NA		NA	NA	4	20	
Manganese	220	230	NA	NA		NA	NA	4	20	
Laboratory ID:	04-309-01									
Arsenic	ND	ND	NA	NA		NA	NA	NA	20	
Cadmium	ND	ND	NA	NA		NA	NA	NA	20	
Chromium	ND	ND	NA	NA		NA	NA	NA	20	
Copper	ND	ND	NA	NA		NA	NA	NA	20	
Lead	ND	ND	NA	NA		NA	NA	NA	20	
Nickel	ND	ND	NA	NA		NA	NA	NA	20	
Selenium	ND	ND	NA	NA		NA	NA	NA	20	
Zinc	ND	ND	NA	NA		NA	NA	NA	20	
Laboratory ID:	05-023-01									
Mercury	ND	ND	NA	NA		NA	NA	NA	20	
MATRIX SPIKES										
Laboratory ID:	04-317-01									
	MS	MSD	MS	MSD		MS	MSD			
Iron	24800	23200	20000	20000	3750	105	97	75-125	7	20
Magnesium	35600	36000	20000	20000	14300	107	109	75-125	1	20
Manganese	734	725	500	500	220	103	101	75-125	1	20
Laboratory ID:	04-309-01									
Arsenic	114	113	111	111	ND	103	102	75-125	2	20
Cadmium	108	108	111	111	ND	97	97	75-125	0	20
Chromium	111	107	111	111	ND	100	97	75-125	3	20
Copper	110	106	111	111	ND	99	96	75-125	4	20
Lead	108	107	111	111	ND	97	96	75-125	1	20
Nickel	108	104	111	111	ND	98	94	75-125	4	20
Selenium	116	113	111	111	ND	105	102	75-125	3	20
Zinc	113	111	111	111	ND	102	100	75-125	2	20
Laboratory ID:	05-023-01									
Mercury	5.80	5.80	6.25	6.25	ND	93	93	75-125	0	20



Date of Report: May 17, 2022
 Samples Submitted: April 28, 2022
 Laboratory Reference: 2204-317
 Project: 6694-002-05 T700

**DISSOLVED METALS
 EPA 200.8/200.7/7470A
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0502D1					
Calcium	ND	1100	EPA 200.7		5-2-22	
Iron	ND	56	EPA 200.7		5-2-22	
Magnesium	ND	1100	EPA 200.7		5-2-22	
Manganese	ND	11	EPA 200.7		5-2-22	
Potassium	ND	1100	EPA 200.7		5-2-22	
Sodium	ND	1100	EPA 200.7		5-2-22	
Laboratory ID:	MB0504D1					
Arsenic	ND	3.0	EPA 200.8		5-4-22	
Cadmium	ND	4.0	EPA 200.8		5-4-22	
Chromium	ND	10	EPA 200.8		5-4-22	
Copper	ND	10	EPA 200.8		5-4-22	
Lead	ND	1.0	EPA 200.8		5-4-22	
Nickel	ND	20	EPA 200.8		5-4-22	
Selenium	ND	5.0	EPA 200.8		5-4-22	
Zinc	ND	25	EPA 200.8		5-4-22	
Laboratory ID:	MB0504D1					
Mercury	ND	0.025	EPA 7470A		5-4-22	



Date of Report: May 17, 2022
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 Laboratory Reference: 2204-317
 Project: 6694-002-05 T700

**DISSOLVED METALS
 EPA 200.8/200.7/7470A
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result		Spike Level		Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE										
Laboratory ID:	04-333-02									
	ORIG	DUP								
Calcium	14500	14700	NA	NA		NA	NA	1	20	
Iron	ND	ND	NA	NA		NA	NA	NA	20	
Magnesium	3640	3710	NA	NA		NA	NA	2	20	
Manganese	ND	ND	NA	NA		NA	NA	NA	20	
Potassium	ND	ND	NA	NA		NA	NA	NA	20	
Sodium	3690	3670	NA	NA		NA	NA	0	20	
Laboratory ID:	04-317-01									
Arsenic	3.08	3.24	NA	NA		NA	NA	5	20	
Cadmium	ND	ND	NA	NA		NA	NA	NA	20	
Chromium	ND	ND	NA	NA		NA	NA	NA	20	
Copper	ND	ND	NA	NA		NA	NA	NA	20	
Lead	ND	ND	NA	NA		NA	NA	NA	20	
Nickel	ND	ND	NA	NA		NA	NA	NA	20	
Selenium	ND	ND	NA	NA		NA	NA	NA	20	
Zinc	ND	ND	NA	NA		NA	NA	NA	20	
Laboratory ID:	04-317-01									
Mercury	ND	ND	NA	NA		NA	NA	NA	20	
MATRIX SPIKES										
Laboratory ID:	04-333-02									
	MS	MSD	MS	MSD	MS	MSD				
Calcium	34400	34700	22200	22200	14700	89	91	75-125	1	20
Iron	22300	22400	22200	22200	ND	101	101	75-125	0	20
Magnesium	24600	24900	22200	22200	3640	95	96	75-125	1	20
Manganese	552	553	556	556	ND	99	99	75-125	0	20
Potassium	21800	22000	22200	22200	ND	98	99	75-125	1	20
Sodium	24800	25000	22200	22200	3690	95	96	75-125	1	20
Laboratory ID:	04-317-01									
Arsenic	80.4	78.2	80.0	80.0	3.08	97	94	75-125	3	20
Cadmium	74.2	72.6	80.0	80.0	ND	93	91	75-125	2	20
Chromium	75.8	74.0	80.0	80.0	ND	95	93	75-125	2	20
Copper	73.6	72.4	80.0	80.0	ND	92	91	75-125	2	20
Lead	73.2	71.2	80.0	80.0	ND	92	89	75-125	3	20
Nickel	73.2	72.4	80.0	80.0	ND	92	91	75-125	1	20
Selenium	80.6	78.0	80.0	80.0	ND	101	98	75-125	3	20
Zinc	75.4	75.8	80.0	80.0	ND	94	95	75-125	1	20
Laboratory ID:	04-317-01									
Mercury	6.00	5.93	6.25	6.25	ND	96	95	75-125	1	20



OnSite Environmental, Inc. 14648 NE 95th Street, Redmond, WA 98052 (425) 883-3881

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: May 17, 2022
 Samples Submitted: April 28, 2022
 Laboratory Reference: 2204-317
 Project: 6694-002-05 T700

**TOTAL ALKALINITY
 SM 2320B
 QUALITY CONTROL**

Matrix: Water
 Units: mg CaCO₃/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0504W1					
Total Alkalinity	ND	2.0	SM 2320B	5-4-22	5-4-22	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	04-334-02							
	ORIG	DUP						
Total Alkalinity	76.0	78.0	NA	NA	NA	3	10	

SPIKE BLANK								
Laboratory ID:	SB0504W1							
	SB	SB		SB				
Total Alkalinity	94.0	100	NA	94	89-110	NA	NA	



Date of Report: December 15, 2021
 Samples Submitted: December 7, 2021
 Laboratory Reference: 2112-075
 Project: 6694-002-05 T700

**BICARBONATE
 SM 2320B
 QUALITY CONTROL**

Matrix: Water
 Units: mg CaCO₃/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0504W1					
Bicarbonate	ND	2.0	SM 2320B	5-4-22	5-4-22	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	04-334-02							
	ORIG	DUP						
Bicarbonate	76.0	78.0	NA	NA	NA	3	10	

SPIKE BLANK								
Laboratory ID:	SB0504W1							
	SB	SB		SB				
Bicarbonate	94.0	100	NA	94	89-110	NA	NA	



Date of Report: May 17, 2022
 Samples Submitted: April 28, 2022
 Laboratory Reference: 2204-317
 Project: 6694-002-05 T700

**TOTAL DISSOLVED SOLIDS
 SM 2540C
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0429W1					
Total Dissolved Solids	ND	13	SM 2540C	4-29-22	5-2-22	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	04-317-01							
	ORIG	DUP						
Total Dissolved Solids	175	153	NA	NA	NA	13	23	

SPIKE BLANK								
Laboratory ID:	SB0429W1							
	SB	SB		SB				
Total Dissolved Solids	484	500	NA	97	89-110	NA	NA	



Date of Report: May 17, 2022
 Samples Submitted: April 28, 2022
 Laboratory Reference: 2204-317
 Project: 6694-002-05 T700

**CHLORIDE
 SM 4500-Cl E
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0502W1					
Chloride	ND	2.0	SM 4500-Cl E	5-2-22	5-2-22	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	04-317-01							
	ORIG	DUP						
Chloride	6.37	5.95	NA	NA	NA	7	11	

MATRIX SPIKE								
Laboratory ID:	04-317-01							
	MS	MS		MS				
Chloride	57.3	50.0	6.37	102	90-121	NA	NA	

SPIKE BLANK								
Laboratory ID:	SB0502W1							
	SB	SB		SB				
Chloride	49.1	50.0	NA	98	90-119	NA	NA	



Date of Report: May 17, 2022
 Samples Submitted: April 28, 2022
 Laboratory Reference: 2204-317
 Project: 6694-002-05 T700

**NITRATE (as Nitrogen)
 EPA 353.2
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L-N

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0428W1					
Nitrate	ND	0.050	EPA 353.2	4-28-22	4-28-22	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	04-312-09							
	ORIG	DUP						
Nitrate	2.08	2.07	NA	NA	NA	0	16	

MATRIX SPIKE								
Laboratory ID:	04-312-09							
	MS	MS		MS				
Nitrate	3.97	2.00	2.08	95	92-125	NA	NA	

SPIKE BLANK								
Laboratory ID:	SB0428W1							
	SB	SB		SB				
Nitrate	2.01	2.00	NA	101	90-121	NA	NA	



Date of Report: May 17, 2022
 Samples Submitted: April 28, 2022
 Laboratory Reference: 2204-317
 Project: 6694-002-05 T700

**SULFATE
 ASTM D516-11
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0509W1					
Sulfate	ND	5.0	ASTM D516-11	5-9-22	5-9-22	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	04-337-01							
	ORIG	DUP						
Sulfate	ND	ND	NA	NA	NA	NA	10	

MATRIX SPIKE								
Laboratory ID:	04-337-01							
	MS	MS		MS				
Sulfate	11.3	10.0	ND	113	72-128	NA	NA	

SPIKE BLANK								
Laboratory ID:	SB0509W1							
	SB	SB		SB				
Sulfate	9.23	10.0	NA	92	85-114	NA	NA	



Date of Report: May 17, 2022
 Samples Submitted: April 28, 2022
 Laboratory Reference: 2204-317
 Project: 6694-002-05 T700

**AMMONIA (as Nitrogen)
 SM 4500-NH₃ D
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0516W1					
Ammonia	ND	0.050	SM 4500-NH ₃ D	5-16-22	5-16-02	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	05-024-01							
	ORIG	DUP						
Ammonia	0.101	0.0940	NA	NA	NA	NA	7	15

MATRIX SPIKE								
Laboratory ID:	05-024-01							
	MS	MS		MS				
Ammonia	4.73	5.00	0.101	93	87-110	NA	NA	

SPIKE BLANK								
Laboratory ID:	SB0516W1							
	SB	SB		SB				
Ammonia	4.57	5.00	NA	91	88-110	NA	NA	





Data Qualifiers and Abbreviations

- A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.
 - B - The analyte indicated was also found in the blank sample.
 - C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.
 - E - The value reported exceeds the quantitation range and is an estimate.
 - F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.
 - H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.
 - I - Compound recovery is outside of the control limits.
 - J - The value reported was below the practical quantitation limit. The value is an estimate.
 - K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.
 - L - The RPD is outside of the control limits.
 - M - Hydrocarbons in the gasoline range are impacting the diesel range result.
 - M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.
 - N - Hydrocarbons in the lube oil range are impacting the diesel range result.
 - N1 - Hydrocarbons in diesel range are impacting lube oil range results.
 - O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.
 - P - The RPD of the detected concentrations between the two columns is greater than 40.
 - Q - Surrogate recovery is outside of the control limits.
 - S - Surrogate recovery data is not available due to the necessary dilution of the sample.
 - T - The sample chromatogram is not similar to a typical _____.
 - U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
 - U1 - The practical quantitation limit is elevated due to interferences present in the sample.
 - V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.
 - W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.
 - X - Sample extract treated with a mercury cleanup procedure.
 - X1 - Sample extract treated with a sulfuric acid/silica gel cleanup procedure.
 - Y - The calibration verification for this analyte exceeded the 20% drift specified in methods 8260 & 8270, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.
 - Z -
- ND - Not Detected at PQL
 PQL - Practical Quantitation Limit
 RPD - Relative Percent Difference





OnSite Environmental Inc

David Baumeister
14648 NE 95th Street
Redmond, WA 98052

RE: 04-317

Work Order Number: 2204530

May 13, 2022

Attention David Baumeister:

Fremont Analytical, Inc. received 1 sample(s) on 4/29/2022 for the analyses presented in the following report.

Herbicides by EPA Method 8151A (GC/MS)

This report consists of the following:

- Case Narrative
- Analytical Results
- Applicable Quality Control Summary Reports
- Chain of Custody

All analyses were performed consistent with the Quality Assurance program of Fremont Analytical, Inc. Please contact the laboratory if you should have any questions about the results.

Thank you for using Fremont Analytical.

Sincerely,

Brianna Barnes
Project Manager



CLIENT: OnSite Environmental Inc
Project: 04-317
Work Order: 2204530

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received
2204530-001	MW-3-20220427	04/27/2022 1:35 PM	04/29/2022 12:35 PM

DRAFT

Note: If no "Time Collected" is supplied, a default of 12:00AM is assigned

CLIENT: OnSite Environmental Inc
Project: 04-317

I. SAMPLE RECEIPT:

Samples receipt information is recorded on the attached Sample Receipt Checklist.

II. GENERAL REPORTING COMMENTS:

Results are reported on a wet weight basis unless dry-weight correction is denoted in the units field on the analytical report ("mg/kg-dry" or "ug/kg-dry").

Matrix Spike (MS) and MS Duplicate (MSD) samples are tested from an analytical batch of "like" matrix to check for possible matrix effect. The MS and MSD will provide site specific matrix data only for those samples which are spiked by the laboratory. The sample chosen for spike purposes may or may not have been a sample submitted in this sample delivery group. The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The LCS and the MB are processed with the samples and the MS/MSD to ensure method criteria are achieved throughout the entire analytical process.

III. ANALYSES AND EXCEPTIONS:

Exceptions associated with this report will be footnoted in the analytical results page(s) or the quality control summary page(s) and/or noted below.

DRAFT

Qualifiers:

- * - Flagged value is not within established control limits
- B - Analyte detected in the associated Method Blank
- D - Dilution was required
- E - Value above quantitation range
- H - Holding times for preparation or analysis exceeded
- I - Analyte with an internal standard that does not meet established acceptance criteria
- J - Analyte detected below Reporting Limit
- N - Tentatively Identified Compound (TIC)
- Q - Analyte with an initial or continuing calibration that does not meet established acceptance criteria
- S - Spike recovery outside accepted recovery limits
- ND - Not detected at the Reporting Limit
- R - High relative percent difference observed

Acronyms:

- %Rec - Percent Recovery
- CCB - Continued Calibration Blank
- CCV - Continued Calibration Verification
- DF - Dilution Factor
- DUP - Sample Duplicate
- HEM - Hexane Extractable Material
- ICV - Initial Calibration Verification
- LCS/LCSD - Laboratory Control Sample / Laboratory Control Sample Duplicate
- MCL - Maximum Contaminant Level
- MB or MBLANK - Method Blank
- MDL - Method Detection Limit
- MS/MSD - Matrix Spike / Matrix Spike Duplicate
- PDS - Post Digestion Spike
- Ref Val - Reference Value
- REP - Sample Replicate
- RL - Reporting Limit
- RPD - Relative Percent Difference
- SD - Serial Dilution
- SGT - Silica Gel Treatment
- SPK - Spike
- Surr - Surrogate



Client: OnSite Environmental Inc

Collection Date: 4/27/2022 1:35:00 PM

Project: 04-317

Lab ID: 2204530-001

Matrix: Water

Client Sample ID: MW-3-20220427

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Herbicides by EPA Method 8151A (GC/MS)

Batch ID: 36309

Analyst: OK

Dicamba	ND	1.03		µg/L	1	5/13/2022 12:49:23 PM
2,4-D	ND	1.03		µg/L	1	5/13/2022 12:49:23 PM
2,4-DP	ND	1.03		µg/L	1	5/13/2022 12:49:23 PM
2,4,5-TP (Silvex)	ND	1.03		µg/L	1	5/13/2022 12:49:23 PM
2,4,5-T	ND	1.03		µg/L	1	5/13/2022 12:49:23 PM
Dinoseb	ND	1.03		µg/L	1	5/13/2022 12:49:23 PM
Dalapon	ND	2.06		µg/L	1	5/13/2022 12:49:23 PM
2,4-DB	ND	1.03		µg/L	1	5/13/2022 12:49:23 PM
MCPP	ND	5.15		µg/L	1	5/13/2022 12:49:23 PM
MCPA	ND	5.15		µg/L	1	5/13/2022 12:49:23 PM
Picloram	ND	1.03		µg/L	1	5/13/2022 12:49:23 PM
Bentazon	ND	1.03		µg/L	1	5/13/2022 12:49:23 PM
Chloramben	ND	1.03		µg/L	1	5/13/2022 12:49:23 PM
Acifluorfen	ND	5.15		µg/L	1	5/13/2022 12:49:23 PM
3,5-Dichlorobenzoic acid	ND	1.03		µg/L	1	5/13/2022 12:49:23 PM
4-Nitrophenol	ND	1.03		µg/L	1	5/13/2022 12:49:23 PM
Dacthal (DCPA)	ND	2.06		µg/L	1	5/13/2022 12:49:23 PM
Surr: 2,4-Dichlorophenylacetic acid	110	65.7 - 136		%Rec	1	5/13/2022 12:49:23 PM



Work Order: 2204530
 CLIENT: OnSite Environmental Inc
 Project: 04-317

QC SUMMARY REPORT
Herbicides by EPA Method 8151A (GC/MS)

Sample ID: MB-36309	SampType: MBLK	Units: µg/L	Prep Date: 5/4/2022	RunNo: 75399							
Client ID: MBLKW	Batch ID: 36309		Analysis Date: 5/13/2022	SeqNo: 1547209							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Dicamba	ND	1.00									
2,4-D	ND	1.00									
2,4-DP	ND	1.00									
2,4,5-TP (Silvex)	ND	1.00									
2,4,5-T	ND	1.00									
Dinoseb	ND	1.00									
Dalapon	ND	2.00									
2,4-DB	ND	1.00									
MCPP	ND	5.01									
MCPA	ND	5.01									
Picloram	ND	1.00									
Bentazon	ND	1.00									
Chloramben	ND	1.00									
Acifluorfen	ND	5.01									
3,5-Dichlorobenzoic acid	ND	1.00									
4-Nitrophenol	ND	1.00									
Dacthal (DCPA)	ND	2.00									
Surr: 2,4-Dichlorophenylacetic acid	20.9		20.03		104	65.7	136				

Sample ID: LCS-36309	SampType: LCS	Units: µg/L	Prep Date: 5/4/2022	RunNo: 75399							
Client ID: LCSW	Batch ID: 36309		Analysis Date: 5/13/2022	SeqNo: 1547210							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Dicamba	4.94	1.00	4.004	0	123	16.6	148				
2,4-D	5.79	1.00	4.004	0	145	50.4	150				
2,4-DP	5.27	1.00	4.004	0	132	53	135				
2,4,5-TP (Silvex)	5.53	1.00	4.004	0	138	53.6	140				
2,4,5-T	5.44	1.00	4.004	0	136	50	141				
Dinoseb	4.81	1.00	4.004	0	120	5	119				S
Dalapon	13.3	2.00	20.02	0	66.5	5.65	97.2				

Work Order: 2204530
 CLIENT: OnSite Environmental Inc
 Project: 04-317

QC SUMMARY REPORT
Herbicides by EPA Method 8151A (GC/MS)

Sample ID: LCS-36309	SampType: LCS	Units: µg/L				Prep Date: 5/4/2022	RunNo: 75399				
Client ID: LCSW	Batch ID: 36309					Analysis Date: 5/13/2022	SeqNo: 1547210				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
2,4-DB	5.47	1.00	4.004	0	137	54.9	141				
MCPP	20.4	5.01	20.02	0	102	28.7	166				
MCPA	20.7	5.01	20.02	0	103	20.7	176				
Picloram	4.31	1.00	4.004	0	108	9.72	120				
Bentazon	5.40	1.00	4.004	0	135	41.2	141				
Chloramben	3.54	1.00	4.004	0	88.5	5	109				
Acifluorfen	4.69	5.01	4.004	0	117	7.62	139				
3,5-Dichlorobenzoic acid	4.90	1.00	4.004	0	122	52.4	120				S
4-Nitrophenol	4.38	1.00	4.004	0	109	5	107				S
Dacthal (DCPA)	2.27	2.00	4.004	0	56.7	5	65.4				
Surr: 2,4-Dichlorophenylacetic acid	22.1		20.02		111	65.7	136				

NOTES:

S - Outlying spike recovery observed (high bias). Samples are non-detect; result meets QC requirements.

Sample ID: LCSD-36309	SampType: LCSD	Units: µg/L				Prep Date: 5/4/2022	RunNo: 75399				
Client ID: LCSW02	Batch ID: 36309					Analysis Date: 5/13/2022	SeqNo: 1547212				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dicamba	5.02	0.997	3.990	0	126	16.6	148	4.938	1.72	30	
2,4-D	5.80	0.997	3.990	0	145	50.4	150	5.790	0.120	30	
2,4-DP	5.21	0.997	3.990	0	131	53	135	5.271	1.14	30	
2,4,5-TP (Silvex)	5.44	0.997	3.990	0	136	53.6	140	5.528	1.57	30	
2,4,5-T	5.41	0.997	3.990	0	136	50	141	5.443	0.606	30	
Dinoseb	4.59	0.997	3.990	0	115	5	119	4.809	4.69	30	
Dalapon	13.7	1.99	19.95	0	68.5	5.65	97.2	13.32	2.62	30	
2,4-DB	5.43	0.997	3.990	0	136	54.9	141	5.467	0.698	30	
MCPP	20.3	4.99	19.95	0	102	28.7	166	20.36	0.194	30	
MCPA	20.6	4.99	19.95	0	103	20.7	176	20.66	0.186	30	
Picloram	4.65	0.997	3.990	0	116	9.72	120	4.315	7.42	30	
Bentazon	5.42	0.997	3.990	0	136	41.2	141	5.401	0.304	30	
Chloramben	4.04	0.997	3.990	0	101	5	109	3.543	13.2	30	

Work Order: 2204530
CLIENT: OnSite Environmental Inc
Project: 04-317

QC SUMMARY REPORT
Herbicides by EPA Method 8151A (GC/MS)

Sample ID: LCSD-36309	SampType: LCSD	Units: µg/L			Prep Date: 5/4/2022	RunNo: 75399					
Client ID: LCSW02	Batch ID: 36309				Analysis Date: 5/13/2022	SeqNo: 1547212					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acifluorfen	4.56	4.99	3.990	0	114	7.62	139	4.688	2.80	30	
3,5-Dichlorobenzoic acid	4.93	0.997	3.990	0	124	52.4	120	4.903	0.600	30	S
4-Nitrophenol	4.94	0.997	3.990	0	124	5	107	4.376	12.1	30	S
Dacthal (DCPA)	2.55	1.99	3.990	0	63.8	5	65.4	2.270	11.5	30	
Surr: 2,4-Dichlorophenylacetic acid	22.1		19.95		111	65.7	136		0		

NOTES:

S - Outlying spike recovery observed (high bias). Samples are non-detect; result meets QC requirements.

DRAFT

Client Name: ONSITE	Work Order Number: 2204530
Logged by: Clare Griggs	Date Received: 4/29/2022 12:35:00 PM

Chain of Custody

1. Is Chain of Custody complete? Yes No Not Present
2. How was the sample delivered? Client

Log In

3. Coolers are present? Yes No NA
4. Shipping container/cooler in good condition? Yes No
5. Custody Seals present on shipping container/cooler?
(Refer to comments for Custody Seals not intact) Yes No Not Present
6. Was an attempt made to cool the samples? Yes No NA
7. Were all items received at a temperature of >2°C to 6°C * Yes No NA
8. Sample(s) in proper container(s)? Yes No
9. Sufficient sample volume for indicated test(s)? Yes No
10. Are samples properly preserved? Yes No
11. Was preservative added to bottles? Yes No NA
12. Is there headspace in the VOA vials? Yes No NA
13. Did all samples containers arrive in good condition(unbroken)? Yes No
14. Does paperwork match bottle labels? Yes No
15. Are matrices correctly identified on Chain of Custody? Yes No
16. Is it clear what analyses were requested? Yes No
17. Were all holding times able to be met? Yes No

Special Handling (if applicable)

18. Was client notified of all discrepancies with this order? Yes No NA

Person Notified:	<input type="text"/>	Date:	<input type="text"/>
By Whom:	<input type="text"/>	Via:	<input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:	<input type="text"/>		
Client Instructions:	<input type="text"/>		

19. Additional remarks:

Item Information

Item #	Temp °C
Sample	0.6

* Note: DoD/ELAP and TNI require items to be received at 4°C +/- 2°C



14648 NE 95th Street, Redmond, WA 98052 · (425) 883-3881

2204530

Laboratory Reference #: 04-317

Laboratory: Fremont Analytical

Turnaround Request

Project Manager: David Baumeister

Attention: Chelsea Ward

1 Day 2 Day 3 Day

email: dbaumeister@onsite-env.com

3600 Fremont Avenue N, Seattle, WA 98103

Standard

Project Number: 6694-002-05

Phone Number: (206) 352-3790

Other: _____

Project Name: _____

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	# of Cont.	Requested Analyses
	MW-3-20220427	4/27/22	13:35	W	1	Chlorinated Acid Herbicides 8151

Signature	Company	Date	Time	Comments/Special Instructions
Relinquished by: [Signature]	Alpha	4/29/22	11:30	EDDs
Received by: [Signature]	Alpha	4/29/22	11:30	
Relinquished by: [Signature]	Alpha	4/29/22	12:30	
Received by: [Signature]	FAI	4/29/22	12:35	
Relinquished by:				
Received by:				

Chain of Custody

Company: GEE

Project Number: 6694-002-05

Project Name: HO-East

Project Manager: Garrett Leque

Sampled by: Woodrow D. Stolestad

Turnaround Request (in working days)

(Check One)

Same Day 1 Day

2 Days 3 Days

Standard (7 Days)

_____ (other)

Laboratory Number: **04-317**

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX (8021 <input type="checkbox"/> 8260 <input type="checkbox"/>	NWTPH-Gx	NWTPH-Dx (Acid / SG Clean-up <input type="checkbox"/>	Volatiles 8260	Halogenated Volatiles 8260	EDB EPA 8011 (Waters Only)	Semivolatiles 8270/SIM (with low-level PAHs)	PAHs 8270/SIM (low-level)	PCBs 8082	Organochlorine Pesticides 8081	Organophosphorus Pesticides 8270/SIM	Chlorinated Acid Herbicides 8151	Total FCRA Metals	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664	JDS	Total and dissolved metals	As, Cd, Cr, Cu, Fe, Pb, Mn, Hg, Ni, Se, Zn, Mg	Ca, K, Na, CO ₂ , F, Zn, S, Dissolved	% Moisture Cl, NO ₃ , SO ₄ , NH ₃
1	MW-3-20220427	4/27/22	1335	Water	18			X	X	X			X		X	X		X					X	X	X	X	X

	Signature	Company	Date	Time	Comments/Special Instructions
Relinquished		GEE	4/27/22	1550	please refer to Garrett for Full List Total and Dissolved metals = As, Cd, Cr, Cu, Fe, Pb, Mn, Hg, Ni, Se, Zn, Mg
Received		ALPHA	4/28/22	10:00	
Relinquished		ALPHA	4/28/22	12:02	
Received		OSE	4/28/22	1202	
Relinquished					
Received					Data Package: Standard <input type="checkbox"/> Level III <input type="checkbox"/> Level IV <input type="checkbox"/>
Reviewed/Date		Reviewed/Date			Chromatograms with final report <input type="checkbox"/> Electronic Data Deliverables (EDDs) <input type="checkbox"/>



14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

May 18, 2022

Garrett Leque
GeoEngineers, Inc.
554 West Bakerview Road
Bellingham, WA 98226

Re: Analytical Data for Project 6694-002-05 T700
Laboratory Reference No. 2205-009

Dear Garrett:

Enclosed are the analytical results and associated quality control data for samples submitted on May 2, 2022.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

A handwritten signature in black ink, appearing to read "DB", with a long horizontal stroke extending to the right.

David Baumeister
Project Manager

Enclosures



OnSite Environmental, Inc. 14648 NE 95th Street, Redmond, WA 98052 (425) 883-3881

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: May 18, 2022
Samples Submitted: May 2, 2022
Laboratory Reference: 2205-009
Project: 6694-002-05 T700

Case Narrative

Samples were collected on May 2, 2022 and received by the laboratory on May 2, 2022. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.



Date of Report: May 18, 2022
Samples Submitted: May 2, 2022
Laboratory Reference: 2205-009
Project: 6694-002-05 T700

ANALYTICAL REPORT FOR SAMPLES

Client ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
MW8-05022022	05-009-01	Water	5-2-22	5-2-22	

DRAFT



Date of Report: May 18, 2022
 Samples Submitted: May 2, 2022
 Laboratory Reference: 2205-009
 Project: 6694-002-05 T700

GASOLINE RANGE ORGANICS
NWTPH-Gx

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW8-05022022					
Laboratory ID:	05-009-01					
Gasoline	ND	100	NWTPH-Gx	5-3-22	5-3-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	96	65-122				



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 Project: 6694-002-05 T700

DIESEL AND HEAVY OIL RANGE ORGANICS
NWTPH-Dx

Matrix: Water
 Units: mg/L (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW8-05022022					
Laboratory ID:	05-009-01					
Diesel Range Organics	ND	0.21	NWTPH-Dx	5-9-22	5-9-22	
Lube Oil Range Organics	ND	0.21	NWTPH-Dx	5-9-22	5-9-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	<i>81</i>	<i>50-150</i>				



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VOLATILE ORGANICS EPA 8260D
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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW8-05022022					
Laboratory ID:	05-009-01					
Dichlorodifluoromethane	ND	0.20	EPA 8260D	5-4-22	5-4-22	
Chloromethane	ND	1.0	EPA 8260D	5-4-22	5-4-22	
Vinyl Chloride	ND	0.20	EPA 8260D	5-4-22	5-4-22	
Bromomethane	ND	3.1	EPA 8260D	5-4-22	5-4-22	
Chloroethane	ND	1.0	EPA 8260D	5-4-22	5-4-22	
Trichlorofluoromethane	ND	0.20	EPA 8260D	5-4-22	5-4-22	
1,1-Dichloroethene	ND	0.20	EPA 8260D	5-4-22	5-4-22	
Acetone	ND	5.0	EPA 8260D	5-4-22	5-4-22	
Iodomethane	ND	19	EPA 8260D	5-4-22	5-4-22	
Carbon Disulfide	ND	0.20	EPA 8260D	5-4-22	5-4-22	
Methylene Chloride	ND	1.0	EPA 8260D	5-4-22	5-4-22	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	5-4-22	5-4-22	
Methyl t-Butyl Ether	ND	0.20	EPA 8260D	5-4-22	5-4-22	
1,1-Dichloroethane	ND	0.20	EPA 8260D	5-4-22	5-4-22	
Vinyl Acetate	ND	1.0	EPA 8260D	5-4-22	5-4-22	
2,2-Dichloropropane	ND	0.20	EPA 8260D	5-4-22	5-4-22	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	5-4-22	5-4-22	
2-Butanone	ND	5.0	EPA 8260D	5-4-22	5-4-22	
Bromochloromethane	ND	0.20	EPA 8260D	5-4-22	5-4-22	
Chloroform	ND	0.20	EPA 8260D	5-4-22	5-4-22	
1,1,1-Trichloroethane	ND	0.20	EPA 8260D	5-4-22	5-4-22	
Carbon Tetrachloride	ND	0.20	EPA 8260D	5-4-22	5-4-22	
1,1-Dichloropropene	ND	0.20	EPA 8260D	5-4-22	5-4-22	
Benzene	ND	0.20	EPA 8260D	5-4-22	5-4-22	
1,2-Dichloroethane	ND	0.20	EPA 8260D	5-4-22	5-4-22	
Trichloroethene	ND	0.20	EPA 8260D	5-4-22	5-4-22	
1,2-Dichloropropane	ND	0.20	EPA 8260D	5-4-22	5-4-22	
Dibromomethane	ND	0.20	EPA 8260D	5-4-22	5-4-22	
Bromodichloromethane	ND	0.20	EPA 8260D	5-4-22	5-4-22	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260D	5-4-22	5-4-22	
Methyl Isobutyl Ketone	ND	2.0	EPA 8260D	5-4-22	5-4-22	
Toluene	ND	1.0	EPA 8260D	5-4-22	5-4-22	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260D	5-4-22	5-4-22	



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VOLATILE ORGANICS EPA 8260D
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW8-05022022					
Laboratory ID:	05-009-01					
1,1,2-Trichloroethane	ND	0.20	EPA 8260D	5-4-22	5-4-22	
Tetrachloroethene	ND	0.20	EPA 8260D	5-4-22	5-4-22	
1,3-Dichloropropane	ND	0.20	EPA 8260D	5-4-22	5-4-22	
2-Hexanone	ND	2.0	EPA 8260D	5-4-22	5-4-22	
Dibromochloromethane	ND	0.20	EPA 8260D	5-4-22	5-4-22	
1,2-Dibromoethane	ND	0.20	EPA 8260D	5-4-22	5-4-22	
Chlorobenzene	ND	0.20	EPA 8260D	5-4-22	5-4-22	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260D	5-4-22	5-4-22	
Ethylbenzene	ND	0.20	EPA 8260D	5-4-22	5-4-22	
m,p-Xylene	ND	0.40	EPA 8260D	5-4-22	5-4-22	
o-Xylene	ND	0.20	EPA 8260D	5-4-22	5-4-22	
Styrene	ND	0.20	EPA 8260D	5-4-22	5-4-22	
Bromoform	ND	1.0	EPA 8260D	5-4-22	5-4-22	
Isopropylbenzene	ND	0.20	EPA 8260D	5-4-22	5-4-22	
Bromobenzene	ND	0.20	EPA 8260D	5-4-22	5-4-22	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260D	5-4-22	5-4-22	
1,2,3-Trichloropropane	ND	0.20	EPA 8260D	5-4-22	5-4-22	
n-Propylbenzene	ND	0.20	EPA 8260D	5-4-22	5-4-22	
2-Chlorotoluene	ND	0.20	EPA 8260D	5-4-22	5-4-22	
4-Chlorotoluene	ND	0.20	EPA 8260D	5-4-22	5-4-22	
1,3,5-Trimethylbenzene	ND	0.20	EPA 8260D	5-4-22	5-4-22	
tert-Butylbenzene	ND	0.20	EPA 8260D	5-4-22	5-4-22	
1,2,4-Trimethylbenzene	ND	0.20	EPA 8260D	5-4-22	5-4-22	
sec-Butylbenzene	ND	0.20	EPA 8260D	5-4-22	5-4-22	
1,3-Dichlorobenzene	ND	0.20	EPA 8260D	5-4-22	5-4-22	
p-Isopropyltoluene	ND	0.20	EPA 8260D	5-4-22	5-4-22	
1,4-Dichlorobenzene	ND	0.20	EPA 8260D	5-4-22	5-4-22	
1,2-Dichlorobenzene	ND	0.20	EPA 8260D	5-4-22	5-4-22	
n-Butylbenzene	ND	0.20	EPA 8260D	5-4-22	5-4-22	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260D	5-4-22	5-4-22	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260D	5-4-22	5-4-22	
Hexachlorobutadiene	ND	1.0	EPA 8260D	5-4-22	5-4-22	
Naphthalene	ND	1.0	EPA 8260D	5-4-22	5-4-22	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260D	5-4-22	5-4-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>105</i>	<i>75-127</i>				
<i>Toluene-d8</i>	<i>101</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>101</i>	<i>78-125</i>				



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SEMIVOLATILE ORGANICS EPA 8270E/SIM
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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW8-05022022					
Laboratory ID:	05-009-01					
n-Nitrosodimethylamine	ND	1.0	EPA 8270E	5-6-22	5-6-22	
Pyridine	ND	1.0	EPA 8270E	5-6-22	5-6-22	
Phenol	ND	1.0	EPA 8270E	5-6-22	5-6-22	
Aniline	ND	5.0	EPA 8270E	5-6-22	5-6-22	
bis(2-Chloroethyl)ether	ND	1.0	EPA 8270E	5-6-22	5-6-22	
2-Chlorophenol	ND	1.0	EPA 8270E	5-6-22	5-6-22	
1,3-Dichlorobenzene	ND	1.0	EPA 8270E	5-6-22	5-6-22	
1,4-Dichlorobenzene	ND	1.0	EPA 8270E	5-6-22	5-6-22	
Benzyl alcohol	ND	1.0	EPA 8270E	5-6-22	5-6-22	
1,2-Dichlorobenzene	ND	1.0	EPA 8270E	5-6-22	5-6-22	
2-Methylphenol (o-Cresol)	ND	1.0	EPA 8270E	5-6-22	5-6-22	
bis(2-Chloroisopropyl)ether	ND	1.0	EPA 8270E	5-6-22	5-6-22	
(3+4)-Methylphenol (m,p-Cresol)	ND	1.0	EPA 8270E	5-6-22	5-6-22	
n-Nitroso-di-n-propylamine	ND	1.0	EPA 8270E	5-6-22	5-6-22	
Hexachloroethane	ND	1.0	EPA 8270E	5-6-22	5-6-22	
Nitrobenzene	ND	1.0	EPA 8270E	5-6-22	5-6-22	
Isophorone	ND	1.0	EPA 8270E	5-6-22	5-6-22	
2-Nitrophenol	ND	1.0	EPA 8270E	5-6-22	5-6-22	
2,4-Dimethylphenol	ND	1.0	EPA 8270E	5-6-22	5-6-22	
bis(2-Chloroethoxy)methane	ND	1.0	EPA 8270E	5-6-22	5-6-22	
2,4-Dichlorophenol	ND	1.0	EPA 8270E	5-6-22	5-6-22	
1,2,4-Trichlorobenzene	ND	1.0	EPA 8270E	5-6-22	5-6-22	
Naphthalene	ND	0.10	EPA 8270E/SIM	5-6-22	5-6-22	
4-Chloroaniline	ND	1.0	EPA 8270E	5-6-22	5-6-22	
Hexachlorobutadiene	ND	1.0	EPA 8270E	5-6-22	5-6-22	
4-Chloro-3-methylphenol	ND	1.0	EPA 8270E	5-6-22	5-6-22	
2-Methylnaphthalene	ND	0.10	EPA 8270E/SIM	5-6-22	5-6-22	
1-Methylnaphthalene	ND	0.10	EPA 8270E/SIM	5-6-22	5-6-22	
Hexachlorocyclopentadiene	ND	1.0	EPA 8270E	5-6-22	5-6-22	
2,4,6-Trichlorophenol	ND	1.0	EPA 8270E	5-6-22	5-6-22	
2,3-Dichloroaniline	ND	1.0	EPA 8270E	5-6-22	5-6-22	
2,4,5-Trichlorophenol	ND	1.0	EPA 8270E	5-6-22	5-6-22	
2-Chloronaphthalene	ND	1.0	EPA 8270E	5-6-22	5-6-22	
2-Nitroaniline	ND	1.0	EPA 8270E	5-6-22	5-6-22	
1,4-Dinitrobenzene	ND	1.0	EPA 8270E	5-6-22	5-6-22	
Dimethylphthalate	ND	5.0	EPA 8270E	5-6-22	5-6-22	
1,3-Dinitrobenzene	ND	1.0	EPA 8270E	5-6-22	5-6-22	
2,6-Dinitrotoluene	ND	1.0	EPA 8270E	5-6-22	5-6-22	
1,2-Dinitrobenzene	ND	1.0	EPA 8270E	5-6-22	5-6-22	
Acenaphthylene	ND	0.10	EPA 8270E/SIM	5-6-22	5-6-22	
3-Nitroaniline	ND	1.0	EPA 8270E	5-6-22	5-6-22	



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SEMIVOLATILE ORGANICS EPA 8270E/SIM
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW8-05022022					
Laboratory ID:	05-009-01					
2,4-Dinitrophenol	ND	6.4	EPA 8270E	5-6-22	5-6-22	
Acenaphthene	ND	0.10	EPA 8270E/SIM	5-6-22	5-6-22	
4-Nitrophenol	ND	5.0	EPA 8270E	5-6-22	5-6-22	
2,4-Dinitrotoluene	ND	1.0	EPA 8270E	5-6-22	5-6-22	
Dibenzofuran	ND	1.0	EPA 8270E	5-6-22	5-6-22	
2,3,5,6-Tetrachlorophenol	ND	1.0	EPA 8270E	5-6-22	5-6-22	
2,3,4,6-Tetrachlorophenol	ND	1.0	EPA 8270E	5-6-22	5-6-22	
Diethylphthalate	ND	1.0	EPA 8270E	5-6-22	5-6-22	
4-Chlorophenyl-phenylether	ND	1.0	EPA 8270E	5-6-22	5-6-22	
4-Nitroaniline	ND	1.0	EPA 8270E	5-6-22	5-6-22	
Fluorene	ND	0.10	EPA 8270E/SIM	5-6-22	5-6-22	
4,6-Dinitro-2-methylphenol	ND	5.0	EPA 8270E	5-6-22	5-6-22	
n-Nitrosodiphenylamine	ND	1.0	EPA 8270E	5-6-22	5-6-22	
1,2-Diphenylhydrazine	ND	1.0	EPA 8270E	5-6-22	5-6-22	
4-Bromophenyl-phenylether	ND	1.0	EPA 8270E	5-6-22	5-6-22	
Hexachlorobenzene	ND	1.0	EPA 8270E	5-6-22	5-6-22	
Pentachlorophenol	ND	7.7	EPA 8270E	5-6-22	5-6-22	
Phenanthrene	ND	0.10	EPA 8270E/SIM	5-6-22	5-6-22	
Anthracene	ND	0.10	EPA 8270E/SIM	5-6-22	5-6-22	
Carbazole	ND	1.0	EPA 8270E	5-6-22	5-6-22	
Di-n-butylphthalate	ND	5.0	EPA 8270E	5-6-22	5-6-22	
Fluoranthene	ND	0.10	EPA 8270E/SIM	5-6-22	5-6-22	
Pyrene	ND	0.10	EPA 8270E/SIM	5-6-22	5-6-22	
Butylbenzylphthalate	ND	1.0	EPA 8270E	5-6-22	5-6-22	
bis(2-Ethylhexyl)adipate	ND	5.0	EPA 8270E	5-6-22	5-6-22	
3,3'-Dichlorobenzidine	ND	1.0	EPA 8270E	5-6-22	5-6-22	
Benzo[a]anthracene	ND	0.010	EPA 8270E/SIM	5-6-22	5-6-22	
Chrysene	ND	0.010	EPA 8270E/SIM	5-6-22	5-6-22	
bis(2-Ethylhexyl)phthalate	ND	5.0	EPA 8270E	5-6-22	5-6-22	
Di-n-octylphthalate	ND	1.0	EPA 8270E	5-6-22	5-6-22	
Benzo[b]fluoranthene	ND	0.010	EPA 8270E/SIM	5-6-22	5-6-22	
Benzo(j,k)fluoranthene	ND	0.010	EPA 8270E/SIM	5-6-22	5-6-22	
Benzo[a]pyrene	ND	0.010	EPA 8270E/SIM	5-6-22	5-6-22	
Indeno[1,2,3-cd]pyrene	ND	0.010	EPA 8270E/SIM	5-6-22	5-6-22	
Dibenz[a,h]anthracene	ND	0.010	EPA 8270E/SIM	5-6-22	5-6-22	
Benzo[g,h,i]perylene	ND	0.010	EPA 8270E/SIM	5-6-22	5-6-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
2-Fluorophenol	36	10 - 81				
Phenol-d6	27	10 - 86				
Nitrobenzene-d5	61	27 - 105				
2-Fluorobiphenyl	67	33 - 100				
2,4,6-Tribromophenol	77	25 - 124				
Terphenyl-d14	70	40 - 116				



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PCBs EPA 8082A

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW8-05022022					
Laboratory ID:	05-009-01					
Aroclor 1016	ND	0.049	EPA 8082A	5-3-22	5-4-22	
Aroclor 1221	ND	0.049	EPA 8082A	5-3-22	5-4-22	
Aroclor 1232	ND	0.049	EPA 8082A	5-3-22	5-4-22	
Aroclor 1242	ND	0.049	EPA 8082A	5-3-22	5-4-22	
Aroclor 1248	ND	0.049	EPA 8082A	5-3-22	5-4-22	
Aroclor 1254	ND	0.049	EPA 8082A	5-3-22	5-4-22	
Aroclor 1260	ND	0.049	EPA 8082A	5-3-22	5-4-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>DCB</i>	86	49-133				



Date of Report: May 18, 2022
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 Project: 6694-002-05 T700

**ORGANOCHLORINE
 PESTICIDES EPA 8081B**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW8-05022022					
Laboratory ID:	05-009-01					
alpha-BHC	ND	0.0049	EPA 8081B	5-3-22	5-3-22	
gamma-BHC (Lindane)	ND	0.0049	EPA 8081B	5-3-22	5-3-22	
beta-BHC	ND	0.0049	EPA 8081B	5-3-22	5-3-22	
delta-BHC	ND	0.0049	EPA 8081B	5-3-22	5-3-22	
Heptachlor	ND	0.0049	EPA 8081B	5-3-22	5-3-22	
Aldrin	ND	0.0019	EPA 8081B	5-3-22	5-3-22	
Heptachlor Epoxide	ND	0.0029	EPA 8081B	5-3-22	5-3-22	
gamma-Chlordane	ND	0.0049	EPA 8081B	5-3-22	5-3-22	
alpha-Chlordane	ND	0.0049	EPA 8081B	5-3-22	5-3-22	
4,4'-DDE	ND	0.0049	EPA 8081B	5-3-22	5-3-22	
Endosulfan I	ND	0.0049	EPA 8081B	5-3-22	5-3-22	
Dieldrin	ND	0.0049	EPA 8081B	5-3-22	5-3-22	
Endrin	ND	0.0049	EPA 8081B	5-3-22	5-3-22	
4,4'-DDD	ND	0.0049	EPA 8081B	5-3-22	5-3-22	
Endosulfan II	ND	0.0049	EPA 8081B	5-3-22	5-3-22	
4,4'-DDT	ND	0.0049	EPA 8081B	5-3-22	5-3-22	Y1
Endrin Aldehyde	ND	0.0049	EPA 8081B	5-3-22	5-3-22	
Methoxychlor	ND	0.0097	EPA 8081B	5-3-22	5-3-22	
Endosulfan Sulfate	ND	0.0049	EPA 8081B	5-3-22	5-3-22	
Endrin Ketone	ND	0.019	EPA 8081B	5-3-22	5-3-22	
Toxaphene	ND	0.049	EPA 8081B	5-3-22	5-3-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
TCMX	63	21-110				
DCB	82	42-113				



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TOTAL METALS
EPA 200.8/200.7/7470A

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW8-05022022					
Laboratory ID:	05-009-01					
Arsenic	ND	3.3	EPA 200.8	5-5-22	5-5-22	
Cadmium	ND	4.4	EPA 200.8	5-5-22	5-5-22	
Chromium	ND	11	EPA 200.8	5-5-22	5-5-22	
Copper	ND	11	EPA 200.8	5-5-22	5-5-22	
Iron	2100	50	EPA 200.7	5-3-22	5-5-22	
Lead	ND	1.1	EPA 200.8	5-5-22	5-5-22	
Magnesium	33000	1000	EPA 200.7	5-3-22	5-5-22	
Manganese	1600	10	EPA 200.7	5-3-22	5-5-22	
Mercury	ND	0.025	EPA 7470A	5-4-22	5-4-22	
Nickel	ND	22	EPA 200.8	5-5-22	5-5-22	
Selenium	ND	5.6	EPA 200.8	5-5-22	5-5-22	
Zinc	ND	28	EPA 200.8	5-5-22	5-5-22	



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DISSOLVED METALS
EPA 200.8/200.7/7470A

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW8-05022022					
Laboratory ID:	05-009-01					
Arsenic	ND	3.0	EPA 200.8		5-4-22	
Cadmium	ND	4.0	EPA 200.8		5-4-22	
Calcium	33000	1100	EPA 200.7		5-5-22	
Chromium	ND	10	EPA 200.8		5-4-22	
Copper	ND	10	EPA 200.8		5-4-22	
Iron	65	56	EPA 200.7		5-5-22	
Lead	ND	1.0	EPA 200.8		5-4-22	
Magnesium	36000	1100	EPA 200.7		5-5-22	
Manganese	1700	11	EPA 200.7		5-5-22	
Mercury	ND	0.025	EPA 7470A		5-4-22	
Nickel	ND	20	EPA 200.8		5-4-22	
Potassium	3700	1100	EPA 200.7		5-5-22	
Selenium	ND	5.0	EPA 200.8		5-4-22	
Sodium	9200	1100	EPA 200.7		5-5-22	
Zinc	ND	25	EPA 200.8		5-4-22	



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TOTAL ALKALINITY
SM 2320B

Matrix: Water
Units: mg CaCO₃/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW8-05022022					
Laboratory ID:	05-009-01					
Total Alkalinity	200	2.0	SM 2320B	5-4-22	5-4-22	



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**BICARBONATE
SM 2320B**

Matrix: Water
Units: mg CaCO₃/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW8-05022022					
Laboratory ID:	05-009-01					
Bicarbonate	200	2.0	SM 2320B	5-4-22	5-4-22	



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**TOTAL DISSOLVED SOLIDS
SM 2540C**

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW8-05022022					
Laboratory ID:	05-009-01					
Total Dissolved Solids	280	13	SM 2540C	5-5-22	5-5-22	



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CHLORIDE
SM 4500-Cl E

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW8-05022022					
Laboratory ID:	05-009-01					
Chloride	2.5	2.0	SM 4500-Cl E	5-16-22	5-16-22	



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NITRATE (as Nitrogen)
EPA 353.2

Matrix: Water
Units: mg/L-N

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW8-05022022					
Laboratory ID:	05-009-01					
Nitrate	ND	0.050	EPA 353.2	5-4-22	5-4-22	



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SULFATE
ASTM D516-11

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW8-05022022					
Laboratory ID:	05-009-01					
Sulfate	49	25	ASTM D516-11	5-9-22	5-9-22	



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AMMONIA (as Nitrogen)
SM 4500-NH₃ D

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW8-05022022					
Laboratory ID:	05-009-01					
Ammonia	ND	0.050	SM 4500-NH3 D	5-16-22	5-16-22	



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**GASOLINE RANGE ORGANICS
 NWTPH-Gx
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0503W1					
Gasoline	ND	100	NWTPH-Gx	5-3-22	5-3-22	
Surrogate:	Percent Recovery		Control Limits			
Fluorobenzene	96	65-122				

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	05-009-01							
	ORIG	DUP						
Gasoline	ND	ND	NA	NA	NA	NA	30	
Surrogate:								
Fluorobenzene				96	95	65-122		



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**DIESEL AND HEAVY OIL RANGE ORGANICS
 NWTPH-Dx
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0509W1					
Diesel Range Organics	ND	0.16	NWTPH-Dx	5-9-22	5-9-22	
Lube Oil Range Organics	ND	0.16	NWTPH-Dx	5-9-22	5-9-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	91	50-150				

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	05-019-07							
	ORIG	DUP						
Diesel Range Organics	1.25	0.828	NA	NA	NA	NA	41	NA M
Lube Oil Range Organics	0.499	0.380	NA	NA	NA	NA	27	NA
<i>Surrogate:</i>								
<i>o-Terphenyl</i>				85	82	50-150		



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**VOLATILE ORGANICS EPA 8260D
 QUALITY CONTROL**

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Matrix: Water

Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0504W1					
Dichlorodifluoromethane	ND	0.20	EPA 8260D	5-4-22	5-4-22	
Chloromethane	ND	1.0	EPA 8260D	5-4-22	5-4-22	
Vinyl Chloride	ND	0.20	EPA 8260D	5-4-22	5-4-22	
Bromomethane	ND	3.1	EPA 8260D	5-4-22	5-4-22	
Chloroethane	ND	1.0	EPA 8260D	5-4-22	5-4-22	
Trichlorofluoromethane	ND	0.20	EPA 8260D	5-4-22	5-4-22	
1,1-Dichloroethene	ND	0.20	EPA 8260D	5-4-22	5-4-22	
Acetone	ND	5.0	EPA 8260D	5-4-22	5-4-22	
Iodomethane	ND	19	EPA 8260D	5-4-22	5-4-22	
Carbon Disulfide	ND	0.20	EPA 8260D	5-4-22	5-4-22	
Methylene Chloride	ND	1.0	EPA 8260D	5-4-22	5-4-22	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	5-4-22	5-4-22	
Methyl t-Butyl Ether	ND	0.20	EPA 8260D	5-4-22	5-4-22	
1,1-Dichloroethane	ND	0.20	EPA 8260D	5-4-22	5-4-22	
Vinyl Acetate	ND	1.0	EPA 8260D	5-4-22	5-4-22	
2,2-Dichloropropane	ND	0.20	EPA 8260D	5-4-22	5-4-22	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	5-4-22	5-4-22	
2-Butanone	ND	5.0	EPA 8260D	5-4-22	5-4-22	
Bromochloromethane	ND	0.20	EPA 8260D	5-4-22	5-4-22	
Chloroform	ND	0.20	EPA 8260D	5-4-22	5-4-22	
1,1,1-Trichloroethane	ND	0.20	EPA 8260D	5-4-22	5-4-22	
Carbon Tetrachloride	ND	0.20	EPA 8260D	5-4-22	5-4-22	
1,1-Dichloropropene	ND	0.20	EPA 8260D	5-4-22	5-4-22	
Benzene	ND	0.20	EPA 8260D	5-4-22	5-4-22	
1,2-Dichloroethane	ND	0.20	EPA 8260D	5-4-22	5-4-22	
Trichloroethene	ND	0.20	EPA 8260D	5-4-22	5-4-22	
1,2-Dichloropropane	ND	0.20	EPA 8260D	5-4-22	5-4-22	
Dibromomethane	ND	0.20	EPA 8260D	5-4-22	5-4-22	
Bromodichloromethane	ND	0.20	EPA 8260D	5-4-22	5-4-22	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260D	5-4-22	5-4-22	
Methyl Isobutyl Ketone	ND	2.0	EPA 8260D	5-4-22	5-4-22	
Toluene	ND	1.0	EPA 8260D	5-4-22	5-4-22	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260D	5-4-22	5-4-22	



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**VOLATILE ORGANICS EPA 8260D
 QUALITY CONTROL**

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0504W1					
1,1,2-Trichloroethane	ND	0.20	EPA 8260D	5-4-22	5-4-22	
Tetrachloroethene	ND	0.20	EPA 8260D	5-4-22	5-4-22	
1,3-Dichloropropane	ND	0.20	EPA 8260D	5-4-22	5-4-22	
2-Hexanone	ND	2.0	EPA 8260D	5-4-22	5-4-22	
Dibromochloromethane	ND	0.20	EPA 8260D	5-4-22	5-4-22	
1,2-Dibromoethane	ND	0.20	EPA 8260D	5-4-22	5-4-22	
Chlorobenzene	ND	0.20	EPA 8260D	5-4-22	5-4-22	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260D	5-4-22	5-4-22	
Ethylbenzene	ND	0.20	EPA 8260D	5-4-22	5-4-22	
m,p-Xylene	ND	0.40	EPA 8260D	5-4-22	5-4-22	
o-Xylene	ND	0.20	EPA 8260D	5-4-22	5-4-22	
Styrene	ND	0.20	EPA 8260D	5-4-22	5-4-22	
Bromoform	ND	1.0	EPA 8260D	5-4-22	5-4-22	
Isopropylbenzene	ND	0.20	EPA 8260D	5-4-22	5-4-22	
Bromobenzene	ND	0.20	EPA 8260D	5-4-22	5-4-22	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260D	5-4-22	5-4-22	
1,2,3-Trichloropropane	ND	0.20	EPA 8260D	5-4-22	5-4-22	
n-Propylbenzene	ND	0.20	EPA 8260D	5-4-22	5-4-22	
2-Chlorotoluene	ND	0.20	EPA 8260D	5-4-22	5-4-22	
4-Chlorotoluene	ND	0.20	EPA 8260D	5-4-22	5-4-22	
1,3,5-Trimethylbenzene	ND	0.20	EPA 8260D	5-4-22	5-4-22	
tert-Butylbenzene	ND	0.20	EPA 8260D	5-4-22	5-4-22	
1,2,4-Trimethylbenzene	ND	0.20	EPA 8260D	5-4-22	5-4-22	
sec-Butylbenzene	ND	0.20	EPA 8260D	5-4-22	5-4-22	
1,3-Dichlorobenzene	ND	0.20	EPA 8260D	5-4-22	5-4-22	
p-Isopropyltoluene	ND	0.20	EPA 8260D	5-4-22	5-4-22	
1,4-Dichlorobenzene	ND	0.20	EPA 8260D	5-4-22	5-4-22	
1,2-Dichlorobenzene	ND	0.20	EPA 8260D	5-4-22	5-4-22	
n-Butylbenzene	ND	0.20	EPA 8260D	5-4-22	5-4-22	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260D	5-4-22	5-4-22	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260D	5-4-22	5-4-22	
Hexachlorobutadiene	ND	1.0	EPA 8260D	5-4-22	5-4-22	
Naphthalene	ND	1.0	EPA 8260D	5-4-22	5-4-22	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260D	5-4-22	5-4-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>104</i>	<i>75-127</i>				
<i>Toluene-d8</i>	<i>101</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>100</i>	<i>78-125</i>				



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**VOLATILE ORGANICS EPA 8260D
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD	RPD	Flags
					SB	SBD	Limits	RPD	Limit	
SPIKE BLANKS										
Laboratory ID:	SB0504W1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	11.2	11.1	10.0	10.0	112	111	78-125	1	19	
Benzene	10.7	10.5	10.0	10.0	107	105	80-121	2	16	
Trichloroethene	10.4	10.3	10.0	10.0	104	103	80-122	1	18	
Toluene	10.2	10.1	10.0	10.0	102	101	80-120	1	18	
Chlorobenzene	9.65	9.54	10.0	10.0	97	95	80-120	1	17	
<i>Surrogate:</i>										
Dibromofluoromethane					104	101	75-127			
Toluene-d8					102	101	80-127			
4-Bromofluorobenzene					103	102	78-125			



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**SEMIVOLATILE ORGANICS EPA 8270E/SIM
 QUALITY CONTROL**

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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0506W1					
n-Nitrosodimethylamine	ND	1.0	EPA 8270E	5-6-22	5-6-22	
Pyridine	ND	1.0	EPA 8270E	5-6-22	5-6-22	
Phenol	ND	1.0	EPA 8270E	5-6-22	5-6-22	
Aniline	ND	5.0	EPA 8270E	5-6-22	5-6-22	
bis(2-Chloroethyl)ether	ND	1.0	EPA 8270E	5-6-22	5-6-22	
2-Chlorophenol	ND	1.0	EPA 8270E	5-6-22	5-6-22	
1,3-Dichlorobenzene	ND	1.0	EPA 8270E	5-6-22	5-6-22	
1,4-Dichlorobenzene	ND	1.0	EPA 8270E	5-6-22	5-6-22	
Benzyl alcohol	ND	1.0	EPA 8270E	5-6-22	5-6-22	
1,2-Dichlorobenzene	ND	1.0	EPA 8270E	5-6-22	5-6-22	
2-Methylphenol (o-Cresol)	ND	1.0	EPA 8270E	5-6-22	5-6-22	
bis(2-Chloroisopropyl)ether	ND	1.0	EPA 8270E	5-6-22	5-6-22	
(3+4)-Methylphenol (m,p-Cresol)	ND	1.0	EPA 8270E	5-6-22	5-6-22	
n-Nitroso-di-n-propylamine	ND	1.0	EPA 8270E	5-6-22	5-6-22	
Hexachloroethane	ND	1.0	EPA 8270E	5-6-22	5-6-22	
Nitrobenzene	ND	1.0	EPA 8270E	5-6-22	5-6-22	
Isophorone	ND	1.0	EPA 8270E	5-6-22	5-6-22	
2-Nitrophenol	ND	1.0	EPA 8270E	5-6-22	5-6-22	
2,4-Dimethylphenol	ND	1.0	EPA 8270E	5-6-22	5-6-22	
bis(2-Chloroethoxy)methane	ND	1.0	EPA 8270E	5-6-22	5-6-22	
2,4-Dichlorophenol	ND	1.0	EPA 8270E	5-6-22	5-6-22	
1,2,4-Trichlorobenzene	ND	1.0	EPA 8270E	5-6-22	5-6-22	
Naphthalene	ND	0.10	EPA 8270E/SIM	5-6-22	5-6-22	
4-Chloroaniline	ND	1.0	EPA 8270E	5-6-22	5-6-22	
Hexachlorobutadiene	ND	1.0	EPA 8270E	5-6-22	5-6-22	
4-Chloro-3-methylphenol	ND	1.0	EPA 8270E	5-6-22	5-6-22	
2-Methylnaphthalene	ND	0.10	EPA 8270E/SIM	5-6-22	5-6-22	
1-Methylnaphthalene	ND	0.10	EPA 8270E/SIM	5-6-22	5-6-22	
Hexachlorocyclopentadiene	ND	1.0	EPA 8270E	5-6-22	5-6-22	
2,4,6-Trichlorophenol	ND	1.0	EPA 8270E	5-6-22	5-6-22	
2,3-Dichloroaniline	ND	1.0	EPA 8270E	5-6-22	5-6-22	
2,4,5-Trichlorophenol	ND	1.0	EPA 8270E	5-6-22	5-6-22	
2-Chloronaphthalene	ND	1.0	EPA 8270E	5-6-22	5-6-22	
2-Nitroaniline	ND	1.0	EPA 8270E	5-6-22	5-6-22	
1,4-Dinitrobenzene	ND	1.0	EPA 8270E	5-6-22	5-6-22	
Dimethylphthalate	ND	5.0	EPA 8270E	5-6-22	5-6-22	
1,3-Dinitrobenzene	ND	1.0	EPA 8270E	5-6-22	5-6-22	
2,6-Dinitrotoluene	ND	1.0	EPA 8270E	5-6-22	5-6-22	
1,2-Dinitrobenzene	ND	1.0	EPA 8270E	5-6-22	5-6-22	
Acenaphthylene	ND	0.10	EPA 8270E/SIM	5-6-22	5-6-22	
3-Nitroaniline	ND	1.0	EPA 8270E	5-6-22	5-6-22	



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**SEMIVOLATILE ORGANICS EPA 8270E/SIM
 QUALITY CONTROL**

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0506W1					
2,4-Dinitrophenol	ND	6.4	EPA 8270E	5-6-22	5-6-22	
Acenaphthene	ND	0.10	EPA 8270E/SIM	5-6-22	5-6-22	
4-Nitrophenol	ND	5.0	EPA 8270E	5-6-22	5-6-22	
2,4-Dinitrotoluene	ND	1.0	EPA 8270E	5-6-22	5-6-22	
Dibenzofuran	ND	1.0	EPA 8270E	5-6-22	5-6-22	
2,3,5,6-Tetrachlorophenol	ND	1.0	EPA 8270E	5-6-22	5-6-22	
2,3,4,6-Tetrachlorophenol	ND	1.0	EPA 8270E	5-6-22	5-6-22	
Diethylphthalate	ND	1.0	EPA 8270E	5-6-22	5-6-22	
4-Chlorophenyl-phenylether	ND	1.0	EPA 8270E	5-6-22	5-6-22	
4-Nitroaniline	ND	1.0	EPA 8270E	5-6-22	5-6-22	
Fluorene	ND	0.10	EPA 8270E/SIM	5-6-22	5-6-22	
4,6-Dinitro-2-methylphenol	ND	5.0	EPA 8270E	5-6-22	5-6-22	
n-Nitrosodiphenylamine	ND	1.0	EPA 8270E	5-6-22	5-6-22	
1,2-Diphenylhydrazine	ND	1.0	EPA 8270E	5-6-22	5-6-22	
4-Bromophenyl-phenylether	ND	1.0	EPA 8270E	5-6-22	5-6-22	
Hexachlorobenzene	ND	1.0	EPA 8270E	5-6-22	5-6-22	
Pentachlorophenol	ND	7.7	EPA 8270E	5-6-22	5-6-22	
Phenanthrene	ND	0.10	EPA 8270E/SIM	5-6-22	5-6-22	
Anthracene	ND	0.10	EPA 8270E/SIM	5-6-22	5-6-22	
Carbazole	ND	1.0	EPA 8270E	5-6-22	5-6-22	
Di-n-butylphthalate	ND	5.0	EPA 8270E	5-6-22	5-6-22	
Fluoranthene	ND	0.10	EPA 8270E/SIM	5-6-22	5-6-22	
Pyrene	ND	0.10	EPA 8270E/SIM	5-6-22	5-6-22	
Butylbenzylphthalate	ND	1.0	EPA 8270E	5-6-22	5-6-22	
bis-2-Ethylhexyladipate	ND	5.0	EPA 8270E	5-6-22	5-6-22	
3,3'-Dichlorobenzidine	ND	1.0	EPA 8270E	5-6-22	5-6-22	
Benzo[a]anthracene	ND	0.010	EPA 8270E/SIM	5-6-22	5-6-22	
Chrysene	ND	0.010	EPA 8270E/SIM	5-6-22	5-6-22	
bis(2-Ethylhexyl)phthalate	ND	5.0	EPA 8270E	5-6-22	5-6-22	
Di-n-octylphthalate	ND	1.0	EPA 8270E	5-6-22	5-6-22	
Benzo[b]fluoranthene	ND	0.010	EPA 8270E/SIM	5-6-22	5-6-22	
Benzo(j,k)fluoranthene	ND	0.010	EPA 8270E/SIM	5-6-22	5-6-22	
Benzo[a]pyrene	ND	0.010	EPA 8270E/SIM	5-6-22	5-6-22	
Indeno[1,2,3-cd]pyrene	ND	0.010	EPA 8270E/SIM	5-6-22	5-6-22	
Dibenz[a,h]anthracene	ND	0.010	EPA 8270E/SIM	5-6-22	5-6-22	
Benzo[g,h,i]perylene	ND	0.010	EPA 8270E/SIM	5-6-22	5-6-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
2-Fluorophenol	42	10 - 81				
Phenol-d6	32	10 - 86				
Nitrobenzene-d5	68	27 - 105				
2-Fluorobiphenyl	69	33 - 100				
2,4,6-Tribromophenol	90	25 - 124				
Terphenyl-d14	78	40 - 116				



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**SEMIVOLATILE ORGANICS EPA 8270E/SIM
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB0506W1									
	SB	SBD	SB	SBD	SB	SBD				
Phenol	13.0	11.1	40.0	40.0	33	28	16 - 53	16	33	
2-Chlorophenol	24.8	20.9	40.0	40.0	62	52	42 - 90	17	34	
1,4-Dichlorobenzene	13.8	12.2	20.0	20.0	69	61	32 - 83	12	34	
n-Nitroso-di-n-propylamine	15.4	13.4	20.0	20.0	77	67	41 - 99	14	32	
1,2,4-Trichlorobenzene	14.4	12.9	20.0	20.0	72	65	35 - 91	11	35	
4-Chloro-3-methylphenol	28.9	24.8	40.0	40.0	72	62	55 - 98	15	22	
Acenaphthene	15.8	13.9	20.0	20.0	79	70	40 - 96	13	23	
4-Nitrophenol	19.6	17.8	40.0	40.0	49	45	20 - 77	10	28	
2,4-Dinitrotoluene	16.2	14.6	20.0	20.0	81	73	50 - 102	10	22	
Pentachlorophenol	43.5	36.4	40.0	40.0	109	91	46 - 129	18	26	
Pyrene	15.9	14.6	20.0	20.0	80	73	52 - 105	9	20	
<i>Surrogate:</i>										
2-Fluorophenol					34	29	10 - 81			
Phenol-d6					29	24	10 - 86			
Nitrobenzene-d5					62	57	27 - 105			
2-Fluorobiphenyl					70	63	33 - 100			
2,4,6-Tribromophenol					84	75	25 - 124			
Terphenyl-d14					68	63	40 - 116			



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**PCBs EPA 8082A
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0503W1					
Aroclor 1016	ND	0.050	EPA 8082A	5-3-22	5-4-22	
Aroclor 1221	ND	0.050	EPA 8082A	5-3-22	5-4-22	
Aroclor 1232	ND	0.050	EPA 8082A	5-3-22	5-4-22	
Aroclor 1242	ND	0.050	EPA 8082A	5-3-22	5-4-22	
Aroclor 1248	ND	0.050	EPA 8082A	5-3-22	5-4-22	
Aroclor 1254	ND	0.050	EPA 8082A	5-3-22	5-4-22	
Aroclor 1260	ND	0.050	EPA 8082A	5-3-22	5-4-22	
Surrogate:	Percent Recovery	Control Limits				
DCB	90	49-133				

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS											
Laboratory ID:	SB0503W1										
	SB	SBD	SB	SBD		SB	SBD				
Aroclor 1260	0.412	0.418	0.500	0.500	N/A	82	84	67-120	1	15	
Surrogate:											
DCB						64	70	49-133			



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**ORGANOCHLORINE
 PESTICIDES EPA 8081B
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0503W1					
alpha-BHC	ND	0.0050	EPA 8081B	5-3-22	5-3-22	
gamma-BHC (Lindane)	ND	0.0050	EPA 8081B	5-3-22	5-3-22	
beta-BHC	ND	0.0050	EPA 8081B	5-3-22	5-3-22	
delta-BHC	ND	0.0050	EPA 8081B	5-3-22	5-3-22	
Heptachlor	ND	0.0050	EPA 8081B	5-3-22	5-3-22	
Aldrin	ND	0.0020	EPA 8081B	5-3-22	5-3-22	
Heptachlor Epoxide	ND	0.0030	EPA 8081B	5-3-22	5-3-22	
gamma-Chlordane	ND	0.0050	EPA 8081B	5-3-22	5-3-22	
alpha-Chlordane	ND	0.0050	EPA 8081B	5-3-22	5-3-22	
4,4'-DDE	ND	0.0050	EPA 8081B	5-3-22	5-3-22	
Endosulfan I	ND	0.0050	EPA 8081B	5-3-22	5-3-22	
Dieldrin	ND	0.0050	EPA 8081B	5-3-22	5-3-22	
Endrin	ND	0.0050	EPA 8081B	5-3-22	5-3-22	
4,4'-DDD	ND	0.0050	EPA 8081B	5-3-22	5-3-22	
Endosulfan II	ND	0.0050	EPA 8081B	5-3-22	5-3-22	
4,4'-DDT	ND	0.0050	EPA 8081B	5-3-22	5-3-22	
Endrin Aldehyde	ND	0.0050	EPA 8081B	5-3-22	5-3-22	
Methoxychlor	ND	0.010	EPA 8081B	5-3-22	5-3-22	
Endosulfan Sulfate	ND	0.0050	EPA 8081B	5-3-22	5-3-22	
Endrin Ketone	ND	0.020	EPA 8081B	5-3-22	5-3-22	
Toxaphene	ND	0.050	EPA 8081B	5-3-22	5-3-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
TCMX	57	21-110				
DCB	89	42-113				



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**ORGANOCHLORINE
 PESTICIDES EPA 8081B
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result		Spike Level		Source	Percent		Recovery	RPD	RPD	Flags
					Result	Recovery	Limits			Limit	
SPIKE BLANKS											
Laboratory ID:	SB0503W2										
	SB	SBD	SB	SBD		SB	SBD				
alpha-BHC	0.0879	0.0859	0.100	0.100	N/A	88	86	50-113	2	19	
gamma-BHC (Lindane)	0.0931	0.0888	0.100	0.100	N/A	93	89	50-114	5	15	
beta-BHC	0.0861	0.0826	0.100	0.100	N/A	86	83	45-110	4	15	
delta-BHC	0.101	0.0957	0.100	0.100	N/A	101	96	40-113	5	15	
Heptachlor	0.0882	0.0828	0.100	0.100	N/A	88	83	41-107	6	16	
Aldrin	0.0823	0.0807	0.100	0.100	N/A	82	81	39-105	2	15	
Heptachlor Epoxide	0.0881	0.0824	0.100	0.100	N/A	88	82	53-106	7	15	
gamma-Chlordane	0.0843	0.0806	0.100	0.100	N/A	84	81	46-110	4	15	
alpha-Chlordane	0.0820	0.0765	0.100	0.100	N/A	82	77	46-110	7	15	
4,4'-DDE	0.0884	0.0834	0.100	0.100	N/A	88	83	39-129	6	15	
Endosulfan I	0.0938	0.0884	0.100	0.100	N/A	94	88	51-109	6	15	
Dieldrin	0.0940	0.0887	0.100	0.100	N/A	94	89	55-112	6	15	
Endrin	0.0985	0.0939	0.100	0.100	N/A	98	94	54-119	5	16	
4,4'-DDD	0.107	0.100	0.100	0.100	N/A	107	100	52-142	7	15	
Endosulfan II	0.0909	0.0854	0.100	0.100	N/A	91	85	49-115	6	15	
4,4'-DDT	0.118	0.102	0.100	0.100	N/A	118	102	52-136	15	15	
Endrin Aldehyde	0.0914	0.0853	0.100	0.100	N/A	91	85	39-128	7	15	
Methoxychlor	0.101	0.0980	0.100	0.100	N/A	101	98	56-156	3	19	
Endosulfan Sulfate	0.0906	0.0847	0.100	0.100	N/A	91	85	44-120	7	15	
Endrin Ketone	0.102	0.0881	0.100	0.100	N/A	102	88	45-122	15	15	
Surrogate:											
TCMX						64	65	21-110			
DCB						88	80	42-113			



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**TOTAL METALS
 EPA 200.8/200.7/7470A
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0505WH1					
Iron	ND	50	EPA 200.7	5-5-22	5-5-22	
Magnesium	ND	1000	EPA 200.7	5-5-22	5-5-22	
Manganese	ND	10	EPA 200.7	5-5-22	5-5-22	
METHOD BLANK						
Laboratory ID:	MB0505WM1					
Arsenic	ND	3.3	EPA 200.8	5-5-22	5-5-22	
Cadmium	ND	4.4	EPA 200.8	5-5-22	5-5-22	
Chromium	ND	11	EPA 200.8	5-5-22	5-5-22	
Copper	ND	11	EPA 200.8	5-5-22	5-5-22	
Lead	ND	1.1	EPA 200.8	5-5-22	5-5-22	
Nickel	ND	22	EPA 200.8	5-5-22	5-5-22	
Selenium	ND	5.6	EPA 200.8	5-5-22	5-5-22	
Zinc	ND	28	EPA 200.8	5-5-22	5-5-22	
METHOD BLANK						
Laboratory ID:	MB0504W1					
Mercury	ND	0.025	EPA 7470A	5-4-22	5-4-22	



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TOTAL METALS
EPA 200.8/200.7/7470A
QUALITY CONTROL

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result		Spike Level		Source	Percent	Recovery	RPD		Flags
					Result	Recovery	Limits	RPD	Limit	
DUPLICATE										
Laboratory ID:	04-334-01									
	ORIG	DUP								
Iron	208	239	NA	NA		NA	NA	14	20	
Magnesium	5900	6060	NA	NA		NA	NA	3	20	
Manganese	22.2	23.3	NA	NA		NA	NA	5	20	
Laboratory ID:	04-309-01									
Arsenic	ND	ND	NA	NA		NA	NA	NA	20	
Cadmium	ND	ND	NA	NA		NA	NA	NA	20	
Chromium	ND	ND	NA	NA		NA	NA	NA	20	
Copper	ND	ND	NA	NA		NA	NA	NA	20	
Lead	ND	ND	NA	NA		NA	NA	NA	20	
Nickel	ND	ND	NA	NA		NA	NA	NA	20	
Selenium	ND	ND	NA	NA		NA	NA	NA	20	
Zinc	ND	ND	NA	NA		NA	NA	NA	20	
Laboratory ID:	05-023-01									
Mercury	ND	ND	NA	NA		NA	NA	NA	20	
MATRIX SPIKES										
Laboratory ID:	04-334-01									
	MS	MSD	MS	MSD		MS	MSD			
Iron	18100	17900	20000	20000	208	90	89	75-125	1	20
Magnesium	25000	25100	20000	20000	5900	96	96	75-125	0	20
Manganese	469	464	500	500	22.2	89	88	75-125	1	20
Laboratory ID:	04-309-01									
Arsenic	114	113	111	111	ND	103	102	75-125	2	20
Cadmium	108	108	111	111	ND	97	97	75-125	0	20
Chromium	111	107	111	111	ND	100	97	75-125	3	20
Copper	110	106	111	111	ND	99	96	75-125	4	20
Lead	108	107	111	111	ND	97	96	75-125	1	20
Nickel	108	104	111	111	ND	98	94	75-125	4	20
Selenium	116	113	111	111	ND	105	102	75-125	3	20
Zinc	113	111	111	111	ND	102	100	75-125	2	20
Laboratory ID:	05-023-01									
Mercury	5.80	5.80	6.25	6.25	ND	93	93	75-125	0	20



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**DISSOLVED METALS
 EPA 200.8/200.7/7470A
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0505D1					
Calcium	ND	1100	EPA 200.7		5-5-22	
Iron	ND	56	EPA 200.7		5-5-22	
Magnesium	ND	1100	EPA 200.7		5-5-22	
Manganese	ND	11	EPA 200.7		5-5-22	
Potassium	ND	1100	EPA 200.7		5-5-22	
Sodium	ND	1100	EPA 200.7		5-5-22	
Laboratory ID:	MB0504D1					
Arsenic	ND	3.0	EPA 200.8		5-4-22	
Cadmium	ND	4.0	EPA 200.8		5-4-22	
Chromium	ND	10	EPA 200.8		5-4-22	
Copper	ND	10	EPA 200.8		5-4-22	
Lead	ND	1.0	EPA 200.8		5-4-22	
Nickel	ND	20	EPA 200.8		5-4-22	
Selenium	ND	5.0	EPA 200.8		5-4-22	
Zinc	ND	25	EPA 200.8		5-4-22	
Laboratory ID:	MB0504D1					
Mercury	ND	0.025	EPA 7470A		5-4-22	



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**DISSOLVED METALS
 EPA 200.8/200.7/7470A
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result		Spike Level		Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE										
Laboratory ID:	05-016-02									
	ORIG	DUP								
Calcium	12400	12400	NA	NA		NA	NA	0	20	
Iron	ND	ND	NA	NA		NA	NA	NA	20	
Magnesium	4080	4050	NA	NA		NA	NA	1	20	
Manganese	ND	ND	NA	NA		NA	NA	NA	20	
Potassium	ND	ND	NA	NA		NA	NA	NA	20	
Sodium	4350	4180	NA	NA		NA	NA	4	20	
Laboratory ID:	04-317-01									
Arsenic	3.08	3.24	NA	NA		NA	NA	5	20	
Cadmium	ND	ND	NA	NA		NA	NA	NA	20	
Chromium	ND	ND	NA	NA		NA	NA	NA	20	
Copper	ND	ND	NA	NA		NA	NA	NA	20	
Lead	ND	ND	NA	NA		NA	NA	NA	20	
Nickel	ND	ND	NA	NA		NA	NA	NA	20	
Selenium	ND	ND	NA	NA		NA	NA	NA	20	
Zinc	ND	ND	NA	NA		NA	NA	NA	20	
Laboratory ID:	04-317-01									
Mercury	ND	ND	NA	NA		NA	NA	NA	20	
MATRIX SPIKES										
Laboratory ID:	05-016-02									
	MS	MSD	MS	MSD		MS	MSD			
Calcium	30500	30600	22200	22200	12400	82	82	75-125	0	20
Iron	20400	20400	22200	22200	ND	92	92	75-125	0	20
Magnesium	24300	24300	22200	22200	4080	91	91	75-125	0	20
Manganese	481	487	556	556	ND	86	88	75-125	1	20
Potassium	20500	20500	22200	22200	ND	93	93	75-125	0	20
Sodium	24500	24500	22200	22200	4350	91	91	75-125	0	20
Laboratory ID:	04-317-01									
Arsenic	80.4	78.2	80.0	80.0	3.08	97	94	75-125	3	20
Cadmium	74.2	72.6	80.0	80.0	ND	93	91	75-125	2	20
Chromium	75.8	74.0	80.0	80.0	ND	95	93	75-125	2	20
Copper	73.6	72.4	80.0	80.0	ND	92	91	75-125	2	20
Lead	73.2	71.2	80.0	80.0	ND	92	89	75-125	3	20
Nickel	73.2	72.4	80.0	80.0	ND	92	91	75-125	1	20
Selenium	80.6	78.0	80.0	80.0	ND	101	98	75-125	3	20
Zinc	75.4	75.8	80.0	80.0	ND	94	95	75-125	1	20
Laboratory ID:	04-317-01									
Mercury	6.00	5.93	6.25	6.25	ND	96	95	75-125	1	20



OnSite Environmental, Inc. 14648 NE 95th Street, Redmond, WA 98052 (425) 883-3881

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

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**TOTAL ALKALINITY
 SM 2320B
 QUALITY CONTROL**

Matrix: Water
 Units: mg CaCO₃/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0504W1					
Total Alkalinity	ND	2.0	SM 2320B	5-4-22	5-4-22	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	04-334-02							
	ORIG	DUP						
Total Alkalinity	76.0	78.0	NA	NA	NA	3	10	

SPIKE BLANK								
Laboratory ID:	SB0504W1							
	SB	SB		SB				
Total Alkalinity	94.0	100	NA	94	89-110	NA	NA	



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**BICARBONATE
 SM 2320B
 QUALITY CONTROL**

Matrix: Water
 Units: mg CaCO₃/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0504W1					
Bicarbonate	ND	2.0	SM 2320B	5-4-22	5-4-22	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	04-334-02							
	ORIG	DUP						
Bicarbonate	76.0	78.0	NA	NA	NA	3	10	

SPIKE BLANK								
Laboratory ID:	SB0504W1							
	SB	SB		SB				
Bicarbonate	94.0	100	NA	94	89-110	NA	NA	



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**TOTAL DISSOLVED SOLIDS
 SM 2540C
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0505W1					
Total Dissolved Solids	ND	13	SM 2540C	5-5-22	5-5-22	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	05-024-01							
	ORIG	DUP						
Total Dissolved Solids	288	272	NA	NA	NA	6	23	

SPIKE BLANK								
Laboratory ID:	SB0505W1							
	SB	SB		SB				
Total Dissolved Solids	471	500	NA	94	89-110	NA	NA	



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**CHLORIDE
 SM 4500-Cl E
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0516W2					
Chloride	ND	2.0	SM 4500-Cl E	5-16-22	5-16-22	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	05-024-01							
	ORIG	DUP						
Chloride	3.88	4.28	NA	NA	NA	10	11	

MATRIX SPIKE								
Laboratory ID:	05-024-01							
	MS	MS		MS				
Chloride	54.8	50.0	3.88	102	90-121	NA	NA	

SPIKE BLANK								
Laboratory ID:	SB0516W2							
	SB	SB		SB				
Chloride	47.1	50.0	NA	94	90-119	NA	NA	



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**NITRATE (as Nitrogen)
 EPA 353.2
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L-N

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0504W1					
Nitrate	ND	0.050	EPA 353.2	5-4-22	5-4-22	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	05-024-01							
	ORIG	DUP						
Nitrate	0.123	0.109	NA	NA	NA	12	10	C

MATRIX SPIKE								
Laboratory ID:	05-024-01							
	MS	MS		MS				
Nitrate	2.06	2.00	0.123	97	88-125	NA	NA	

SPIKE BLANK								
Laboratory ID:	SB0504W1							
	SB	SB		SB				
Nitrate	1.94	2.00	NA	97	90-120	NA	NA	



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**SULFATE
 ASTM D516-11
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0509W1					
Sulfate	ND	5.0	ASTM D516-11	5-9-22	5-9-22	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	04-337-01							
	ORIG	DUP						
Sulfate	ND	ND	NA	NA	NA	NA	10	

MATRIX SPIKE								
Laboratory ID:	04-337-01							
	MS	MS		MS				
Sulfate	11.3	10.0	ND	113	72-128	NA	NA	

SPIKE BLANK								
Laboratory ID:	SB0509W1							
	SB	SB		SB				
Sulfate	9.23	10.0	NA	92	85-114	NA	NA	



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**AMMONIA (as Nitrogen)
 SM 4500-NH₃ D
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0516W1					
Ammonia	ND	0.050	SM 4500-NH3 D	5-16-22	5-16-22	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	05-024-01							
	ORIG	DUP						
Ammonia	0.101	0.0940	NA	NA	NA	7	15	

MATRIX SPIKE								
Laboratory ID:	05-024-01							
	MS	MS		MS				
Ammonia	4.73	5.00	0.101	93	87-110	NA	NA	

SPIKE BLANK								
Laboratory ID:	SB0516W1							
	SB	SB		SB				
Ammonia	4.57	5.00	NA	91	88-110	NA	NA	





Data Qualifiers and Abbreviations

- A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.
 - B - The analyte indicated was also found in the blank sample.
 - C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.
 - E - The value reported exceeds the quantitation range and is an estimate.
 - F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.
 - H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.
 - I - Compound recovery is outside of the control limits.
 - J - The value reported was below the practical quantitation limit. The value is an estimate.
 - K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.
 - L - The RPD is outside of the control limits.
 - M - Hydrocarbons in the gasoline range are impacting the diesel range result.
 - M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.
 - N - Hydrocarbons in the lube oil range are impacting the diesel range result.
 - N1 - Hydrocarbons in diesel range are impacting lube oil range results.
 - O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.
 - P - The RPD of the detected concentrations between the two columns is greater than 40.
 - Q - Surrogate recovery is outside of the control limits.
 - S - Surrogate recovery data is not available due to the necessary dilution of the sample.
 - T - The sample chromatogram is not similar to a typical _____.
 - U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
 - U1 - The practical quantitation limit is elevated due to interferences present in the sample.
 - V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.
 - W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.
 - X - Sample extract treated with a mercury cleanup procedure.
 - X1 - Sample extract treated with a sulfuric acid/silica gel cleanup procedure.
 - Y - The calibration verification for this analyte exceeded the 20% drift specified in methods 8260 & 8270, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.
 - Z -
- ND - Not Detected at PQL
 PQL - Practical Quantitation Limit
 RPD - Relative Percent Difference





OnSite Environmental Inc

David Baumeister
14648 NE 95th Street
Redmond, WA 98052

RE: 05-009

Work Order Number: 2205105

May 18, 2022

Attention David Baumeister:

Fremont Analytical, Inc. received 1 sample(s) on 5/4/2022 for the analyses presented in the following report.

Herbicides by EPA Method 8151A (GC/MS)

This report consists of the following:

- Case Narrative
- Analytical Results
- Applicable Quality Control Summary Reports
- Chain of Custody

All analyses were performed consistent with the Quality Assurance program of Fremont Analytical, Inc. Please contact the laboratory if you should have any questions about the results.

Thank you for using Fremont Analytical.

Sincerely,

Brianna Barnes
Project Manager



CLIENT: OnSite Environmental Inc
Project: 05-009
Work Order: 2205105

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received
2205105-001	MW8-05022022	05/02/2022 12:00 AM	05/04/2022 2:18 PM

DRAFT

Note: If no "Time Collected" is supplied, a default of 12:00AM is assigned

CLIENT: OnSite Environmental Inc

Project: 05-009

I. SAMPLE RECEIPT:

Samples receipt information is recorded on the attached Sample Receipt Checklist.

II. GENERAL REPORTING COMMENTS:

Results are reported on a wet weight basis unless dry-weight correction is denoted in the units field on the analytical report ("mg/kg-dry" or "ug/kg-dry").

Matrix Spike (MS) and MS Duplicate (MSD) samples are tested from an analytical batch of "like" matrix to check for possible matrix effect. The MS and MSD will provide site specific matrix data only for those samples which are spiked by the laboratory. The sample chosen for spike purposes may or may not have been a sample submitted in this sample delivery group. The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The LCS and the MB are processed with the samples and the MS/MSD to ensure method criteria are achieved throughout the entire analytical process.

III. ANALYSES AND EXCEPTIONS:

Exceptions associated with this report will be footnoted in the analytical results page(s) or the quality control summary page(s) and/or noted below.

DRAFT

Qualifiers:

- * - Flagged value is not within established control limits
- B - Analyte detected in the associated Method Blank
- D - Dilution was required
- E - Value above quantitation range
- H - Holding times for preparation or analysis exceeded
- I - Analyte with an internal standard that does not meet established acceptance criteria
- J - Analyte detected below Reporting Limit
- N - Tentatively Identified Compound (TIC)
- Q - Analyte with an initial or continuing calibration that does not meet established acceptance criteria
- S - Spike recovery outside accepted recovery limits
- ND - Not detected at the Reporting Limit
- R - High relative percent difference observed

Acronyms:

- %Rec - Percent Recovery
- CCB - Continued Calibration Blank
- CCV - Continued Calibration Verification
- DF - Dilution Factor
- DUP - Sample Duplicate
- HEM - Hexane Extractable Material
- ICV - Initial Calibration Verification
- LCS/LCSD - Laboratory Control Sample / Laboratory Control Sample Duplicate
- MCL - Maximum Contaminant Level
- MB or MBLANK - Method Blank
- MDL - Method Detection Limit
- MS/MSD - Matrix Spike / Matrix Spike Duplicate
- PDS - Post Digestion Spike
- Ref Val - Reference Value
- REP - Sample Replicate
- RL - Reporting Limit
- RPD - Relative Percent Difference
- SD - Serial Dilution
- SGT - Silica Gel Treatment
- SPK - Spike
- Surr - Surrogate



Client: OnSite Environmental Inc

Collection Date: 5/2/2022

Project: 05-009

Lab ID: 2205105-001

Matrix: Water

Client Sample ID: MW8-05022022

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
----------	--------	----	------	-------	----	---------------

Herbicides by EPA Method 8151A (GC/MS)

Batch ID: 36363

Analyst: OK

Dicamba	ND	0.999		µg/L	1	5/13/2022 2:38:52 PM
2,4-D	ND	0.999		µg/L	1	5/13/2022 2:38:52 PM
2,4-DP	ND	0.999		µg/L	1	5/13/2022 2:38:52 PM
2,4,5-TP (Silvex)	ND	0.999		µg/L	1	5/13/2022 2:38:52 PM
2,4,5-T	ND	0.999		µg/L	1	5/13/2022 2:38:52 PM
Dinoseb	ND	0.999		µg/L	1	5/13/2022 2:38:52 PM
Dalapon	ND	2.00		µg/L	1	5/13/2022 2:38:52 PM
2,4-DB	ND	0.999		µg/L	1	5/13/2022 2:38:52 PM
MCPP	ND	4.99		µg/L	1	5/13/2022 2:38:52 PM
MCPA	ND	4.99		µg/L	1	5/13/2022 2:38:52 PM
Picloram	ND	0.999		µg/L	1	5/13/2022 2:38:52 PM
Bentazon	ND	0.999		µg/L	1	5/13/2022 2:38:52 PM
Chloramben	ND	0.999		µg/L	1	5/13/2022 2:38:52 PM
Acifluorfen	ND	4.99		µg/L	1	5/13/2022 2:38:52 PM
3,5-Dichlorobenzoic acid	ND	0.999		µg/L	1	5/13/2022 2:38:52 PM
4-Nitrophenol	ND	0.999		µg/L	1	5/13/2022 2:38:52 PM
Dacthal (DCPA)	ND	2.00		µg/L	1	5/13/2022 2:38:52 PM
Surr: 2,4-Dichlorophenylacetic acid	101	65.7 - 136		%Rec	1	5/13/2022 2:38:52 PM



Work Order: 2205105
 CLIENT: OnSite Environmental Inc
 Project: 05-009

QC SUMMARY REPORT
Herbicides by EPA Method 8151A (GC/MS)

Sample ID: MB-36363	SampType: MBLK	Units: µg/L	Prep Date: 5/9/2022	RunNo: 75476							
Client ID: MBLKW	Batch ID: 36363		Analysis Date: 5/13/2022	SeqNo: 1548821							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Dicamba	ND	0.996									
2,4-D	ND	0.996									
2,4-DP	ND	0.996									
2,4,5-TP (Silvex)	ND	0.996									
2,4,5-T	ND	0.996									
Dinoseb	ND	0.996									
Dalapon	ND	1.99									
2,4-DB	ND	0.996									
MCPD	ND	4.98									
MCPA	ND	4.98									
Picloram	ND	0.996									
Bentazon	ND	0.996									
Chloramben	ND	0.996									
Acifluorfen	ND	4.98									
3,5-Dichlorobenzoic acid	ND	0.996									
4-Nitrophenol	ND	0.996									
Dacthal (DCPA)	ND	1.99									
Surr: 2,4-Dichlorophenylacetic acid	18.5		19.91		93.0	65.7	136				

Sample ID: LCS-36363	SampType: LCS	Units: µg/L	Prep Date: 5/9/2022	RunNo: 75476							
Client ID: LCSW	Batch ID: 36363		Analysis Date: 5/13/2022	SeqNo: 1548822							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Dicamba	4.04	0.993	3.974	0	102	16.6	148				
2,4-D	4.77	0.993	3.974	0	120	50.4	150				
2,4-DP	4.33	0.993	3.974	0	109	53	135				
2,4,5-TP (Silvex)	4.52	0.993	3.974	0	114	53.6	140				
2,4,5-T	4.49	0.993	3.974	0	113	50	141				
Dinoseb	3.69	0.993	3.974	0	92.8	5	119				
Dalapon	11.7	1.99	19.87	0	59.0	5.65	97.2				

Work Order: 2205105
 CLIENT: OnSite Environmental Inc
 Project: 05-009

QC SUMMARY REPORT
Herbicides by EPA Method 8151A (GC/MS)

Sample ID: LCS-36363	SampType: LCS	Units: µg/L				Prep Date: 5/9/2022	RunNo: 75476				
Client ID: LCSW	Batch ID: 36363					Analysis Date: 5/13/2022	SeqNo: 1548822				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
2,4-DB	4.47	0.993	3.974	0	112	54.9	141				
MCPP	17.2	4.97	19.87	0	86.6	28.7	166				
MCPA	17.6	4.97	19.87	0	88.5	20.7	176				
Picloram	3.56	0.993	3.974	0	89.5	9.72	120				
Bentazon	4.42	0.993	3.974	0	111	41.2	141				
Chloramben	2.39	0.993	3.974	0	60.1	5	109				
Acifluorfen	3.95	3.87	3.974	0	99.3	7.62	139				
3,5-Dichlorobenzoic acid	4.07	0.993	3.974	0	102	52.4	120				
4-Nitrophenol	0.821	0.497	3.974	0	20.6	5	107				
Dacthal (DCPA)	2.08	1.99	3.974	0	52.4	5	65.4				
Surr: 2,4-Dichlorophenylacetic acid	19.6		19.87		98.6	65.7	136				

Sample ID: LCS-36363	SampType: LCS	Units: µg/L				Prep Date: 5/9/2022	RunNo: 75476				
Client ID: LCSW02	Batch ID: 36363					Analysis Date: 5/13/2022	SeqNo: 1548822				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dicamba	4.41	0.996	3.984	0	111	16.6	148	4.043	8.63	30	
2,4-D	5.41	0.996	3.984	0	136	50.4	150	4.765	12.7	30	
2,4-DP	4.86	0.996	3.984	0	122	53	135	4.327	11.6	30	
2,4,5-TP (Silvex)	5.18	0.996	3.984	0	130	53.6	140	4.515	13.8	30	
2,4,5-T	5.19	0.996	3.984	0	130	50	141	4.485	14.5	30	
Dinoseb	4.12	0.996	3.984	0	103	5	119	3.689	11.1	30	
Dalapon	11.5	1.99	19.92	0	57.6	5.65	97.2	11.72	2.13	30	
2,4-DB	5.12	0.996	3.984	0	128	54.9	141	4.466	13.6	30	
MCPP	18.7	4.98	19.92	0	93.7	28.7	166	17.21	8.10	30	
MCPA	19.1	4.98	19.92	0	96.1	20.7	176	17.59	8.40	30	
Picloram	4.21	0.996	3.984	0	106	9.72	120	3.556	16.9	30	
Bentazon	5.00	0.996	3.984	0	125	41.2	141	4.424	12.2	30	
Chloramben	3.30	0.996	3.984	0	82.7	5	109	2.388	31.9	30	
Acifluorfen	4.36	3.98	3.984	0	109	7.62	139	3.947	9.91	30	

Work Order: 2205105
 CLIENT: OnSite Environmental Inc
 Project: 05-009

QC SUMMARY REPORT
Herbicides by EPA Method 8151A (GC/MS)

Sample ID: LCS D-36363	SampType: LCS D	Units: µg/L	Prep Date: 5/9/2022	RunNo: 75476							
Client ID: LCS W02	Batch ID: 36363		Analysis Date: 5/13/2022	SeqNo: 1548823							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
3,5-Dichlorobenzoic acid	4.35	0.996	3.984	0	109	52.4	120	4.068	6.78	30	
4-Nitrophenol	2.34	0.996	3.984	0	58.7	5	107	0.8205	96.1	30	R
Dacthal (DCPA)	1.93	1.49	3.984	0	48.5	5	65.4	2.083	7.42	30	
Surr: 2,4-Dichlorophenylacetic acid	21.0		19.92		105	65.7	136		0		

NOTES:

R - High RPD observed, spike recovery is within range.

Sample ID: 2205170-001AMS	SampType: MS	Units: µg/L	Prep Date: 5/9/2022	RunNo: 75476							
Client ID: BATCH	Batch ID: 36363		Analysis Date: 5/13/2022	SeqNo: 1548828							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dicamba	4.62	1.00	4.003	0	115	31	142				
2,4-D	5.65	1.00	4.003	0	141	50.3	149				
2,4-DP	5.05	1.00	4.003	0	126	49.9	143				
2,4,5-TP (Silvex)	5.42	1.00	4.003	0	135	47.7	141				
2,4,5-T	5.47	1.00	4.003	0	137	34.4	139				
Dinoseb	5.07	1.00	4.003	0	127	27.3	117				S
Dalapon	11.3	2.00	20.02	0	56.6	14.2	113				
2,4-DB	5.50	1.00	4.003	0	137	31.3	147				
MCPPP	19.4	5.00	20.02	0	97.1	30.5	177				
MCPA	19.9	5.00	20.02	0	99.2	36.8	163				
Picloram	4.32	1.00	4.003	0	108	18.8	115				
Bentazon	5.44	1.00	4.003	0	136	11.9	176				
Chloramben	3.40	1.00	4.003	0	84.9	5	112				
Acifluorfen	5.12	5.00	4.003	0	128	28.1	146				
3,5-Dichlorobenzoic acid	4.66	1.00	4.003	0	117	36.2	146				
4-Nitrophenol	1.39	1.00	4.003	0	34.6	5	116				
Dacthal (DCPA)	1.63	1.50	4.003	0	40.6	5	84.6				
Surr: 2,4-Dichlorophenylacetic acid	21.7		20.02		109	65.7	136				

NOTES:

S - Outlying spike recoveries were associated with this sample (high bias, non-detect).



Work Order: 2205105
CLIENT: OnSite Environmental Inc
Project: 05-009

QC SUMMARY REPORT
Herbicides by EPA Method 8151A (GC/MS)

DRAFT

Client Name: ONSITE	Work Order Number: 2205105
Logged by: Gabrielle Coeuille	Date Received: 5/4/2022 2:18:00 PM

Chain of Custody

1. Is Chain of Custody complete? Yes No Not Present
2. How was the sample delivered? Client

Log In

3. Coolers are present? Yes No NA
4. Shipping container/cooler in good condition? Yes No
5. Custody Seals present on shipping container/cooler?
(Refer to comments for Custody Seals not intact) Yes No Not Present
6. Was an attempt made to cool the samples? Yes No NA
7. Were all items received at a temperature of >2°C to 6°C * Yes No NA
8. Sample(s) in proper container(s)? Yes No
9. Sufficient sample volume for indicated test(s)? Yes No
10. Are samples properly preserved? Yes No
11. Was preservative added to bottles? Yes No NA
12. Is there headspace in the VOA vials? Yes No NA
13. Did all samples containers arrive in good condition(unbroken)? Yes No
14. Does paperwork match bottle labels? Yes No
15. Are matrices correctly identified on Chain of Custody? Yes No
16. Is it clear what analyses were requested? Yes No
17. Were all holding times able to be met? Yes No

Special Handling (if applicable)

18. Was client notified of all discrepancies with this order? Yes No NA

Person Notified:	<input type="text"/>	Date:	<input type="text"/>
By Whom:	<input type="text"/>	Via:	<input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:	<input type="text"/>		
Client Instructions:	<input type="text"/>		

19. Additional remarks:

Item Information

Item #	Temp °C
Sample	5.9

* Note: DoD/ELAP and TNI require items to be received at 4°C +/- 2°C



14648 NE 95th Street, Redmond, WA 98052 · (425) 883-3881

2205105

Laboratory Reference #: 05-009

Laboratory: Fremont Analytical

Turnaround Request

Project Manager: David Baumeister

Attention: Chelsea Ward

1 Day 2 Day 3 Day

email: dbaumeister@onsite-env.com

3600 Fremont Avenue N, Seattle, WA 98103

Standard

Project Number: 6694-002-05

Phone Number: (206) 352-3790

Other: _____

Project Name: _____

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	# of Cont.	Requested Analyses
	MW8-05022022	5/2/22		W	1	Chlorinated Acid Herbicides 8151

Signature	Company	Date	Time	Comments/Special Instructions
Relinquished by: <i>[Signature]</i>	OSE	5/4/22	12:27	EDDs
Received by: <i>[Signature]</i>	ALPHA	5/4/22	12:27	
Relinquished by: <i>[Signature]</i>	ALPHA	5/4/22	1:57	
Received by: <i>Justine Pogue</i>	FAI	5/4/22	14:17	
Relinquished by:				
Received by:				



OnSite Environmental Inc.
Analytical Laboratory Testing Services

14648 NE 95th Street - Redmond, WA 98052
Phone: (425) 883-3881 • www.onsite-env.com

Chain of Custody

Company: Geoengineers Inc.
 Project Number: 6694w205
 Project Name: Go East
 Project Manager: Garrett Legue
 Sampled by: Akanksha Garg

Turnaround Request (in working days)
 (Check One)
 Same Day 1 Day
 2 Days 3 Days
 Standard (7 Days)
 _____ (other)

Laboratory Number: **05-009**

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	Analytical Parameters														% Moisture				
						NWTPH-HClD	NWTPH-Gx/BTEX (8021 □ 8260 □)	NWTPH-Gx	NWTPH-Ox (Acid / SG Clean-up □)	Volatiles 8260	Halogenated Volatiles 8260	EDB EPA 8011 (Waters Only)	Semivolatiles 8270/SIM (with low-level PAHs)	PAHs 8270/SIM (low-level)	PCBs 8082	Organochlorine Pesticides 8081	Organophosphorus Pesticides 8270/SIM	Chlorinated Acid Herbicides 8151	Total POPs Metals * T/D metals *		Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664	
1	MW 8 - DB 02 2022 05 DB	4/2	1305	water	8		X	X	X			X	X	X	X	X			X	X				
		5/2																						

*Metals = Tot/Diss As Cd Cr Cu Fe Pb Mn Hg Ni Se Zn Mg
 Diss Ca K Na

Signature	Company	Date	Time	Comments/Special Instructions
<u>[Signature]</u>	<u>Geo</u>	<u>4/2</u>	<u>4:00</u>	<u>Please see Garrett List or old coc for analyses.</u>
<u>[Signature]</u>	<u>alpha</u>	<u>5/2/22</u>	<u>16:05</u>	
<u>[Signature]</u>	<u>alpha</u>	<u>5/2/22</u>	<u>16:58</u>	
<u>[Signature]</u>	<u>ORL</u>	<u>5/2/22</u>	<u>16:58</u>	

Data Package: Standard Level III Level IV
 Chromatograms with final report Electronic Data Delivery



14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

May 18, 2022

Garrett Leque
GeoEngineers, Inc.
554 West Bakerview Road
Bellingham, WA 98226

Re: Analytical Data for Project 6694-002-05 T700
Laboratory Reference No. 2205-023

Dear Garrett:

Enclosed are the analytical results and associated quality control data for samples submitted on May 3, 2022.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

A handwritten signature in black ink, appearing to read "DB", with a long horizontal stroke extending to the right.

David Baumeister
Project Manager

Enclosures



OnSite Environmental, Inc. 14648 NE 95th Street, Redmond, WA 98052 (425) 883-3881

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: May 18, 2022
Samples Submitted: May 3, 2022
Laboratory Reference: 2205-023
Project: 6694-002-05 T700

Case Narrative

Samples were collected on May 3, 2022 and received by the laboratory on May 3, 2022. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.



Date of Report: May 18, 2022
Samples Submitted: May 3, 2022
Laboratory Reference: 2205-023
Project: 6694-002-05 T700

ANALYTICAL REPORT FOR SAMPLES

Client ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
SWS-1-220503	05-023-01	Water	5-3-22	5-3-22	

DRAFT



Date of Report: May 18, 2022
 Samples Submitted: May 3, 2022
 Laboratory Reference: 2205-023
 Project: 6694-002-05 T700

GASOLINE RANGE ORGANICS
NWTPH-Gx

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SWS-1-220503					
Laboratory ID:	05-023-01					
Gasoline	ND	100	NWTPH-Gx	5-4-22	5-4-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	92	65-122				



Date of Report: May 18, 2022
 Samples Submitted: May 3, 2022
 Laboratory Reference: 2205-023
 Project: 6694-002-05 T700

DIESEL AND HEAVY OIL RANGE ORGANICS
NWTPH-Dx

Matrix: Water
 Units: mg/L (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SWS-1-220503					
Laboratory ID:	05-023-01					
Diesel Range Organics	0.26	0.20	NWTPH-Dx	5-9-22	5-10-22	
Lube Oil Range Organics	0.28	0.20	NWTPH-Dx	5-9-22	5-10-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	89	50-150				



Date of Report: May 18, 2022
 Samples Submitted: May 3, 2022
 Laboratory Reference: 2205-023
 Project: 6694-002-05 T700

VOLATILE ORGANICS EPA 8260D
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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SWS-1-220503					
Laboratory ID:	05-023-01					
Dichlorodifluoromethane	ND	0.20	EPA 8260D	5-4-22	5-4-22	
Chloromethane	ND	1.0	EPA 8260D	5-4-22	5-4-22	
Vinyl Chloride	ND	0.20	EPA 8260D	5-4-22	5-4-22	
Bromomethane	ND	3.1	EPA 8260D	5-4-22	5-4-22	
Chloroethane	ND	1.0	EPA 8260D	5-4-22	5-4-22	
Trichlorofluoromethane	ND	0.20	EPA 8260D	5-4-22	5-4-22	
1,1-Dichloroethene	ND	0.20	EPA 8260D	5-4-22	5-4-22	
Acetone	ND	5.0	EPA 8260D	5-4-22	5-4-22	
Iodomethane	ND	19	EPA 8260D	5-4-22	5-4-22	
Carbon Disulfide	ND	0.20	EPA 8260D	5-4-22	5-4-22	
Methylene Chloride	ND	1.0	EPA 8260D	5-4-22	5-4-22	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	5-4-22	5-4-22	
Methyl t-Butyl Ether	ND	0.20	EPA 8260D	5-4-22	5-4-22	
1,1-Dichloroethane	ND	0.20	EPA 8260D	5-4-22	5-4-22	
Vinyl Acetate	ND	1.0	EPA 8260D	5-4-22	5-4-22	
2,2-Dichloropropane	ND	0.20	EPA 8260D	5-4-22	5-4-22	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	5-4-22	5-4-22	
2-Butanone	ND	5.0	EPA 8260D	5-4-22	5-4-22	
Bromochloromethane	ND	0.20	EPA 8260D	5-4-22	5-4-22	
Chloroform	ND	0.20	EPA 8260D	5-4-22	5-4-22	
1,1,1-Trichloroethane	ND	0.20	EPA 8260D	5-4-22	5-4-22	
Carbon Tetrachloride	ND	0.20	EPA 8260D	5-4-22	5-4-22	
1,1-Dichloropropene	ND	0.20	EPA 8260D	5-4-22	5-4-22	
Benzene	ND	0.20	EPA 8260D	5-4-22	5-4-22	
1,2-Dichloroethane	ND	0.20	EPA 8260D	5-4-22	5-4-22	
Trichloroethene	ND	0.20	EPA 8260D	5-4-22	5-4-22	
1,2-Dichloropropane	ND	0.20	EPA 8260D	5-4-22	5-4-22	
Dibromomethane	ND	0.20	EPA 8260D	5-4-22	5-4-22	
Bromodichloromethane	ND	0.20	EPA 8260D	5-4-22	5-4-22	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260D	5-4-22	5-4-22	
Methyl Isobutyl Ketone	ND	2.0	EPA 8260D	5-4-22	5-4-22	
Toluene	ND	1.0	EPA 8260D	5-4-22	5-4-22	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260D	5-4-22	5-4-22	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SWS-1-220503					
Laboratory ID:	05-023-01					
1,1,2-Trichloroethane	ND	0.20	EPA 8260D	5-4-22	5-4-22	
Tetrachloroethene	ND	0.20	EPA 8260D	5-4-22	5-4-22	
1,3-Dichloropropane	ND	0.20	EPA 8260D	5-4-22	5-4-22	
2-Hexanone	ND	2.0	EPA 8260D	5-4-22	5-4-22	
Dibromochloromethane	ND	0.20	EPA 8260D	5-4-22	5-4-22	
1,2-Dibromoethane	ND	0.20	EPA 8260D	5-4-22	5-4-22	
Chlorobenzene	ND	0.20	EPA 8260D	5-4-22	5-4-22	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260D	5-4-22	5-4-22	
Ethylbenzene	ND	0.20	EPA 8260D	5-4-22	5-4-22	
m,p-Xylene	ND	0.40	EPA 8260D	5-4-22	5-4-22	
o-Xylene	ND	0.20	EPA 8260D	5-4-22	5-4-22	
Styrene	ND	0.20	EPA 8260D	5-4-22	5-4-22	
Bromoform	ND	1.0	EPA 8260D	5-4-22	5-4-22	
Isopropylbenzene	ND	0.20	EPA 8260D	5-4-22	5-4-22	
Bromobenzene	ND	0.20	EPA 8260D	5-4-22	5-4-22	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260D	5-4-22	5-4-22	
1,2,3-Trichloropropane	ND	0.20	EPA 8260D	5-4-22	5-4-22	
n-Propylbenzene	ND	0.20	EPA 8260D	5-4-22	5-4-22	
2-Chlorotoluene	ND	0.20	EPA 8260D	5-4-22	5-4-22	
4-Chlorotoluene	ND	0.20	EPA 8260D	5-4-22	5-4-22	
1,3,5-Trimethylbenzene	ND	0.20	EPA 8260D	5-4-22	5-4-22	
tert-Butylbenzene	ND	0.20	EPA 8260D	5-4-22	5-4-22	
1,2,4-Trimethylbenzene	ND	0.20	EPA 8260D	5-4-22	5-4-22	
sec-Butylbenzene	ND	0.20	EPA 8260D	5-4-22	5-4-22	
1,3-Dichlorobenzene	ND	0.20	EPA 8260D	5-4-22	5-4-22	
p-Isopropyltoluene	ND	0.20	EPA 8260D	5-4-22	5-4-22	
1,4-Dichlorobenzene	ND	0.20	EPA 8260D	5-4-22	5-4-22	
1,2-Dichlorobenzene	ND	0.20	EPA 8260D	5-4-22	5-4-22	
n-Butylbenzene	ND	0.20	EPA 8260D	5-4-22	5-4-22	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260D	5-4-22	5-4-22	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260D	5-4-22	5-4-22	
Hexachlorobutadiene	ND	1.0	EPA 8260D	5-4-22	5-4-22	
Naphthalene	ND	1.0	EPA 8260D	5-4-22	5-4-22	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260D	5-4-22	5-4-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>103</i>	<i>75-127</i>				
<i>Toluene-d8</i>	<i>101</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>100</i>	<i>78-125</i>				



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SEMIVOLATILE ORGANICS EPA 8270E/SIM
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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SWS-1-220503					
Laboratory ID:	05-023-01					
n-Nitrosodimethylamine	ND	0.97	EPA 8270E	5-6-22	5-6-22	
Pyridine	ND	0.97	EPA 8270E	5-6-22	5-6-22	
Phenol	ND	0.97	EPA 8270E	5-6-22	5-6-22	
Aniline	ND	4.8	EPA 8270E	5-6-22	5-6-22	
bis(2-Chloroethyl)ether	ND	0.97	EPA 8270E	5-6-22	5-6-22	
2-Chlorophenol	ND	0.97	EPA 8270E	5-6-22	5-6-22	
1,3-Dichlorobenzene	ND	0.97	EPA 8270E	5-6-22	5-6-22	
1,4-Dichlorobenzene	ND	0.97	EPA 8270E	5-6-22	5-6-22	
Benzyl alcohol	ND	0.97	EPA 8270E	5-6-22	5-6-22	
1,2-Dichlorobenzene	ND	0.97	EPA 8270E	5-6-22	5-6-22	
2-Methylphenol (o-Cresol)	ND	0.97	EPA 8270E	5-6-22	5-6-22	
bis(2-Chloroisopropyl)ether	ND	0.97	EPA 8270E	5-6-22	5-6-22	
(3+4)-Methylphenol (m,p-Cresol)	ND	0.97	EPA 8270E	5-6-22	5-6-22	
n-Nitroso-di-n-propylamine	ND	0.97	EPA 8270E	5-6-22	5-6-22	
Hexachloroethane	ND	0.97	EPA 8270E	5-6-22	5-6-22	
Nitrobenzene	ND	0.97	EPA 8270E	5-6-22	5-6-22	
Isophorone	ND	0.97	EPA 8270E	5-6-22	5-6-22	
2-Nitrophenol	ND	0.97	EPA 8270E	5-6-22	5-6-22	
2,4-Dimethylphenol	ND	0.97	EPA 8270E	5-6-22	5-6-22	
bis(2-Chloroethoxy)methane	ND	0.97	EPA 8270E	5-6-22	5-6-22	
2,4-Dichlorophenol	ND	0.97	EPA 8270E	5-6-22	5-6-22	
1,2,4-Trichlorobenzene	ND	0.97	EPA 8270E	5-6-22	5-6-22	
Naphthalene	ND	0.097	EPA 8270E/SIM	5-6-22	5-6-22	
4-Chloroaniline	ND	0.97	EPA 8270E	5-6-22	5-6-22	
Hexachlorobutadiene	ND	0.97	EPA 8270E	5-6-22	5-6-22	
4-Chloro-3-methylphenol	ND	0.97	EPA 8270E	5-6-22	5-6-22	
2-Methylnaphthalene	ND	0.097	EPA 8270E/SIM	5-6-22	5-6-22	
1-Methylnaphthalene	ND	0.097	EPA 8270E/SIM	5-6-22	5-6-22	
Hexachlorocyclopentadiene	ND	0.97	EPA 8270E	5-6-22	5-6-22	
2,4,6-Trichlorophenol	ND	0.97	EPA 8270E	5-6-22	5-6-22	
2,3-Dichloroaniline	ND	0.97	EPA 8270E	5-6-22	5-6-22	
2,4,5-Trichlorophenol	ND	0.97	EPA 8270E	5-6-22	5-6-22	
2-Chloronaphthalene	ND	0.97	EPA 8270E	5-6-22	5-6-22	
2-Nitroaniline	ND	0.97	EPA 8270E	5-6-22	5-6-22	
1,4-Dinitrobenzene	ND	0.97	EPA 8270E	5-6-22	5-6-22	
Dimethylphthalate	ND	4.8	EPA 8270E	5-6-22	5-6-22	
1,3-Dinitrobenzene	ND	0.97	EPA 8270E	5-6-22	5-6-22	
2,6-Dinitrotoluene	ND	0.97	EPA 8270E	5-6-22	5-6-22	
1,2-Dinitrobenzene	ND	0.97	EPA 8270E	5-6-22	5-6-22	
Acenaphthylene	ND	0.097	EPA 8270E/SIM	5-6-22	5-6-22	
3-Nitroaniline	ND	0.97	EPA 8270E	5-6-22	5-6-22	



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SEMIVOLATILE ORGANICS EPA 8270E/SIM
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SWS-1-220503					
Laboratory ID:	05-023-01					
2,4-Dinitrophenol	ND	6.2	EPA 8270E	5-6-22	5-6-22	
Acenaphthene	1.0	0.97	EPA 8270E	5-6-22	5-6-22	
4-Nitrophenol	ND	4.8	EPA 8270E	5-6-22	5-6-22	
2,4-Dinitrotoluene	ND	0.97	EPA 8270E	5-6-22	5-6-22	
Dibenzofuran	ND	0.97	EPA 8270E	5-6-22	5-6-22	
2,3,5,6-Tetrachlorophenol	ND	0.97	EPA 8270E	5-6-22	5-6-22	
2,3,4,6-Tetrachlorophenol	ND	0.97	EPA 8270E	5-6-22	5-6-22	
Diethylphthalate	ND	0.97	EPA 8270E	5-6-22	5-6-22	
4-Chlorophenyl-phenylether	ND	0.97	EPA 8270E	5-6-22	5-6-22	
4-Nitroaniline	ND	0.97	EPA 8270E	5-6-22	5-6-22	
Fluorene	0.27	0.097	EPA 8270E/SIM	5-6-22	5-6-22	
4,6-Dinitro-2-methylphenol	ND	4.8	EPA 8270E	5-6-22	5-6-22	
n-Nitrosodiphenylamine	ND	0.97	EPA 8270E	5-6-22	5-6-22	
1,2-Diphenylhydrazine	ND	0.97	EPA 8270E	5-6-22	5-6-22	
4-Bromophenyl-phenylether	ND	0.97	EPA 8270E	5-6-22	5-6-22	
Hexachlorobenzene	ND	0.97	EPA 8270E	5-6-22	5-6-22	
Pentachlorophenol	ND	7.5	EPA 8270E	5-6-22	5-6-22	
Phenanthrene	ND	0.097	EPA 8270E/SIM	5-6-22	5-6-22	
Anthracene	ND	0.097	EPA 8270E/SIM	5-6-22	5-6-22	
Carbazole	ND	0.97	EPA 8270E	5-6-22	5-6-22	
Di-n-butylphthalate	ND	4.8	EPA 8270E	5-6-22	5-6-22	
Fluoranthene	0.12	0.097	EPA 8270E/SIM	5-6-22	5-6-22	
Pyrene	ND	0.097	EPA 8270E/SIM	5-6-22	5-6-22	
Butylbenzylphthalate	ND	0.97	EPA 8270E	5-6-22	5-6-22	
bis(2-Ethylhexyl)adipate	ND	4.8	EPA 8270E	5-6-22	5-6-22	
3,3'-Dichlorobenzidine	ND	0.97	EPA 8270E	5-6-22	5-6-22	
Benzo[a]anthracene	ND	0.0097	EPA 8270E/SIM	5-6-22	5-6-22	
Chrysene	ND	0.0097	EPA 8270E/SIM	5-6-22	5-6-22	
bis(2-Ethylhexyl)phthalate	ND	4.8	EPA 8270E	5-6-22	5-6-22	
Di-n-octylphthalate	ND	0.97	EPA 8270E	5-6-22	5-6-22	
Benzo[b]fluoranthene	ND	0.0097	EPA 8270E/SIM	5-6-22	5-6-22	
Benzo(j,k)fluoranthene	ND	0.0097	EPA 8270E/SIM	5-6-22	5-6-22	
Benzo[a]pyrene	ND	0.0097	EPA 8270E/SIM	5-6-22	5-6-22	
Indeno[1,2,3-cd]pyrene	ND	0.0097	EPA 8270E/SIM	5-6-22	5-6-22	
Dibenz[a,h]anthracene	ND	0.0097	EPA 8270E/SIM	5-6-22	5-6-22	
Benzo[g,h,i]perylene	ND	0.0097	EPA 8270E/SIM	5-6-22	5-6-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
2-Fluorophenol	31	10 - 81				
Phenol-d6	25	10 - 86				
Nitrobenzene-d5	54	27 - 105				
2-Fluorobiphenyl	64	33 - 100				
2,4,6-Tribromophenol	80	25 - 124				
Terphenyl-d14	69	40 - 116				



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PCBs EPA 8082A

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SWS-1-220503					
Laboratory ID:	05-023-01					
Aroclor 1016	ND	0.049	EPA 8082A	5-10-22	5-11-22	
Aroclor 1221	ND	0.049	EPA 8082A	5-10-22	5-11-22	
Aroclor 1232	ND	0.049	EPA 8082A	5-10-22	5-11-22	
Aroclor 1242	ND	0.049	EPA 8082A	5-10-22	5-11-22	
Aroclor 1248	ND	0.049	EPA 8082A	5-10-22	5-11-22	
Aroclor 1254	ND	0.049	EPA 8082A	5-10-22	5-11-22	
Aroclor 1260	ND	0.049	EPA 8082A	5-10-22	5-11-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>DCB</i>	86	49-133				



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**ORGANOCHLORINE
 PESTICIDES EPA 8081B**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SWS-1-220503					
Laboratory ID:	05-023-01					
alpha-BHC	ND	0.0049	EPA 8081B	5-10-22	5-12-22	
gamma-BHC (Lindane)	ND	0.0049	EPA 8081B	5-10-22	5-12-22	
beta-BHC	ND	0.0049	EPA 8081B	5-10-22	5-12-22	
delta-BHC	ND	0.0049	EPA 8081B	5-10-22	5-12-22	
Heptachlor	ND	0.0049	EPA 8081B	5-10-22	5-12-22	Y1
Aldrin	ND	0.0020	EPA 8081B	5-10-22	5-12-22	
Heptachlor Epoxide	ND	0.0029	EPA 8081B	5-10-22	5-12-22	
gamma-Chlordane	ND	0.0049	EPA 8081B	5-10-22	5-12-22	
alpha-Chlordane	ND	0.0049	EPA 8081B	5-10-22	5-12-22	
4,4'-DDE	ND	0.0049	EPA 8081B	5-10-22	5-12-22	
Endosulfan I	ND	0.0049	EPA 8081B	5-10-22	5-12-22	
Dieldrin	ND	0.0049	EPA 8081B	5-10-22	5-12-22	
Endrin	ND	0.0049	EPA 8081B	5-10-22	5-12-22	
4,4'-DDD	ND	0.0049	EPA 8081B	5-10-22	5-12-22	
Endosulfan II	ND	0.0049	EPA 8081B	5-10-22	5-12-22	
4,4'-DDT	ND	0.0049	EPA 8081B	5-10-22	5-12-22	Y1
Endrin Aldehyde	ND	0.0049	EPA 8081B	5-10-22	5-12-22	
Methoxychlor	ND	0.0098	EPA 8081B	5-10-22	5-12-22	Y1
Endosulfan Sulfate	ND	0.0049	EPA 8081B	5-10-22	5-12-22	
Endrin Ketone	ND	0.020	EPA 8081B	5-10-22	5-12-22	Y1
Toxaphene	ND	0.049	EPA 8081B	5-10-22	5-12-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
TCMX	64	21-110				
DCB	77	42-113				



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TOTAL DISSOLVED SOLIDS
SM 2540C

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SWS-1-220503					
Laboratory ID:	05-023-01					
Total Dissolved Solids	470	13	SM 2540C	5-5-22	5-5-22	



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TOTAL METALS
EPA 200.8/200.7/7470A

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SWS-1-220503					
Laboratory ID:	05-023-01					
Arsenic	ND	3.3	EPA 200.8	5-5-22	5-5-22	
Cadmium	ND	4.4	EPA 200.8	5-5-22	5-5-22	
Chromium	ND	11	EPA 200.8	5-5-22	5-5-22	
Copper	ND	11	EPA 200.8	5-5-22	5-5-22	
Iron	6400	50	EPA 200.7	5-3-22	5-5-22	
Lead	ND	1.1	EPA 200.8	5-5-22	5-5-22	
Magnesium	27000	1000	EPA 200.7	5-3-22	5-5-22	
Manganese	1600	10	EPA 200.7	5-3-22	5-5-22	
Mercury	ND	0.025	EPA 7470A	5-4-22	5-4-22	
Nickel	ND	22	EPA 200.8	5-5-22	5-5-22	
Selenium	ND	5.6	EPA 200.8	5-5-22	5-5-22	
Zinc	ND	28	EPA 200.8	5-5-22	5-5-22	



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**TOTAL ORGANIC CARBON
SM 5310B**

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SWS-1-220503					
Laboratory ID:	05-023-01					
Total Organic Carbon	11	1.0	SM 5310B	5-12-22	5-12-22	



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AMMONIA (as Nitrogen)
SM 4500-NH₃ D

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SWS-1-220503					
Laboratory ID:	05-023-01					
Ammonia	2.0	0.050	SM 4500-NH3 D	5-16-22	5-16-22	



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 Project: 6694-002-05 T700

**GASOLINE RANGE ORGANICS
 NWTPH-Gx
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0504W1					
Gasoline	ND	100	NWTPH-Gx	5-4-22	5-4-22	
Surrogate:	Percent Recovery Control Limits					
Fluorobenzene	95	65-122				

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	05-019-01							
	ORIG	DUP						
Gasoline	ND	ND	NA	NA	NA	NA	30	
Surrogate:								
Fluorobenzene				93	94	65-122		



Date of Report: May 18, 2022
 Samples Submitted: May 3, 2022
 Laboratory Reference: 2205-023
 Project: 6694-002-05 T700

**DIESEL AND HEAVY OIL RANGE ORGANICS
 NWTPH-Dx
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0509W1					
Diesel Range Organics	ND	0.12	NWTPH-Dx	5-9-22	5-9-22	
Lube Oil Range Organics	ND	0.16	NWTPH-Dx	5-9-22	5-9-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	91	50-150				

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	05-019-07							
	ORIG	DUP						
Diesel Range Organics	1.25	0.828	NA	NA	NA	NA	41	NA M
Lube Oil Range Organics	0.499	0.380	NA	NA	NA	NA	27	NA
<i>Surrogate:</i>								
<i>o-Terphenyl</i>				85	82	50-150		



Date of Report: May 18, 2022
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**VOLATILE ORGANICS EPA 8260D
 QUALITY CONTROL**

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Matrix: Water

Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0504W1					
Dichlorodifluoromethane	ND	0.20	EPA 8260D	5-4-22	5-4-22	
Chloromethane	ND	1.0	EPA 8260D	5-4-22	5-4-22	
Vinyl Chloride	ND	0.20	EPA 8260D	5-4-22	5-4-22	
Bromomethane	ND	3.1	EPA 8260D	5-4-22	5-4-22	
Chloroethane	ND	1.0	EPA 8260D	5-4-22	5-4-22	
Trichlorofluoromethane	ND	0.20	EPA 8260D	5-4-22	5-4-22	
1,1-Dichloroethene	ND	0.20	EPA 8260D	5-4-22	5-4-22	
Acetone	ND	5.0	EPA 8260D	5-4-22	5-4-22	
Iodomethane	ND	19	EPA 8260D	5-4-22	5-4-22	
Carbon Disulfide	ND	0.20	EPA 8260D	5-4-22	5-4-22	
Methylene Chloride	ND	1.0	EPA 8260D	5-4-22	5-4-22	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	5-4-22	5-4-22	
Methyl t-Butyl Ether	ND	0.20	EPA 8260D	5-4-22	5-4-22	
1,1-Dichloroethane	ND	0.20	EPA 8260D	5-4-22	5-4-22	
Vinyl Acetate	ND	1.0	EPA 8260D	5-4-22	5-4-22	
2,2-Dichloropropane	ND	0.20	EPA 8260D	5-4-22	5-4-22	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	5-4-22	5-4-22	
2-Butanone	ND	5.0	EPA 8260D	5-4-22	5-4-22	
Bromochloromethane	ND	0.20	EPA 8260D	5-4-22	5-4-22	
Chloroform	ND	0.20	EPA 8260D	5-4-22	5-4-22	
1,1,1-Trichloroethane	ND	0.20	EPA 8260D	5-4-22	5-4-22	
Carbon Tetrachloride	ND	0.20	EPA 8260D	5-4-22	5-4-22	
1,1-Dichloropropene	ND	0.20	EPA 8260D	5-4-22	5-4-22	
Benzene	ND	0.20	EPA 8260D	5-4-22	5-4-22	
1,2-Dichloroethane	ND	0.20	EPA 8260D	5-4-22	5-4-22	
Trichloroethene	ND	0.20	EPA 8260D	5-4-22	5-4-22	
1,2-Dichloropropane	ND	0.20	EPA 8260D	5-4-22	5-4-22	
Dibromomethane	ND	0.20	EPA 8260D	5-4-22	5-4-22	
Bromodichloromethane	ND	0.20	EPA 8260D	5-4-22	5-4-22	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260D	5-4-22	5-4-22	
Methyl Isobutyl Ketone	ND	2.0	EPA 8260D	5-4-22	5-4-22	
Toluene	ND	1.0	EPA 8260D	5-4-22	5-4-22	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260D	5-4-22	5-4-22	



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**VOLATILE ORGANICS EPA 8260D
 QUALITY CONTROL**

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0504W1					
1,1,2-Trichloroethane	ND	0.20	EPA 8260D	5-4-22	5-4-22	
Tetrachloroethene	ND	0.20	EPA 8260D	5-4-22	5-4-22	
1,3-Dichloropropane	ND	0.20	EPA 8260D	5-4-22	5-4-22	
2-Hexanone	ND	2.0	EPA 8260D	5-4-22	5-4-22	
Dibromochloromethane	ND	0.20	EPA 8260D	5-4-22	5-4-22	
1,2-Dibromoethane	ND	0.20	EPA 8260D	5-4-22	5-4-22	
Chlorobenzene	ND	0.20	EPA 8260D	5-4-22	5-4-22	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260D	5-4-22	5-4-22	
Ethylbenzene	ND	0.20	EPA 8260D	5-4-22	5-4-22	
m,p-Xylene	ND	0.40	EPA 8260D	5-4-22	5-4-22	
o-Xylene	ND	0.20	EPA 8260D	5-4-22	5-4-22	
Styrene	ND	0.20	EPA 8260D	5-4-22	5-4-22	
Bromoform	ND	1.0	EPA 8260D	5-4-22	5-4-22	
Isopropylbenzene	ND	0.20	EPA 8260D	5-4-22	5-4-22	
Bromobenzene	ND	0.20	EPA 8260D	5-4-22	5-4-22	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260D	5-4-22	5-4-22	
1,2,3-Trichloropropane	ND	0.20	EPA 8260D	5-4-22	5-4-22	
n-Propylbenzene	ND	0.20	EPA 8260D	5-4-22	5-4-22	
2-Chlorotoluene	ND	0.20	EPA 8260D	5-4-22	5-4-22	
4-Chlorotoluene	ND	0.20	EPA 8260D	5-4-22	5-4-22	
1,3,5-Trimethylbenzene	ND	0.20	EPA 8260D	5-4-22	5-4-22	
tert-Butylbenzene	ND	0.20	EPA 8260D	5-4-22	5-4-22	
1,2,4-Trimethylbenzene	ND	0.20	EPA 8260D	5-4-22	5-4-22	
sec-Butylbenzene	ND	0.20	EPA 8260D	5-4-22	5-4-22	
1,3-Dichlorobenzene	ND	0.20	EPA 8260D	5-4-22	5-4-22	
p-Isopropyltoluene	ND	0.20	EPA 8260D	5-4-22	5-4-22	
1,4-Dichlorobenzene	ND	0.20	EPA 8260D	5-4-22	5-4-22	
1,2-Dichlorobenzene	ND	0.20	EPA 8260D	5-4-22	5-4-22	
n-Butylbenzene	ND	0.20	EPA 8260D	5-4-22	5-4-22	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260D	5-4-22	5-4-22	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260D	5-4-22	5-4-22	
Hexachlorobutadiene	ND	1.0	EPA 8260D	5-4-22	5-4-22	
Naphthalene	ND	1.0	EPA 8260D	5-4-22	5-4-22	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260D	5-4-22	5-4-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>104</i>	<i>75-127</i>				
<i>Toluene-d8</i>	<i>101</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>100</i>	<i>78-125</i>				



Date of Report: May 18, 2022
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 Project: 6694-002-05 T700

**VOLATILE ORGANICS EPA 8260D
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD	RPD	Flags
					Recovery	Limits	RPD	Limit		
SPIKE BLANKS										
Laboratory ID:	SB0504W1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	11.2	11.1	10.0	10.0	112	111	78-125	1	19	
Benzene	10.7	10.5	10.0	10.0	107	105	80-121	2	16	
Trichloroethene	10.4	10.3	10.0	10.0	104	103	80-122	1	18	
Toluene	10.2	10.1	10.0	10.0	102	101	80-120	1	18	
Chlorobenzene	9.65	9.54	10.0	10.0	97	95	80-120	1	17	
<i>Surrogate:</i>										
Dibromofluoromethane					104	101	75-127			
Toluene-d8					102	101	80-127			
4-Bromofluorobenzene					103	102	78-125			



Date of Report: May 18, 2022
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**SEMIVOLATILE ORGANICS EPA 8270E/SIM
 QUALITY CONTROL**

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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0506W1					
n-Nitrosodimethylamine	ND	1.0	EPA 8270E	5-6-22	5-6-22	
Pyridine	ND	1.0	EPA 8270E	5-6-22	5-6-22	
Phenol	ND	1.0	EPA 8270E	5-6-22	5-6-22	
Aniline	ND	5.0	EPA 8270E	5-6-22	5-6-22	
bis(2-Chloroethyl)ether	ND	1.0	EPA 8270E	5-6-22	5-6-22	
2-Chlorophenol	ND	1.0	EPA 8270E	5-6-22	5-6-22	
1,3-Dichlorobenzene	ND	1.0	EPA 8270E	5-6-22	5-6-22	
1,4-Dichlorobenzene	ND	1.0	EPA 8270E	5-6-22	5-6-22	
Benzyl alcohol	ND	1.0	EPA 8270E	5-6-22	5-6-22	
1,2-Dichlorobenzene	ND	1.0	EPA 8270E	5-6-22	5-6-22	
2-Methylphenol (o-Cresol)	ND	1.0	EPA 8270E	5-6-22	5-6-22	
bis(2-Chloroisopropyl)ether	ND	1.0	EPA 8270E	5-6-22	5-6-22	
(3+4)-Methylphenol (m,p-Cresol)	ND	1.0	EPA 8270E	5-6-22	5-6-22	
n-Nitroso-di-n-propylamine	ND	1.0	EPA 8270E	5-6-22	5-6-22	
Hexachloroethane	ND	1.0	EPA 8270E	5-6-22	5-6-22	
Nitrobenzene	ND	1.0	EPA 8270E	5-6-22	5-6-22	
Isophorone	ND	1.0	EPA 8270E	5-6-22	5-6-22	
2-Nitrophenol	ND	1.0	EPA 8270E	5-6-22	5-6-22	
2,4-Dimethylphenol	ND	1.0	EPA 8270E	5-6-22	5-6-22	
bis(2-Chloroethoxy)methane	ND	1.0	EPA 8270E	5-6-22	5-6-22	
2,4-Dichlorophenol	ND	1.0	EPA 8270E	5-6-22	5-6-22	
1,2,4-Trichlorobenzene	ND	1.0	EPA 8270E	5-6-22	5-6-22	
Naphthalene	ND	0.10	EPA 8270E/SIM	5-6-22	5-6-22	
4-Chloroaniline	ND	1.0	EPA 8270E	5-6-22	5-6-22	
Hexachlorobutadiene	ND	1.0	EPA 8270E	5-6-22	5-6-22	
4-Chloro-3-methylphenol	ND	1.0	EPA 8270E	5-6-22	5-6-22	
2-Methylnaphthalene	ND	0.10	EPA 8270E/SIM	5-6-22	5-6-22	
1-Methylnaphthalene	ND	0.10	EPA 8270E/SIM	5-6-22	5-6-22	
Hexachlorocyclopentadiene	ND	1.0	EPA 8270E	5-6-22	5-6-22	
2,4,6-Trichlorophenol	ND	1.0	EPA 8270E	5-6-22	5-6-22	
2,3-Dichloroaniline	ND	1.0	EPA 8270E	5-6-22	5-6-22	
2,4,5-Trichlorophenol	ND	1.0	EPA 8270E	5-6-22	5-6-22	
2-Chloronaphthalene	ND	1.0	EPA 8270E	5-6-22	5-6-22	
2-Nitroaniline	ND	1.0	EPA 8270E	5-6-22	5-6-22	
1,4-Dinitrobenzene	ND	1.0	EPA 8270E	5-6-22	5-6-22	
Dimethylphthalate	ND	5.0	EPA 8270E	5-6-22	5-6-22	
1,3-Dinitrobenzene	ND	1.0	EPA 8270E	5-6-22	5-6-22	
2,6-Dinitrotoluene	ND	1.0	EPA 8270E	5-6-22	5-6-22	
1,2-Dinitrobenzene	ND	1.0	EPA 8270E	5-6-22	5-6-22	
Acenaphthylene	ND	0.10	EPA 8270E/SIM	5-6-22	5-6-22	
3-Nitroaniline	ND	1.0	EPA 8270E	5-6-22	5-6-22	



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**SEMIVOLATILE ORGANICS EPA 8270E/SIM
 QUALITY CONTROL**

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0506W1					
2,4-Dinitrophenol	ND	6.4	EPA 8270E	5-6-22	5-6-22	
Acenaphthene	ND	0.10	EPA 8270E/SIM	5-6-22	5-6-22	
4-Nitrophenol	ND	5.0	EPA 8270E	5-6-22	5-6-22	
2,4-Dinitrotoluene	ND	1.0	EPA 8270E	5-6-22	5-6-22	
Dibenzofuran	ND	1.0	EPA 8270E	5-6-22	5-6-22	
2,3,5,6-Tetrachlorophenol	ND	1.0	EPA 8270E	5-6-22	5-6-22	
2,3,4,6-Tetrachlorophenol	ND	1.0	EPA 8270E	5-6-22	5-6-22	
Diethylphthalate	ND	1.0	EPA 8270E	5-6-22	5-6-22	
4-Chlorophenyl-phenylether	ND	1.0	EPA 8270E	5-6-22	5-6-22	
4-Nitroaniline	ND	1.0	EPA 8270E	5-6-22	5-6-22	
Fluorene	ND	0.10	EPA 8270E/SIM	5-6-22	5-6-22	
4,6-Dinitro-2-methylphenol	ND	5.0	EPA 8270E	5-6-22	5-6-22	
n-Nitrosodiphenylamine	ND	1.0	EPA 8270E	5-6-22	5-6-22	
1,2-Diphenylhydrazine	ND	1.0	EPA 8270E	5-6-22	5-6-22	
4-Bromophenyl-phenylether	ND	1.0	EPA 8270E	5-6-22	5-6-22	
Hexachlorobenzene	ND	1.0	EPA 8270E	5-6-22	5-6-22	
Pentachlorophenol	ND	7.7	EPA 8270E	5-6-22	5-6-22	
Phenanthrene	ND	0.10	EPA 8270E/SIM	5-6-22	5-6-22	
Anthracene	ND	0.10	EPA 8270E/SIM	5-6-22	5-6-22	
Carbazole	ND	1.0	EPA 8270E	5-6-22	5-6-22	
Di-n-butylphthalate	ND	5.0	EPA 8270E	5-6-22	5-6-22	
Fluoranthene	ND	0.10	EPA 8270E/SIM	5-6-22	5-6-22	
Pyrene	ND	0.10	EPA 8270E/SIM	5-6-22	5-6-22	
Butylbenzylphthalate	ND	1.0	EPA 8270E	5-6-22	5-6-22	
bis-2-Ethylhexyladipate	ND	5.0	EPA 8270E	5-6-22	5-6-22	
3,3'-Dichlorobenzidine	ND	1.0	EPA 8270E	5-6-22	5-6-22	
Benzo[a]anthracene	ND	0.010	EPA 8270E/SIM	5-6-22	5-6-22	
Chrysene	ND	0.010	EPA 8270E/SIM	5-6-22	5-6-22	
bis(2-Ethylhexyl)phthalate	ND	5.0	EPA 8270E	5-6-22	5-6-22	
Di-n-octylphthalate	ND	1.0	EPA 8270E	5-6-22	5-6-22	
Benzo[b]fluoranthene	ND	0.010	EPA 8270E/SIM	5-6-22	5-6-22	
Benzo(j,k)fluoranthene	ND	0.010	EPA 8270E/SIM	5-6-22	5-6-22	
Benzo[a]pyrene	ND	0.010	EPA 8270E/SIM	5-6-22	5-6-22	
Indeno[1,2,3-cd]pyrene	ND	0.010	EPA 8270E/SIM	5-6-22	5-6-22	
Dibenz[a,h]anthracene	ND	0.010	EPA 8270E/SIM	5-6-22	5-6-22	
Benzo[g,h,i]perylene	ND	0.010	EPA 8270E/SIM	5-6-22	5-6-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
2-Fluorophenol	42	10 - 81				
Phenol-d6	32	10 - 86				
Nitrobenzene-d5	68	27 - 105				
2-Fluorobiphenyl	69	33 - 100				
2,4,6-Tribromophenol	90	25 - 124				
Terphenyl-d14	78	40 - 116				



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**SEMIVOLATILE ORGANICS EPA 8270E/SIM
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB0506W1									
	SB	SBD	SB	SBD	SB	SBD				
Phenol	13.0	11.1	40.0	40.0	33	28	16 - 53	16	33	
2-Chlorophenol	24.8	20.9	40.0	40.0	62	52	42 - 90	17	34	
1,4-Dichlorobenzene	13.8	12.2	20.0	20.0	69	61	32 - 83	12	34	
n-Nitroso-di-n-propylamine	15.4	13.4	20.0	20.0	77	67	41 - 99	14	32	
1,2,4-Trichlorobenzene	14.4	12.9	20.0	20.0	72	65	35 - 91	11	35	
4-Chloro-3-methylphenol	28.9	24.8	40.0	40.0	72	62	55 - 98	15	22	
Acenaphthene	15.8	13.9	20.0	20.0	79	70	40 - 96	13	23	
4-Nitrophenol	19.6	17.8	40.0	40.0	49	45	20 - 77	10	28	
2,4-Dinitrotoluene	16.2	14.6	20.0	20.0	81	73	50 - 102	10	22	
Pentachlorophenol	43.5	36.4	40.0	40.0	109	91	46 - 129	18	26	
Pyrene	15.9	14.6	20.0	20.0	80	73	52 - 105	9	20	
<i>Surrogate:</i>										
2-Fluorophenol					34	29	10 - 81			
Phenol-d6					29	24	10 - 86			
Nitrobenzene-d5					62	57	27 - 105			
2-Fluorobiphenyl					70	63	33 - 100			
2,4,6-Tribromophenol					84	75	25 - 124			
Terphenyl-d14					68	63	40 - 116			



Date of Report: May 18, 2022
 Samples Submitted: May 3, 2022
 Laboratory Reference: 2205-023
 Project: 6694-002-05 T700

**PCBs EPA 8082A
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0510W1					
Aroclor 1016	ND	0.050	EPA 8082A	5-10-22	5-11-22	
Aroclor 1221	ND	0.050	EPA 8082A	5-10-22	5-11-22	
Aroclor 1232	ND	0.050	EPA 8082A	5-10-22	5-11-22	
Aroclor 1242	ND	0.050	EPA 8082A	5-10-22	5-11-22	
Aroclor 1248	ND	0.050	EPA 8082A	5-10-22	5-11-22	
Aroclor 1254	ND	0.050	EPA 8082A	5-10-22	5-11-22	
Aroclor 1260	ND	0.050	EPA 8082A	5-10-22	5-11-22	
Surrogate:	Percent Recovery	Control Limits				
DCB	98	49-133				

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS											
Laboratory ID:	SB0510W1										
	SB	SBD	SB	SBD		SB	SBD				
Aroclor 1260	0.470	0.501	0.500	0.500	N/A	94	100	67-120	6	15	
Surrogate:											
DCB						95	102	49-133			



Date of Report: May 18, 2022
 Samples Submitted: May 3, 2022
 Laboratory Reference: 2205-023
 Project: 6694-002-05 T700

**ORGANOCHLORINE
 PESTICIDES EPA 8081B
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0510W1					
alpha-BHC	ND	0.0050	EPA 8081B	5-10-22	5-12-22	
gamma-BHC (Lindane)	ND	0.0050	EPA 8081B	5-10-22	5-12-22	
beta-BHC	ND	0.0050	EPA 8081B	5-10-22	5-12-22	
delta-BHC	ND	0.0050	EPA 8081B	5-10-22	5-12-22	
Heptachlor	ND	0.0050	EPA 8081B	5-10-22	5-12-22	Y1
Aldrin	ND	0.0020	EPA 8081B	5-10-22	5-12-22	
Heptachlor Epoxide	ND	0.0030	EPA 8081B	5-10-22	5-12-22	
gamma-Chlordane	ND	0.0050	EPA 8081B	5-10-22	5-12-22	
alpha-Chlordane	ND	0.0050	EPA 8081B	5-10-22	5-12-22	
4,4'-DDE	ND	0.0050	EPA 8081B	5-10-22	5-12-22	
Endosulfan I	ND	0.0050	EPA 8081B	5-10-22	5-12-22	
Dieldrin	ND	0.0050	EPA 8081B	5-10-22	5-12-22	
Endrin	ND	0.0050	EPA 8081B	5-10-22	5-12-22	
4,4'-DDD	ND	0.0050	EPA 8081B	5-10-22	5-12-22	
Endosulfan II	ND	0.0050	EPA 8081B	5-10-22	5-12-22	
4,4'-DDT	ND	0.0050	EPA 8081B	5-10-22	5-12-22	Y1
Endrin Aldehyde	ND	0.0050	EPA 8081B	5-10-22	5-12-22	
Methoxychlor	ND	0.010	EPA 8081B	5-10-22	5-12-22	Y1
Endosulfan Sulfate	ND	0.0050	EPA 8081B	5-10-22	5-12-22	
Endrin Ketone	ND	0.020	EPA 8081B	5-10-22	5-12-22	Y1
Toxaphene	ND	0.050	EPA 8081B	5-10-22	5-12-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
TCMX	78	21-110				
DCB	94	42-113				



Date of Report: May 18, 2022
 Samples Submitted: May 3, 2022
 Laboratory Reference: 2205-023
 Project: 6694-002-05 T700

**ORGANOCHLORINE
 PESTICIDES EPA 8081B
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS											
Laboratory ID:	SB0510W2										
	SB	SBD	SB	SBD		SB	SBD				
alpha-BHC	0.0814	0.0764	0.100	0.100	N/A	81	76	50-113	6	19	
gamma-BHC (Lindane)	0.0839	0.0815	0.100	0.100	N/A	84	82	50-114	3	15	
beta-BHC	0.0798	0.0791	0.100	0.100	N/A	80	79	45-110	1	15	
delta-BHC	0.0847	0.0832	0.100	0.100	N/A	85	83	40-113	2	15	
Heptachlor	0.0661	0.0662	0.100	0.100	N/A	66	66	41-107	0	16	Y1
Aldrin	0.0587	0.0552	0.100	0.100	N/A	59	55	39-105	6	15	
Heptachlor Epoxide	0.0812	0.0825	0.100	0.100	N/A	81	82	53-106	2	15	
gamma-Chlordane	0.0702	0.0669	0.100	0.100	N/A	70	67	46-110	5	15	
alpha-Chlordane	0.0736	0.0697	0.100	0.100	N/A	74	70	46-110	5	15	
4,4'-DDE	0.0780	0.0747	0.100	0.100	N/A	78	75	39-129	4	15	
Endosulfan I	0.0721	0.0688	0.100	0.100	N/A	72	69	51-109	5	15	
Dieldrin	0.0856	0.0834	0.100	0.100	N/A	86	83	55-112	3	15	
Endrin	0.0908	0.0930	0.100	0.100	N/A	91	93	54-119	2	16	
4,4'-DDD	0.0805	0.0851	0.100	0.100	N/A	81	85	52-142	6	15	
Endosulfan II	0.0828	0.0815	0.100	0.100	N/A	83	81	49-115	2	15	
4,4'-DDT	0.0819	0.0893	0.100	0.100	N/A	82	89	52-136	9	15	Y1
Endrin Aldehyde	0.0836	0.0805	0.100	0.100	N/A	84	81	39-128	4	15	
Methoxychlor	0.0851	0.101	0.100	0.100	N/A	85	101	56-156	17	19	Y1
Endosulfan Sulfate	0.0837	0.0826	0.100	0.100	N/A	84	83	44-120	1	15	
Endrin Ketone	0.0873	0.0927	0.100	0.100	N/A	87	93	45-122	6	15	Y1
Surrogate:											
TCMX						54	57	21-110			
DCB						82	83	42-113			



Date of Report: May 18, 2022
 Samples Submitted: May 3, 2022
 Laboratory Reference: 2205-023
 Project: 6694-002-05 T700

**TOTAL DISSOLVED SOLIDS
 SM 2540C
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0505W1					
Total Dissolved Solids	ND	13	SM 2540C	5-5-22	5-5-22	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	05-024-01							
	ORIG	DUP						
Total Dissolved Solids	288	272	NA	NA	NA	6	23	

SPIKE BLANK								
Laboratory ID:	SB0505W1							
	SB	SB		SB				
Total Dissolved Solids	471	500	NA	94	89-110	NA	NA	



Date of Report: May 18, 2022
 Samples Submitted: May 3, 2022
 Laboratory Reference: 2205-023
 Project: 6694-002-05 T700

TOTAL METALS
EPA 200.8/200.7/7470A
QUALITY CONTROL

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0505WH1					
Iron	ND	50	EPA 200.7	5-5-22	5-5-22	
Magnesium	ND	1000	EPA 200.7	5-5-22	5-5-22	
Manganese	ND	10	EPA 200.7	5-5-22	5-5-22	
Laboratory ID:	MB0505WM1					
Arsenic	ND	3.3	EPA 200.8	5-5-22	5-5-22	
Cadmium	ND	4.4	EPA 200.8	5-5-22	5-5-22	
Chromium	ND	11	EPA 200.8	5-5-22	5-5-22	
Copper	ND	11	EPA 200.8	5-5-22	5-5-22	
Lead	ND	1.1	EPA 200.8	5-5-22	5-5-22	
Nickel	ND	22	EPA 200.8	5-5-22	5-5-22	
Selenium	ND	5.6	EPA 200.8	5-5-22	5-5-22	
Zinc	ND	28	EPA 200.8	5-5-22	5-5-22	
Laboratory ID:	MB0504W1					
Mercury	ND	0.025	EPA 7470A	5-4-22	5-4-22	



Date of Report: May 18, 2022
 Samples Submitted: May 3, 2022
 Laboratory Reference: 2205-023
 Project: 6694-002-05 T700

TOTAL METALS
EPA 200.8/200.7/7470A
QUALITY CONTROL

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result		Spike Level		Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE										
Laboratory ID:	04-334-01									
	ORIG	DUP								
Iron	208	239	NA	NA		NA	NA	14	20	
Magnesium	5900	6060	NA	NA		NA	NA	3	20	
Manganese	22.2	23.3	NA	NA		NA	NA	5	20	
Laboratory ID:	04-309-01									
Arsenic	ND	ND	NA	NA		NA	NA	NA	20	
Cadmium	ND	ND	NA	NA		NA	NA	NA	20	
Chromium	ND	ND	NA	NA		NA	NA	NA	20	
Copper	ND	ND	NA	NA		NA	NA	NA	20	
Lead	ND	ND	NA	NA		NA	NA	NA	20	
Nickel	ND	ND	NA	NA		NA	NA	NA	20	
Selenium	ND	ND	NA	NA		NA	NA	NA	20	
Zinc	ND	ND	NA	NA		NA	NA	NA	20	
Laboratory ID:	05-023-01									
Mercury	ND	ND	NA	NA		NA	NA	NA	20	
MATRIX SPIKES										
Laboratory ID:	04-334-01									
	MS	MSD	MS	MSD		MS	MSD			
Iron	18100	17900	20000	20000	208	90	89	75-125	1	20
Magnesium	25000	25100	20000	20000	5900	96	96	75-125	0	20
Manganese	469	464	500	500	22.2	89	88	75-125	1	20
Laboratory ID:	04-309-01									
Arsenic	114	113	111	111	ND	103	102	75-125	2	20
Cadmium	108	108	111	111	ND	97	97	75-125	0	20
Chromium	111	107	111	111	ND	100	97	75-125	3	20
Copper	110	106	111	111	ND	99	96	75-125	4	20
Lead	108	107	111	111	ND	97	96	75-125	1	20
Nickel	108	104	111	111	ND	98	94	75-125	4	20
Selenium	116	113	111	111	ND	105	102	75-125	3	20
Zinc	113	111	111	111	ND	102	100	75-125	2	20
Laboratory ID:	05-023-01									
Mercury	5.80	5.80	6.25	6.25	ND	93	93	75-125	0	20



Date of Report: May 18, 2022
 Samples Submitted: May 3, 2022
 Laboratory Reference: 2205-023
 Project: 6694-002-05 T700

**TOTAL ORGANIC CARBON
 SM 5310B
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0512W1					
Total Organic Carbon	ND	1.0	SM 5310B	5-12-22	5-12-22	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	05-075-03							
	ORIG	DUP						
Total Organic Carbon	ND	ND	NA	NA	NA	NA	12	

MATRIX SPIKE								
Laboratory ID:	05-075-03							
	MS	MS		MS				
Total Organic Carbon	11.1	10.0	ND	111	80-120	NA	NA	

SPIKE BLANK								
Laboratory ID:	SB0512W1							
	SB	SB		SB				
Total Organic Carbon	10.9	10.0	NA	109	80-118	NA	NA	



Date of Report: May 18, 2022
 Samples Submitted: May 3, 2022
 Laboratory Reference: 2205-023
 Project: 6694-002-05 T700

AMMONIA (as Nitrogen)
SM 4500-NH₃ D
QUALITY CONTROL

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0516W1					
Ammonia	ND	0.050	SM 4500-NH3 D	5-16-22	5-16-22	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	05-024-01							
	ORIG	DUP						
Ammonia	0.101	0.0940	NA	NA	NA	NA	7	15

MATRIX SPIKE								
Laboratory ID:	05-024-01							
	MS	MS		MS				
Ammonia	4.73	5.00	0.101	93	87-110	NA	NA	

SPIKE BLANK								
Laboratory ID:	SB0516W1							
	SB	SB		SB				
Ammonia	4.57	5.00	NA	91	88-110	NA	NA	





Data Qualifiers and Abbreviations

- A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.
 - B - The analyte indicated was also found in the blank sample.
 - C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.
 - E - The value reported exceeds the quantitation range and is an estimate.
 - F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.
 - H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.
 - I - Compound recovery is outside of the control limits.
 - J - The value reported was below the practical quantitation limit. The value is an estimate.
 - K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.
 - L - The RPD is outside of the control limits.
 - M - Hydrocarbons in the gasoline range are impacting the diesel range result.
 - M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.
 - N - Hydrocarbons in the lube oil range are impacting the diesel range result.
 - N1 - Hydrocarbons in diesel range are impacting lube oil range results.
 - O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.
 - P - The RPD of the detected concentrations between the two columns is greater than 40.
 - Q - Surrogate recovery is outside of the control limits.
 - S - Surrogate recovery data is not available due to the necessary dilution of the sample.
 - T - The sample chromatogram is not similar to a typical _____.
 - U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
 - U1 - The practical quantitation limit is elevated due to interferences present in the sample.
 - V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.
 - W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.
 - X - Sample extract treated with a mercury cleanup procedure.
 - X1 - Sample extract treated with a sulfuric acid/silica gel cleanup procedure.
 - Y - The calibration verification for this analyte exceeded the 20% drift specified in methods 8260 & 8270, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.
 - Z -
- ND - Not Detected at PQL
 PQL - Practical Quantitation Limit
 RPD - Relative Percent Difference





OnSite Environmental Inc

David Baumeister
14648 NE 95th Street
Redmond, WA 98052

RE: 05-023

Work Order Number: 2205108

May 18, 2022

Attention David Baumeister:

Fremont Analytical, Inc. received 1 sample(s) on 5/4/2022 for the analyses presented in the following report.

Herbicides by EPA Method 8151A (GC/MS)

This report consists of the following:

- Case Narrative
- Analytical Results
- Applicable Quality Control Summary Reports
- Chain of Custody

All analyses were performed consistent with the Quality Assurance program of Fremont Analytical, Inc. Please contact the laboratory if you should have any questions about the results.

Thank you for using Fremont Analytical.

Sincerely,

Brianna Barnes
Project Manager



CLIENT: OnSite Environmental Inc
Project: 05-023
Work Order: 2205108

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received
2205108-001	SWS-1-220503	05/03/2022 1:30 PM	05/04/2022 2:18 PM

DRAFT

Note: If no "Time Collected" is supplied, a default of 12:00AM is assigned

CLIENT: OnSite Environmental Inc
Project: 05-023

I. SAMPLE RECEIPT:

Samples receipt information is recorded on the attached Sample Receipt Checklist.

II. GENERAL REPORTING COMMENTS:

Results are reported on a wet weight basis unless dry-weight correction is denoted in the units field on the analytical report ("mg/kg-dry" or "ug/kg-dry").

Matrix Spike (MS) and MS Duplicate (MSD) samples are tested from an analytical batch of "like" matrix to check for possible matrix effect. The MS and MSD will provide site specific matrix data only for those samples which are spiked by the laboratory. The sample chosen for spike purposes may or may not have been a sample submitted in this sample delivery group. The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The LCS and the MB are processed with the samples and the MS/MSD to ensure method criteria are achieved throughout the entire analytical process.

III. ANALYSES AND EXCEPTIONS:

Exceptions associated with this report will be footnoted in the analytical results page(s) or the quality control summary page(s) and/or noted below.

DRAFT

Qualifiers:

- * - Flagged value is not within established control limits
- B - Analyte detected in the associated Method Blank
- D - Dilution was required
- E - Value above quantitation range
- H - Holding times for preparation or analysis exceeded
- I - Analyte with an internal standard that does not meet established acceptance criteria
- J - Analyte detected below Reporting Limit
- N - Tentatively Identified Compound (TIC)
- Q - Analyte with an initial or continuing calibration that does not meet established acceptance criteria
- S - Spike recovery outside accepted recovery limits
- ND - Not detected at the Reporting Limit
- R - High relative percent difference observed

Acronyms:

- %Rec - Percent Recovery
- CCB - Continued Calibration Blank
- CCV - Continued Calibration Verification
- DF - Dilution Factor
- DUP - Sample Duplicate
- HEM - Hexane Extractable Material
- ICV - Initial Calibration Verification
- LCS/LCSD - Laboratory Control Sample / Laboratory Control Sample Duplicate
- MCL - Maximum Contaminant Level
- MB or MBLANK - Method Blank
- MDL - Method Detection Limit
- MS/MSD - Matrix Spike / Matrix Spike Duplicate
- PDS - Post Digestion Spike
- Ref Val - Reference Value
- REP - Sample Replicate
- RL - Reporting Limit
- RPD - Relative Percent Difference
- SD - Serial Dilution
- SGT - Silica Gel Treatment
- SPK - Spike
- Surr - Surrogate



Client: OnSite Environmental Inc

Collection Date: 5/3/2022 1:30:00 PM

Project: 05-023

Lab ID: 2205108-001

Matrix: Water

Client Sample ID: SWS-1-220503

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Herbicides by EPA Method 8151A (GC/MS)

Batch ID: 36363

Analyst: OK

Dicamba	ND	0.999		µg/L	1	5/13/2022 3:20:13 PM
2,4-D	ND	0.999		µg/L	1	5/13/2022 3:20:13 PM
2,4-DP	ND	0.999		µg/L	1	5/13/2022 3:20:13 PM
2,4,5-TP (Silvex)	ND	0.999		µg/L	1	5/13/2022 3:20:13 PM
2,4,5-T	ND	0.999		µg/L	1	5/13/2022 3:20:13 PM
Dinoseb	ND	0.999		µg/L	1	5/13/2022 3:20:13 PM
Dalapon	ND	2.00		µg/L	1	5/13/2022 3:20:13 PM
2,4-DB	ND	0.999		µg/L	1	5/13/2022 3:20:13 PM
MCPP	ND	4.99		µg/L	1	5/13/2022 3:20:13 PM
MCPA	ND	4.99		µg/L	1	5/13/2022 3:20:13 PM
Picloram	ND	0.999		µg/L	1	5/13/2022 3:20:13 PM
Bentazon	ND	0.999		µg/L	1	5/13/2022 3:20:13 PM
Chloramben	ND	0.999		µg/L	1	5/13/2022 3:20:13 PM
Acifluorfen	ND	4.99		µg/L	1	5/13/2022 3:20:13 PM
3,5-Dichlorobenzoic acid	ND	0.999		µg/L	1	5/13/2022 3:20:13 PM
4-Nitrophenol	ND	0.999		µg/L	1	5/13/2022 3:20:13 PM
Dacthal (DCPA)	ND	2.00		µg/L	1	5/13/2022 3:20:13 PM
Surr: 2,4-Dichlorophenylacetic acid	101	65.7 - 136		%Rec	1	5/13/2022 3:20:13 PM



Work Order: 2205108
CLIENT: OnSite Environmental Inc
Project: 05-023

QC SUMMARY REPORT
Herbicides by EPA Method 8151A (GC/MS)

Sample ID: MB-36363	SampType: MBLK	Units: µg/L	Prep Date: 5/9/2022	RunNo: 75476							
Client ID: MBLKW	Batch ID: 36363		Analysis Date: 5/13/2022	SeqNo: 1548821							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Dicamba	ND	0.996									
2,4-D	ND	0.996									
2,4-DP	ND	0.996									
2,4,5-TP (Silvex)	ND	0.996									
2,4,5-T	ND	0.996									
Dinoseb	ND	0.996									
Dalapon	ND	1.99									
2,4-DB	ND	0.996									
MCPD	ND	4.98									
MCPA	ND	4.98									
Picloram	ND	0.996									
Bentazon	ND	0.996									
Chloramben	ND	0.996									
Acifluorfen	ND	4.98									
3,5-Dichlorobenzoic acid	ND	0.996									
4-Nitrophenol	ND	0.996									
Dacthal (DCPA)	ND	1.99									
Surr: 2,4-Dichlorophenylacetic acid	18.5		19.91		93.0	65.7	136				

Sample ID: LCS-36363	SampType: LCS	Units: µg/L	Prep Date: 5/9/2022	RunNo: 75476							
Client ID: LCSW	Batch ID: 36363		Analysis Date: 5/13/2022	SeqNo: 1548822							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Dicamba	4.04	0.993	3.974	0	102	16.6	148				
2,4-D	4.77	0.993	3.974	0	120	50.4	150				
2,4-DP	4.33	0.993	3.974	0	109	53	135				
2,4,5-TP (Silvex)	4.52	0.993	3.974	0	114	53.6	140				
2,4,5-T	4.49	0.993	3.974	0	113	50	141				
Dinoseb	3.69	0.993	3.974	0	92.8	5	119				
Dalapon	11.7	1.99	19.87	0	59.0	5.65	97.2				

Work Order: 2205108
 CLIENT: OnSite Environmental Inc
 Project: 05-023

QC SUMMARY REPORT
Herbicides by EPA Method 8151A (GC/MS)

Sample ID: LCS-36363	SampType: LCS	Units: µg/L			Prep Date: 5/9/2022	RunNo: 75476					
Client ID: LCSW	Batch ID: 36363				Analysis Date: 5/13/2022	SeqNo: 1548822					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
2,4-DB	4.47	0.993	3.974	0	112	54.9	141				
MCPP	17.2	4.97	19.87	0	86.6	28.7	166				
MCPA	17.6	4.97	19.87	0	88.5	20.7	176				
Picloram	3.56	0.993	3.974	0	89.5	9.72	120				
Bentazon	4.42	0.993	3.974	0	111	41.2	141				
Chloramben	2.39	0.993	3.974	0	60.1	5	109				
Acifluorfen	3.95	3.87	3.974	0	99.3	7.62	139				
3,5-Dichlorobenzoic acid	4.07	0.993	3.974	0	102	52.4	120				
4-Nitrophenol	0.821	0.497	3.974	0	20.6	5	107				
Dacthal (DCPA)	2.08	1.99	3.974	0	52.4	5	65.4				
Surr: 2,4-Dichlorophenylacetic acid	19.6		19.87		98.6	65.7	136				

Sample ID: LCS-36363	SampType: LCS	Units: µg/L			Prep Date: 5/9/2022	RunNo: 75476					
Client ID: LCSW02	Batch ID: 36363				Analysis Date: 5/13/2022	SeqNo: 1548822					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dicamba	4.41	0.996	3.984	0	111	16.6	148	4.043	8.63	30	
2,4-D	5.41	0.996	3.984	0	136	50.4	150	4.765	12.7	30	
2,4-DP	4.86	0.996	3.984	0	122	53	135	4.327	11.6	30	
2,4,5-TP (Silvex)	5.18	0.996	3.984	0	130	53.6	140	4.515	13.8	30	
2,4,5-T	5.19	0.996	3.984	0	130	50	141	4.485	14.5	30	
Dinoseb	4.12	0.996	3.984	0	103	5	119	3.689	11.1	30	
Dalapon	11.5	1.99	19.92	0	57.6	5.65	97.2	11.72	2.13	30	
2,4-DB	5.12	0.996	3.984	0	128	54.9	141	4.466	13.6	30	
MCPP	18.7	4.98	19.92	0	93.7	28.7	166	17.21	8.10	30	
MCPA	19.1	4.98	19.92	0	96.1	20.7	176	17.59	8.40	30	
Picloram	4.21	0.996	3.984	0	106	9.72	120	3.556	16.9	30	
Bentazon	5.00	0.996	3.984	0	125	41.2	141	4.424	12.2	30	
Chloramben	3.30	0.996	3.984	0	82.7	5	109	2.388	31.9	30	
Acifluorfen	4.36	3.98	3.984	0	109	7.62	139	3.947	9.91	30	

Work Order: 2205108
 CLIENT: OnSite Environmental Inc
 Project: 05-023

QC SUMMARY REPORT
Herbicides by EPA Method 8151A (GC/MS)

Sample ID: LCS D-36363	SampType: LCS D	Units: µg/L	Prep Date: 5/9/2022	RunNo: 75476							
Client ID: LCS W02	Batch ID: 36363		Analysis Date: 5/13/2022	SeqNo: 1548823							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
3,5-Dichlorobenzoic acid	4.35	0.996	3.984	0	109	52.4	120	4.068	6.78	30	
4-Nitrophenol	2.34	0.996	3.984	0	58.7	5	107	0.8205	96.1	30	R
Dacthal (DCPA)	1.93	1.49	3.984	0	48.5	5	65.4	2.083	7.42	30	
Surr: 2,4-Dichlorophenylacetic acid	21.0		19.92		105	65.7	136		0		

NOTES:

R - High RPD observed, spike recovery is within range.

Sample ID: 2205170-001AMS	SampType: MS	Units: µg/L	Prep Date: 5/9/2022	RunNo: 75476							
Client ID: BATCH	Batch ID: 36363		Analysis Date: 5/13/2022	SeqNo: 1548828							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dicamba	4.62	1.00	4.003	0	115	31	142				
2,4-D	5.65	1.00	4.003	0	141	50.3	149				
2,4-DP	5.05	1.00	4.003	0	126	49.9	143				
2,4,5-TP (Silvex)	5.42	1.00	4.003	0	135	47.7	141				
2,4,5-T	5.47	1.00	4.003	0	137	34.4	139				
Dinoseb	5.07	1.00	4.003	0	127	27.3	117				S
Dalapon	11.3	2.00	20.02	0	56.6	14.2	113				
2,4-DB	5.50	1.00	4.003	0	137	31.3	147				
MCPPP	19.4	5.00	20.02	0	97.1	30.5	177				
MCPA	19.9	5.00	20.02	0	99.2	36.8	163				
Picloram	4.32	1.00	4.003	0	108	18.8	115				
Bentazon	5.44	1.00	4.003	0	136	11.9	176				
Chloramben	3.40	1.00	4.003	0	84.9	5	112				
Acifluorfen	5.12	5.00	4.003	0	128	28.1	146				
3,5-Dichlorobenzoic acid	4.66	1.00	4.003	0	117	36.2	146				
4-Nitrophenol	1.39	1.00	4.003	0	34.6	5	116				
Dacthal (DCPA)	1.63	1.50	4.003	0	40.6	5	84.6				
Surr: 2,4-Dichlorophenylacetic acid	21.7		20.02		109	65.7	136				

NOTES:

S - Outlying spike recoveries were associated with this sample (high bias, non-detect).



Work Order: 2205108
CLIENT: OnSite Environmental Inc
Project: 05-023

QC SUMMARY REPORT
Herbicides by EPA Method 8151A (GC/MS)

DRAFT

Client Name: ONSITE
 Logged by: Matt Langston

Work Order Number: 2205108
 Date Received: 5/4/2022 2:18:00 PM

Chain of Custody

1. Is Chain of Custody complete? Yes No Not Present
 2. How was the sample delivered? Client

Log In

3. Coolers are present? Yes No NA
 4. Shipping container/cooler in good condition? Yes No
 5. Custody Seals present on shipping container/cooler?
 (Refer to comments for Custody Seals not intact) Yes No Not Present
 6. Was an attempt made to cool the samples? Yes No NA
 7. Were all items received at a temperature of >2°C to 6°C * Yes No NA
 8. Sample(s) in proper container(s)? Yes No
 9. Sufficient sample volume for indicated test(s)? Yes No
 10. Are samples properly preserved? Yes No
 11. Was preservative added to bottles? Yes No NA
 12. Is there headspace in the VOA vials? Yes No NA
 13. Did all samples containers arrive in good condition(unbroken)? Yes No
 14. Does paperwork match bottle labels? Yes No
 15. Are matrices correctly identified on Chain of Custody? Yes No
 16. Is it clear what analyses were requested? Yes No
 17. Were all holding times able to be met? Yes No

Special Handling (if applicable)

18. Was client notified of all discrepancies with this order? Yes No NA

Person Notified:	<input type="text"/>	Date:	<input type="text"/>
By Whom:	<input type="text"/>	Via:	<input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:	<input type="text"/>		
Client Instructions:	<input type="text"/>		

19. Additional remarks:

Item Information

Item #	Temp °C
Sample	5.9

* Note: DoD/ELAP and TNI require items to be received at 4°C +/- 2°C



14648 NE 95th Street, Redmond, WA 98052 · (425) 883-3881

Laboratory: Fremont Analytical

Attention: Chelsea Ward

3600 Fremont Avenue N, Seattle, WA 98103

Phone Number: (206) 352-3790

Turnaround Request

1 Day 2 Day 3 Day

Standard

Other: _____

Laboratory Reference #: 05-023

2205108

Project Manager: David Baumeister

email: dbaumeister@onsite-env.com

Project Number: 6694-002-05

Project Name: _____

Page 11 of 11

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	# of Cont.	Requested Analyses
	SWS-1-220503	5/3/22	13:30	W	1	Chlorinated Acid Herbicides 8151
Signature		Company		Date	Time	Comments/Special Instructions
Relinquished by: <i>Nicole [Signature]</i>		OSE		5/1/22	12:27	
Received by: <i>[Signature]</i>		ALPHA		5/4/22	12:27	
Relinquished by: <i>[Signature]</i>		ALPHA		5/4/22	1:57	
Received by: <i>Justine Pogue</i>		FAI		5/4/22	14:17	
Relinquished by:						
Received by:						

EDDs

Chain of Custody

Company: GEI

Project Number: 66901-002-05

Project Name: Go East

Project Manager: Garrett Leque

Sampled by: PL

Turnaround Request (in working days)

(Check One)

Same Day 1 Day

2 Days 3 Days

Standard (7 Days)

_____ (other)

Laboratory Number: 05-023

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX (802) <input type="checkbox"/> 8260 <input type="checkbox"/>	NWTPH-Gx	NWTPH-Dx (Acid / SG Clean-up) <input type="checkbox"/>	Volatiles 8260	Halogenated Volatiles 8260	EDB EPA 8011 (Waters Only)	Semivolatiles 8270/SIM (with low-level PAHs)	PAHs 8270/SIM (low-level)	PCBs 8082	Organochlorine Pesticides 8081	Organophosphorus Pesticides 8270/SIM	Chlorinated Acid Herbicides 8151	Total PCRA Metals	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664	TPS	Total Metals *	TCC	NH3	% Moisture	
1	SWS-1-220503	5/3/22	1330	W	17			X	X	X			X		X	X	X	X					X	X	X	X		

	Signature	Company	Date	Time	Comments/Special Instructions
Relinquished		GEI	5/3/22	1510	* - As, Cd, Cr, Cu, Fe, Pb, Mn, Hg, Ni, Se, Zn, Mg _{NO₃}
Received		OSE	5/2/22	1510	
Relinquished					
Received					
Relinquished					
Received					
Reviewed/Date		Reviewed/Date			Data Package: Standard <input type="checkbox"/> Level III <input type="checkbox"/> Level IV <input type="checkbox"/> Chromatograms with final report <input type="checkbox"/> Electronic Data Deliverables (EDDs) <input type="checkbox"/>



14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

May 18, 2022

Garrett Leque
GeoEngineers, Inc.
554 West Bakerview Road
Bellingham, WA 98226

Re: Analytical Data for Project 6694-002-05 T700
Laboratory Reference No. 2205-024

Dear Garrett:

Enclosed are the analytical results and associated quality control data for samples submitted on May 3, 2022.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

A handwritten signature in black ink, appearing to read "DB", with a long horizontal stroke extending to the right.

David Baumeister
Project Manager

Enclosures



OnSite Environmental, Inc. 14648 NE 95th Street, Redmond, WA 98052 (425) 883-3881

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: May 18, 2022
Samples Submitted: May 3, 2022
Laboratory Reference: 2205-024
Project: 6694-002-05 T700

Case Narrative

Samples were collected on May 3, 2022 and received by the laboratory on May 3, 2022. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.



Date of Report: May 18, 2022
Samples Submitted: May 3, 2022
Laboratory Reference: 2205-024
Project: 6694-002-05 T700

ANALYTICAL REPORT FOR SAMPLES

Client ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
MW-6-220503	05-024-01	Water	5-3-22	5-3-22	

DRAFT



Date of Report: May 18, 2022
 Samples Submitted: May 3, 2022
 Laboratory Reference: 2205-024
 Project: 6694-002-05 T700

GASOLINE RANGE ORGANICS
NWTPH-Gx

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-6-220503					
Laboratory ID:	05-024-01					
Gasoline	ND	100	NWTPH-Gx	5-4-22	5-4-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
Fluorobenzene	92	65-122				



Date of Report: May 18, 2022
 Samples Submitted: May 3, 2022
 Laboratory Reference: 2205-024
 Project: 6694-002-05 T700

DIESEL AND HEAVY OIL RANGE ORGANICS
NWTPH-Dx

Matrix: Water
 Units: mg/L (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-6-220503					
Laboratory ID:	05-024-01					
Diesel Range Organics	ND	0.20	NWTPH-Dx	5-9-22	5-9-22	
Lube Oil Range Organics	ND	0.20	NWTPH-Dx	5-9-22	5-9-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	86	50-150				



Date of Report: May 18, 2022
 Samples Submitted: May 3, 2022
 Laboratory Reference: 2205-024
 Project: 6694-002-05 T700

VOLATILE ORGANICS EPA 8260D
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-6-220503					
Laboratory ID:	05-024-01					
Dichlorodifluoromethane	ND	0.20	EPA 8260D	5-4-22	5-4-22	
Chloromethane	ND	1.0	EPA 8260D	5-4-22	5-4-22	
Vinyl Chloride	ND	0.20	EPA 8260D	5-4-22	5-4-22	
Bromomethane	ND	3.1	EPA 8260D	5-4-22	5-4-22	
Chloroethane	ND	1.0	EPA 8260D	5-4-22	5-4-22	
Trichlorofluoromethane	ND	0.20	EPA 8260D	5-4-22	5-4-22	
1,1-Dichloroethene	ND	0.20	EPA 8260D	5-4-22	5-4-22	
Acetone	ND	5.0	EPA 8260D	5-4-22	5-4-22	
Iodomethane	ND	19	EPA 8260D	5-4-22	5-4-22	
Carbon Disulfide	ND	0.20	EPA 8260D	5-4-22	5-4-22	
Methylene Chloride	ND	1.0	EPA 8260D	5-4-22	5-4-22	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	5-4-22	5-4-22	
Methyl t-Butyl Ether	ND	0.20	EPA 8260D	5-4-22	5-4-22	
1,1-Dichloroethane	ND	0.20	EPA 8260D	5-4-22	5-4-22	
Vinyl Acetate	ND	1.0	EPA 8260D	5-4-22	5-4-22	
2,2-Dichloropropane	ND	0.20	EPA 8260D	5-4-22	5-4-22	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	5-4-22	5-4-22	
2-Butanone	ND	5.0	EPA 8260D	5-4-22	5-4-22	
Bromochloromethane	ND	0.20	EPA 8260D	5-4-22	5-4-22	
Chloroform	ND	0.20	EPA 8260D	5-4-22	5-4-22	
1,1,1-Trichloroethane	ND	0.20	EPA 8260D	5-4-22	5-4-22	
Carbon Tetrachloride	ND	0.20	EPA 8260D	5-4-22	5-4-22	
1,1-Dichloropropene	ND	0.20	EPA 8260D	5-4-22	5-4-22	
Benzene	ND	0.20	EPA 8260D	5-4-22	5-4-22	
1,2-Dichloroethane	ND	0.20	EPA 8260D	5-4-22	5-4-22	
Trichloroethene	ND	0.20	EPA 8260D	5-4-22	5-4-22	
1,2-Dichloropropane	ND	0.20	EPA 8260D	5-4-22	5-4-22	
Dibromomethane	ND	0.20	EPA 8260D	5-4-22	5-4-22	
Bromodichloromethane	ND	0.20	EPA 8260D	5-4-22	5-4-22	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260D	5-4-22	5-4-22	
Methyl Isobutyl Ketone	ND	2.0	EPA 8260D	5-4-22	5-4-22	
Toluene	ND	1.0	EPA 8260D	5-4-22	5-4-22	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260D	5-4-22	5-4-22	



Date of Report: May 18, 2022
 Samples Submitted: May 3, 2022
 Laboratory Reference: 2205-024
 Project: 6694-002-05 T700

VOLATILE ORGANICS EPA 8260D
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-6-220503					
Laboratory ID:	05-024-01					
1,1,2-Trichloroethane	ND	0.20	EPA 8260D	5-4-22	5-4-22	
Tetrachloroethene	ND	0.20	EPA 8260D	5-4-22	5-4-22	
1,3-Dichloropropane	ND	0.20	EPA 8260D	5-4-22	5-4-22	
2-Hexanone	ND	2.0	EPA 8260D	5-4-22	5-4-22	
Dibromochloromethane	ND	0.20	EPA 8260D	5-4-22	5-4-22	
1,2-Dibromoethane	ND	0.20	EPA 8260D	5-4-22	5-4-22	
Chlorobenzene	ND	0.20	EPA 8260D	5-4-22	5-4-22	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260D	5-4-22	5-4-22	
Ethylbenzene	ND	0.20	EPA 8260D	5-4-22	5-4-22	
m,p-Xylene	ND	0.40	EPA 8260D	5-4-22	5-4-22	
o-Xylene	ND	0.20	EPA 8260D	5-4-22	5-4-22	
Styrene	ND	0.20	EPA 8260D	5-4-22	5-4-22	
Bromoform	ND	1.0	EPA 8260D	5-4-22	5-4-22	
Isopropylbenzene	ND	0.20	EPA 8260D	5-4-22	5-4-22	
Bromobenzene	ND	0.20	EPA 8260D	5-4-22	5-4-22	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260D	5-4-22	5-4-22	
1,2,3-Trichloropropane	ND	0.20	EPA 8260D	5-4-22	5-4-22	
n-Propylbenzene	ND	0.20	EPA 8260D	5-4-22	5-4-22	
2-Chlorotoluene	ND	0.20	EPA 8260D	5-4-22	5-4-22	
4-Chlorotoluene	ND	0.20	EPA 8260D	5-4-22	5-4-22	
1,3,5-Trimethylbenzene	ND	0.20	EPA 8260D	5-4-22	5-4-22	
tert-Butylbenzene	ND	0.20	EPA 8260D	5-4-22	5-4-22	
1,2,4-Trimethylbenzene	ND	0.20	EPA 8260D	5-4-22	5-4-22	
sec-Butylbenzene	ND	0.20	EPA 8260D	5-4-22	5-4-22	
1,3-Dichlorobenzene	ND	0.20	EPA 8260D	5-4-22	5-4-22	
p-Isopropyltoluene	ND	0.20	EPA 8260D	5-4-22	5-4-22	
1,4-Dichlorobenzene	ND	0.20	EPA 8260D	5-4-22	5-4-22	
1,2-Dichlorobenzene	ND	0.20	EPA 8260D	5-4-22	5-4-22	
n-Butylbenzene	ND	0.20	EPA 8260D	5-4-22	5-4-22	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260D	5-4-22	5-4-22	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260D	5-4-22	5-4-22	
Hexachlorobutadiene	ND	1.0	EPA 8260D	5-4-22	5-4-22	
Naphthalene	ND	1.0	EPA 8260D	5-4-22	5-4-22	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260D	5-4-22	5-4-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>102</i>	<i>75-127</i>				
<i>Toluene-d8</i>	<i>101</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>100</i>	<i>78-125</i>				



Date of Report: May 18, 2022
 Samples Submitted: May 3, 2022
 Laboratory Reference: 2205-024
 Project: 6694-002-05 T700

SEMIVOLATILE ORGANICS EPA 8270E/SIM
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-6-220503					
Laboratory ID:	05-024-01					
n-Nitrosodimethylamine	ND	0.98	EPA 8270E	5-6-22	5-6-22	
Pyridine	ND	0.98	EPA 8270E	5-6-22	5-6-22	
Phenol	ND	0.98	EPA 8270E	5-6-22	5-6-22	
Aniline	ND	4.9	EPA 8270E	5-6-22	5-6-22	
bis(2-Chloroethyl)ether	ND	0.98	EPA 8270E	5-6-22	5-6-22	
2-Chlorophenol	ND	0.98	EPA 8270E	5-6-22	5-6-22	
1,3-Dichlorobenzene	ND	0.98	EPA 8270E	5-6-22	5-6-22	
1,4-Dichlorobenzene	ND	0.98	EPA 8270E	5-6-22	5-6-22	
Benzyl alcohol	ND	0.98	EPA 8270E	5-6-22	5-6-22	
1,2-Dichlorobenzene	ND	0.98	EPA 8270E	5-6-22	5-6-22	
2-Methylphenol (o-Cresol)	ND	0.98	EPA 8270E	5-6-22	5-6-22	
bis(2-Chloroisopropyl)ether	ND	0.98	EPA 8270E	5-6-22	5-6-22	
(3+4)-Methylphenol (m,p-Cresol)	ND	0.98	EPA 8270E	5-6-22	5-6-22	
n-Nitroso-di-n-propylamine	ND	0.98	EPA 8270E	5-6-22	5-6-22	
Hexachloroethane	ND	0.98	EPA 8270E	5-6-22	5-6-22	
Nitrobenzene	ND	0.98	EPA 8270E	5-6-22	5-6-22	
Isophorone	ND	0.98	EPA 8270E	5-6-22	5-6-22	
2-Nitrophenol	ND	0.98	EPA 8270E	5-6-22	5-6-22	
2,4-Dimethylphenol	ND	0.98	EPA 8270E	5-6-22	5-6-22	
bis(2-Chloroethoxy)methane	ND	0.98	EPA 8270E	5-6-22	5-6-22	
2,4-Dichlorophenol	ND	0.98	EPA 8270E	5-6-22	5-6-22	
1,2,4-Trichlorobenzene	ND	0.98	EPA 8270E	5-6-22	5-6-22	
Naphthalene	ND	0.098	EPA 8270E/SIM	5-6-22	5-6-22	
4-Chloroaniline	ND	0.98	EPA 8270E	5-6-22	5-6-22	
Hexachlorobutadiene	ND	0.98	EPA 8270E	5-6-22	5-6-22	
4-Chloro-3-methylphenol	ND	0.98	EPA 8270E	5-6-22	5-6-22	
2-Methylnaphthalene	ND	0.098	EPA 8270E/SIM	5-6-22	5-6-22	
1-Methylnaphthalene	ND	0.098	EPA 8270E/SIM	5-6-22	5-6-22	
Hexachlorocyclopentadiene	ND	0.98	EPA 8270E	5-6-22	5-6-22	
2,4,6-Trichlorophenol	ND	0.98	EPA 8270E	5-6-22	5-6-22	
2,3-Dichloroaniline	ND	0.98	EPA 8270E	5-6-22	5-6-22	
2,4,5-Trichlorophenol	ND	0.98	EPA 8270E	5-6-22	5-6-22	
2-Chloronaphthalene	ND	0.98	EPA 8270E	5-6-22	5-6-22	
2-Nitroaniline	ND	0.98	EPA 8270E	5-6-22	5-6-22	
1,4-Dinitrobenzene	ND	0.98	EPA 8270E	5-6-22	5-6-22	
Dimethylphthalate	ND	4.9	EPA 8270E	5-6-22	5-6-22	
1,3-Dinitrobenzene	ND	0.98	EPA 8270E	5-6-22	5-6-22	
2,6-Dinitrotoluene	ND	0.98	EPA 8270E	5-6-22	5-6-22	
1,2-Dinitrobenzene	ND	0.98	EPA 8270E	5-6-22	5-6-22	
Acenaphthylene	ND	0.098	EPA 8270E/SIM	5-6-22	5-6-22	
3-Nitroaniline	ND	0.98	EPA 8270E	5-6-22	5-6-22	



Date of Report: May 18, 2022
 Samples Submitted: May 3, 2022
 Laboratory Reference: 2205-024
 Project: 6694-002-05 T700

SEMIVOLATILE ORGANICS EPA 8270E/SIM
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-6-220503					
Laboratory ID:	05-024-01					
2,4-Dinitrophenol	ND	6.2	EPA 8270E	5-6-22	5-6-22	
Acenaphthene	ND	0.098	EPA 8270E/SIM	5-6-22	5-6-22	
4-Nitrophenol	ND	4.9	EPA 8270E	5-6-22	5-6-22	
2,4-Dinitrotoluene	ND	0.98	EPA 8270E	5-6-22	5-6-22	
Dibenzofuran	ND	0.98	EPA 8270E	5-6-22	5-6-22	
2,3,5,6-Tetrachlorophenol	ND	0.98	EPA 8270E	5-6-22	5-6-22	
2,3,4,6-Tetrachlorophenol	ND	0.98	EPA 8270E	5-6-22	5-6-22	
Diethylphthalate	ND	0.98	EPA 8270E	5-6-22	5-6-22	
4-Chlorophenyl-phenylether	ND	0.98	EPA 8270E	5-6-22	5-6-22	
4-Nitroaniline	ND	0.98	EPA 8270E	5-6-22	5-6-22	
Fluorene	ND	0.098	EPA 8270E/SIM	5-6-22	5-6-22	
4,6-Dinitro-2-methylphenol	ND	4.9	EPA 8270E	5-6-22	5-6-22	
n-Nitrosodiphenylamine	ND	0.98	EPA 8270E	5-6-22	5-6-22	
1,2-Diphenylhydrazine	ND	0.98	EPA 8270E	5-6-22	5-6-22	
4-Bromophenyl-phenylether	ND	0.98	EPA 8270E	5-6-22	5-6-22	
Hexachlorobenzene	ND	0.98	EPA 8270E	5-6-22	5-6-22	
Pentachlorophenol	ND	7.5	EPA 8270E	5-6-22	5-6-22	
Phenanthrene	ND	0.098	EPA 8270E/SIM	5-6-22	5-6-22	
Anthracene	ND	0.098	EPA 8270E/SIM	5-6-22	5-6-22	
Carbazole	ND	0.98	EPA 8270E	5-6-22	5-6-22	
Di-n-butylphthalate	ND	4.9	EPA 8270E	5-6-22	5-6-22	
Fluoranthene	ND	0.098	EPA 8270E/SIM	5-6-22	5-6-22	
Pyrene	0.26	0.098	EPA 8270E/SIM	5-6-22	5-6-22	
Butylbenzylphthalate	ND	0.98	EPA 8270E	5-6-22	5-6-22	
bis-2-Ethylhexyladipate	ND	4.9	EPA 8270E	5-6-22	5-6-22	
3,3'-Dichlorobenzidine	ND	0.98	EPA 8270E	5-6-22	5-6-22	
Benzo[a]anthracene	0.27	0.0098	EPA 8270E/SIM	5-6-22	5-6-22	
Chrysene	0.085	0.0098	EPA 8270E/SIM	5-6-22	5-6-22	
bis(2-Ethylhexyl)phthalate	ND	4.9	EPA 8270E	5-6-22	5-6-22	
Di-n-octylphthalate	ND	0.98	EPA 8270E	5-6-22	5-6-22	
Benzo[b]fluoranthene	0.12	0.0098	EPA 8270E/SIM	5-6-22	5-6-22	
Benzo(j,k)fluoranthene	0.36	0.0098	EPA 8270E/SIM	5-6-22	5-6-22	
Benzo[a]pyrene	0.17	0.0098	EPA 8270E/SIM	5-6-22	5-6-22	
Indeno[1,2,3-cd]pyrene	0.12	0.0098	EPA 8270E/SIM	5-6-22	5-6-22	
Dibenz[a,h]anthracene	0.14	0.0098	EPA 8270E/SIM	5-6-22	5-6-22	
Benzo[g,h,i]perylene	0.19	0.0098	EPA 8270E/SIM	5-6-22	5-6-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
2-Fluorophenol	40	10 - 81				
Phenol-d6	29	10 - 86				
Nitrobenzene-d5	67	27 - 105				
2-Fluorobiphenyl	72	33 - 100				
2,4,6-Tribromophenol	85	25 - 124				
Terphenyl-d14	73	40 - 116				



Date of Report: May 18, 2022
 Samples Submitted: May 3, 2022
 Laboratory Reference: 2205-024
 Project: 6694-002-05 T700

PCBs EPA 8082A

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-6-220503					
Laboratory ID:	05-024-01					
Aroclor 1016	ND	0.050	EPA 8082A	5-10-22	5-11-22	
Aroclor 1221	ND	0.050	EPA 8082A	5-10-22	5-11-22	
Aroclor 1232	ND	0.050	EPA 8082A	5-10-22	5-11-22	
Aroclor 1242	ND	0.050	EPA 8082A	5-10-22	5-11-22	
Aroclor 1248	ND	0.050	EPA 8082A	5-10-22	5-11-22	
Aroclor 1254	ND	0.050	EPA 8082A	5-10-22	5-11-22	
Aroclor 1260	ND	0.050	EPA 8082A	5-10-22	5-11-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>DCB</i>	<i>84</i>	<i>49-133</i>				



Date of Report: May 18, 2022
 Samples Submitted: May 3, 2022
 Laboratory Reference: 2205-024
 Project: 6694-002-05 T700

**ORGANOCHLORINE
 PESTICIDES EPA 8081B**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-6-220503					
Laboratory ID:	05-024-01					
alpha-BHC	ND	0.0050	EPA 8081B	5-10-22	5-12-22	
gamma-BHC (Lindane)	ND	0.0050	EPA 8081B	5-10-22	5-12-22	
beta-BHC	ND	0.0050	EPA 8081B	5-10-22	5-12-22	
delta-BHC	ND	0.0050	EPA 8081B	5-10-22	5-12-22	
Heptachlor	ND	0.0050	EPA 8081B	5-10-22	5-12-22	Y1
Aldrin	ND	0.0020	EPA 8081B	5-10-22	5-12-22	
Heptachlor Epoxide	ND	0.0030	EPA 8081B	5-10-22	5-12-22	
gamma-Chlordane	ND	0.0050	EPA 8081B	5-10-22	5-12-22	
alpha-Chlordane	ND	0.0050	EPA 8081B	5-10-22	5-12-22	
4,4'-DDE	ND	0.0050	EPA 8081B	5-10-22	5-12-22	
Endosulfan I	ND	0.0050	EPA 8081B	5-10-22	5-12-22	
Dieldrin	ND	0.0050	EPA 8081B	5-10-22	5-12-22	
Endrin	ND	0.0050	EPA 8081B	5-10-22	5-12-22	
4,4'-DDD	ND	0.0050	EPA 8081B	5-10-22	5-12-22	
Endosulfan II	ND	0.0050	EPA 8081B	5-10-22	5-12-22	
4,4'-DDT	ND	0.0050	EPA 8081B	5-10-22	5-12-22	Y1
Endrin Aldehyde	ND	0.0050	EPA 8081B	5-10-22	5-12-22	
Methoxychlor	ND	0.010	EPA 8081B	5-10-22	5-12-22	Y1
Endosulfan Sulfate	ND	0.0050	EPA 8081B	5-10-22	5-12-22	
Endrin Ketone	ND	0.020	EPA 8081B	5-10-22	5-12-22	Y1
Toxaphene	ND	0.050	EPA 8081B	5-10-22	5-12-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
TCMX	79	21-110				
DCB	82	42-113				



Date of Report: May 18, 2022
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 Project: 6694-002-05 T700

TOTAL METALS
EPA 200.8/200.7/7470A

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-6-220503					
Laboratory ID:	05-024-01					
Arsenic	5.8	3.3	EPA 200.8	5-5-22	5-5-22	
Cadmium	ND	4.4	EPA 200.8	5-5-22	5-5-22	
Chromium	ND	11	EPA 200.8	5-5-22	5-5-22	
Copper	ND	11	EPA 200.8	5-5-22	5-5-22	
Iron	2000	50	EPA 200.7	5-3-22	5-5-22	
Lead	ND	1.1	EPA 200.8	5-5-22	5-5-22	
Magnesium	24000	1000	EPA 200.7	5-3-22	5-5-22	
Manganese	2100	10	EPA 200.7	5-3-22	5-5-22	
Mercury	ND	0.025	EPA 7470A	5-4-22	5-4-22	
Nickel	ND	22	EPA 200.8	5-5-22	5-5-22	
Selenium	ND	5.6	EPA 200.8	5-5-22	5-5-22	
Zinc	ND	28	EPA 200.8	5-5-22	5-5-22	



Date of Report: May 18, 2022
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DISSOLVED METALS
EPA 200.8/200.7/7470A

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-6-220503					
Laboratory ID:	05-024-01					
Arsenic	4.2	3.0	EPA 200.8		5-4-22	
Cadmium	ND	4.0	EPA 200.8		5-4-22	
Calcium	44000	1100	EPA 200.7		5-5-22	
Chromium	ND	10	EPA 200.8		5-4-22	
Copper	ND	10	EPA 200.8		5-4-22	
Iron	67	56	EPA 200.7		5-5-22	
Lead	ND	1.0	EPA 200.8		5-4-22	
Magnesium	23000	1100	EPA 200.7		5-5-22	
Manganese	2000	11	EPA 200.7		5-5-22	
Mercury	ND	0.025	EPA 7470A		5-4-22	
Nickel	ND	20	EPA 200.8		5-4-22	
Potassium	2500	1100	EPA 200.7		5-5-22	
Selenium	ND	5.0	EPA 200.8		5-4-22	
Sodium	16000	1100	EPA 200.7		5-5-22	
Zinc	ND	25	EPA 200.8		5-4-22	



Date of Report: May 18, 2022
Samples Submitted: May 3, 2022
Laboratory Reference: 2205-024
Project: 6694-002-05 T700

TOTAL ALKALINITY
SM 2320B

Matrix: Water
Units: mg CaCO₃/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-6-220503					
Laboratory ID:	05-024-01					
Total Alkalinity	230	2.0	SM 2320B	5-4-22	5-4-22	



Date of Report: December 15, 2021
Samples Submitted: December 7, 2021
Laboratory Reference: 2112-075
Project: 6694-002-05 T700

**BICARBONATE
SM 2320B**

Matrix: Water
Units: mg CaCO₃/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-6-220503					
Laboratory ID:	05-024-01					
Bicarbonate	230	2.0	SM 2320B	5-4-22	5-4-22	



Date of Report: May 18, 2022
Samples Submitted: May 3, 2022
Laboratory Reference: 2205-024
Project: 6694-002-05 T700

**TOTAL DISSOLVED SOLIDS
SM 2540C**

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-6-220503					
Laboratory ID:	05-024-01					
Total Dissolved Solids	290	13	SM 2540C	5-5-22	5-5-22	



Date of Report: May 18, 2022
Samples Submitted: May 3, 2022
Laboratory Reference: 2205-024
Project: 6694-002-05 T700

CHLORIDE
SM 4500-Cl E

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-6-220503					
Laboratory ID:	05-024-01					
Chloride	3.9	2.0	SM 4500-Cl E	5-16-22	5-16-22	



Date of Report: May 18, 2022
Samples Submitted: May 3, 2022
Laboratory Reference: 2205-024
Project: 6694-002-05 T700

NITRATE (as Nitrogen)
EPA 353.2

Matrix: Water
Units: mg/L-N

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-6-220503					
Laboratory ID:	05-024-01					
Nitrate	0.12	0.050	EPA 353.2	5-4-22	5-4-22	



Date of Report: May 18, 2022
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Laboratory Reference: 2205-024
Project: 6694-002-05 T700

SULFATE
ASTM D516-11

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-6-220503					
Laboratory ID:	05-024-01					
Sulfate	26	10	ASTM D516-11	5-9-22	5-9-22	



Date of Report: May 18, 2022
Samples Submitted: May 3, 2022
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AMMONIA (as Nitrogen)
SM 4500-NH₃ D

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-6-220503					
Laboratory ID:	05-024-01					
Ammonia	0.10	0.050	SM 4500-NH3 D	5-16-22	5-16-22	



Date of Report: May 18, 2022
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 Laboratory Reference: 2205-024
 Project: 6694-002-05 T700

**GASOLINE RANGE ORGANICS
 NWTPH-Gx
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0504W1					
Gasoline	ND	100	NWTPH-Gx	5-4-22	5-4-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>		<i>Control Limits</i>			
<i>Fluorobenzene</i>	95	65-122				

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	05-019-01							
	ORIG	DUP						
Gasoline	ND	ND	NA	NA	NA	NA	30	
<i>Surrogate:</i>								
<i>Fluorobenzene</i>				93	94	65-122		



Date of Report: May 18, 2022
 Samples Submitted: May 3, 2022
 Laboratory Reference: 2205-024
 Project: 6694-002-05 T700

**DIESEL AND HEAVY OIL RANGE ORGANICS
 NWTPH-Dx
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0509W1					
Diesel Range Organics	ND	0.12	NWTPH-Dx	5-9-22	5-9-22	
Lube Oil Range Organics	ND	0.16	NWTPH-Dx	5-9-22	5-9-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	91	50-150				

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	05-019-07							
	ORIG	DUP						
Diesel Range Organics	1.25	0.828	NA	NA	NA	NA	41	NA M
Lube Oil Range Organics	0.499	0.380	NA	NA	NA	NA	27	NA
<i>Surrogate:</i>								
<i>o-Terphenyl</i>				85	82	50-150		



Date of Report: May 18, 2022
 Samples Submitted: May 3, 2022
 Laboratory Reference: 2205-024
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VOLATILE ORGANICS EPA 8260D
QUALITY CONTROL
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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0504W1					
Dichlorodifluoromethane	ND	0.20	EPA 8260D	5-4-22	5-4-22	
Chloromethane	ND	1.0	EPA 8260D	5-4-22	5-4-22	
Vinyl Chloride	ND	0.20	EPA 8260D	5-4-22	5-4-22	
Bromomethane	ND	3.1	EPA 8260D	5-4-22	5-4-22	
Chloroethane	ND	1.0	EPA 8260D	5-4-22	5-4-22	
Trichlorofluoromethane	ND	0.20	EPA 8260D	5-4-22	5-4-22	
1,1-Dichloroethene	ND	0.20	EPA 8260D	5-4-22	5-4-22	
Acetone	ND	5.0	EPA 8260D	5-4-22	5-4-22	
Iodomethane	ND	19	EPA 8260D	5-4-22	5-4-22	
Carbon Disulfide	ND	0.20	EPA 8260D	5-4-22	5-4-22	
Methylene Chloride	ND	1.0	EPA 8260D	5-4-22	5-4-22	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	5-4-22	5-4-22	
Methyl t-Butyl Ether	ND	0.20	EPA 8260D	5-4-22	5-4-22	
1,1-Dichloroethane	ND	0.20	EPA 8260D	5-4-22	5-4-22	
Vinyl Acetate	ND	1.0	EPA 8260D	5-4-22	5-4-22	
2,2-Dichloropropane	ND	0.20	EPA 8260D	5-4-22	5-4-22	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	5-4-22	5-4-22	
2-Butanone	ND	5.0	EPA 8260D	5-4-22	5-4-22	
Bromochloromethane	ND	0.20	EPA 8260D	5-4-22	5-4-22	
Chloroform	ND	0.20	EPA 8260D	5-4-22	5-4-22	
1,1,1-Trichloroethane	ND	0.20	EPA 8260D	5-4-22	5-4-22	
Carbon Tetrachloride	ND	0.20	EPA 8260D	5-4-22	5-4-22	
1,1-Dichloropropene	ND	0.20	EPA 8260D	5-4-22	5-4-22	
Benzene	ND	0.20	EPA 8260D	5-4-22	5-4-22	
1,2-Dichloroethane	ND	0.20	EPA 8260D	5-4-22	5-4-22	
Trichloroethene	ND	0.20	EPA 8260D	5-4-22	5-4-22	
1,2-Dichloropropane	ND	0.20	EPA 8260D	5-4-22	5-4-22	
Dibromomethane	ND	0.20	EPA 8260D	5-4-22	5-4-22	
Bromodichloromethane	ND	0.20	EPA 8260D	5-4-22	5-4-22	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260D	5-4-22	5-4-22	
Methyl Isobutyl Ketone	ND	2.0	EPA 8260D	5-4-22	5-4-22	
Toluene	ND	1.0	EPA 8260D	5-4-22	5-4-22	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260D	5-4-22	5-4-22	



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VOLATILE ORGANICS EPA 8260D
QUALITY CONTROL
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0504W1					
1,1,2-Trichloroethane	ND	0.20	EPA 8260D	5-4-22	5-4-22	
Tetrachloroethene	ND	0.20	EPA 8260D	5-4-22	5-4-22	
1,3-Dichloropropane	ND	0.20	EPA 8260D	5-4-22	5-4-22	
2-Hexanone	ND	2.0	EPA 8260D	5-4-22	5-4-22	
Dibromochloromethane	ND	0.20	EPA 8260D	5-4-22	5-4-22	
1,2-Dibromoethane	ND	0.20	EPA 8260D	5-4-22	5-4-22	
Chlorobenzene	ND	0.20	EPA 8260D	5-4-22	5-4-22	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260D	5-4-22	5-4-22	
Ethylbenzene	ND	0.20	EPA 8260D	5-4-22	5-4-22	
m,p-Xylene	ND	0.40	EPA 8260D	5-4-22	5-4-22	
o-Xylene	ND	0.20	EPA 8260D	5-4-22	5-4-22	
Styrene	ND	0.20	EPA 8260D	5-4-22	5-4-22	
Bromoform	ND	1.0	EPA 8260D	5-4-22	5-4-22	
Isopropylbenzene	ND	0.20	EPA 8260D	5-4-22	5-4-22	
Bromobenzene	ND	0.20	EPA 8260D	5-4-22	5-4-22	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260D	5-4-22	5-4-22	
1,2,3-Trichloropropane	ND	0.20	EPA 8260D	5-4-22	5-4-22	
n-Propylbenzene	ND	0.20	EPA 8260D	5-4-22	5-4-22	
2-Chlorotoluene	ND	0.20	EPA 8260D	5-4-22	5-4-22	
4-Chlorotoluene	ND	0.20	EPA 8260D	5-4-22	5-4-22	
1,3,5-Trimethylbenzene	ND	0.20	EPA 8260D	5-4-22	5-4-22	
tert-Butylbenzene	ND	0.20	EPA 8260D	5-4-22	5-4-22	
1,2,4-Trimethylbenzene	ND	0.20	EPA 8260D	5-4-22	5-4-22	
sec-Butylbenzene	ND	0.20	EPA 8260D	5-4-22	5-4-22	
1,3-Dichlorobenzene	ND	0.20	EPA 8260D	5-4-22	5-4-22	
p-Isopropyltoluene	ND	0.20	EPA 8260D	5-4-22	5-4-22	
1,4-Dichlorobenzene	ND	0.20	EPA 8260D	5-4-22	5-4-22	
1,2-Dichlorobenzene	ND	0.20	EPA 8260D	5-4-22	5-4-22	
n-Butylbenzene	ND	0.20	EPA 8260D	5-4-22	5-4-22	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260D	5-4-22	5-4-22	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260D	5-4-22	5-4-22	
Hexachlorobutadiene	ND	1.0	EPA 8260D	5-4-22	5-4-22	
Naphthalene	ND	1.0	EPA 8260D	5-4-22	5-4-22	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260D	5-4-22	5-4-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>104</i>	<i>75-127</i>				
<i>Toluene-d8</i>	<i>101</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>100</i>	<i>78-125</i>				



Date of Report: May 18, 2022
 Samples Submitted: May 3, 2022
 Laboratory Reference: 2205-024
 Project: 6694-002-05 T700

**VOLATILE ORGANICS EPA 8260D
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD		Flags
					Recovery	Limits	RPD	Limit		
SPIKE BLANKS										
Laboratory ID:	SB0504W1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	11.2	11.1	10.0	10.0	112	111	78-125	1	19	
Benzene	10.7	10.5	10.0	10.0	107	105	80-121	2	16	
Trichloroethene	10.4	10.3	10.0	10.0	104	103	80-122	1	18	
Toluene	10.2	10.1	10.0	10.0	102	101	80-120	1	18	
Chlorobenzene	9.65	9.54	10.0	10.0	97	95	80-120	1	17	
<i>Surrogate:</i>										
Dibromofluoromethane					104	101	75-127			
Toluene-d8					102	101	80-127			
4-Bromofluorobenzene					103	102	78-125			



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**SEMIVOLATILE ORGANICS EPA 8270E/SIM
 QUALITY CONTROL**

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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0506W1					
n-Nitrosodimethylamine	ND	1.0	EPA 8270E	5-6-22	5-6-22	
Pyridine	ND	1.0	EPA 8270E	5-6-22	5-6-22	
Phenol	ND	1.0	EPA 8270E	5-6-22	5-6-22	
Aniline	ND	5.0	EPA 8270E	5-6-22	5-6-22	
bis(2-Chloroethyl)ether	ND	1.0	EPA 8270E	5-6-22	5-6-22	
2-Chlorophenol	ND	1.0	EPA 8270E	5-6-22	5-6-22	
1,3-Dichlorobenzene	ND	1.0	EPA 8270E	5-6-22	5-6-22	
1,4-Dichlorobenzene	ND	1.0	EPA 8270E	5-6-22	5-6-22	
Benzyl alcohol	ND	1.0	EPA 8270E	5-6-22	5-6-22	
1,2-Dichlorobenzene	ND	1.0	EPA 8270E	5-6-22	5-6-22	
2-Methylphenol (o-Cresol)	ND	1.0	EPA 8270E	5-6-22	5-6-22	
bis(2-Chloroisopropyl)ether	ND	1.0	EPA 8270E	5-6-22	5-6-22	
(3+4)-Methylphenol (m,p-Cresol)	ND	1.0	EPA 8270E	5-6-22	5-6-22	
n-Nitroso-di-n-propylamine	ND	1.0	EPA 8270E	5-6-22	5-6-22	
Hexachloroethane	ND	1.0	EPA 8270E	5-6-22	5-6-22	
Nitrobenzene	ND	1.0	EPA 8270E	5-6-22	5-6-22	
Isophorone	ND	1.0	EPA 8270E	5-6-22	5-6-22	
2-Nitrophenol	ND	1.0	EPA 8270E	5-6-22	5-6-22	
2,4-Dimethylphenol	ND	1.0	EPA 8270E	5-6-22	5-6-22	
bis(2-Chloroethoxy)methane	ND	1.0	EPA 8270E	5-6-22	5-6-22	
2,4-Dichlorophenol	ND	1.0	EPA 8270E	5-6-22	5-6-22	
1,2,4-Trichlorobenzene	ND	1.0	EPA 8270E	5-6-22	5-6-22	
Naphthalene	ND	0.10	EPA 8270E/SIM	5-6-22	5-6-22	
4-Chloroaniline	ND	1.0	EPA 8270E	5-6-22	5-6-22	
Hexachlorobutadiene	ND	1.0	EPA 8270E	5-6-22	5-6-22	
4-Chloro-3-methylphenol	ND	1.0	EPA 8270E	5-6-22	5-6-22	
2-Methylnaphthalene	ND	0.10	EPA 8270E/SIM	5-6-22	5-6-22	
1-Methylnaphthalene	ND	0.10	EPA 8270E/SIM	5-6-22	5-6-22	
Hexachlorocyclopentadiene	ND	1.0	EPA 8270E	5-6-22	5-6-22	
2,4,6-Trichlorophenol	ND	1.0	EPA 8270E	5-6-22	5-6-22	
2,3-Dichloroaniline	ND	1.0	EPA 8270E	5-6-22	5-6-22	
2,4,5-Trichlorophenol	ND	1.0	EPA 8270E	5-6-22	5-6-22	
2-Chloronaphthalene	ND	1.0	EPA 8270E	5-6-22	5-6-22	
2-Nitroaniline	ND	1.0	EPA 8270E	5-6-22	5-6-22	
1,4-Dinitrobenzene	ND	1.0	EPA 8270E	5-6-22	5-6-22	
Dimethylphthalate	ND	5.0	EPA 8270E	5-6-22	5-6-22	
1,3-Dinitrobenzene	ND	1.0	EPA 8270E	5-6-22	5-6-22	
2,6-Dinitrotoluene	ND	1.0	EPA 8270E	5-6-22	5-6-22	
1,2-Dinitrobenzene	ND	1.0	EPA 8270E	5-6-22	5-6-22	
Acenaphthylene	ND	0.10	EPA 8270E/SIM	5-6-22	5-6-22	
3-Nitroaniline	ND	1.0	EPA 8270E	5-6-22	5-6-22	



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**SEMIVOLATILE ORGANICS EPA 8270E/SIM
 QUALITY CONTROL**

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0506W1					
2,4-Dinitrophenol	ND	6.4	EPA 8270E	5-6-22	5-6-22	
Acenaphthene	ND	0.10	EPA 8270E/SIM	5-6-22	5-6-22	
4-Nitrophenol	ND	5.0	EPA 8270E	5-6-22	5-6-22	
2,4-Dinitrotoluene	ND	1.0	EPA 8270E	5-6-22	5-6-22	
Dibenzofuran	ND	1.0	EPA 8270E	5-6-22	5-6-22	
2,3,5,6-Tetrachlorophenol	ND	1.0	EPA 8270E	5-6-22	5-6-22	
2,3,4,6-Tetrachlorophenol	ND	1.0	EPA 8270E	5-6-22	5-6-22	
Diethylphthalate	ND	1.0	EPA 8270E	5-6-22	5-6-22	
4-Chlorophenyl-phenylether	ND	1.0	EPA 8270E	5-6-22	5-6-22	
4-Nitroaniline	ND	1.0	EPA 8270E	5-6-22	5-6-22	
Fluorene	ND	0.10	EPA 8270E/SIM	5-6-22	5-6-22	
4,6-Dinitro-2-methylphenol	ND	5.0	EPA 8270E	5-6-22	5-6-22	
n-Nitrosodiphenylamine	ND	1.0	EPA 8270E	5-6-22	5-6-22	
1,2-Diphenylhydrazine	ND	1.0	EPA 8270E	5-6-22	5-6-22	
4-Bromophenyl-phenylether	ND	1.0	EPA 8270E	5-6-22	5-6-22	
Hexachlorobenzene	ND	1.0	EPA 8270E	5-6-22	5-6-22	
Pentachlorophenol	ND	7.7	EPA 8270E	5-6-22	5-6-22	
Phenanthrene	ND	0.10	EPA 8270E/SIM	5-6-22	5-6-22	
Anthracene	ND	0.10	EPA 8270E/SIM	5-6-22	5-6-22	
Carbazole	ND	1.0	EPA 8270E	5-6-22	5-6-22	
Di-n-butylphthalate	ND	5.0	EPA 8270E	5-6-22	5-6-22	
Fluoranthene	ND	0.10	EPA 8270E/SIM	5-6-22	5-6-22	
Pyrene	ND	0.10	EPA 8270E/SIM	5-6-22	5-6-22	
Butylbenzylphthalate	ND	1.0	EPA 8270E	5-6-22	5-6-22	
bis-2-Ethylhexyladipate	ND	5.0	EPA 8270E	5-6-22	5-6-22	
3,3'-Dichlorobenzidine	ND	1.0	EPA 8270E	5-6-22	5-6-22	
Benzo[a]anthracene	ND	0.010	EPA 8270E/SIM	5-6-22	5-6-22	
Chrysene	ND	0.010	EPA 8270E/SIM	5-6-22	5-6-22	
bis(2-Ethylhexyl)phthalate	ND	5.0	EPA 8270E	5-6-22	5-6-22	
Di-n-octylphthalate	ND	1.0	EPA 8270E	5-6-22	5-6-22	
Benzo[b]fluoranthene	ND	0.010	EPA 8270E/SIM	5-6-22	5-6-22	
Benzo(j,k)fluoranthene	ND	0.010	EPA 8270E/SIM	5-6-22	5-6-22	
Benzo[a]pyrene	ND	0.010	EPA 8270E/SIM	5-6-22	5-6-22	
Indeno[1,2,3-cd]pyrene	ND	0.010	EPA 8270E/SIM	5-6-22	5-6-22	
Dibenz[a,h]anthracene	ND	0.010	EPA 8270E/SIM	5-6-22	5-6-22	
Benzo[g,h,i]perylene	ND	0.010	EPA 8270E/SIM	5-6-22	5-6-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
2-Fluorophenol	42	10 - 81				
Phenol-d6	32	10 - 86				
Nitrobenzene-d5	68	27 - 105				
2-Fluorobiphenyl	69	33 - 100				
2,4,6-Tribromophenol	90	25 - 124				
Terphenyl-d14	78	40 - 116				



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**SEMIVOLATILE ORGANICS EPA 8270E/SIM
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB0506W1									
	SB	SBD	SB	SBD	SB	SBD				
Phenol	13.0	11.1	40.0	40.0	33	28	16 - 53	16	33	
2-Chlorophenol	24.8	20.9	40.0	40.0	62	52	42 - 90	17	34	
1,4-Dichlorobenzene	13.8	12.2	20.0	20.0	69	61	32 - 83	12	34	
n-Nitroso-di-n-propylamine	15.4	13.4	20.0	20.0	77	67	41 - 99	14	32	
1,2,4-Trichlorobenzene	14.4	12.9	20.0	20.0	72	65	35 - 91	11	35	
4-Chloro-3-methylphenol	28.9	24.8	40.0	40.0	72	62	55 - 98	15	22	
Acenaphthene	15.8	13.9	20.0	20.0	79	70	40 - 96	13	23	
4-Nitrophenol	19.6	17.8	40.0	40.0	49	45	20 - 77	10	28	
2,4-Dinitrotoluene	16.2	14.6	20.0	20.0	81	73	50 - 102	10	22	
Pentachlorophenol	43.5	36.4	40.0	40.0	109	91	46 - 129	18	26	
Pyrene	15.9	14.6	20.0	20.0	80	73	52 - 105	9	20	
<i>Surrogate:</i>										
2-Fluorophenol					34	29	10 - 81			
Phenol-d6					29	24	10 - 86			
Nitrobenzene-d5					62	57	27 - 105			
2-Fluorobiphenyl					70	63	33 - 100			
2,4,6-Tribromophenol					84	75	25 - 124			
Terphenyl-d14					68	63	40 - 116			



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**PCBs EPA 8082A
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0510W1					
Aroclor 1016	ND	0.050	EPA 8082A	5-10-22	5-11-22	
Aroclor 1221	ND	0.050	EPA 8082A	5-10-22	5-11-22	
Aroclor 1232	ND	0.050	EPA 8082A	5-10-22	5-11-22	
Aroclor 1242	ND	0.050	EPA 8082A	5-10-22	5-11-22	
Aroclor 1248	ND	0.050	EPA 8082A	5-10-22	5-11-22	
Aroclor 1254	ND	0.050	EPA 8082A	5-10-22	5-11-22	
Aroclor 1260	ND	0.050	EPA 8082A	5-10-22	5-11-22	
Surrogate:	Percent Recovery	Control Limits				
DCB	98	49-133				

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS											
Laboratory ID:	SB0510W1										
	SB	SBD	SB	SBD		SB	SBD				
Aroclor 1260	0.470	0.501	0.500	0.500	N/A	94	100	67-120	6	15	
Surrogate:											
DCB						95	102	49-133			



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**ORGANOCHLORINE
 PESTICIDES EPA 8081B
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0510W1					
alpha-BHC	ND	0.0050	EPA 8081B	5-10-22	5-12-22	
gamma-BHC (Lindane)	ND	0.0050	EPA 8081B	5-10-22	5-12-22	
beta-BHC	ND	0.0050	EPA 8081B	5-10-22	5-12-22	
delta-BHC	ND	0.0050	EPA 8081B	5-10-22	5-12-22	
Heptachlor	ND	0.0050	EPA 8081B	5-10-22	5-12-22	Y1
Aldrin	ND	0.0020	EPA 8081B	5-10-22	5-12-22	
Heptachlor Epoxide	ND	0.0030	EPA 8081B	5-10-22	5-12-22	
gamma-Chlordane	ND	0.0050	EPA 8081B	5-10-22	5-12-22	
alpha-Chlordane	ND	0.0050	EPA 8081B	5-10-22	5-12-22	
4,4'-DDE	ND	0.0050	EPA 8081B	5-10-22	5-12-22	
Endosulfan I	ND	0.0050	EPA 8081B	5-10-22	5-12-22	
Dieldrin	ND	0.0050	EPA 8081B	5-10-22	5-12-22	
Endrin	ND	0.0050	EPA 8081B	5-10-22	5-12-22	
4,4'-DDD	ND	0.0050	EPA 8081B	5-10-22	5-12-22	
Endosulfan II	ND	0.0050	EPA 8081B	5-10-22	5-12-22	
4,4'-DDT	ND	0.0050	EPA 8081B	5-10-22	5-12-22	Y1
Endrin Aldehyde	ND	0.0050	EPA 8081B	5-10-22	5-12-22	
Methoxychlor	ND	0.010	EPA 8081B	5-10-22	5-12-22	Y1
Endosulfan Sulfate	ND	0.0050	EPA 8081B	5-10-22	5-12-22	
Endrin Ketone	ND	0.020	EPA 8081B	5-10-22	5-12-22	Y1
Toxaphene	ND	0.050	EPA 8081B	5-10-22	5-12-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
TCMX	78	21-110				
DCB	94	42-113				



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**ORGANOCHLORINE
 PESTICIDES EPA 8081B
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS											
Laboratory ID:	SB0510W2										
	SB	SBD	SB	SBD		SB	SBD				
alpha-BHC	0.0814	0.0764	0.100	0.100	N/A	81	76	50-113	6	19	
gamma-BHC (Lindane)	0.0839	0.0815	0.100	0.100	N/A	84	82	50-114	3	15	
beta-BHC	0.0798	0.0791	0.100	0.100	N/A	80	79	45-110	1	15	
delta-BHC	0.0847	0.0832	0.100	0.100	N/A	85	83	40-113	2	15	
Heptachlor	0.0661	0.0662	0.100	0.100	N/A	66	66	41-107	0	16	Y1
Aldrin	0.0587	0.0552	0.100	0.100	N/A	59	55	39-105	6	15	
Heptachlor Epoxide	0.0812	0.0825	0.100	0.100	N/A	81	82	53-106	2	15	
gamma-Chlordane	0.0702	0.0669	0.100	0.100	N/A	70	67	46-110	5	15	
alpha-Chlordane	0.0736	0.0697	0.100	0.100	N/A	74	70	46-110	5	15	
4,4'-DDE	0.0780	0.0747	0.100	0.100	N/A	78	75	39-129	4	15	
Endosulfan I	0.0721	0.0688	0.100	0.100	N/A	72	69	51-109	5	15	
Dieldrin	0.0856	0.0834	0.100	0.100	N/A	86	83	55-112	3	15	
Endrin	0.0908	0.0930	0.100	0.100	N/A	91	93	54-119	2	16	
4,4'-DDD	0.0805	0.0851	0.100	0.100	N/A	81	85	52-142	6	15	
Endosulfan II	0.0828	0.0815	0.100	0.100	N/A	83	81	49-115	2	15	
4,4'-DDT	0.0819	0.0893	0.100	0.100	N/A	82	89	52-136	9	15	Y1
Endrin Aldehyde	0.0836	0.0805	0.100	0.100	N/A	84	81	39-128	4	15	
Methoxychlor	0.0851	0.101	0.100	0.100	N/A	85	101	56-156	17	19	Y1
Endosulfan Sulfate	0.0837	0.0826	0.100	0.100	N/A	84	83	44-120	1	15	
Endrin Ketone	0.0873	0.0927	0.100	0.100	N/A	87	93	45-122	6	15	Y1
Surrogate:											
TCMX						54	57	21-110			
DCB						82	83	42-113			



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TOTAL METALS
EPA 200.8/200.7/7470A
QUALITY CONTROL

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0505WH1					
Iron	ND	50	EPA 200.7	5-5-22	5-5-22	
Magnesium	ND	1000	EPA 200.7	5-5-22	5-5-22	
Manganese	ND	10	EPA 200.7	5-5-22	5-5-22	
METHOD BLANK						
Laboratory ID:	MB0505WM1					
Arsenic	ND	3.3	EPA 200.8	5-5-22	5-5-22	
Cadmium	ND	4.4	EPA 200.8	5-5-22	5-5-22	
Chromium	ND	11	EPA 200.8	5-5-22	5-5-22	
Copper	ND	11	EPA 200.8	5-5-22	5-5-22	
Lead	ND	1.1	EPA 200.8	5-5-22	5-5-22	
Nickel	ND	22	EPA 200.8	5-5-22	5-5-22	
Selenium	ND	5.6	EPA 200.8	5-5-22	5-5-22	
Zinc	ND	28	EPA 200.8	5-5-22	5-5-22	
METHOD BLANK						
Laboratory ID:	MB0504W1					
Mercury	ND	0.025	EPA 7470A	5-4-22	5-4-22	



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TOTAL METALS
EPA 200.8/200.7/7470A
QUALITY CONTROL

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result		Spike Level		Source	Percent	Recovery	RPD		Flags
					Result	Recovery	Limits	RPD	Limit	
DUPLICATE										
Laboratory ID:	04-334-01									
	ORIG	DUP								
Iron	208	239	NA	NA		NA	NA	14	20	
Magnesium	5900	6060	NA	NA		NA	NA	3	20	
Manganese	22.2	23.3	NA	NA		NA	NA	5	20	
Laboratory ID:	04-309-01									
Arsenic	ND	ND	NA	NA		NA	NA	NA	20	
Cadmium	ND	ND	NA	NA		NA	NA	NA	20	
Chromium	ND	ND	NA	NA		NA	NA	NA	20	
Copper	ND	ND	NA	NA		NA	NA	NA	20	
Lead	ND	ND	NA	NA		NA	NA	NA	20	
Nickel	ND	ND	NA	NA		NA	NA	NA	20	
Selenium	ND	ND	NA	NA		NA	NA	NA	20	
Zinc	ND	ND	NA	NA		NA	NA	NA	20	
Laboratory ID:	05-023-01									
Mercury	ND	ND	NA	NA		NA	NA	NA	20	



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TOTAL METALS
EPA 200.8/200.7/7470A
QUALITY CONTROL

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result		Spike Level		Source	Percent		Recovery	RPD		Flags
					Result	Recovery	Limits	RPD	Limit		
MATRIX SPIKES											
Laboratory ID:	04-334-01										
	MS	MSD	MS	MSD		MS	MSD				
Iron	18100	17900	20000	20000	208	90	89	75-125	1	20	
Magnesium	25000	25100	20000	20000	5900	96	96	75-125	0	20	
Manganese	469	464	500	500	22.2	89	88	75-125	1	20	
Laboratory ID:	04-309-01										
Arsenic	114	113	111	111	ND	103	102	75-125	2	20	
Cadmium	108	108	111	111	ND	97	97	75-125	0	20	
Chromium	111	107	111	111	ND	100	97	75-125	3	20	
Copper	110	106	111	111	ND	99	96	75-125	4	20	
Lead	108	107	111	111	ND	97	96	75-125	1	20	
Nickel	108	104	111	111	ND	98	94	75-125	4	20	
Selenium	116	113	111	111	ND	105	102	75-125	3	20	
Zinc	113	111	111	111	ND	102	100	75-125	2	20	
Laboratory ID:	05-023-01										
Mercury	5.80	5.80	6.25	6.25	ND	93	93	75-125	0	20	



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 Laboratory Reference: 2205-024
 Project: 6694-002-05 T700

**DISSOLVED METALS
 EPA 200.8/200.7/7470A
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0505D1					
Calcium	ND	1100	EPA 200.7		5-5-22	
Iron	ND	56	EPA 200.7		5-5-22	
Magnesium	ND	1100	EPA 200.7		5-5-22	
Manganese	ND	11	EPA 200.7		5-5-22	
Potassium	ND	1100	EPA 200.7		5-5-22	
Sodium	ND	1100	EPA 200.7		5-5-22	
Laboratory ID:	MB0504D1					
Arsenic	ND	3.0	EPA 200.8		5-4-22	
Cadmium	ND	4.0	EPA 200.8		5-4-22	
Chromium	ND	10	EPA 200.8		5-4-22	
Copper	ND	10	EPA 200.8		5-4-22	
Lead	ND	1.0	EPA 200.8		5-4-22	
Nickel	ND	20	EPA 200.8		5-4-22	
Selenium	ND	5.0	EPA 200.8		5-4-22	
Zinc	ND	25	EPA 200.8		5-4-22	
Laboratory ID:	MB0504D1					
Mercury	ND	0.025	EPA 7470A		5-4-22	



Date of Report: May 18, 2022
 Samples Submitted: May 3, 2022
 Laboratory Reference: 2205-024
 Project: 6694-002-05 T700

DISSOLVED METALS
EPA 200.8/200.7/7470A
QUALITY CONTROL

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	05-016-02							
	ORIG	DUP						
Calcium	12400	12400	NA	NA	NA	NA	0	20
Iron	ND	ND	NA	NA	NA	NA	NA	20
Magnesium	4080	4050	NA	NA	NA	NA	1	20
Manganese	ND	ND	NA	NA	NA	NA	NA	20
Potassium	ND	ND	NA	NA	NA	NA	NA	20
Sodium	4350	4180	NA	NA	NA	NA	4	20
Laboratory ID:	04-317-01							
Arsenic	3.08	3.24	NA	NA	NA	NA	5	20
Cadmium	ND	ND	NA	NA	NA	NA	NA	20
Chromium	ND	ND	NA	NA	NA	NA	NA	20
Copper	ND	ND	NA	NA	NA	NA	NA	20
Lead	ND	ND	NA	NA	NA	NA	NA	20
Nickel	ND	ND	NA	NA	NA	NA	NA	20
Selenium	ND	ND	NA	NA	NA	NA	NA	20
Zinc	ND	ND	NA	NA	NA	NA	NA	20
Laboratory ID:	04-317-01							
Mercury	ND	ND	NA	NA	NA	NA	NA	20



Date of Report: May 18, 2022
 Samples Submitted: May 3, 2022
 Laboratory Reference: 2205-024
 Project: 6694-002-05 T700

**DISSOLVED METALS
 EPA 200.8/200.7/7470A
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result		Spike Level		Source	Percent		Recovery	RPD		Flags
					Result	Recovery	Limits	RPD	Limit		
MATRIX SPIKES											
Laboratory ID:	05-016-02										
	MS	MSD	MS	MSD		MS	MSD				
Calcium	30500	30600	22200	22200	12400	82	82	75-125	0	20	
Iron	20400	20400	22200	22200	ND	92	92	75-125	0	20	
Magnesium	24300	24300	22200	22200	4080	91	91	75-125	0	20	
Manganese	481	487	556	556	ND	86	88	75-125	1	20	
Potassium	20500	20500	22200	22200	ND	93	93	75-125	0	20	
Sodium	24500	24500	22200	22200	4350	91	91	75-125	0	20	
Laboratory ID:	04-317-01										
Arsenic	80.4	78.2	80.0	80.0	3.08	97	94	75-125	3	20	
Cadmium	74.2	72.6	80.0	80.0	ND	93	91	75-125	2	20	
Chromium	75.8	74.0	80.0	80.0	ND	95	93	75-125	2	20	
Copper	73.6	72.4	80.0	80.0	ND	92	91	75-125	2	20	
Lead	73.2	71.2	80.0	80.0	ND	92	89	75-125	3	20	
Nickel	73.2	72.4	80.0	80.0	ND	92	91	75-125	1	20	
Selenium	80.6	78.0	80.0	80.0	ND	101	98	75-125	3	20	
Zinc	75.4	75.8	80.0	80.0	ND	94	95	75-125	1	20	
Laboratory ID:	04-317-01										
Mercury	6.00	5.93	6.25	6.25	ND	96	95	75-125	1	20	



Date of Report: May 18, 2022
 Samples Submitted: May 3, 2022
 Laboratory Reference: 2205-024
 Project: 6694-002-05 T700

**TOTAL ALKALINITY
 SM 2320B
 QUALITY CONTROL**

Matrix: Water
 Units: mg CaCO₃/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0504W1					
Total Alkalinity	ND	2.0	SM 2320B	5-4-22	5-4-22	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	04-334-02							
	ORIG	DUP						
Total Alkalinity	76.0	78.0	NA	NA	NA	3	10	

SPIKE BLANK								
Laboratory ID:	SB0504W1							
	SB	SB		SB				
Total Alkalinity	94.0	100	NA	94	89-110	NA	NA	



Date of Report: December 15, 2021
 Samples Submitted: December 7, 2021
 Laboratory Reference: 2112-075
 Project: 6694-002-05 T700

**BICARBONATE
 SM 2320B
 QUALITY CONTROL**

Matrix: Water
 Units: mg CaCO₃/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0504W1					
Bicarbonate	ND	2.0	SM 2320B	5-4-22	5-4-22	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	04-334-02							
	ORIG	DUP						
Bicarbonate	76.0	78.0	NA	NA	NA	3	10	

SPIKE BLANK								
Laboratory ID:	SB0504W1							
	SB	SB		SB				
Bicarbonate	94.0	100	NA	94	89-110	NA	NA	



Date of Report: May 18, 2022
 Samples Submitted: May 3, 2022
 Laboratory Reference: 2205-024
 Project: 6694-002-05 T700

**TOTAL DISSOLVED SOLIDS
 SM 2540C
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0505W1					
Total Dissolved Solids	ND	13	SM 2540C	5-5-22	5-5-22	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	05-024-01							
	ORIG	DUP						
Total Dissolved Solids	288	272	NA	NA	NA	6	23	

SPIKE BLANK								
Laboratory ID:	SB0505W1							
	SB	SB		SB				
Total Dissolved Solids	471	500	NA	94	89-110	NA	NA	



Date of Report: May 18, 2022
 Samples Submitted: May 3, 2022
 Laboratory Reference: 2205-024
 Project: 6694-002-05 T700

**CHLORIDE
 SM 4500-Cl E
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0516W2					
Chloride	ND	2.0	SM 4500-Cl E	5-16-22	5-16-22	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	05-024-01							
	ORIG	DUP						
Chloride	3.88	4.28	NA	NA	NA	10	11	

MATRIX SPIKE								
Laboratory ID:	05-024-01							
	MS	MS		MS				
Chloride	54.8	50.0	3.88	102	90-121	NA	NA	

SPIKE BLANK								
Laboratory ID:	SB0516W2							
	SB	SB		SB				
Chloride	47.1	50.0	NA	94	90-119	NA	NA	



Date of Report: May 18, 2022
 Samples Submitted: May 3, 2022
 Laboratory Reference: 2205-024
 Project: 6694-002-05 T700

**NITRATE (as Nitrogen)
 EPA 353.2
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L-N

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0504W1					
Nitrate	ND	0.050	EPA 353.2	5-4-22	5-4-22	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	05-024-01							
	ORIG	DUP						
Nitrate	0.123	0.109	NA	NA	NA	12	10	C

MATRIX SPIKE								
Laboratory ID:	05-024-01							
	MS	MS		MS				
Nitrate	2.06	2.00	0.123	97	88-125	NA	NA	

SPIKE BLANK								
Laboratory ID:	SB0504W1							
	SB	SB		SB				
Nitrate	1.94	2.00	NA	97	90-120	NA	NA	



Date of Report: May 18, 2022
 Samples Submitted: May 3, 2022
 Laboratory Reference: 2205-024
 Project: 6694-002-05 T700

**SULFATE
 ASTM D516-11
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0509W1					
Sulfate	ND	5.0	ASTM D516-11	5-9-22	5-9-22	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	04-337-01							
	ORIG	DUP						
Sulfate	ND	ND	NA	NA	NA	NA	10	

MATRIX SPIKE								
Laboratory ID:	04-337-01							
	MS	MS		MS				
Sulfate	11.3	10.0	ND	113	72-128	NA	NA	

SPIKE BLANK								
Laboratory ID:	SB0509W1							
	SB	SB		SB				
Sulfate	9.23	10.0	NA	92	85-114	NA	NA	



Date of Report: May 18, 2022
 Samples Submitted: May 3, 2022
 Laboratory Reference: 2205-024
 Project: 6694-002-05 T700

**AMMONIA (as Nitrogen)
 SM 4500-NH₃ D
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0516W1					
Ammonia	ND	0.050	SM 4500-NH3 D	5-16-22	5-16-22	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	05-024-01							
	ORIG	DUP						
Ammonia	0.101	0.0940	NA	NA	NA	7	15	

MATRIX SPIKE								
Laboratory ID:	05-024-01							
	MS	MS		MS				
Ammonia	4.73	5.00	0.101	93	87-110	NA	NA	

SPIKE BLANK								
Laboratory ID:	SB0516W1							
	SB	SB		SB				
Ammonia	4.57	5.00	NA	91	88-110	NA	NA	





Data Qualifiers and Abbreviations

- A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.
 - B - The analyte indicated was also found in the blank sample.
 - C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.
 - E - The value reported exceeds the quantitation range and is an estimate.
 - F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.
 - H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.
 - I - Compound recovery is outside of the control limits.
 - J - The value reported was below the practical quantitation limit. The value is an estimate.
 - K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.
 - L - The RPD is outside of the control limits.
 - M - Hydrocarbons in the gasoline range are impacting the diesel range result.
 - M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.
 - N - Hydrocarbons in the lube oil range are impacting the diesel range result.
 - N1 - Hydrocarbons in diesel range are impacting lube oil range results.
 - O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.
 - P - The RPD of the detected concentrations between the two columns is greater than 40.
 - Q - Surrogate recovery is outside of the control limits.
 - S - Surrogate recovery data is not available due to the necessary dilution of the sample.
 - T - The sample chromatogram is not similar to a typical _____.
 - U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
 - U1 - The practical quantitation limit is elevated due to interferences present in the sample.
 - V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.
 - W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.
 - X - Sample extract treated with a mercury cleanup procedure.
 - X1 - Sample extract treated with a sulfuric acid/silica gel cleanup procedure.
 - Y - The calibration verification for this analyte exceeded the 20% drift specified in methods 8260 & 8270, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.
 - Z -
- ND - Not Detected at PQL
 PQL - Practical Quantitation Limit
 RPD - Relative Percent Difference





OnSite Environmental Inc

David Baumeister
14648 NE 95th Street
Redmond, WA 98052

RE: 05-024

Work Order Number: 2205107

May 18, 2022

Attention David Baumeister:

Fremont Analytical, Inc. received 1 sample(s) on 5/4/2022 for the analyses presented in the following report.

Herbicides by EPA Method 8151A (GC/MS)

This report consists of the following:

- Case Narrative
- Analytical Results
- Applicable Quality Control Summary Reports
- Chain of Custody

All analyses were performed consistent with the Quality Assurance program of Fremont Analytical, Inc. Please contact the laboratory if you should have any questions about the results.

Thank you for using Fremont Analytical.

Sincerely,

Brianna Barnes
Project Manager



CLIENT: OnSite Environmental Inc
Project: 05-024
Work Order: 2205107

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received
2205107-001	MW-6-220503	05/03/2022 12:00 PM	05/04/2022 2:18 PM

DRAFT

Note: If no "Time Collected" is supplied, a default of 12:00AM is assigned

CLIENT: OnSite Environmental Inc

Project: 05-024

I. SAMPLE RECEIPT:

Samples receipt information is recorded on the attached Sample Receipt Checklist.

II. GENERAL REPORTING COMMENTS:

Results are reported on a wet weight basis unless dry-weight correction is denoted in the units field on the analytical report ("mg/kg-dry" or "ug/kg-dry").

Matrix Spike (MS) and MS Duplicate (MSD) samples are tested from an analytical batch of "like" matrix to check for possible matrix effect. The MS and MSD will provide site specific matrix data only for those samples which are spiked by the laboratory. The sample chosen for spike purposes may or may not have been a sample submitted in this sample delivery group. The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The LCS and the MB are processed with the samples and the MS/MSD to ensure method criteria are achieved throughout the entire analytical process.

III. ANALYSES AND EXCEPTIONS:

Exceptions associated with this report will be footnoted in the analytical results page(s) or the quality control summary page(s) and/or noted below.

DRAFT

Qualifiers:

- * - Flagged value is not within established control limits
- B - Analyte detected in the associated Method Blank
- D - Dilution was required
- E - Value above quantitation range
- H - Holding times for preparation or analysis exceeded
- I - Analyte with an internal standard that does not meet established acceptance criteria
- J - Analyte detected below Reporting Limit
- N - Tentatively Identified Compound (TIC)
- Q - Analyte with an initial or continuing calibration that does not meet established acceptance criteria
- S - Spike recovery outside accepted recovery limits
- ND - Not detected at the Reporting Limit
- R - High relative percent difference observed

Acronyms:

- %Rec - Percent Recovery
- CCB - Continued Calibration Blank
- CCV - Continued Calibration Verification
- DF - Dilution Factor
- DUP - Sample Duplicate
- HEM - Hexane Extractable Material
- ICV - Initial Calibration Verification
- LCS/LCSD - Laboratory Control Sample / Laboratory Control Sample Duplicate
- MCL - Maximum Contaminant Level
- MB or MBLANK - Method Blank
- MDL - Method Detection Limit
- MS/MSD - Matrix Spike / Matrix Spike Duplicate
- PDS - Post Digestion Spike
- Ref Val - Reference Value
- REP - Sample Replicate
- RL - Reporting Limit
- RPD - Relative Percent Difference
- SD - Serial Dilution
- SGT - Silica Gel Treatment
- SPK - Spike
- Surr - Surrogate



Client: OnSite Environmental Inc

Collection Date: 5/3/2022 12:00:00 PM

Project: 05-024

Lab ID: 2205107-001

Matrix: Water

Client Sample ID: MW-6-220503

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Herbicides by EPA Method 8151A (GC/MS)

Batch ID: 36363

Analyst: OK

Dicamba	ND	0.985		µg/L	1	5/13/2022 2:59:32 PM
2,4-D	ND	0.985		µg/L	1	5/13/2022 2:59:32 PM
2,4-DP	ND	0.985		µg/L	1	5/13/2022 2:59:32 PM
2,4,5-TP (Silvex)	ND	0.985		µg/L	1	5/13/2022 2:59:32 PM
2,4,5-T	ND	0.985		µg/L	1	5/13/2022 2:59:32 PM
Dinoseb	ND	0.985		µg/L	1	5/13/2022 2:59:32 PM
Dalapon	ND	1.97		µg/L	1	5/13/2022 2:59:32 PM
2,4-DB	ND	0.985		µg/L	1	5/13/2022 2:59:32 PM
MCPP	ND	4.93		µg/L	1	5/13/2022 2:59:32 PM
MCPA	ND	4.93		µg/L	1	5/13/2022 2:59:32 PM
Picloram	ND	0.985		µg/L	1	5/13/2022 2:59:32 PM
Bentazon	ND	0.985		µg/L	1	5/13/2022 2:59:32 PM
Chloramben	ND	0.985		µg/L	1	5/13/2022 2:59:32 PM
Acifluorfen	ND	4.93		µg/L	1	5/13/2022 2:59:32 PM
3,5-Dichlorobenzoic acid	ND	0.985		µg/L	1	5/13/2022 2:59:32 PM
4-Nitrophenol	ND	0.985		µg/L	1	5/13/2022 2:59:32 PM
Dacthal (DCPA)	ND	1.97		µg/L	1	5/13/2022 2:59:32 PM
Surr: 2,4-Dichlorophenylacetic acid	100	65.7 - 136		%Rec	1	5/13/2022 2:59:32 PM

Work Order: 2205107
 CLIENT: OnSite Environmental Inc
 Project: 05-024

QC SUMMARY REPORT
Herbicides by EPA Method 8151A (GC/MS)

Sample ID: MB-36363	SampType: MBLK	Units: µg/L	Prep Date: 5/9/2022	RunNo: 75476							
Client ID: MBLKW	Batch ID: 36363		Analysis Date: 5/13/2022	SeqNo: 1548821							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Dicamba	ND	0.996									
2,4-D	ND	0.996									
2,4-DP	ND	0.996									
2,4,5-TP (Silvex)	ND	0.996									
2,4,5-T	ND	0.996									
Dinoseb	ND	0.996									
Dalapon	ND	1.99									
2,4-DB	ND	0.996									
MCPP	ND	4.98									
MCPA	ND	4.98									
Picloram	ND	0.996									
Bentazon	ND	0.996									
Chloramben	ND	0.996									
Acifluorfen	ND	4.98									
3,5-Dichlorobenzoic acid	ND	0.996									
4-Nitrophenol	ND	0.996									
Dacthal (DCPA)	ND	1.99									
Surr: 2,4-Dichlorophenylacetic acid	18.5		19.91		93.0	65.7	136				

Sample ID: LCS-36363	SampType: LCS	Units: µg/L	Prep Date: 5/9/2022	RunNo: 75476							
Client ID: LCSW	Batch ID: 36363		Analysis Date: 5/13/2022	SeqNo: 1548822							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Dicamba	4.04	0.993	3.974	0	102	16.6	148				
2,4-D	4.77	0.993	3.974	0	120	50.4	150				
2,4-DP	4.33	0.993	3.974	0	109	53	135				
2,4,5-TP (Silvex)	4.52	0.993	3.974	0	114	53.6	140				
2,4,5-T	4.49	0.993	3.974	0	113	50	141				
Dinoseb	3.69	0.993	3.974	0	92.8	5	119				
Dalapon	11.7	1.99	19.87	0	59.0	5.65	97.2				

Work Order: 2205107
 CLIENT: OnSite Environmental Inc
 Project: 05-024

QC SUMMARY REPORT
Herbicides by EPA Method 8151A (GC/MS)

Sample ID: LCS-36363	SampType: LCS	Units: µg/L				Prep Date: 5/9/2022	RunNo: 75476				
Client ID: LCSW	Batch ID: 36363					Analysis Date: 5/13/2022	SeqNo: 1548822				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
2,4-DB	4.47	0.993	3.974	0	112	54.9	141				
MCPP	17.2	4.97	19.87	0	86.6	28.7	166				
MCPA	17.6	4.97	19.87	0	88.5	20.7	176				
Picloram	3.56	0.993	3.974	0	89.5	9.72	120				
Bentazon	4.42	0.993	3.974	0	111	41.2	141				
Chloramben	2.39	0.993	3.974	0	60.1	5	109				
Acifluorfen	3.95	3.87	3.974	0	99.3	7.62	139				
3,5-Dichlorobenzoic acid	4.07	0.993	3.974	0	102	52.4	120				
4-Nitrophenol	0.821	0.497	3.974	0	20.6	5	107				
Dacthal (DCPA)	2.08	1.99	3.974	0	52.4	5	65.4				
Surr: 2,4-Dichlorophenylacetic acid	19.6		19.87		98.6	65.7	136				

Sample ID: LCS-36363	SampType: LCS	Units: µg/L				Prep Date: 5/9/2022	RunNo: 75476				
Client ID: LCSW02	Batch ID: 36363					Analysis Date: 5/13/2022	SeqNo: 1548822				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dicamba	4.41	0.996	3.984	0	111	16.6	148	4.043	8.63	30	
2,4-D	5.41	0.996	3.984	0	136	50.4	150	4.765	12.7	30	
2,4-DP	4.86	0.996	3.984	0	122	53	135	4.327	11.6	30	
2,4,5-TP (Silvex)	5.18	0.996	3.984	0	130	53.6	140	4.515	13.8	30	
2,4,5-T	5.19	0.996	3.984	0	130	50	141	4.485	14.5	30	
Dinoseb	4.12	0.996	3.984	0	103	5	119	3.689	11.1	30	
Dalapon	11.5	1.99	19.92	0	57.6	5.65	97.2	11.72	2.13	30	
2,4-DB	5.12	0.996	3.984	0	128	54.9	141	4.466	13.6	30	
MCPP	18.7	4.98	19.92	0	93.7	28.7	166	17.21	8.10	30	
MCPA	19.1	4.98	19.92	0	96.1	20.7	176	17.59	8.40	30	
Picloram	4.21	0.996	3.984	0	106	9.72	120	3.556	16.9	30	
Bentazon	5.00	0.996	3.984	0	125	41.2	141	4.424	12.2	30	
Chloramben	3.30	0.996	3.984	0	82.7	5	109	2.388	31.9	30	
Acifluorfen	4.36	3.98	3.984	0	109	7.62	139	3.947	9.91	30	

Work Order: 2205107
 CLIENT: OnSite Environmental Inc
 Project: 05-024

QC SUMMARY REPORT
Herbicides by EPA Method 8151A (GC/MS)

Sample ID: LCS D-36363	SampType: LCS D	Units: µg/L	Prep Date: 5/9/2022	RunNo: 75476							
Client ID: LCS W02	Batch ID: 36363		Analysis Date: 5/13/2022	SeqNo: 1548823							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
3,5-Dichlorobenzoic acid	4.35	0.996	3.984	0	109	52.4	120	4.068	6.78	30	
4-Nitrophenol	2.34	0.996	3.984	0	58.7	5	107	0.8205	96.1	30	R
Dacthal (DCPA)	1.93	1.49	3.984	0	48.5	5	65.4	2.083	7.42	30	
Surr: 2,4-Dichlorophenylacetic acid	21.0		19.92		105	65.7	136		0		
NOTES:											
R - High RPD observed, spike recovery is within range.											

Sample ID: 2205170-001AMS	SampType: MS	Units: µg/L	Prep Date: 5/9/2022	RunNo: 75476							
Client ID: BATCH	Batch ID: 36363		Analysis Date: 5/13/2022	SeqNo: 1548828							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dicamba	4.62	1.00	4.003	0	115	31	142				
2,4-D	5.65	1.00	4.003	0	141	50.3	149				
2,4-DP	5.05	1.00	4.003	0	126	49.9	143				
2,4,5-TP (Silvex)	5.42	1.00	4.003	0	135	47.7	141				
2,4,5-T	5.47	1.00	4.003	0	137	34.4	139				
Dinoseb	5.07	1.00	4.003	0	127	27.3	117				S
Dalapon	11.3	2.00	20.02	0	56.6	14.2	113				
2,4-DB	5.50	1.00	4.003	0	137	31.3	147				
MCPP	19.4	5.00	20.02	0	97.1	30.5	177				
MCPA	19.9	5.00	20.02	0	99.2	36.8	163				
Picloram	4.32	1.00	4.003	0	108	18.8	115				
Bentazon	5.44	1.00	4.003	0	136	11.9	176				
Chloramben	3.40	1.00	4.003	0	84.9	5	112				
Acifluorfen	5.12	5.00	4.003	0	128	28.1	146				
3,5-Dichlorobenzoic acid	4.66	1.00	4.003	0	117	36.2	146				
4-Nitrophenol	1.39	1.00	4.003	0	34.6	5	116				
Dacthal (DCPA)	1.63	1.50	4.003	0	40.6	5	84.6				
Surr: 2,4-Dichlorophenylacetic acid	21.7		20.02		109	65.7	136				
NOTES:											
S - Outlying spike recoveries were associated with this sample (high bias, non-detect).											



Work Order: 2205107
CLIENT: OnSite Environmental Inc
Project: 05-024

QC SUMMARY REPORT
Herbicides by EPA Method 8151A (GC/MS)

DRAFT

Client Name: ONSITE

Work Order Number: 2205107

Logged by: Gabrielle Coeuille

Date Received: 5/4/2022 2:18:00 PM

Chain of Custody

1. Is Chain of Custody complete? Yes No Not Present
2. How was the sample delivered? Client

Log In

3. Coolers are present? Yes No NA
4. Shipping container/cooler in good condition? Yes No
5. Custody Seals present on shipping container/cooler?
(Refer to comments for Custody Seals not intact) Yes No Not Present
6. Was an attempt made to cool the samples? Yes No NA
7. Were all items received at a temperature of >2°C to 6°C * Yes No NA
8. Sample(s) in proper container(s)? Yes No
9. Sufficient sample volume for indicated test(s)? Yes No
10. Are samples properly preserved? Yes No
11. Was preservative added to bottles? Yes No NA
12. Is there headspace in the VOA vials? Yes No NA
13. Did all samples containers arrive in good condition(unbroken)? Yes No
14. Does paperwork match bottle labels? Yes No
15. Are matrices correctly identified on Chain of Custody? Yes No
16. Is it clear what analyses were requested? Yes No
17. Were all holding times able to be met? Yes No

Special Handling (if applicable)

18. Was client notified of all discrepancies with this order? Yes No NA

Person Notified:	<input type="text"/>	Date:	<input type="text"/>
By Whom:	<input type="text"/>	Via:	<input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:	<input type="text"/>		
Client Instructions:	<input type="text"/>		

19. Additional remarks:

Item Information

Item #	Temp °C
Sample	5.9

* Note: DoD/ELAP and TNI require items to be received at 4°C +/- 2°C



14648 NE 95th Street, Redmond, WA 98052 · (425) 883-3881

Laboratory: Fremont Analytical

Attention: Chelsea Ward

3600 Fremont Avenue N, Seattle, WA 98103

Phone Number: (206) 352-3790

Turnaround Request

1 Day 2 Day 3 Day

Standard

Other: _____

2205107

Laboratory Reference #: 05-024

Project Manager: David Baumeister

email: dbaumeister@onsite-env.com

Project Number: 6694-002-05

Project Name: _____

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	# of Cont.	Requested Analyses
	MW-6-220503	5/3/22	12:00	W	1	Chlorinated Acid Herbicides 8151
Signature	Company	Date	Time	Comments/Special Instructions		
Relinquished by: <i>[Signature]</i>	OSE	5/4/22	12:27	EDDs		
Received by: <i>[Signature]</i>	ALPHA A	5/4/22	12:27			
Relinquished by: <i>[Signature]</i>	ALPHA	5/4/22	1:57			
Received by: <i>Justin Pogre</i>	FAI	5/4/22	14:17			
Relinquished by: _____						
Received by: _____						

Chain of Custody

Company: GEI

Project Number: 6694-002-05

Project Name: Go East

Project Manager: Garnett Leque

Sampled by: PC

Turnaround Request (in working days)

(Check One)

Same Day 1 Day

2 Days 3 Days

Standard (7 Days)

_____ (other)

Laboratory Number: 05-024

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX (802) <input type="checkbox"/> 8260 <input type="checkbox"/>	NWTPH-Gx	NWTPH-Dx (Acid / SG Clean-up) <input type="checkbox"/>	Volatiles 8260	Halogenated Volatiles 8260	EDB EPA 8011 (Waters Only)	Semivolatiles 8270/SIM (with low-level PAHs)	PAHs 8270/SIM (low-level)	PCBs 8082	Organochlorine Pesticides 8081	Organophosphorus Pesticides 8270/SIM	Chlorinated Acid Herbicides 8151	Total RCRA Metals	Total HAPs Metals <u>DISSOLVED Ca, Na, K</u>	TCLP Metals	HEM (oil and grease) 1664	TDS	Total and dissolved metals	Alkalinity + bicarbonate	As, Cd, Cr, Cu, Fe, Pb, Mn, Hg, Se, Zn, Mo	% Moisture <u>Cl, NO₃, SO₄, NH₃</u>	
1	MW-6-220503	5/3/22	1200	W	18			X	X	X			X			X	X	X		X			X	X	X	X	X	
1	SWS 4-220503	5/3/22	1330	W	17			X	X	X			X			X	X	X		X			X	X	X	X	X	

	Signature	Company	Date	Time	Comments/Special Instructions
Relinquished		GEI	5/3/22	1510	Total dissolved metals
Received		CSB	5/3/22	1510	Please refer to Garnett for full list
Relinquished					only total metals
Received					*As, Cd, Cr, Cu, Fe, Pb, Mn, Hg, Se, Zn, Mo
Relinquished					Data Package: Standard <input type="checkbox"/> Level III <input type="checkbox"/> Level IV <input type="checkbox"/>
Received					Chromatograms with final report <input type="checkbox"/> Electronic Data Deliverables (EDDs) <input type="checkbox"/>
Reviewed/Date		Reviewed/Date			



14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

May 19, 2022

Garrett Leque
GeoEngineers, Inc.
554 West Bakerview Road
Bellingham, WA 98226

Re: Analytical Data for Project 6694-002-05 T700
Laboratory Reference No. 2205-065

Dear Garrett:

Enclosed are the analytical results and associated quality control data for samples submitted on May 5, 2022.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

A handwritten signature in black ink, appearing to read "DB", with a horizontal line extending to the right.

David Baumeister
Project Manager

Enclosures



OnSite Environmental, Inc. 14648 NE 95th Street, Redmond, WA 98052 (425) 883-3881

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: May 19, 2022
Samples Submitted: May 5, 2022
Laboratory Reference: 2205-065
Project: 6694-002-05 T700

Case Narrative

Samples were collected on May 4, 2022 and received by the laboratory on May 5, 2022. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.



Date of Report: May 19, 2022
Samples Submitted: May 5, 2022
Laboratory Reference: 2205-065
Project: 6694-002-05 T700

ANALYTICAL REPORT FOR SAMPLES

Client ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
MW-1-220504	05-065-01	Water	5-4-22	5-5-22	

DRAFT



Date of Report: May 19, 2022
 Samples Submitted: May 5, 2022
 Laboratory Reference: 2205-065
 Project: 6694-002-05 T700

GASOLINE RANGE ORGANICS
NWTPH-Gx

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-1-220504					
Laboratory ID:	05-065-01					
Gasoline	ND	100	NWTPH-Gx	5-9-22	5-9-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	91	65-122				



Date of Report: May 19, 2022
 Samples Submitted: May 5, 2022
 Laboratory Reference: 2205-065
 Project: 6694-002-05 T700

DIESEL AND HEAVY OIL RANGE ORGANICS
NWTPH-Dx

Matrix: Water
 Units: mg/L (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-1-220504					
Laboratory ID:	05-065-01					
Diesel Range Organics	ND	0.20	NWTPH-Dx	5-16-22	5-16-22	
Lube Oil Range Organics	ND	0.20	NWTPH-Dx	5-16-22	5-16-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	91	50-150				



Date of Report: May 19, 2022
 Samples Submitted: May 5, 2022
 Laboratory Reference: 2205-065
 Project: 6694-002-05 T700

VOLATILE ORGANICS EPA 8260D
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-1-220504					
Laboratory ID:	05-065-01					
Dichlorodifluoromethane	ND	0.20	EPA 8260D	5-6-22	5-6-22	
Chloromethane	ND	1.0	EPA 8260D	5-6-22	5-6-22	
Vinyl Chloride	ND	0.20	EPA 8260D	5-6-22	5-6-22	
Bromomethane	ND	2.3	EPA 8260D	5-6-22	5-6-22	
Chloroethane	ND	1.0	EPA 8260D	5-6-22	5-6-22	
Trichlorofluoromethane	ND	0.20	EPA 8260D	5-6-22	5-6-22	
1,1-Dichloroethene	ND	0.20	EPA 8260D	5-6-22	5-6-22	
Acetone	ND	5.0	EPA 8260D	5-6-22	5-6-22	
Iodomethane	ND	34	EPA 8260D	5-6-22	5-6-22	
Carbon Disulfide	ND	0.20	EPA 8260D	5-6-22	5-6-22	
Methylene Chloride	ND	1.0	EPA 8260D	5-6-22	5-6-22	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	5-6-22	5-6-22	
Methyl t-Butyl Ether	ND	0.20	EPA 8260D	5-6-22	5-6-22	
1,1-Dichloroethane	ND	0.20	EPA 8260D	5-6-22	5-6-22	
Vinyl Acetate	ND	1.0	EPA 8260D	5-6-22	5-6-22	
2,2-Dichloropropane	ND	0.20	EPA 8260D	5-6-22	5-6-22	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	5-6-22	5-6-22	
2-Butanone	ND	5.0	EPA 8260D	5-6-22	5-6-22	
Bromochloromethane	ND	0.20	EPA 8260D	5-6-22	5-6-22	
Chloroform	ND	0.20	EPA 8260D	5-6-22	5-6-22	
1,1,1-Trichloroethane	ND	0.20	EPA 8260D	5-6-22	5-6-22	
Carbon Tetrachloride	ND	0.20	EPA 8260D	5-6-22	5-6-22	
1,1-Dichloropropene	ND	0.20	EPA 8260D	5-6-22	5-6-22	
Benzene	ND	0.20	EPA 8260D	5-6-22	5-6-22	
1,2-Dichloroethane	ND	0.20	EPA 8260D	5-6-22	5-6-22	
Trichloroethene	ND	0.20	EPA 8260D	5-6-22	5-6-22	
1,2-Dichloropropane	ND	0.20	EPA 8260D	5-6-22	5-6-22	
Dibromomethane	ND	0.20	EPA 8260D	5-6-22	5-6-22	
Bromodichloromethane	ND	0.20	EPA 8260D	5-6-22	5-6-22	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260D	5-6-22	5-6-22	
Methyl Isobutyl Ketone	ND	2.0	EPA 8260D	5-6-22	5-6-22	
Toluene	ND	1.0	EPA 8260D	5-6-22	5-6-22	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260D	5-6-22	5-6-22	



Date of Report: May 19, 2022
 Samples Submitted: May 5, 2022
 Laboratory Reference: 2205-065
 Project: 6694-002-05 T700

VOLATILE ORGANICS EPA 8260D
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-1-220504					
Laboratory ID:	05-065-01					
1,1,2-Trichloroethane	ND	0.20	EPA 8260D	5-6-22	5-6-22	
Tetrachloroethene	ND	0.20	EPA 8260D	5-6-22	5-6-22	
1,3-Dichloropropane	ND	0.20	EPA 8260D	5-6-22	5-6-22	
2-Hexanone	ND	2.0	EPA 8260D	5-6-22	5-6-22	
Dibromochloromethane	ND	0.20	EPA 8260D	5-6-22	5-6-22	
1,2-Dibromoethane	ND	0.20	EPA 8260D	5-6-22	5-6-22	
Chlorobenzene	ND	0.20	EPA 8260D	5-6-22	5-6-22	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260D	5-6-22	5-6-22	
Ethylbenzene	ND	0.20	EPA 8260D	5-6-22	5-6-22	
m,p-Xylene	ND	0.40	EPA 8260D	5-6-22	5-6-22	
o-Xylene	ND	0.20	EPA 8260D	5-6-22	5-6-22	
Styrene	ND	0.20	EPA 8260D	5-6-22	5-6-22	
Bromoform	ND	1.0	EPA 8260D	5-6-22	5-6-22	
Isopropylbenzene	ND	0.20	EPA 8260D	5-6-22	5-6-22	
Bromobenzene	ND	0.20	EPA 8260D	5-6-22	5-6-22	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260D	5-6-22	5-6-22	
1,2,3-Trichloropropane	ND	0.20	EPA 8260D	5-6-22	5-6-22	
n-Propylbenzene	ND	0.20	EPA 8260D	5-6-22	5-6-22	
2-Chlorotoluene	ND	0.20	EPA 8260D	5-6-22	5-6-22	
4-Chlorotoluene	ND	0.20	EPA 8260D	5-6-22	5-6-22	
1,3,5-Trimethylbenzene	ND	0.20	EPA 8260D	5-6-22	5-6-22	
tert-Butylbenzene	ND	0.20	EPA 8260D	5-6-22	5-6-22	
1,2,4-Trimethylbenzene	ND	0.20	EPA 8260D	5-6-22	5-6-22	
sec-Butylbenzene	ND	0.20	EPA 8260D	5-6-22	5-6-22	
1,3-Dichlorobenzene	ND	0.20	EPA 8260D	5-6-22	5-6-22	
p-Isopropyltoluene	ND	0.20	EPA 8260D	5-6-22	5-6-22	
1,4-Dichlorobenzene	ND	0.20	EPA 8260D	5-6-22	5-6-22	
1,2-Dichlorobenzene	ND	0.20	EPA 8260D	5-6-22	5-6-22	
n-Butylbenzene	ND	0.20	EPA 8260D	5-6-22	5-6-22	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260D	5-6-22	5-6-22	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260D	5-6-22	5-6-22	
Hexachlorobutadiene	ND	1.0	EPA 8260D	5-6-22	5-6-22	
Naphthalene	ND	1.0	EPA 8260D	5-6-22	5-6-22	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260D	5-6-22	5-6-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>106</i>	<i>75-127</i>				
<i>Toluene-d8</i>	<i>105</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>101</i>	<i>78-125</i>				



Date of Report: May 19, 2022
 Samples Submitted: May 5, 2022
 Laboratory Reference: 2205-065
 Project: 6694-002-05 T700

SEMIVOLATILE ORGANICS EPA 8270E/SIM
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-1-220504					
Laboratory ID:	05-065-01					
n-Nitrosodimethylamine	ND	1.0	EPA 8270E	5-6-22	5-9-22	
Pyridine	ND	1.0	EPA 8270E	5-6-22	5-9-22	
Phenol	ND	1.0	EPA 8270E	5-6-22	5-9-22	
Aniline	ND	6.5	EPA 8270E	5-6-22	5-9-22	
bis(2-Chloroethyl)ether	ND	1.0	EPA 8270E	5-6-22	5-9-22	
2-Chlorophenol	ND	1.0	EPA 8270E	5-6-22	5-9-22	
1,3-Dichlorobenzene	ND	1.0	EPA 8270E	5-6-22	5-9-22	
1,4-Dichlorobenzene	ND	1.0	EPA 8270E	5-6-22	5-9-22	
Benzyl alcohol	ND	1.0	EPA 8270E	5-6-22	5-9-22	
1,2-Dichlorobenzene	ND	1.0	EPA 8270E	5-6-22	5-9-22	
2-Methylphenol (o-Cresol)	ND	1.0	EPA 8270E	5-6-22	5-9-22	
bis(2-Chloroisopropyl)ether	ND	1.0	EPA 8270E	5-6-22	5-9-22	
(3+4)-Methylphenol (m,p-Cresol)	ND	1.0	EPA 8270E	5-6-22	5-9-22	
n-Nitroso-di-n-propylamine	ND	1.0	EPA 8270E	5-6-22	5-9-22	
Hexachloroethane	ND	1.0	EPA 8270E	5-6-22	5-9-22	
Nitrobenzene	ND	1.0	EPA 8270E	5-6-22	5-9-22	
Isophorone	ND	1.0	EPA 8270E	5-6-22	5-9-22	
2-Nitrophenol	ND	1.0	EPA 8270E	5-6-22	5-9-22	
2,4-Dimethylphenol	ND	1.0	EPA 8270E	5-6-22	5-9-22	
bis(2-Chloroethoxy)methane	ND	1.0	EPA 8270E	5-6-22	5-9-22	
2,4-Dichlorophenol	ND	1.0	EPA 8270E	5-6-22	5-9-22	
1,2,4-Trichlorobenzene	ND	1.0	EPA 8270E	5-6-22	5-9-22	
Naphthalene	ND	0.10	EPA 8270E/SIM	5-6-22	5-9-22	
4-Chloroaniline	ND	1.0	EPA 8270E	5-6-22	5-9-22	
Hexachlorobutadiene	ND	1.0	EPA 8270E	5-6-22	5-9-22	
4-Chloro-3-methylphenol	ND	1.0	EPA 8270E	5-6-22	5-9-22	
2-Methylnaphthalene	ND	0.10	EPA 8270E/SIM	5-6-22	5-9-22	
1-Methylnaphthalene	ND	0.10	EPA 8270E/SIM	5-6-22	5-9-22	
Hexachlorocyclopentadiene	ND	1.0	EPA 8270E	5-6-22	5-9-22	
2,4,6-Trichlorophenol	ND	1.0	EPA 8270E	5-6-22	5-9-22	
2,3-Dichloroaniline	ND	1.0	EPA 8270E	5-6-22	5-9-22	
2,4,5-Trichlorophenol	ND	1.0	EPA 8270E	5-6-22	5-9-22	
2-Chloronaphthalene	ND	1.0	EPA 8270E	5-6-22	5-9-22	
2-Nitroaniline	ND	1.0	EPA 8270E	5-6-22	5-9-22	
1,4-Dinitrobenzene	ND	1.0	EPA 8270E	5-6-22	5-9-22	
Dimethylphthalate	ND	5.1	EPA 8270E	5-6-22	5-9-22	
1,3-Dinitrobenzene	ND	1.0	EPA 8270E	5-6-22	5-9-22	
2,6-Dinitrotoluene	ND	1.0	EPA 8270E	5-6-22	5-9-22	
1,2-Dinitrobenzene	ND	1.0	EPA 8270E	5-6-22	5-9-22	
Acenaphthylene	ND	0.10	EPA 8270E/SIM	5-6-22	5-9-22	
3-Nitroaniline	ND	1.0	EPA 8270E	5-6-22	5-9-22	



Date of Report: May 19, 2022
 Samples Submitted: May 5, 2022
 Laboratory Reference: 2205-065
 Project: 6694-002-05 T700

SEMIVOLATILE ORGANICS EPA 8270E/SIM
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-1-220504					
Laboratory ID:	05-065-01					
2,4-Dinitrophenol	ND	5.1	EPA 8270E	5-6-22	5-9-22	
Acenaphthene	ND	0.10	EPA 8270E/SIM	5-6-22	5-9-22	
4-Nitrophenol	ND	5.1	EPA 8270E	5-6-22	5-9-22	
2,4-Dinitrotoluene	ND	1.0	EPA 8270E	5-6-22	5-9-22	
Dibenzofuran	ND	1.0	EPA 8270E	5-6-22	5-9-22	
2,3,5,6-Tetrachlorophenol	ND	1.0	EPA 8270E	5-6-22	5-9-22	
2,3,4,6-Tetrachlorophenol	ND	1.0	EPA 8270E	5-6-22	5-9-22	
Diethylphthalate	ND	1.0	EPA 8270E	5-6-22	5-9-22	
4-Chlorophenyl-phenylether	ND	1.0	EPA 8270E	5-6-22	5-9-22	
4-Nitroaniline	ND	1.0	EPA 8270E	5-6-22	5-9-22	
Fluorene	ND	0.10	EPA 8270E/SIM	5-6-22	5-9-22	
4,6-Dinitro-2-methylphenol	ND	5.1	EPA 8270E	5-6-22	5-9-22	
n-Nitrosodiphenylamine	ND	1.0	EPA 8270E	5-6-22	5-9-22	
1,2-Diphenylhydrazine	ND	1.0	EPA 8270E	5-6-22	5-9-22	
4-Bromophenyl-phenylether	ND	1.0	EPA 8270E	5-6-22	5-9-22	
Hexachlorobenzene	ND	1.0	EPA 8270E	5-6-22	5-9-22	
Pentachlorophenol	ND	6.3	EPA 8270E	5-6-22	5-9-22	
Phenanthrene	ND	0.10	EPA 8270E/SIM	5-6-22	5-9-22	
Anthracene	ND	0.10	EPA 8270E/SIM	5-6-22	5-9-22	
Carbazole	ND	1.0	EPA 8270E	5-6-22	5-9-22	
Di-n-butylphthalate	ND	5.1	EPA 8270E	5-6-22	5-9-22	
Fluoranthene	ND	0.10	EPA 8270E/SIM	5-6-22	5-9-22	
Pyrene	ND	0.10	EPA 8270E/SIM	5-6-22	5-9-22	
Butylbenzylphthalate	ND	1.0	EPA 8270E	5-6-22	5-9-22	
bis(2-Ethylhexyl)adipate	ND	5.1	EPA 8270E	5-6-22	5-9-22	
3,3'-Dichlorobenzidine	ND	1.0	EPA 8270E	5-6-22	5-9-22	
Benzo[a]anthracene	ND	0.010	EPA 8270E/SIM	5-6-22	5-9-22	
Chrysene	ND	0.010	EPA 8270E/SIM	5-6-22	5-9-22	
bis(2-Ethylhexyl)phthalate	ND	5.1	EPA 8270E	5-6-22	5-9-22	
Di-n-octylphthalate	ND	1.0	EPA 8270E	5-6-22	5-9-22	
Benzo[b]fluoranthene	ND	0.010	EPA 8270E/SIM	5-6-22	5-9-22	
Benzo(j,k)fluoranthene	ND	0.010	EPA 8270E/SIM	5-6-22	5-9-22	
Benzo[a]pyrene	ND	0.010	EPA 8270E/SIM	5-6-22	5-9-22	
Indeno[1,2,3-cd]pyrene	ND	0.010	EPA 8270E/SIM	5-6-22	5-9-22	
Dibenz[a,h]anthracene	ND	0.010	EPA 8270E/SIM	5-6-22	5-9-22	
Benzo[g,h,i]perylene	ND	0.010	EPA 8270E/SIM	5-6-22	5-9-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
2-Fluorophenol	39	10 - 81				
Phenol-d6	28	10 - 86				
Nitrobenzene-d5	63	27 - 105				
2-Fluorobiphenyl	69	33 - 100				
2,4,6-Tribromophenol	77	25 - 124				
Terphenyl-d14	68	40 - 116				



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PCBs EPA 8082A

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-1-220504					
Laboratory ID:	05-065-01					
Aroclor 1016	ND	0.049	EPA 8082A	5-10-22	5-16-22	
Aroclor 1221	ND	0.049	EPA 8082A	5-10-22	5-16-22	
Aroclor 1232	ND	0.049	EPA 8082A	5-10-22	5-16-22	
Aroclor 1242	ND	0.049	EPA 8082A	5-10-22	5-16-22	
Aroclor 1248	ND	0.049	EPA 8082A	5-10-22	5-16-22	
Aroclor 1254	ND	0.049	EPA 8082A	5-10-22	5-16-22	
Aroclor 1260	ND	0.049	EPA 8082A	5-10-22	5-16-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>DCB</i>	<i>108</i>	<i>49-133</i>				



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**ORGANOCHLORINE
 PESTICIDES EPA 8081B**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-1-220504					
Laboratory ID:	05-065-01					
alpha-BHC	ND	0.0048	EPA 8081B	5-10-22	5-13-22	
gamma-BHC (Lindane)	ND	0.0048	EPA 8081B	5-10-22	5-13-22	
beta-BHC	ND	0.0048	EPA 8081B	5-10-22	5-13-22	
delta-BHC	ND	0.0048	EPA 8081B	5-10-22	5-13-22	
Heptachlor	ND	0.0048	EPA 8081B	5-10-22	5-13-22	
Aldrin	ND	0.0019	EPA 8081B	5-10-22	5-13-22	
Heptachlor Epoxide	ND	0.0029	EPA 8081B	5-10-22	5-13-22	
gamma-Chlordane	ND	0.0048	EPA 8081B	5-10-22	5-13-22	
alpha-Chlordane	ND	0.0048	EPA 8081B	5-10-22	5-13-22	
4,4'-DDE	ND	0.0048	EPA 8081B	5-10-22	5-13-22	
Endosulfan I	ND	0.0048	EPA 8081B	5-10-22	5-13-22	
Dieldrin	ND	0.0048	EPA 8081B	5-10-22	5-13-22	
Endrin	ND	0.0048	EPA 8081B	5-10-22	5-13-22	
4,4'-DDD	ND	0.0048	EPA 8081B	5-10-22	5-13-22	
Endosulfan II	ND	0.0048	EPA 8081B	5-10-22	5-13-22	
4,4'-DDT	ND	0.0048	EPA 8081B	5-10-22	5-13-22	
Endrin Aldehyde	ND	0.0048	EPA 8081B	5-10-22	5-13-22	
Methoxychlor	ND	0.0095	EPA 8081B	5-10-22	5-13-22	
Endosulfan Sulfate	ND	0.0048	EPA 8081B	5-10-22	5-13-22	
Endrin Ketone	ND	0.019	EPA 8081B	5-10-22	5-13-22	
Toxaphene	ND	0.048	EPA 8081B	5-10-22	5-13-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
TCMX	80	21-110				
DCB	88	42-113				



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TOTAL METALS
EPA 200.8/200.7/7470A

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-1-220504					
Laboratory ID:	05-065-01					
Arsenic	5.3	3.3	EPA 200.8	5-11-22	5-11-22	
Cadmium	ND	4.4	EPA 200.8	5-11-22	5-11-22	
Chromium	ND	11	EPA 200.8	5-11-22	5-11-22	
Copper	ND	11	EPA 200.8	5-11-22	5-11-22	
Iron	2200	50	EPA 200.7	5-9-22	5-9-22	
Lead	ND	1.1	EPA 200.8	5-11-22	5-11-22	
Magnesium	9900	1000	EPA 200.7	5-9-22	5-9-22	
Manganese	360	10	EPA 200.7	5-9-22	5-9-22	
Mercury	ND	0.025	EPA 7470A	5-12-22	5-12-22	
Nickel	ND	22	EPA 200.8	5-11-22	5-11-22	
Selenium	ND	5.6	EPA 200.8	5-11-22	5-11-22	
Zinc	ND	28	EPA 200.8	5-11-22	5-11-22	



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DISSOLVED METALS
EPA 200.8/200.7/7470A

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-1-220504					
Laboratory ID:	05-065-01					
Arsenic	4.9	3.0	EPA 200.8		5-11-22	
Cadmium	ND	4.0	EPA 200.8		5-11-22	
Calcium	17000	1100	EPA 200.7		5-10-22	
Chromium	ND	10	EPA 200.8		5-11-22	
Copper	ND	10	EPA 200.8		5-11-22	
Iron	440	56	EPA 200.7		5-10-22	
Lead	ND	1.0	EPA 200.8		5-11-22	
Magnesium	8800	1100	EPA 200.7		5-10-22	
Manganese	310	11	EPA 200.7		5-10-22	
Mercury	ND	0.025	EPA 7470A		5-12-22	
Nickel	ND	20	EPA 200.8		5-11-22	
Potassium	2100	1100	EPA 200.7		5-10-22	
Selenium	ND	5.0	EPA 200.8		5-11-22	
Sodium	5400	1100	EPA 200.7		5-10-22	
Zinc	ND	25	EPA 200.8		5-11-22	



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TOTAL ALKALINITY
SM 2320B

Matrix: Water
Units: mg CaCO₃/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-1-220504					
Laboratory ID:	05-065-01					
Total Alkalinity	86	2.0	SM 2320B	5-12-22	5-12-22	



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**BICARBONATE
SM 2320B**

Matrix: Water
Units: mg CaCO₃/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-1-220504					
Laboratory ID:	05-065-01					
Bicarbonate	86	2.0	SM 2320B	5-12-22	5-12-22	



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**TOTAL DISSOLVED SOLIDS
SM 2540C**

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-1-220504					
Laboratory ID:	05-065-01					
Total Dissolved Solids	120	13	SM 2540C	5-10-22	5-16-22	



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CHLORIDE
SM 4500-Cl E

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-1-220504					
Laboratory ID:	05-065-01					
Chloride	2.3	2.0	SM 4500-Cl E	5-16-22	5-16-22	



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NITRATE (as Nitrogen)
EPA 353.2

Matrix: Water
Units: mg/L-N

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-1-220504					
Laboratory ID:	05-065-01					
Nitrate	ND	0.050	EPA 353.2	5-17-22	5-17-22	



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SULFATE
ASTM D516-11

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-1-220504					
Laboratory ID:	05-065-01					
Sulfate	ND	5.0	ASTM D516-11	5-17-22	5-17-22	



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AMMONIA (as Nitrogen)
SM 4500-NH₃ D

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-1-220504					
Laboratory ID:	05-065-01					
Ammonia	0.13	0.050	SM 4500-NH3 D	5-16-22	5-16-22	



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**GASOLINE RANGE ORGANICS
 NWTPH-Gx
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0509W1					
Gasoline	ND	100	NWTPH-Gx	5-9-22	5-9-22	
Surrogate:	Percent Recovery		Control Limits			
Fluorobenzene	92	65-122				

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	05-065-01							
	ORIG	DUP						
Gasoline	ND	ND	NA	NA	NA	NA	30	
Surrogate:								
Fluorobenzene				91	91	65-122		



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**DIESEL AND HEAVY OIL RANGE ORGANICS
 NWTPH-Dx
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0516W1					
Diesel Range Organics	ND	0.16	NWTPH-Dx	5-16-22	5-16-22	
Lube Oil Range Organics	ND	0.16	NWTPH-Dx	5-16-22	5-16-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	92	50-150				

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	SB0516W1							
	ORIG	DUP						
Diesel Fuel #2	0.427	0.390	NA	NA	NA	NA	9	NA
<i>Surrogate:</i>								
<i>o-Terphenyl</i>				91	82	50-150		



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**VOLATILE ORGANICS EPA 8260D
 QUALITY CONTROL**

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Matrix: Water

Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0506W1					
Dichlorodifluoromethane	ND	0.20	EPA 8260D	5-6-22	5-6-22	
Chloromethane	ND	1.0	EPA 8260D	5-6-22	5-6-22	
Vinyl Chloride	ND	0.20	EPA 8260D	5-6-22	5-6-22	
Bromomethane	ND	2.3	EPA 8260D	5-6-22	5-6-22	
Chloroethane	ND	1.0	EPA 8260D	5-6-22	5-6-22	
Trichlorofluoromethane	ND	0.20	EPA 8260D	5-6-22	5-6-22	
1,1-Dichloroethene	ND	0.20	EPA 8260D	5-6-22	5-6-22	
Acetone	ND	5.0	EPA 8260D	5-6-22	5-6-22	
Iodomethane	ND	34	EPA 8260D	5-6-22	5-6-22	
Carbon Disulfide	ND	0.20	EPA 8260D	5-6-22	5-6-22	
Methylene Chloride	ND	1.0	EPA 8260D	5-6-22	5-6-22	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	5-6-22	5-6-22	
Methyl t-Butyl Ether	ND	0.20	EPA 8260D	5-6-22	5-6-22	
1,1-Dichloroethane	ND	0.20	EPA 8260D	5-6-22	5-6-22	
Vinyl Acetate	ND	1.0	EPA 8260D	5-6-22	5-6-22	
2,2-Dichloropropane	ND	0.20	EPA 8260D	5-6-22	5-6-22	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	5-6-22	5-6-22	
2-Butanone	ND	5.0	EPA 8260D	5-6-22	5-6-22	
Bromochloromethane	ND	0.20	EPA 8260D	5-6-22	5-6-22	
Chloroform	ND	0.20	EPA 8260D	5-6-22	5-6-22	
1,1,1-Trichloroethane	ND	0.20	EPA 8260D	5-6-22	5-6-22	
Carbon Tetrachloride	ND	0.20	EPA 8260D	5-6-22	5-6-22	
1,1-Dichloropropene	ND	0.20	EPA 8260D	5-6-22	5-6-22	
Benzene	ND	0.20	EPA 8260D	5-6-22	5-6-22	
1,2-Dichloroethane	ND	0.20	EPA 8260D	5-6-22	5-6-22	
Trichloroethene	ND	0.20	EPA 8260D	5-6-22	5-6-22	
1,2-Dichloropropane	ND	0.20	EPA 8260D	5-6-22	5-6-22	
Dibromomethane	ND	0.20	EPA 8260D	5-6-22	5-6-22	
Bromodichloromethane	ND	0.20	EPA 8260D	5-6-22	5-6-22	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260D	5-6-22	5-6-22	
Methyl Isobutyl Ketone	ND	2.0	EPA 8260D	5-6-22	5-6-22	
Toluene	ND	1.0	EPA 8260D	5-6-22	5-6-22	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260D	5-6-22	5-6-22	



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**VOLATILE ORGANICS EPA 8260D
 QUALITY CONTROL**

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0506W1					
1,1,2-Trichloroethane	ND	0.20	EPA 8260D	5-6-22	5-6-22	
Tetrachloroethene	ND	0.20	EPA 8260D	5-6-22	5-6-22	
1,3-Dichloropropane	ND	0.20	EPA 8260D	5-6-22	5-6-22	
2-Hexanone	ND	2.0	EPA 8260D	5-6-22	5-6-22	
Dibromochloromethane	ND	0.20	EPA 8260D	5-6-22	5-6-22	
1,2-Dibromoethane	ND	0.20	EPA 8260D	5-6-22	5-6-22	
Chlorobenzene	ND	0.20	EPA 8260D	5-6-22	5-6-22	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260D	5-6-22	5-6-22	
Ethylbenzene	ND	0.20	EPA 8260D	5-6-22	5-6-22	
m,p-Xylene	ND	0.40	EPA 8260D	5-6-22	5-6-22	
o-Xylene	ND	0.20	EPA 8260D	5-6-22	5-6-22	
Styrene	ND	0.20	EPA 8260D	5-6-22	5-6-22	
Bromoform	ND	1.0	EPA 8260D	5-6-22	5-6-22	
Isopropylbenzene	ND	0.20	EPA 8260D	5-6-22	5-6-22	
Bromobenzene	ND	0.20	EPA 8260D	5-6-22	5-6-22	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260D	5-6-22	5-6-22	
1,2,3-Trichloropropane	ND	0.20	EPA 8260D	5-6-22	5-6-22	
n-Propylbenzene	ND	0.20	EPA 8260D	5-6-22	5-6-22	
2-Chlorotoluene	ND	0.20	EPA 8260D	5-6-22	5-6-22	
4-Chlorotoluene	ND	0.20	EPA 8260D	5-6-22	5-6-22	
1,3,5-Trimethylbenzene	ND	0.20	EPA 8260D	5-6-22	5-6-22	
tert-Butylbenzene	ND	0.20	EPA 8260D	5-6-22	5-6-22	
1,2,4-Trimethylbenzene	ND	0.20	EPA 8260D	5-6-22	5-6-22	
sec-Butylbenzene	ND	0.20	EPA 8260D	5-6-22	5-6-22	
1,3-Dichlorobenzene	ND	0.20	EPA 8260D	5-6-22	5-6-22	
p-Isopropyltoluene	ND	0.20	EPA 8260D	5-6-22	5-6-22	
1,4-Dichlorobenzene	ND	0.20	EPA 8260D	5-6-22	5-6-22	
1,2-Dichlorobenzene	ND	0.20	EPA 8260D	5-6-22	5-6-22	
n-Butylbenzene	ND	0.20	EPA 8260D	5-6-22	5-6-22	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260D	5-6-22	5-6-22	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260D	5-6-22	5-6-22	
Hexachlorobutadiene	ND	1.0	EPA 8260D	5-6-22	5-6-22	
Naphthalene	ND	1.0	EPA 8260D	5-6-22	5-6-22	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260D	5-6-22	5-6-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>111</i>	<i>75-127</i>				
<i>Toluene-d8</i>	<i>103</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>101</i>	<i>78-125</i>				



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**VOLATILE ORGANICS EPA 8260D
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD	RPD	Flags
					Recovery	Limits	RPD	Limit		
SPIKE BLANKS										
Laboratory ID:	SB0506W1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	11.0	11.9	10.0	10.0	110	119	78-125	8	19	
Benzene	10.5	11.4	10.0	10.0	105	114	80-121	8	16	
Trichloroethene	10.3	11.0	10.0	10.0	103	110	80-122	7	18	
Toluene	10.2	10.9	10.0	10.0	102	109	80-120	7	18	
Chlorobenzene	9.32	10.2	10.0	10.0	93	102	80-120	9	17	
<i>Surrogate:</i>										
Dibromofluoromethane					106	104	75-127			
Toluene-d8					103	102	80-127			
4-Bromofluorobenzene					106	104	78-125			



Date of Report: May 19, 2022
 Samples Submitted: May 5, 2022
 Laboratory Reference: 2205-065
 Project: 6694-002-05 T700

**SEMIVOLATILE ORGANICS EPA 8270E/SIM
 QUALITY CONTROL**

page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0506W1					
n-Nitrosodimethylamine	ND	1.0	EPA 8270E	5-6-22	5-6-22	
Pyridine	ND	1.0	EPA 8270E	5-6-22	5-6-22	
Phenol	ND	1.0	EPA 8270E	5-6-22	5-6-22	
Aniline	ND	5.0	EPA 8270E	5-6-22	5-6-22	
bis(2-Chloroethyl)ether	ND	1.0	EPA 8270E	5-6-22	5-6-22	
2-Chlorophenol	ND	1.0	EPA 8270E	5-6-22	5-6-22	
1,3-Dichlorobenzene	ND	1.0	EPA 8270E	5-6-22	5-6-22	
1,4-Dichlorobenzene	ND	1.0	EPA 8270E	5-6-22	5-6-22	
Benzyl alcohol	ND	1.0	EPA 8270E	5-6-22	5-6-22	
1,2-Dichlorobenzene	ND	1.0	EPA 8270E	5-6-22	5-6-22	
2-Methylphenol (o-Cresol)	ND	1.0	EPA 8270E	5-6-22	5-6-22	
bis(2-Chloroisopropyl)ether	ND	1.0	EPA 8270E	5-6-22	5-6-22	
(3+4)-Methylphenol (m,p-Cresol)	ND	1.0	EPA 8270E	5-6-22	5-6-22	
n-Nitroso-di-n-propylamine	ND	1.0	EPA 8270E	5-6-22	5-6-22	
Hexachloroethane	ND	1.0	EPA 8270E	5-6-22	5-6-22	
Nitrobenzene	ND	1.0	EPA 8270E	5-6-22	5-6-22	
Isophorone	ND	1.0	EPA 8270E	5-6-22	5-6-22	
2-Nitrophenol	ND	1.0	EPA 8270E	5-6-22	5-6-22	
2,4-Dimethylphenol	ND	1.0	EPA 8270E	5-6-22	5-6-22	
bis(2-Chloroethoxy)methane	ND	1.0	EPA 8270E	5-6-22	5-6-22	
2,4-Dichlorophenol	ND	1.0	EPA 8270E	5-6-22	5-6-22	
1,2,4-Trichlorobenzene	ND	1.0	EPA 8270E	5-6-22	5-6-22	
Naphthalene	ND	0.10	EPA 8270E/SIM	5-6-22	5-6-22	
4-Chloroaniline	ND	1.0	EPA 8270E	5-6-22	5-6-22	
Hexachlorobutadiene	ND	1.0	EPA 8270E	5-6-22	5-6-22	
4-Chloro-3-methylphenol	ND	1.0	EPA 8270E	5-6-22	5-6-22	
2-Methylnaphthalene	ND	0.10	EPA 8270E/SIM	5-6-22	5-6-22	
1-Methylnaphthalene	ND	0.10	EPA 8270E/SIM	5-6-22	5-6-22	
Hexachlorocyclopentadiene	ND	1.0	EPA 8270E	5-6-22	5-6-22	
2,4,6-Trichlorophenol	ND	1.0	EPA 8270E	5-6-22	5-6-22	
2,3-Dichloroaniline	ND	1.0	EPA 8270E	5-6-22	5-6-22	
2,4,5-Trichlorophenol	ND	1.0	EPA 8270E	5-6-22	5-6-22	
2-Chloronaphthalene	ND	1.0	EPA 8270E	5-6-22	5-6-22	
2-Nitroaniline	ND	1.0	EPA 8270E	5-6-22	5-6-22	
1,4-Dinitrobenzene	ND	1.0	EPA 8270E	5-6-22	5-6-22	
Dimethylphthalate	ND	5.0	EPA 8270E	5-6-22	5-6-22	
1,3-Dinitrobenzene	ND	1.0	EPA 8270E	5-6-22	5-6-22	
2,6-Dinitrotoluene	ND	1.0	EPA 8270E	5-6-22	5-6-22	
1,2-Dinitrobenzene	ND	1.0	EPA 8270E	5-6-22	5-6-22	
Acenaphthylene	ND	0.10	EPA 8270E/SIM	5-6-22	5-6-22	
3-Nitroaniline	ND	1.0	EPA 8270E	5-6-22	5-6-22	



Date of Report: May 19, 2022
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**SEMIVOLATILE ORGANICS EPA 8270E/SIM
 QUALITY CONTROL**

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0506W1					
2,4-Dinitrophenol	ND	6.4	EPA 8270E	5-6-22	5-6-22	
Acenaphthene	ND	0.10	EPA 8270E/SIM	5-6-22	5-6-22	
4-Nitrophenol	ND	5.0	EPA 8270E	5-6-22	5-6-22	
2,4-Dinitrotoluene	ND	1.0	EPA 8270E	5-6-22	5-6-22	
Dibenzofuran	ND	1.0	EPA 8270E	5-6-22	5-6-22	
2,3,5,6-Tetrachlorophenol	ND	1.0	EPA 8270E	5-6-22	5-6-22	
2,3,4,6-Tetrachlorophenol	ND	1.0	EPA 8270E	5-6-22	5-6-22	
Diethylphthalate	ND	1.0	EPA 8270E	5-6-22	5-6-22	
4-Chlorophenyl-phenylether	ND	1.0	EPA 8270E	5-6-22	5-6-22	
4-Nitroaniline	ND	1.0	EPA 8270E	5-6-22	5-6-22	
Fluorene	ND	0.10	EPA 8270E/SIM	5-6-22	5-6-22	
4,6-Dinitro-2-methylphenol	ND	5.0	EPA 8270E	5-6-22	5-6-22	
n-Nitrosodiphenylamine	ND	1.0	EPA 8270E	5-6-22	5-6-22	
1,2-Diphenylhydrazine	ND	1.0	EPA 8270E	5-6-22	5-6-22	
4-Bromophenyl-phenylether	ND	1.0	EPA 8270E	5-6-22	5-6-22	
Hexachlorobenzene	ND	1.0	EPA 8270E	5-6-22	5-6-22	
Pentachlorophenol	ND	7.7	EPA 8270E	5-6-22	5-6-22	
Phenanthrene	ND	0.10	EPA 8270E/SIM	5-6-22	5-6-22	
Anthracene	ND	0.10	EPA 8270E/SIM	5-6-22	5-6-22	
Carbazole	ND	1.0	EPA 8270E	5-6-22	5-6-22	
Di-n-butylphthalate	ND	5.0	EPA 8270E	5-6-22	5-6-22	
Fluoranthene	ND	0.10	EPA 8270E/SIM	5-6-22	5-6-22	
Pyrene	ND	0.10	EPA 8270E/SIM	5-6-22	5-6-22	
Butylbenzylphthalate	ND	1.0	EPA 8270E	5-6-22	5-6-22	
bis-2-Ethylhexyladipate	ND	5.0	EPA 8270E	5-6-22	5-6-22	
3,3'-Dichlorobenzidine	ND	1.0	EPA 8270E	5-6-22	5-6-22	
Benzo[a]anthracene	ND	0.010	EPA 8270E/SIM	5-6-22	5-6-22	
Chrysene	ND	0.010	EPA 8270E/SIM	5-6-22	5-6-22	
bis(2-Ethylhexyl)phthalate	ND	5.0	EPA 8270E	5-6-22	5-6-22	
Di-n-octylphthalate	ND	1.0	EPA 8270E	5-6-22	5-6-22	
Benzo[b]fluoranthene	ND	0.010	EPA 8270E/SIM	5-6-22	5-6-22	
Benzo(j,k)fluoranthene	ND	0.010	EPA 8270E/SIM	5-6-22	5-6-22	
Benzo[a]pyrene	ND	0.010	EPA 8270E/SIM	5-6-22	5-6-22	
Indeno[1,2,3-cd]pyrene	ND	0.010	EPA 8270E/SIM	5-6-22	5-6-22	
Dibenz[a,h]anthracene	ND	0.010	EPA 8270E/SIM	5-6-22	5-6-22	
Benzo[g,h,i]perylene	ND	0.010	EPA 8270E/SIM	5-6-22	5-6-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
2-Fluorophenol	42	10 - 81				
Phenol-d6	32	10 - 86				
Nitrobenzene-d5	68	27 - 105				
2-Fluorobiphenyl	69	33 - 100				
2,4,6-Tribromophenol	90	25 - 124				
Terphenyl-d14	78	40 - 116				



OnSite Environmental, Inc. 14648 NE 95th Street, Redmond, WA 98052 (425) 883-3881

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: May 19, 2022
 Samples Submitted: May 5, 2022
 Laboratory Reference: 2205-065
 Project: 6694-002-05 T700

**SEMIVOLATILE ORGANICS EPA 8270E/SIM
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L

Analyte	Result		Spike Level		Source	Percent		Recovery	RPD	RPD	Flags
					Result	Recovery	Limits			Limit	
MATRIX SPIKES											
Laboratory ID:	05-069-01										
	MS	MSD	MS	MSD		MS	MSD				
Phenol	50.9	61.9	160	160	ND	32	39	20 - 114	20	36	
2-Chlorophenol	127	130	160	160	ND	79	81	24 - 105	2	40	
1,4-Dichlorobenzene	56.6	55.7	80.0	80.0	ND	71	70	23 - 100	2	48	
n-Nitroso-di-n-propylamine	71.5	72.9	80.0	80.0	ND	89	91	20 - 136	2	38	
1,2,4-Trichlorobenzene	60.3	58.6	80.0	80.0	ND	75	73	27 - 105	3	39	
4-Chloro-3-methylphenol	118	121	160	160	ND	74	76	44 - 113	3	26	
Acenaphthene	36.8	42.2	80.0	80.0	ND	46	53	35 - 105	14	25	
4-Nitrophenol	154	137	160	160	ND	96	86	31 - 141	12	31	
2,4-Dinitrotoluene	61.6	63.5	80.0	80.0	ND	77	79	44 - 106	3	30	
Pentachlorophenol	194	185	160	160	ND	121	116	43 - 163	5	39	
Pyrene	59.4	61.8	80.0	80.0	ND	74	77	39 - 113	4	27	
<i>Surrogate:</i>											
2-Fluorophenol						57	59	10 - 81			
Phenol-d6						23	25	10 - 86			
Nitrobenzene-d5						71	73	27 - 105			
2-Fluorobiphenyl						74	73	33 - 100			
2,4,6-Tribromophenol						86	83	25 - 124			
Terphenyl-d14						74	75	40 - 116			



Date of Report: May 19, 2022
 Samples Submitted: May 5, 2022
 Laboratory Reference: 2205-065
 Project: 6694-002-05 T700

**PCBs EPA 8082A
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0510W1					
Aroclor 1016	ND	0.050	EPA 8082A	5-10-22	5-11-22	
Aroclor 1221	ND	0.050	EPA 8082A	5-10-22	5-11-22	
Aroclor 1232	ND	0.050	EPA 8082A	5-10-22	5-11-22	
Aroclor 1242	ND	0.050	EPA 8082A	5-10-22	5-11-22	
Aroclor 1248	ND	0.050	EPA 8082A	5-10-22	5-11-22	
Aroclor 1254	ND	0.050	EPA 8082A	5-10-22	5-11-22	
Aroclor 1260	ND	0.050	EPA 8082A	5-10-22	5-11-22	
Surrogate:	Percent Recovery	Control Limits				
DCB	98	49-133				

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS											
Laboratory ID:	SB0510W1										
	SB	SBD	SB	SBD		SB	SBD				
Aroclor 1260	0.470	0.501	0.500	0.500	N/A	94	100	67-120	6	15	
Surrogate:											
DCB						95	102	49-133			



Date of Report: May 19, 2022
 Samples Submitted: May 5, 2022
 Laboratory Reference: 2205-065
 Project: 6694-002-05 T700

**ORGANOCHLORINE
 PESTICIDES EPA 8081B
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0510W1					
alpha-BHC	ND	0.0050	EPA 8081B	5-10-22	5-12-22	
gamma-BHC (Lindane)	ND	0.0050	EPA 8081B	5-10-22	5-12-22	
beta-BHC	ND	0.0050	EPA 8081B	5-10-22	5-12-22	
delta-BHC	ND	0.0050	EPA 8081B	5-10-22	5-12-22	
Heptachlor	ND	0.0050	EPA 8081B	5-10-22	5-12-22	Y1
Aldrin	ND	0.0020	EPA 8081B	5-10-22	5-12-22	
Heptachlor Epoxide	ND	0.0030	EPA 8081B	5-10-22	5-12-22	
gamma-Chlordane	ND	0.0050	EPA 8081B	5-10-22	5-12-22	
alpha-Chlordane	ND	0.0050	EPA 8081B	5-10-22	5-12-22	
4,4'-DDE	ND	0.0050	EPA 8081B	5-10-22	5-12-22	
Endosulfan I	ND	0.0050	EPA 8081B	5-10-22	5-12-22	
Dieldrin	ND	0.0050	EPA 8081B	5-10-22	5-12-22	
Endrin	ND	0.0050	EPA 8081B	5-10-22	5-12-22	
4,4'-DDD	ND	0.0050	EPA 8081B	5-10-22	5-12-22	
Endosulfan II	ND	0.0050	EPA 8081B	5-10-22	5-12-22	
4,4'-DDT	ND	0.0050	EPA 8081B	5-10-22	5-12-22	Y1
Endrin Aldehyde	ND	0.0050	EPA 8081B	5-10-22	5-12-22	
Methoxychlor	ND	0.010	EPA 8081B	5-10-22	5-12-22	Y1
Endosulfan Sulfate	ND	0.0050	EPA 8081B	5-10-22	5-12-22	
Endrin Ketone	ND	0.020	EPA 8081B	5-10-22	5-12-22	Y1
Toxaphene	ND	0.050	EPA 8081B	5-10-22	5-12-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
TCMX	78	21-110				
DCB	94	42-113				



Date of Report: May 19, 2022
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 Laboratory Reference: 2205-065
 Project: 6694-002-05 T700

**ORGANOCHLORINE
 PESTICIDES EPA 8081B
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS											
Laboratory ID:	SB0510W2										
	SB	SBD	SB	SBD		SB	SBD				
alpha-BHC	0.0814	0.0764	0.100	0.100	N/A	81	76	50-113	6	19	
gamma-BHC (Lindane)	0.0839	0.0815	0.100	0.100	N/A	84	82	50-114	3	15	
beta-BHC	0.0798	0.0791	0.100	0.100	N/A	80	79	45-110	1	15	
delta-BHC	0.0847	0.0832	0.100	0.100	N/A	85	83	40-113	2	15	
Heptachlor	0.0661	0.0662	0.100	0.100	N/A	66	66	41-107	0	16	Y1
Aldrin	0.0587	0.0552	0.100	0.100	N/A	59	55	39-105	6	15	
Heptachlor Epoxide	0.0812	0.0825	0.100	0.100	N/A	81	82	53-106	2	15	
gamma-Chlordane	0.0702	0.0669	0.100	0.100	N/A	70	67	46-110	5	15	
alpha-Chlordane	0.0736	0.0697	0.100	0.100	N/A	74	70	46-110	5	15	
4,4'-DDE	0.0780	0.0747	0.100	0.100	N/A	78	75	39-129	4	15	
Endosulfan I	0.0721	0.0688	0.100	0.100	N/A	72	69	51-109	5	15	
Dieldrin	0.0856	0.0834	0.100	0.100	N/A	86	83	55-112	3	15	
Endrin	0.0908	0.0930	0.100	0.100	N/A	91	93	54-119	2	16	
4,4'-DDD	0.0805	0.0851	0.100	0.100	N/A	81	85	52-142	6	15	
Endosulfan II	0.0828	0.0815	0.100	0.100	N/A	83	81	49-115	2	15	
4,4'-DDT	0.0819	0.0893	0.100	0.100	N/A	82	89	52-136	9	15	Y1
Endrin Aldehyde	0.0836	0.0805	0.100	0.100	N/A	84	81	39-128	4	15	
Methoxychlor	0.0851	0.101	0.100	0.100	N/A	85	101	56-156	17	19	Y1
Endosulfan Sulfate	0.0837	0.0826	0.100	0.100	N/A	84	83	44-120	1	15	
Endrin Ketone	0.0873	0.0927	0.100	0.100	N/A	87	93	45-122	6	15	Y1
Surrogate:											
TCMX						54	57	21-110			
DCB						82	83	42-113			



Date of Report: May 19, 2022
 Samples Submitted: May 5, 2022
 Laboratory Reference: 2205-065
 Project: 6694-002-05 T700

TOTAL METALS
EPA 200.8/200.7/7470A
QUALITY CONTROL

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0509WH2					
Iron	ND	50	EPA 200.7	5-9-22	5-9-22	
Magnesium	ND	1000	EPA 200.7	5-9-22	5-9-22	
Manganese	ND	10	EPA 200.7	5-9-22	5-9-22	
Laboratory ID:	MB0511WM1					
Arsenic	ND	3.3	EPA 200.8	5-11-22	5-11-22	
Cadmium	ND	4.4	EPA 200.8	5-11-22	5-11-22	
Chromium	ND	11	EPA 200.8	5-11-22	5-11-22	
Copper	ND	11	EPA 200.8	5-11-22	5-11-22	
Lead	ND	1.1	EPA 200.8	5-11-22	5-11-22	
Nickel	ND	22	EPA 200.8	5-11-22	5-11-22	
Selenium	ND	5.6	EPA 200.8	5-11-22	5-11-22	
Zinc	ND	28	EPA 200.8	5-11-22	5-11-22	
Laboratory ID:	MB0512W1					
Mercury	ND	0.025	EPA 7470A	5-12-22	5-12-22	



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 Project: 6694-002-05 T700

TOTAL METALS
EPA 200.8/200.7/7470A
QUALITY CONTROL

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result		Spike Level		Source	Percent	Recovery	RPD		Flags
					Result	Recovery	Limits	RPD	Limit	
DUPLICATE										
Laboratory ID:	05-065-01									
	ORIG	DUP								
Iron	2190	2090	NA	NA		NA	NA	5	20	
Magnesium	9910	9450	NA	NA		NA	NA	5	20	
Manganese	356	339	NA	NA		NA	NA	5	20	
Laboratory ID:	05-036-01									
Arsenic	ND	ND	NA	NA		NA	NA	NA	20	
Cadmium	ND	ND	NA	NA		NA	NA	NA	20	
Chromium	ND	ND	NA	NA		NA	NA	NA	20	
Copper	ND	ND	NA	NA		NA	NA	NA	20	
Lead	ND	ND	NA	NA		NA	NA	NA	20	
Nickel	ND	ND	NA	NA		NA	NA	NA	20	
Selenium	ND	ND	NA	NA		NA	NA	NA	20	
Zinc	ND	ND	NA	NA		NA	NA	NA	20	
Laboratory ID:	05-119-03									
Mercury	ND	ND	NA	NA		NA	NA	NA	20	
MATRIX SPIKES										
Laboratory ID:	05-065-01									
	MS	MSD	MS	MSD		MS	MSD			
Iron	21900	21400	20000	20000	2190	99	96	75-125	2	20
Magnesium	29400	29300	20000	20000	9910	98	97	75-125	0	20
Manganese	801	810	500	500	356	89	91	75-125	1	20
Laboratory ID:	05-036-01									
Arsenic	113	118	111	111	ND	102	107	75-125	4	20
Cadmium	106	110	111	111	ND	96	99	75-125	3	20
Chromium	104	110	111	111	ND	93	99	75-125	6	20
Copper	99.6	105	111	111	ND	90	95	75-125	5	20
Lead	105	111	111	111	ND	95	100	75-125	5	20
Nickel	99.1	106	111	111	ND	89	95	75-125	7	20
Selenium	114	119	111	111	ND	103	107	75-125	4	20
Zinc	110	115	111	111	ND	99	104	75-125	5	20
Laboratory ID:	05-119-03									
Mercury	6.23	6.23	6.25	6.25	ND	100	100	75-125	0	20



Date of Report: May 19, 2022
 Samples Submitted: May 5, 2022
 Laboratory Reference: 2205-065
 Project: 6694-002-05 T700

**DISSOLVED METALS
 EPA 200.8/200.7/7470A
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0510D1					
Calcium	ND	1100	EPA 200.7		5-10-22	
Iron	ND	56	EPA 200.7		5-10-22	
Magnesium	ND	1100	EPA 200.7		5-10-22	
Manganese	ND	11	EPA 200.7		5-10-22	
Potassium	ND	1100	EPA 200.7		5-10-22	
Sodium	ND	1100	EPA 200.7		5-10-22	
Laboratory ID:	MB0511D1					
Arsenic	ND	3.0	EPA 200.8		5-11-22	
Cadmium	ND	4.0	EPA 200.8		5-11-22	
Chromium	ND	10	EPA 200.8		5-11-22	
Copper	ND	10	EPA 200.8		5-11-22	
Lead	ND	1.0	EPA 200.8		5-11-22	
Nickel	ND	20	EPA 200.8		5-11-22	
Selenium	ND	5.0	EPA 200.8		5-11-22	
Zinc	ND	25	EPA 200.8		5-11-22	
Laboratory ID:	MB0512D1					
Mercury	ND	0.025	EPA 7470A		5-12-22	



Date of Report: May 19, 2022
 Samples Submitted: May 5, 2022
 Laboratory Reference: 2205-065
 Project: 6694-002-05 T700

**DISSOLVED METALS
 EPA 200.8/200.7/7470A
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result		Spike Level		Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE										
Laboratory ID:	05-065-01									
	ORIG	DUP								
Calcium	17400	17800	NA	NA		NA	NA	2	20	
Iron	444	433	NA	NA		NA	NA	3	20	
Magnesium	8800	8900	NA	NA		NA	NA	1	20	
Manganese	312	314	NA	NA		NA	NA	1	20	
Potassium	2100	2100	NA	NA		NA	NA	0	20	
Sodium	5350	5250	NA	NA		NA	NA	2	20	
Laboratory ID:	05-036-01									
Arsenic	ND	ND	NA	NA		NA	NA	NA	20	
Cadmium	ND	ND	NA	NA		NA	NA	NA	20	
Chromium	ND	ND	NA	NA		NA	NA	NA	20	
Copper	ND	ND	NA	NA		NA	NA	NA	20	
Lead	ND	ND	NA	NA		NA	NA	NA	20	
Nickel	ND	ND	NA	NA		NA	NA	NA	20	
Selenium	ND	ND	NA	NA		NA	NA	NA	20	
Zinc	ND	ND	NA	NA		NA	NA	NA	20	
Laboratory ID:	05-065-01									
Mercury	ND	ND	NA	NA		NA	NA	NA	20	
MATRIX SPIKES										
Laboratory ID:	05-065-01									
	MS	MSD	MS	MSD		MS	MSD			
Calcium	40200	40400	22200	22200	17400	103	104	75-125	1	20
Iron	25300	25100	22200	22200	444	112	111	75-125	1	20
Magnesium	32600	32600	22200	22200	8800	107	107	75-125	0	20
Manganese	834	838	556	556	312	94	95	75-125	1	20
Potassium	27000	26900	22200	22200	2100	112	112	75-125	0	20
Sodium	30100	30300	22200	22200	5350	111	112	75-125	1	20
Laboratory ID:	05-036-01									
Arsenic	81.0	82.4	80.0	80.0	ND	101	103	75-125	2	20
Cadmium	74.2	75.4	80.0	80.0	ND	93	94	75-125	2	20
Chromium	75.4	77.2	80.0	80.0	ND	94	97	75-125	2	20
Copper	72.6	73.8	80.0	80.0	ND	91	92	75-125	2	20
Lead	74.8	76.2	80.0	80.0	ND	94	95	75-125	2	20
Nickel	73.2	74.2	80.0	80.0	ND	92	93	75-125	1	20
Selenium	82.2	81.6	80.0	80.0	ND	103	102	75-125	1	20
Zinc	74.6	78.0	80.0	80.0	ND	93	98	75-125	4	20
Laboratory ID:	05-065-01									
Mercury	6.28	6.25	6.25	6.25	ND	100	100	75-125	0	20



Date of Report: May 19, 2022
 Samples Submitted: May 5, 2022
 Laboratory Reference: 2205-065
 Project: 6694-002-05 T700

**TOTAL ALKALINITY
 SM 2320B
 QUALITY CONTROL**

Matrix: Water
 Units: mg CaCO₃/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0512W1					
Total Alkalinity	ND	2.0	SM 2320B	5-12-22	5-12-22	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	05-107-01							
	ORIG	DUP						
Total Alkalinity	20.0	22.0	NA	NA	NA	10	10	

SPIKE BLANK								
Laboratory ID:	SB0512W1							
	SB	SB		SB				
Total Alkalinity	98.0	100	NA	98	89-110	NA	NA	



Date of Report: May 19, 2022
 Samples Submitted: May 5, 2022
 Laboratory Reference: 2205-065
 Project: 6694-002-05 T700

**BICARBONATE
 SM 2320B
 QUALITY CONTROL**

Matrix: Water
 Units: mg CaCO₃/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0512W1					
Bicarbonate	ND	2.0	SM 2320B	5-12-22	5-12-22	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	05-107-01							
	ORIG	DUP						
Bicarbonate	20.0	22.0	NA	NA	NA	10	10	

SPIKE BLANK								
Laboratory ID:	SB0512W1							
	SB	SB		SB				
Bicarbonate	98.0	100	NA	98	89-110	NA	NA	



Date of Report: May 19, 2022
 Samples Submitted: May 5, 2022
 Laboratory Reference: 2205-065
 Project: 6694-002-05 T700

**TOTAL DISSOLVED SOLIDS
 SM 2540C
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0510W1					
Total Dissolved Solids	ND	13	SM 2540C	5-10-22	5-16-22	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	05-075-03							
	ORIG	DUP						
Total Dissolved Solids	109	119	NA	NA	NA	9	23	

SPIKE BLANK								
Laboratory ID:	SB0510W1							
	SB	SB		SB				
Total Dissolved Solids	481	500	NA	96	89-110	NA	NA	



Date of Report: May 19, 2022
 Samples Submitted: May 5, 2022
 Laboratory Reference: 2205-065
 Project: 6694-002-05 T700

**CHLORIDE
 SM 4500-Cl E
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0516W2					
Chloride	ND	2.0	SM 4500-Cl E	5-16-22	5-16-22	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	05-024-01							
	ORIG	DUP						
Chloride	3.88	4.28	NA	NA	NA	10	11	

MATRIX SPIKE								
Laboratory ID:	05-024-01							
	MS	MS		MS				
Chloride	54.8	50.0	3.88	102	90-121	NA	NA	

SPIKE BLANK								
Laboratory ID:	SB0516W2							
	SB	SB		SB				
Chloride	47.1	50.0	NA	94	90-119	NA	NA	



Date of Report: May 19, 2022
 Samples Submitted: May 5, 2022
 Laboratory Reference: 2205-065
 Project: 6694-002-05 T700

**NITRATE (as Nitrogen)
 EPA 353.2
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L-N

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0517W1					
Nitrate	ND	0.050	EPA 353.2	5-17-22	5-17-22	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	05-075-03							
	ORIG	DUP						
Nitrate	ND	ND	NA	NA	NA	NA	10	

MATRIX SPIKE								
Laboratory ID:	05-075-03							
	MS	MS		MS				
Nitrate	2.04	2.00	ND	102	88-125	NA	NA	

SPIKE BLANK								
Laboratory ID:	SB0517W1							
	SB	SB		SB				
Nitrate	2.11	2.00	NA	106	90-120	NA	NA	



Date of Report: May 19, 2022
 Samples Submitted: May 5, 2022
 Laboratory Reference: 2205-065
 Project: 6694-002-05 T700

**SULFATE
 ASTM D516-11
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0517W1					
Sulfate	ND	5.0	ASTM D516-11	5-17-22	5-17-22	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	05-075-03							
	ORIG	DUP						
Sulfate	12.6	12.8	NA	NA	NA	2	10	

MATRIX SPIKE								
Laboratory ID:	05-075-03							
	MS	MS		MS				
Sulfate	22.2	10.0	12.6	96	72-128	NA	NA	

SPIKE BLANK								
Laboratory ID:	SB0517W1							
	SB	SB		SB				
Sulfate	10.0	10.0	NA	100	85-114	NA	NA	



Date of Report: May 19, 2022
 Samples Submitted: May 5, 2022
 Laboratory Reference: 2205-065
 Project: 6694-002-05 T700

AMMONIA (as Nitrogen)
SM 4500-NH₃ D
QUALITY CONTROL

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0516W1					
Ammonia	ND	0.050	SM 4500-NH ₃ D	5-16-22	5-16-22	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	05-024-01							
	ORIG	DUP						
Ammonia	0.101	0.0940	NA	NA	NA	NA	7	15

MATRIX SPIKE								
Laboratory ID:	05-024-01							
	MS	MS		MS				
Ammonia	4.73	5.00	0.101	93	87-110	NA	NA	

SPIKE BLANK								
Laboratory ID:	SB0516W1							
	SB	SB		SB				
Ammonia	4.57	5.00	NA	91	88-110	NA	NA	





Data Qualifiers and Abbreviations

- A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.
- B - The analyte indicated was also found in the blank sample.
- C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.
- E - The value reported exceeds the quantitation range and is an estimate.
- F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.
- H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.
- I - Compound recovery is outside of the control limits.
- J - The value reported was below the practical quantitation limit. The value is an estimate.
- K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.
- L - The RPD is outside of the control limits.
- M - Hydrocarbons in the gasoline range are impacting the diesel range result.
- M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.
- N - Hydrocarbons in the lube oil range are impacting the diesel range result.
- N1 - Hydrocarbons in diesel range are impacting lube oil range results.
- O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.
- P - The RPD of the detected concentrations between the two columns is greater than 40.
- Q - Surrogate recovery is outside of the control limits.
- S - Surrogate recovery data is not available due to the necessary dilution of the sample.
- T - The sample chromatogram is not similar to a typical _____.
- U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
- U1 - The practical quantitation limit is elevated due to interferences present in the sample.
- V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.
- W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.
- X - Sample extract treated with a mercury cleanup procedure.
- X1 - Sample extract treated with a sulfuric acid/silica gel cleanup procedure.
- Y - The calibration verification for this analyte exceeded the 20% drift specified in methods 8260 & 8270, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.

Z -

ND - Not Detected at PQL
 PQL - Practical Quantitation Limit
 RPD - Relative Percent Difference





OnSite Environmental Inc

David Baumeister
14648 NE 95th Street
Redmond, WA 98052

RE: 05-065

Work Order Number: 2205170

May 19, 2022

Attention David Baumeister:

Fremont Analytical, Inc. received 1 sample(s) on 5/6/2022 for the analyses presented in the following report.

Herbicides by EPA Method 8151A (GC/MS)

This report consists of the following:

- Case Narrative
- Analytical Results
- Applicable Quality Control Summary Reports
- Chain of Custody

All analyses were performed consistent with the Quality Assurance program of Fremont Analytical, Inc. Please contact the laboratory if you should have any questions about the results.

Thank you for using Fremont Analytical.

Sincerely,

Brianna Barnes
Project Manager



CLIENT: OnSite Environmental Inc
Project: 05-065
Work Order: 2205170

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received
2205170-001	MW-1-220504	05/02/2022 12:00 PM	05/06/2022 1:30 PM

DRAFT

Note: If no "Time Collected" is supplied, a default of 12:00AM is assigned

CLIENT: OnSite Environmental Inc

Project: 05-065

I. SAMPLE RECEIPT:

Samples receipt information is recorded on the attached Sample Receipt Checklist.

II. GENERAL REPORTING COMMENTS:

Results are reported on a wet weight basis unless dry-weight correction is denoted in the units field on the analytical report ("mg/kg-dry" or "ug/kg-dry").

Matrix Spike (MS) and MS Duplicate (MSD) samples are tested from an analytical batch of "like" matrix to check for possible matrix effect. The MS and MSD will provide site specific matrix data only for those samples which are spiked by the laboratory. The sample chosen for spike purposes may or may not have been a sample submitted in this sample delivery group. The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The LCS and the MB are processed with the samples and the MS/MSD to ensure method criteria are achieved throughout the entire analytical process.

III. ANALYSES AND EXCEPTIONS:

Exceptions associated with this report will be footnoted in the analytical results page(s) or the quality control summary page(s) and/or noted below.

DRAFT

Qualifiers:

- * - Flagged value is not within established control limits
- B - Analyte detected in the associated Method Blank
- D - Dilution was required
- E - Value above quantitation range
- H - Holding times for preparation or analysis exceeded
- I - Analyte with an internal standard that does not meet established acceptance criteria
- J - Analyte detected below Reporting Limit
- N - Tentatively Identified Compound (TIC)
- Q - Analyte with an initial or continuing calibration that does not meet established acceptance criteria
- S - Spike recovery outside accepted recovery limits
- ND - Not detected at the Reporting Limit
- R - High relative percent difference observed

Acronyms:

- %Rec - Percent Recovery
- CCB - Continued Calibration Blank
- CCV - Continued Calibration Verification
- DF - Dilution Factor
- DUP - Sample Duplicate
- HEM - Hexane Extractable Material
- ICV - Initial Calibration Verification
- LCS/LCSD - Laboratory Control Sample / Laboratory Control Sample Duplicate
- MCL - Maximum Contaminant Level
- MB or MBLANK - Method Blank
- MDL - Method Detection Limit
- MS/MSD - Matrix Spike / Matrix Spike Duplicate
- PDS - Post Digestion Spike
- Ref Val - Reference Value
- REP - Sample Replicate
- RL - Reporting Limit
- RPD - Relative Percent Difference
- SD - Serial Dilution
- SGT - Silica Gel Treatment
- SPK - Spike
- Surr - Surrogate



Client: OnSite Environmental Inc

Collection Date: 5/2/2022 12:00:00 PM

Project: 05-065

Lab ID: 2205170-001

Matrix: Water

Client Sample ID: MW-1-220504

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Herbicides by EPA Method 8151A (GC/MS)

Batch ID: 36363

Analyst: OK

Dicamba	ND	1.00		µg/L	1	5/13/2022 3:40:53 PM
2,4-D	ND	1.00		µg/L	1	5/13/2022 3:40:53 PM
2,4-DP	ND	1.00		µg/L	1	5/13/2022 3:40:53 PM
2,4,5-TP (Silvex)	ND	1.00		µg/L	1	5/13/2022 3:40:53 PM
2,4,5-T	ND	1.00		µg/L	1	5/13/2022 3:40:53 PM
Dinoseb	ND	1.00		µg/L	1	5/13/2022 3:40:53 PM
Dalapon	ND	2.00		µg/L	1	5/13/2022 3:40:53 PM
2,4-DB	ND	1.00		µg/L	1	5/13/2022 3:40:53 PM
MCPP	ND	5.00		µg/L	1	5/13/2022 3:40:53 PM
MCPA	ND	5.00		µg/L	1	5/13/2022 3:40:53 PM
Picloram	ND	1.00		µg/L	1	5/13/2022 3:40:53 PM
Bentazon	ND	1.00		µg/L	1	5/13/2022 3:40:53 PM
Chloramben	ND	1.00		µg/L	1	5/13/2022 3:40:53 PM
Acifluorfen	ND	5.00		µg/L	1	5/13/2022 3:40:53 PM
3,5-Dichlorobenzoic acid	ND	1.00		µg/L	1	5/13/2022 3:40:53 PM
4-Nitrophenol	ND	1.00		µg/L	1	5/13/2022 3:40:53 PM
Dacthal (DCPA)	ND	2.00		µg/L	1	5/13/2022 3:40:53 PM
Surr: 2,4-Dichlorophenylacetic acid	102	65.7 - 136		%Rec	1	5/13/2022 3:40:53 PM

Work Order: 2205170
 CLIENT: OnSite Environmental Inc
 Project: 05-065

QC SUMMARY REPORT
Herbicides by EPA Method 8151A (GC/MS)

Sample ID: MB-36363	SampType: MBLK	Units: µg/L	Prep Date: 5/9/2022	RunNo: 75476							
Client ID: MBLKW	Batch ID: 36363		Analysis Date: 5/13/2022	SeqNo: 1548821							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dicamba	ND	0.996									
2,4-D	ND	0.996									
2,4-DP	ND	0.996									
2,4,5-TP (Silvex)	ND	0.996									
2,4,5-T	ND	0.996									
Dinoseb	ND	0.996									
Dalapon	ND	1.99									
2,4-DB	ND	0.996									
MCPP	ND	4.98									
MCPA	ND	4.98									
Picloram	ND	0.996									
Bentazon	ND	0.996									
Chloramben	ND	0.996									
Acifluorfen	ND	4.98									
3,5-Dichlorobenzoic acid	ND	0.996									
4-Nitrophenol	ND	0.996									
Dacthal (DCPA)	ND	1.99									
Surr: 2,4-Dichlorophenylacetic acid	18.5		19.91		93.0	65.7	136				

Sample ID: LCS-36363	SampType: LCS	Units: µg/L	Prep Date: 5/9/2022	RunNo: 75476							
Client ID: LCSW	Batch ID: 36363		Analysis Date: 5/13/2022	SeqNo: 1548822							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dicamba	4.04	0.993	3.974	0	102	16.6	148				
2,4-D	4.77	0.993	3.974	0	120	50.4	150				
2,4-DP	4.33	0.993	3.974	0	109	53	135				
2,4,5-TP (Silvex)	4.52	0.993	3.974	0	114	53.6	140				
2,4,5-T	4.49	0.993	3.974	0	113	50	141				
Dinoseb	3.69	0.993	3.974	0	92.8	5	119				
Dalapon	11.7	1.99	19.87	0	59.0	5.65	97.2				
2,4-DB	4.47	0.993	3.974	0	112	54.9	141				

Work Order: 2205170
 CLIENT: OnSite Environmental Inc
 Project: 05-065

QC SUMMARY REPORT
Herbicides by EPA Method 8151A (GC/MS)

Sample ID: LCS-36363	SampType: LCS	Units: µg/L			Prep Date: 5/9/2022	RunNo: 75476					
Client ID: LCSW	Batch ID: 36363				Analysis Date: 5/13/2022	SeqNo: 1548822					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
MCPP	17.2	4.97	19.87	0	86.6	28.7	166				
MCPA	17.6	4.97	19.87	0	88.5	20.7	176				
Picloram	3.56	0.993	3.974	0	89.5	9.72	120				
Bentazon	4.42	0.993	3.974	0	111	41.2	141				
Chloramben	2.39	0.993	3.974	0	60.1	5	109				
Acifluorfen	3.95	3.87	3.974	0	99.3	7.62	139				
3,5-Dichlorobenzoic acid	4.07	0.993	3.974	0	102	52.4	120				
4-Nitrophenol	0.821	0.497	3.974	0	20.6	5	107				
Dacthal (DCPA)	2.08	1.99	3.974	0	52.4	5	65.4				
Surr: 2,4-Dichlorophenylacetic acid	19.6		19.87		98.6	65.7	136				

Sample ID: LCS-36363	SampType: LCS	Units: µg/L			Prep Date: 5/9/2022	RunNo: 75476					
Client ID: LCSW02	Batch ID: 36363				Analysis Date: 5/13/2022	SeqNo: 1548823					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dicamba	4.41	0.996	3.984	0	111	16.6	148	4.043	8.63	30	
2,4-D	5.41	0.996	3.984	0	136	50.4	150	4.765	12.7	30	
2,4-DP	4.86	0.996	3.984	0	122	53	135	4.327	11.6	30	
2,4,5-TP (Silvex)	5.18	0.996	3.984	0	130	53.6	140	4.515	13.8	30	
2,4,5-T	5.19	0.996	3.984	0	130	50	141	4.485	14.5	30	
Dinoseb	4.12	0.996	3.984	0	103	5	119	3.689	11.1	30	
Dalapon	11.5	1.99	19.92	0	57.6	5.65	97.2	11.72	2.13	30	
2,4-DB	5.12	0.996	3.984	0	128	54.9	141	4.466	13.6	30	
MCPP	18.7	4.98	19.92	0	93.7	28.7	166	17.21	8.10	30	
MCPA	19.1	4.98	19.92	0	96.1	20.7	176	17.59	8.40	30	
Picloram	4.21	0.996	3.984	0	106	9.72	120	3.556	16.9	30	
Bentazon	5.00	0.996	3.984	0	125	41.2	141	4.424	12.2	30	
Chloramben	3.30	0.996	3.984	0	82.7	5	109	2.388	31.9	30	
Acifluorfen	4.36	3.98	3.984	0	109	7.62	139	3.947	9.91	30	
3,5-Dichlorobenzoic acid	4.35	0.996	3.984	0	109	52.4	120	4.068	6.78	30	
4-Nitrophenol	2.34	0.996	3.984	0	58.7	5	107	0.8205	96.1	30	R

Work Order: 2205170
 CLIENT: OnSite Environmental Inc
 Project: 05-065

QC SUMMARY REPORT
Herbicides by EPA Method 8151A (GC/MS)

Sample ID: LCSD-36363	SampType: LCSD	Units: µg/L	Prep Date: 5/9/2022	RunNo: 75476							
Client ID: LCSW02	Batch ID: 36363		Analysis Date: 5/13/2022	SeqNo: 1548823							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dacthal (DCPA)	1.93	1.49	3.984	0	48.5	5	65.4	2.083	7.42	30	
Surr: 2,4-Dichlorophenylacetic acid	21.0		19.92		105	65.7	136		0		

NOTES:
 R - High RPD observed, spike recovery is within range.

Sample ID: 2205170-001AMS	SampType: MS	Units: µg/L	Prep Date: 5/9/2022	RunNo: 75476							
Client ID: MW-1-220504	Batch ID: 36363		Analysis Date: 5/13/2022	SeqNo: 1548828							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dicamba	4.62	1.00	4.003	0	115	31	142				
2,4-D	5.65	1.00	4.003	0	141	50.3	149				
2,4-DP	5.05	1.00	4.003	0	126	49.9	143				
2,4,5-TP (Silvex)	5.42	1.00	4.003	0	135	47.7	141				
2,4,5-T	5.47	1.00	4.003	0	137	34.4	139				
Dinoseb	5.07	1.00	4.003	0	127	27.3	117				S
Dalapon	11.3	2.00	20.02	0	56.6	14.2	113				
2,4-DB	5.50	1.00	4.003	0	137	31.3	147				
MCPD	19.4	5.00	20.02	0	97.1	30.5	177				
MCPA	19.9	5.00	20.02	0	99.2	36.8	163				
Picloram	4.32	1.00	4.003	0	108	18.8	115				
Bentazon	5.44	1.00	4.003	0	136	11.9	176				
Chloramben	3.40	1.00	4.003	0	84.9	5	112				
Acifluorfen	5.12	5.00	4.003	0	128	28.1	146				
3,5-Dichlorobenzoic acid	4.66	1.00	4.003	0	117	36.2	146				
4-Nitrophenol	1.39	1.00	4.003	0	34.6	5	116				
Dacthal (DCPA)	1.63	1.50	4.003	0	40.6	5	84.6				
Surr: 2,4-Dichlorophenylacetic acid	21.7		20.02		109	65.7	136				

NOTES:
 S - Outlying spike recoveries were associated with this sample (high bias, non-detect).

Client Name: ONSITE	Work Order Number: 2205170
Logged by: Clare Griggs	Date Received: 5/6/2022 1:30:00 PM

Chain of Custody

1. Is Chain of Custody complete? Yes No Not Present
2. How was the sample delivered? Courier

Log In

3. Coolers are present? Yes No NA
4. Shipping container/cooler in good condition? Yes No
5. Custody Seals present on shipping container/cooler?
(Refer to comments for Custody Seals not intact) Yes No Not Present
6. Was an attempt made to cool the samples? Yes No NA
7. Were all items received at a temperature of >2°C to 6°C * Yes No NA
8. Sample(s) in proper container(s)? Yes No
9. Sufficient sample volume for indicated test(s)? Yes No
10. Are samples properly preserved? Yes No
11. Was preservative added to bottles? Yes No NA
12. Is there headspace in the VOA vials? Yes No NA
13. Did all samples containers arrive in good condition(unbroken)? Yes No
14. Does paperwork match bottle labels? Yes No
15. Are matrices correctly identified on Chain of Custody? Yes No
16. Is it clear what analyses were requested? Yes No
17. Were all holding times able to be met? Yes No

Special Handling (if applicable)

18. Was client notified of all discrepancies with this order? Yes No NA

Person Notified:	<input type="text"/>	Date:	<input type="text"/>
By Whom:	<input type="text"/>	Via:	<input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:	<input type="text"/>		
Client Instructions:	<input type="text"/>		

19. Additional remarks:

Item Information

Item #	Temp °C
Sample 1	5.2

* Note: DoD/ELAP and TNI require items to be received at 4°C +/- 2°C



14648 NE 95th Street, Redmond, WA 98052 · (425) 883-3881

Laboratory: Fremont Analytical

Attention: Chelsea Ward

3600 Fremont Avenue N, Seattle, WA 98103

Phone Number: (206) 352-3790

Turnaround Request

1 Day 2 Day 3 Day

Standard

Other: _____

2205170

Laboratory Reference #: 05-065

Project Manager: David Baumeister

email: dbaumeister@onsite-env.com

Project Number: 6694-002-05

Project Name: _____

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	# of Cont.	Requested Analyses
	MW-1-220504	5/4/22	12:00	W	1	Chlorinated Acid Herbicides 8151

Signature	Company	Date	Time	Comments/Special Instructions
Relinquished by: <i>Nicole Bhr</i>	<i>OSE</i>	<i>5/6/22</i>	<i>11:35</i>	EDDs
Received by: <i>Ku</i>	<i>alpha</i>	<i>5/6/22</i>	<i>11:35</i>	
Relinquished by: <i>Ku</i>	<i>alpha</i>	<i>5/6/22</i>	<i>1:30</i>	
Received by: <i>craker</i>	<i>FAI</i>	<i>5/6/22</i>	<i>1330</i>	
Relinquished by:				
Received by:				

Chain of Custody

Turnaround Request (in working days)			Laboratory Number: 05-065																																																																																																
(Check One)			<table border="1" style="width:100%; border-collapse: collapse; font-size: small;"> <tr> <td style="width: 10%;">NWTPH-HCID</td> <td style="width: 10%;">NWTPH-Gx/BTEX (8021 <input type="checkbox"/> 8260 <input type="checkbox"/>)</td> <td style="width: 10%;">NWTPH-Gx</td> <td style="width: 10%;">NWTPH-Dx (Acid / SG Clean-up <input type="checkbox"/>)</td> <td style="width: 10%;">Volatiles 8260</td> <td style="width: 10%;">Halogenated Volatiles 8260</td> <td style="width: 10%;">EDB EPA 8011 (Waters Only)</td> <td style="width: 10%;">Semivolatiles 8270/SIM (with low-level PAHs)</td> <td style="width: 10%;">PAHs 8270/SIM (low-level)</td> <td style="width: 10%;">PCBs 8082</td> <td style="width: 10%;">Organochlorine Pesticides 8081</td> <td style="width: 10%;">Organophosphorus Pesticides 8270/SIM</td> <td style="width: 10%;">Chlorinated Acid Herbicides 8151</td> <td style="width: 10%;">Total Heavy Metals * DISSOLVED</td> <td style="width: 10%;">Total MTCA Metals</td> <td style="width: 10%;">TCLP Metals</td> <td style="width: 10%;">HEM (oil and grease) 1664</td> <td style="width: 10%;">Cl, nit, TAs, NO3, SO4</td> <td style="width: 10%;">ALK + Bicarb</td> <td style="width: 10%;">Dissolved Co, K, Na</td> <td style="width: 10%;">% Moisture</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table>													NWTPH-HCID	NWTPH-Gx/BTEX (8021 <input type="checkbox"/> 8260 <input type="checkbox"/>)	NWTPH-Gx	NWTPH-Dx (Acid / SG Clean-up <input type="checkbox"/>)	Volatiles 8260	Halogenated Volatiles 8260	EDB EPA 8011 (Waters Only)	Semivolatiles 8270/SIM (with low-level PAHs)	PAHs 8270/SIM (low-level)	PCBs 8082	Organochlorine Pesticides 8081	Organophosphorus Pesticides 8270/SIM	Chlorinated Acid Herbicides 8151	Total Heavy Metals * DISSOLVED	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664	Cl, nit, TAs, NO3, SO4	ALK + Bicarb	Dissolved Co, K, Na	% Moisture																																																															
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<input type="checkbox"/> Same Day <input type="checkbox"/> 1 Day <input type="checkbox"/> 2 Days <input type="checkbox"/> 3 Days <input checked="" type="checkbox"/> Standard (7 Days)																																																																																																			
<input type="checkbox"/> _____ (other)																																																																																																			
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Lab ID	Sample Identification																																																																																																		
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Signature		Company			Date	Time	Comments/Special Instructions																																																																																												
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Reviewed/Date		Reviewed/Date			Chromatograms with final report <input type="checkbox"/> Electronic Data Deliverables (EDDs) <input type="checkbox"/>																																																																																														



14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

May 23, 2022

Garrett Leque
GeoEngineers, Inc.
554 West Bakerview Road
Bellingham, WA 98226

Re: Analytical Data for Project 6694-002-05 T700
Laboratory Reference No. 2205-066

Dear Garrett:

Enclosed are the analytical results and associated quality control data for samples submitted on May 5, 2022.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

A handwritten signature in black ink, appearing to read "DB", with a horizontal line extending to the right.

David Baumeister
Project Manager

Enclosures



OnSite Environmental, Inc. 14648 NE 95th Street, Redmond, WA 98052 (425) 883-3881

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: May 23, 2022
Samples Submitted: May 5, 2022
Laboratory Reference: 2205-066
Project: 6694-002-05 T700

Case Narrative

Samples were collected on May 5, 2022 and received by the laboratory on May 5, 2022. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.



Date of Report: May 23, 2022
Samples Submitted: May 5, 2022
Laboratory Reference: 2205-066
Project: 6694-002-05 T700

ANALYTICAL REPORT FOR SAMPLES

Client ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
MW-2-220505	05-066-01	Water	5-5-22	5-5-22	

DRAFT



Date of Report: May 23, 2022
 Samples Submitted: May 5, 2022
 Laboratory Reference: 2205-066
 Project: 6694-002-05 T700

GASOLINE RANGE ORGANICS
NWTPH-Gx

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-2-220505					
Laboratory ID:	05-066-01					
Gasoline	ND	100	NWTPH-Gx	5-9-22	5-9-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	91	65-122				



Date of Report: May 23, 2022
 Samples Submitted: May 5, 2022
 Laboratory Reference: 2205-066
 Project: 6694-002-05 T700

DIESEL AND HEAVY OIL RANGE ORGANICS
NWTPH-Dx

Matrix: Water
 Units: mg/L (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-2-220505					
Laboratory ID:	05-066-01					
Diesel Range Organics	ND	0.21	NWTPH-Dx	5-16-22	5-16-22	
Lube Oil Range Organics	ND	0.21	NWTPH-Dx	5-16-22	5-16-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	89	50-150				



Date of Report: May 23, 2022
 Samples Submitted: May 5, 2022
 Laboratory Reference: 2205-066
 Project: 6694-002-05 T700

VOLATILE ORGANICS EPA 8260D
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-2-220505					
Laboratory ID:	05-066-01					
Dichlorodifluoromethane	ND	0.20	EPA 8260D	5-6-22	5-6-22	
Chloromethane	ND	1.0	EPA 8260D	5-6-22	5-6-22	
Vinyl Chloride	ND	0.20	EPA 8260D	5-6-22	5-6-22	
Bromomethane	ND	2.3	EPA 8260D	5-6-22	5-6-22	
Chloroethane	ND	1.0	EPA 8260D	5-6-22	5-6-22	
Trichlorofluoromethane	ND	0.20	EPA 8260D	5-6-22	5-6-22	
1,1-Dichloroethene	ND	0.20	EPA 8260D	5-6-22	5-6-22	
Acetone	ND	5.0	EPA 8260D	5-6-22	5-6-22	
Iodomethane	ND	34	EPA 8260D	5-6-22	5-6-22	
Carbon Disulfide	ND	0.20	EPA 8260D	5-6-22	5-6-22	
Methylene Chloride	ND	1.0	EPA 8260D	5-6-22	5-6-22	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	5-6-22	5-6-22	
Methyl t-Butyl Ether	ND	0.20	EPA 8260D	5-6-22	5-6-22	
1,1-Dichloroethane	ND	0.20	EPA 8260D	5-6-22	5-6-22	
Vinyl Acetate	ND	1.0	EPA 8260D	5-6-22	5-6-22	
2,2-Dichloropropane	ND	0.20	EPA 8260D	5-6-22	5-6-22	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	5-6-22	5-6-22	
2-Butanone	ND	5.0	EPA 8260D	5-6-22	5-6-22	
Bromochloromethane	ND	0.20	EPA 8260D	5-6-22	5-6-22	
Chloroform	ND	0.20	EPA 8260D	5-6-22	5-6-22	
1,1,1-Trichloroethane	ND	0.20	EPA 8260D	5-6-22	5-6-22	
Carbon Tetrachloride	ND	0.20	EPA 8260D	5-6-22	5-6-22	
1,1-Dichloropropene	ND	0.20	EPA 8260D	5-6-22	5-6-22	
Benzene	ND	0.20	EPA 8260D	5-6-22	5-6-22	
1,2-Dichloroethane	ND	0.20	EPA 8260D	5-6-22	5-6-22	
Trichloroethene	ND	0.20	EPA 8260D	5-6-22	5-6-22	
1,2-Dichloropropane	ND	0.20	EPA 8260D	5-6-22	5-6-22	
Dibromomethane	ND	0.20	EPA 8260D	5-6-22	5-6-22	
Bromodichloromethane	ND	0.20	EPA 8260D	5-6-22	5-6-22	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260D	5-6-22	5-6-22	
Methyl Isobutyl Ketone	ND	2.0	EPA 8260D	5-6-22	5-6-22	
Toluene	ND	1.0	EPA 8260D	5-6-22	5-6-22	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260D	5-6-22	5-6-22	



Date of Report: May 23, 2022
 Samples Submitted: May 5, 2022
 Laboratory Reference: 2205-066
 Project: 6694-002-05 T700

VOLATILE ORGANICS EPA 8260D
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-2-220505					
Laboratory ID:	05-066-01					
1,1,2-Trichloroethane	ND	0.20	EPA 8260D	5-6-22	5-6-22	
Tetrachloroethene	ND	0.20	EPA 8260D	5-6-22	5-6-22	
1,3-Dichloropropane	ND	0.20	EPA 8260D	5-6-22	5-6-22	
2-Hexanone	ND	2.0	EPA 8260D	5-6-22	5-6-22	
Dibromochloromethane	ND	0.20	EPA 8260D	5-6-22	5-6-22	
1,2-Dibromoethane	ND	0.20	EPA 8260D	5-6-22	5-6-22	
Chlorobenzene	ND	0.20	EPA 8260D	5-6-22	5-6-22	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260D	5-6-22	5-6-22	
Ethylbenzene	ND	0.20	EPA 8260D	5-6-22	5-6-22	
m,p-Xylene	ND	0.40	EPA 8260D	5-6-22	5-6-22	
o-Xylene	ND	0.20	EPA 8260D	5-6-22	5-6-22	
Styrene	ND	0.20	EPA 8260D	5-6-22	5-6-22	
Bromoform	ND	1.0	EPA 8260D	5-6-22	5-6-22	
Isopropylbenzene	ND	0.20	EPA 8260D	5-6-22	5-6-22	
Bromobenzene	ND	0.20	EPA 8260D	5-6-22	5-6-22	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260D	5-6-22	5-6-22	
1,2,3-Trichloropropane	ND	0.20	EPA 8260D	5-6-22	5-6-22	
n-Propylbenzene	ND	0.20	EPA 8260D	5-6-22	5-6-22	
2-Chlorotoluene	ND	0.20	EPA 8260D	5-6-22	5-6-22	
4-Chlorotoluene	ND	0.20	EPA 8260D	5-6-22	5-6-22	
1,3,5-Trimethylbenzene	ND	0.20	EPA 8260D	5-6-22	5-6-22	
tert-Butylbenzene	ND	0.20	EPA 8260D	5-6-22	5-6-22	
1,2,4-Trimethylbenzene	ND	0.20	EPA 8260D	5-6-22	5-6-22	
sec-Butylbenzene	ND	0.20	EPA 8260D	5-6-22	5-6-22	
1,3-Dichlorobenzene	ND	0.20	EPA 8260D	5-6-22	5-6-22	
p-Isopropyltoluene	ND	0.20	EPA 8260D	5-6-22	5-6-22	
1,4-Dichlorobenzene	ND	0.20	EPA 8260D	5-6-22	5-6-22	
1,2-Dichlorobenzene	ND	0.20	EPA 8260D	5-6-22	5-6-22	
n-Butylbenzene	ND	0.20	EPA 8260D	5-6-22	5-6-22	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260D	5-6-22	5-6-22	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260D	5-6-22	5-6-22	
Hexachlorobutadiene	ND	1.0	EPA 8260D	5-6-22	5-6-22	
Naphthalene	ND	1.0	EPA 8260D	5-6-22	5-6-22	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260D	5-6-22	5-6-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>114</i>	<i>75-127</i>				
<i>Toluene-d8</i>	<i>103</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>102</i>	<i>78-125</i>				



Date of Report: May 23, 2022
 Samples Submitted: May 5, 2022
 Laboratory Reference: 2205-066
 Project: 6694-002-05 T700

SEMIVOLATILE ORGANICS EPA 8270E/SIM
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-2-220505					
Laboratory ID:	05-066-01					
n-Nitrosodimethylamine	ND	0.99	EPA 8270E	5-6-22	5-9-22	
Pyridine	ND	0.99	EPA 8270E	5-6-22	5-9-22	
Phenol	ND	0.99	EPA 8270E	5-6-22	5-9-22	
Aniline	ND	6.3	EPA 8270E	5-6-22	5-9-22	
bis(2-Chloroethyl)ether	ND	0.99	EPA 8270E	5-6-22	5-9-22	
2-Chlorophenol	ND	0.99	EPA 8270E	5-6-22	5-9-22	
1,3-Dichlorobenzene	ND	0.99	EPA 8270E	5-6-22	5-9-22	
1,4-Dichlorobenzene	ND	0.99	EPA 8270E	5-6-22	5-9-22	
Benzyl alcohol	ND	0.99	EPA 8270E	5-6-22	5-9-22	
1,2-Dichlorobenzene	ND	0.99	EPA 8270E	5-6-22	5-9-22	
2-Methylphenol (o-Cresol)	ND	0.99	EPA 8270E	5-6-22	5-9-22	
bis(2-Chloroisopropyl)ether	ND	0.99	EPA 8270E	5-6-22	5-9-22	
(3+4)-Methylphenol (m,p-Cresol)	ND	0.99	EPA 8270E	5-6-22	5-9-22	
n-Nitroso-di-n-propylamine	ND	0.99	EPA 8270E	5-6-22	5-9-22	
Hexachloroethane	ND	0.99	EPA 8270E	5-6-22	5-9-22	
Nitrobenzene	ND	0.99	EPA 8270E	5-6-22	5-9-22	
Isophorone	ND	0.99	EPA 8270E	5-6-22	5-9-22	
2-Nitrophenol	ND	0.99	EPA 8270E	5-6-22	5-9-22	
2,4-Dimethylphenol	ND	0.99	EPA 8270E	5-6-22	5-9-22	
bis(2-Chloroethoxy)methane	ND	0.99	EPA 8270E	5-6-22	5-9-22	
2,4-Dichlorophenol	ND	0.99	EPA 8270E	5-6-22	5-9-22	
1,2,4-Trichlorobenzene	ND	0.99	EPA 8270E	5-6-22	5-9-22	
Naphthalene	ND	0.099	EPA 8270E/SIM	5-6-22	5-9-22	
4-Chloroaniline	ND	0.99	EPA 8270E	5-6-22	5-9-22	
Hexachlorobutadiene	ND	0.99	EPA 8270E	5-6-22	5-9-22	
4-Chloro-3-methylphenol	ND	0.99	EPA 8270E	5-6-22	5-9-22	
2-Methylnaphthalene	ND	0.099	EPA 8270E/SIM	5-6-22	5-9-22	
1-Methylnaphthalene	ND	0.099	EPA 8270E/SIM	5-6-22	5-9-22	
Hexachlorocyclopentadiene	ND	0.99	EPA 8270E	5-6-22	5-9-22	
2,4,6-Trichlorophenol	ND	0.99	EPA 8270E	5-6-22	5-9-22	
2,3-Dichloroaniline	ND	0.99	EPA 8270E	5-6-22	5-9-22	
2,4,5-Trichlorophenol	ND	0.99	EPA 8270E	5-6-22	5-9-22	
2-Chloronaphthalene	ND	0.99	EPA 8270E	5-6-22	5-9-22	
2-Nitroaniline	ND	0.99	EPA 8270E	5-6-22	5-9-22	
1,4-Dinitrobenzene	ND	0.99	EPA 8270E	5-6-22	5-9-22	
Dimethylphthalate	ND	5.0	EPA 8270E	5-6-22	5-9-22	
1,3-Dinitrobenzene	ND	0.99	EPA 8270E	5-6-22	5-9-22	
2,6-Dinitrotoluene	ND	0.99	EPA 8270E	5-6-22	5-9-22	
1,2-Dinitrobenzene	ND	0.99	EPA 8270E	5-6-22	5-9-22	
Acenaphthylene	ND	0.099	EPA 8270E/SIM	5-6-22	5-9-22	
3-Nitroaniline	ND	0.99	EPA 8270E	5-6-22	5-9-22	



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SEMIVOLATILE ORGANICS EPA 8270E/SIM
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-2-220505					
Laboratory ID:	05-066-01					
2,4-Dinitrophenol	ND	5.0	EPA 8270E	5-6-22	5-9-22	
Acenaphthene	ND	0.099	EPA 8270E/SIM	5-6-22	5-9-22	
4-Nitrophenol	ND	5.0	EPA 8270E	5-6-22	5-9-22	
2,4-Dinitrotoluene	ND	0.99	EPA 8270E	5-6-22	5-9-22	
Dibenzofuran	ND	0.99	EPA 8270E	5-6-22	5-9-22	
2,3,5,6-Tetrachlorophenol	ND	0.99	EPA 8270E	5-6-22	5-9-22	
2,3,4,6-Tetrachlorophenol	ND	0.99	EPA 8270E	5-6-22	5-9-22	
Diethylphthalate	ND	0.99	EPA 8270E	5-6-22	5-9-22	
4-Chlorophenyl-phenylether	ND	0.99	EPA 8270E	5-6-22	5-9-22	
4-Nitroaniline	ND	0.99	EPA 8270E	5-6-22	5-9-22	
Fluorene	ND	0.099	EPA 8270E/SIM	5-6-22	5-9-22	
4,6-Dinitro-2-methylphenol	ND	5.0	EPA 8270E	5-6-22	5-9-22	
n-Nitrosodiphenylamine	ND	0.99	EPA 8270E	5-6-22	5-9-22	
1,2-Diphenylhydrazine	ND	0.99	EPA 8270E	5-6-22	5-9-22	
4-Bromophenyl-phenylether	ND	0.99	EPA 8270E	5-6-22	5-9-22	
Hexachlorobenzene	ND	0.99	EPA 8270E	5-6-22	5-9-22	
Pentachlorophenol	ND	6.2	EPA 8270E	5-6-22	5-9-22	
Phenanthrene	ND	0.099	EPA 8270E/SIM	5-6-22	5-9-22	
Anthracene	ND	0.099	EPA 8270E/SIM	5-6-22	5-9-22	
Carbazole	ND	0.99	EPA 8270E	5-6-22	5-9-22	
Di-n-butylphthalate	ND	5.0	EPA 8270E	5-6-22	5-9-22	
Fluoranthene	ND	0.099	EPA 8270E/SIM	5-6-22	5-9-22	
Pyrene	ND	0.099	EPA 8270E/SIM	5-6-22	5-9-22	
Butylbenzylphthalate	ND	0.99	EPA 8270E	5-6-22	5-9-22	
bis(2-Ethylhexyl)adipate	ND	5.0	EPA 8270E	5-6-22	5-9-22	
3,3'-Dichlorobenzidine	ND	0.99	EPA 8270E	5-6-22	5-9-22	
Benzo[a]anthracene	ND	0.0099	EPA 8270E/SIM	5-6-22	5-9-22	
Chrysene	ND	0.0099	EPA 8270E/SIM	5-6-22	5-9-22	
bis(2-Ethylhexyl)phthalate	ND	5.0	EPA 8270E	5-6-22	5-9-22	
Di-n-octylphthalate	ND	0.99	EPA 8270E	5-6-22	5-9-22	
Benzo[b]fluoranthene	ND	0.0099	EPA 8270E/SIM	5-6-22	5-9-22	
Benzo(j,k)fluoranthene	ND	0.0099	EPA 8270E/SIM	5-6-22	5-9-22	
Benzo[a]pyrene	ND	0.0099	EPA 8270E/SIM	5-6-22	5-9-22	
Indeno[1,2,3-cd]pyrene	ND	0.0099	EPA 8270E/SIM	5-6-22	5-9-22	
Dibenz[a,h]anthracene	ND	0.0099	EPA 8270E/SIM	5-6-22	5-9-22	
Benzo[g,h,i]perylene	ND	0.0099	EPA 8270E/SIM	5-6-22	5-9-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
2-Fluorophenol	41	10 - 81				
Phenol-d6	29	10 - 86				
Nitrobenzene-d5	65	27 - 105				
2-Fluorobiphenyl	73	33 - 100				
2,4,6-Tribromophenol	81	25 - 124				
Terphenyl-d14	72	40 - 116				



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PCBs EPA 8082A

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-2-220505					
Laboratory ID:	05-066-01					
Aroclor 1016	ND	0.049	EPA 8082A	5-10-22	5-16-22	
Aroclor 1221	ND	0.049	EPA 8082A	5-10-22	5-16-22	
Aroclor 1232	ND	0.049	EPA 8082A	5-10-22	5-16-22	
Aroclor 1242	ND	0.049	EPA 8082A	5-10-22	5-16-22	
Aroclor 1248	ND	0.049	EPA 8082A	5-10-22	5-16-22	
Aroclor 1254	ND	0.049	EPA 8082A	5-10-22	5-16-22	
Aroclor 1260	ND	0.049	EPA 8082A	5-10-22	5-16-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>DCB</i>	<i>107</i>	<i>49-133</i>				



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**ORGANOCHLORINE
 PESTICIDES EPA 8081B**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-2-220505					
Laboratory ID:	05-066-01					
alpha-BHC	ND	0.0049	EPA 8081B	5-10-22	5-13-22	
gamma-BHC (Lindane)	ND	0.0049	EPA 8081B	5-10-22	5-13-22	
beta-BHC	ND	0.0049	EPA 8081B	5-10-22	5-13-22	
delta-BHC	ND	0.0049	EPA 8081B	5-10-22	5-13-22	
Heptachlor	ND	0.0049	EPA 8081B	5-10-22	5-13-22	
Aldrin	ND	0.0019	EPA 8081B	5-10-22	5-13-22	
Heptachlor Epoxide	ND	0.0029	EPA 8081B	5-10-22	5-13-22	
gamma-Chlordane	ND	0.0049	EPA 8081B	5-10-22	5-13-22	
alpha-Chlordane	ND	0.0049	EPA 8081B	5-10-22	5-13-22	
4,4'-DDE	ND	0.0049	EPA 8081B	5-10-22	5-13-22	
Endosulfan I	ND	0.0049	EPA 8081B	5-10-22	5-13-22	
Dieldrin	ND	0.0049	EPA 8081B	5-10-22	5-13-22	
Endrin	ND	0.0049	EPA 8081B	5-10-22	5-13-22	
4,4'-DDD	ND	0.0049	EPA 8081B	5-10-22	5-13-22	
Endosulfan II	ND	0.0049	EPA 8081B	5-10-22	5-13-22	
4,4'-DDT	ND	0.0049	EPA 8081B	5-10-22	5-13-22	
Endrin Aldehyde	ND	0.0049	EPA 8081B	5-10-22	5-13-22	
Methoxychlor	ND	0.0097	EPA 8081B	5-10-22	5-13-22	
Endosulfan Sulfate	ND	0.0049	EPA 8081B	5-10-22	5-13-22	
Endrin Ketone	ND	0.019	EPA 8081B	5-10-22	5-13-22	
Toxaphene	ND	0.049	EPA 8081B	5-10-22	5-13-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
TCMX	63	21-110				
DCB	89	42-113				



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TOTAL METALS
EPA 200.8/200.7/7470A

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-2-220505					
Laboratory ID:	05-066-01					
Arsenic	11	3.3	EPA 200.8	5-11-22	5-11-22	
Cadmium	ND	4.4	EPA 200.8	5-11-22	5-11-22	
Chromium	ND	11	EPA 200.8	5-11-22	5-11-22	
Copper	ND	11	EPA 200.8	5-11-22	5-11-22	
Iron	6200	50	EPA 200.7	5-9-22	5-9-22	
Lead	2.0	1.1	EPA 200.8	5-11-22	5-11-22	
Magnesium	15000	1000	EPA 200.7	5-9-22	5-9-22	
Manganese	350	10	EPA 200.7	5-9-22	5-9-22	
Mercury	ND	0.025	EPA 7470A	5-12-22	5-12-22	
Nickel	ND	22	EPA 200.8	5-11-22	5-11-22	
Selenium	ND	5.6	EPA 200.8	5-11-22	5-11-22	
Zinc	ND	28	EPA 200.8	5-11-22	5-11-22	



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DISSOLVED METALS
EPA 200.8/200.7/7470A

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-2-220505					
Laboratory ID:	05-066-01					
Arsenic	13	3.0	EPA 200.8		5-11-22	
Cadmium	ND	4.0	EPA 200.8		5-11-22	
Calcium	22000	1100	EPA 200.7		5-10-22	
Chromium	ND	10	EPA 200.8		5-11-22	
Copper	ND	10	EPA 200.8		5-11-22	
Iron	ND	56	EPA 200.7		5-10-22	
Lead	ND	1.0	EPA 200.8		5-11-22	
Magnesium	13000	1100	EPA 200.7		5-10-22	
Manganese	200	11	EPA 200.7		5-10-22	
Mercury	ND	0.025	EPA 7470A		5-12-22	
Nickel	ND	20	EPA 200.8		5-11-22	
Potassium	2700	1100	EPA 200.7		5-10-22	
Selenium	ND	5.0	EPA 200.8		5-11-22	
Sodium	6400	1100	EPA 200.7		5-10-22	
Zinc	ND	25	EPA 200.8		5-11-22	



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**TOTAL ALKALINITY
SM 2320B**

Matrix: Water
Units: mg CaCO₃/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-2-220505					
Laboratory ID:	05-066-01					
Total Alkalinity	110	2.0	SM 2320B	5-12-22	5-12-22	



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**BICARBONATE
SM 2320B**

Matrix: Water
Units: mg CaCO₃/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-2-220505					
Laboratory ID:	05-066-01					
Bicarbonate	110	2.0	SM 2320B	5-12-22	5-12-22	



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**TOTAL DISSOLVED SOLIDS
SM 2540C**

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-2-220505					
Laboratory ID:	05-066-01					
Total Dissolved Solids	170	13	SM 2540C	5-10-22	5-16-22	



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CHLORIDE
SM 4500-Cl E

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-2-220505					
Laboratory ID:	05-066-01					
Chloride	3.4	2.0	SM 4500-Cl E	5-16-22	5-16-22	



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NITRATE (as Nitrogen)
EPA 353.2

Matrix: Water
Units: mg/L-N

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-2-220505					
Laboratory ID:	05-066-01					
Nitrate	ND	0.050	EPA 353.2	5-17-22	5-17-22	



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SULFATE
ASTM D516-11

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-2-220505					
Laboratory ID:	05-066-01					
Sulfate	7.7	5.0	ASTM D516-11	5-23-22	5-23-22	



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AMMONIA (as Nitrogen)
SM 4500-NH₃ D

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-2-220505					
Laboratory ID:	05-066-01					
Ammonia	0.14	0.050	SM 4500-NH3 D	5-16-22	5-16-22	



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**GASOLINE RANGE ORGANICS
 NWTPH-Gx
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0509W1					
Gasoline	ND	100	NWTPH-Gx	5-9-22	5-9-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
Fluorobenzene	92	65-122				

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	05-065-01							
	ORIG	DUP						
Gasoline	ND	ND	NA	NA	NA	NA	30	
<i>Surrogate:</i>								
Fluorobenzene				91	91	65-122		



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**DIESEL AND HEAVY OIL RANGE ORGANICS
 NWTPH-Dx
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0516W1					
Diesel Range Organics	ND	0.16	NWTPH-Dx	5-16-22	5-16-22	
Lube Oil Range Organics	ND	0.16	NWTPH-Dx	5-16-22	5-16-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	92	50-150				

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	SB0516W1							
	ORIG	DUP						
Diesel Fuel #2	0.427	0.390	NA	NA	NA	NA	9	NA
<i>Surrogate:</i>								
<i>o-Terphenyl</i>				91	82	50-150		



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**VOLATILE ORGANICS EPA 8260D
 QUALITY CONTROL**

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Matrix: Water

Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0506W1					
Dichlorodifluoromethane	ND	0.20	EPA 8260D	5-6-22	5-6-22	
Chloromethane	ND	1.0	EPA 8260D	5-6-22	5-6-22	
Vinyl Chloride	ND	0.20	EPA 8260D	5-6-22	5-6-22	
Bromomethane	ND	2.3	EPA 8260D	5-6-22	5-6-22	
Chloroethane	ND	1.0	EPA 8260D	5-6-22	5-6-22	
Trichlorofluoromethane	ND	0.20	EPA 8260D	5-6-22	5-6-22	
1,1-Dichloroethene	ND	0.20	EPA 8260D	5-6-22	5-6-22	
Acetone	ND	5.0	EPA 8260D	5-6-22	5-6-22	
Iodomethane	ND	34	EPA 8260D	5-6-22	5-6-22	
Carbon Disulfide	ND	0.20	EPA 8260D	5-6-22	5-6-22	
Methylene Chloride	ND	1.0	EPA 8260D	5-6-22	5-6-22	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	5-6-22	5-6-22	
Methyl t-Butyl Ether	ND	0.20	EPA 8260D	5-6-22	5-6-22	
1,1-Dichloroethane	ND	0.20	EPA 8260D	5-6-22	5-6-22	
Vinyl Acetate	ND	1.0	EPA 8260D	5-6-22	5-6-22	
2,2-Dichloropropane	ND	0.20	EPA 8260D	5-6-22	5-6-22	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	5-6-22	5-6-22	
2-Butanone	ND	5.0	EPA 8260D	5-6-22	5-6-22	
Bromochloromethane	ND	0.20	EPA 8260D	5-6-22	5-6-22	
Chloroform	ND	0.20	EPA 8260D	5-6-22	5-6-22	
1,1,1-Trichloroethane	ND	0.20	EPA 8260D	5-6-22	5-6-22	
Carbon Tetrachloride	ND	0.20	EPA 8260D	5-6-22	5-6-22	
1,1-Dichloropropene	ND	0.20	EPA 8260D	5-6-22	5-6-22	
Benzene	ND	0.20	EPA 8260D	5-6-22	5-6-22	
1,2-Dichloroethane	ND	0.20	EPA 8260D	5-6-22	5-6-22	
Trichloroethene	ND	0.20	EPA 8260D	5-6-22	5-6-22	
1,2-Dichloropropane	ND	0.20	EPA 8260D	5-6-22	5-6-22	
Dibromomethane	ND	0.20	EPA 8260D	5-6-22	5-6-22	
Bromodichloromethane	ND	0.20	EPA 8260D	5-6-22	5-6-22	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260D	5-6-22	5-6-22	
Methyl Isobutyl Ketone	ND	2.0	EPA 8260D	5-6-22	5-6-22	
Toluene	ND	1.0	EPA 8260D	5-6-22	5-6-22	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260D	5-6-22	5-6-22	



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**VOLATILE ORGANICS EPA 8260D
 QUALITY CONTROL**

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0506W1					
1,1,2-Trichloroethane	ND	0.20	EPA 8260D	5-6-22	5-6-22	
Tetrachloroethene	ND	0.20	EPA 8260D	5-6-22	5-6-22	
1,3-Dichloropropane	ND	0.20	EPA 8260D	5-6-22	5-6-22	
2-Hexanone	ND	2.0	EPA 8260D	5-6-22	5-6-22	
Dibromochloromethane	ND	0.20	EPA 8260D	5-6-22	5-6-22	
1,2-Dibromoethane	ND	0.20	EPA 8260D	5-6-22	5-6-22	
Chlorobenzene	ND	0.20	EPA 8260D	5-6-22	5-6-22	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260D	5-6-22	5-6-22	
Ethylbenzene	ND	0.20	EPA 8260D	5-6-22	5-6-22	
m,p-Xylene	ND	0.40	EPA 8260D	5-6-22	5-6-22	
o-Xylene	ND	0.20	EPA 8260D	5-6-22	5-6-22	
Styrene	ND	0.20	EPA 8260D	5-6-22	5-6-22	
Bromoform	ND	1.0	EPA 8260D	5-6-22	5-6-22	
Isopropylbenzene	ND	0.20	EPA 8260D	5-6-22	5-6-22	
Bromobenzene	ND	0.20	EPA 8260D	5-6-22	5-6-22	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260D	5-6-22	5-6-22	
1,2,3-Trichloropropane	ND	0.20	EPA 8260D	5-6-22	5-6-22	
n-Propylbenzene	ND	0.20	EPA 8260D	5-6-22	5-6-22	
2-Chlorotoluene	ND	0.20	EPA 8260D	5-6-22	5-6-22	
4-Chlorotoluene	ND	0.20	EPA 8260D	5-6-22	5-6-22	
1,3,5-Trimethylbenzene	ND	0.20	EPA 8260D	5-6-22	5-6-22	
tert-Butylbenzene	ND	0.20	EPA 8260D	5-6-22	5-6-22	
1,2,4-Trimethylbenzene	ND	0.20	EPA 8260D	5-6-22	5-6-22	
sec-Butylbenzene	ND	0.20	EPA 8260D	5-6-22	5-6-22	
1,3-Dichlorobenzene	ND	0.20	EPA 8260D	5-6-22	5-6-22	
p-Isopropyltoluene	ND	0.20	EPA 8260D	5-6-22	5-6-22	
1,4-Dichlorobenzene	ND	0.20	EPA 8260D	5-6-22	5-6-22	
1,2-Dichlorobenzene	ND	0.20	EPA 8260D	5-6-22	5-6-22	
n-Butylbenzene	ND	0.20	EPA 8260D	5-6-22	5-6-22	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260D	5-6-22	5-6-22	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260D	5-6-22	5-6-22	
Hexachlorobutadiene	ND	1.0	EPA 8260D	5-6-22	5-6-22	
Naphthalene	ND	1.0	EPA 8260D	5-6-22	5-6-22	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260D	5-6-22	5-6-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>111</i>	<i>75-127</i>				
<i>Toluene-d8</i>	<i>103</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>101</i>	<i>78-125</i>				



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**VOLATILE ORGANICS EPA 8260D
 QUALITY CONTROL**

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD	RPD	Flags
					SB	SBD	Limits	RPD	Limit	
SPIKE BLANKS										
Laboratory ID:	SB0506W1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	11.0	11.9	10.0	10.0	110	119	78-125	8	19	
Benzene	10.5	11.4	10.0	10.0	105	114	80-121	8	16	
Trichloroethene	10.3	11.0	10.0	10.0	103	110	80-122	7	18	
Toluene	10.2	10.9	10.0	10.0	102	109	80-120	7	18	
Chlorobenzene	9.32	10.2	10.0	10.0	93	102	80-120	9	17	
<i>Surrogate:</i>										
Dibromofluoromethane					106	104	75-127			
Toluene-d8					103	102	80-127			
4-Bromofluorobenzene					106	104	78-125			



Date of Report: May 23, 2022
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 Project: 6694-002-05 T700

**SEMIVOLATILE ORGANICS EPA 8270E/SIM
 QUALITY CONTROL**

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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0506W1					
n-Nitrosodimethylamine	ND	1.0	EPA 8270E	5-6-22	5-6-22	
Pyridine	ND	1.0	EPA 8270E	5-6-22	5-6-22	
Phenol	ND	1.0	EPA 8270E	5-6-22	5-6-22	
Aniline	ND	5.0	EPA 8270E	5-6-22	5-6-22	
bis(2-Chloroethyl)ether	ND	1.0	EPA 8270E	5-6-22	5-6-22	
2-Chlorophenol	ND	1.0	EPA 8270E	5-6-22	5-6-22	
1,3-Dichlorobenzene	ND	1.0	EPA 8270E	5-6-22	5-6-22	
1,4-Dichlorobenzene	ND	1.0	EPA 8270E	5-6-22	5-6-22	
Benzyl alcohol	ND	1.0	EPA 8270E	5-6-22	5-6-22	
1,2-Dichlorobenzene	ND	1.0	EPA 8270E	5-6-22	5-6-22	
2-Methylphenol (o-Cresol)	ND	1.0	EPA 8270E	5-6-22	5-6-22	
bis(2-Chloroisopropyl)ether	ND	1.0	EPA 8270E	5-6-22	5-6-22	
(3+4)-Methylphenol (m,p-Cresol)	ND	1.0	EPA 8270E	5-6-22	5-6-22	
n-Nitroso-di-n-propylamine	ND	1.0	EPA 8270E	5-6-22	5-6-22	
Hexachloroethane	ND	1.0	EPA 8270E	5-6-22	5-6-22	
Nitrobenzene	ND	1.0	EPA 8270E	5-6-22	5-6-22	
Isophorone	ND	1.0	EPA 8270E	5-6-22	5-6-22	
2-Nitrophenol	ND	1.0	EPA 8270E	5-6-22	5-6-22	
2,4-Dimethylphenol	ND	1.0	EPA 8270E	5-6-22	5-6-22	
bis(2-Chloroethoxy)methane	ND	1.0	EPA 8270E	5-6-22	5-6-22	
2,4-Dichlorophenol	ND	1.0	EPA 8270E	5-6-22	5-6-22	
1,2,4-Trichlorobenzene	ND	1.0	EPA 8270E	5-6-22	5-6-22	
Naphthalene	ND	0.10	EPA 8270E/SIM	5-6-22	5-6-22	
4-Chloroaniline	ND	1.0	EPA 8270E	5-6-22	5-6-22	
Hexachlorobutadiene	ND	1.0	EPA 8270E	5-6-22	5-6-22	
4-Chloro-3-methylphenol	ND	1.0	EPA 8270E	5-6-22	5-6-22	
2-Methylnaphthalene	ND	0.10	EPA 8270E/SIM	5-6-22	5-6-22	
1-Methylnaphthalene	ND	0.10	EPA 8270E/SIM	5-6-22	5-6-22	
Hexachlorocyclopentadiene	ND	1.0	EPA 8270E	5-6-22	5-6-22	
2,4,6-Trichlorophenol	ND	1.0	EPA 8270E	5-6-22	5-6-22	
2,3-Dichloroaniline	ND	1.0	EPA 8270E	5-6-22	5-6-22	
2,4,5-Trichlorophenol	ND	1.0	EPA 8270E	5-6-22	5-6-22	
2-Chloronaphthalene	ND	1.0	EPA 8270E	5-6-22	5-6-22	
2-Nitroaniline	ND	1.0	EPA 8270E	5-6-22	5-6-22	
1,4-Dinitrobenzene	ND	1.0	EPA 8270E	5-6-22	5-6-22	
Dimethylphthalate	ND	5.0	EPA 8270E	5-6-22	5-6-22	
1,3-Dinitrobenzene	ND	1.0	EPA 8270E	5-6-22	5-6-22	
2,6-Dinitrotoluene	ND	1.0	EPA 8270E	5-6-22	5-6-22	
1,2-Dinitrobenzene	ND	1.0	EPA 8270E	5-6-22	5-6-22	
Acenaphthylene	ND	0.10	EPA 8270E/SIM	5-6-22	5-6-22	
3-Nitroaniline	ND	1.0	EPA 8270E	5-6-22	5-6-22	



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**SEMIVOLATILE ORGANICS EPA 8270E/SIM
 QUALITY CONTROL**

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0506W1					
2,4-Dinitrophenol	ND	6.4	EPA 8270E	5-6-22	5-6-22	
Acenaphthene	ND	0.10	EPA 8270E/SIM	5-6-22	5-6-22	
4-Nitrophenol	ND	5.0	EPA 8270E	5-6-22	5-6-22	
2,4-Dinitrotoluene	ND	1.0	EPA 8270E	5-6-22	5-6-22	
Dibenzofuran	ND	1.0	EPA 8270E	5-6-22	5-6-22	
2,3,5,6-Tetrachlorophenol	ND	1.0	EPA 8270E	5-6-22	5-6-22	
2,3,4,6-Tetrachlorophenol	ND	1.0	EPA 8270E	5-6-22	5-6-22	
Diethylphthalate	ND	1.0	EPA 8270E	5-6-22	5-6-22	
4-Chlorophenyl-phenylether	ND	1.0	EPA 8270E	5-6-22	5-6-22	
4-Nitroaniline	ND	1.0	EPA 8270E	5-6-22	5-6-22	
Fluorene	ND	0.10	EPA 8270E/SIM	5-6-22	5-6-22	
4,6-Dinitro-2-methylphenol	ND	5.0	EPA 8270E	5-6-22	5-6-22	
n-Nitrosodiphenylamine	ND	1.0	EPA 8270E	5-6-22	5-6-22	
1,2-Diphenylhydrazine	ND	1.0	EPA 8270E	5-6-22	5-6-22	
4-Bromophenyl-phenylether	ND	1.0	EPA 8270E	5-6-22	5-6-22	
Hexachlorobenzene	ND	1.0	EPA 8270E	5-6-22	5-6-22	
Pentachlorophenol	ND	7.7	EPA 8270E	5-6-22	5-6-22	
Phenanthrene	ND	0.10	EPA 8270E/SIM	5-6-22	5-6-22	
Anthracene	ND	0.10	EPA 8270E/SIM	5-6-22	5-6-22	
Carbazole	ND	1.0	EPA 8270E	5-6-22	5-6-22	
Di-n-butylphthalate	ND	5.0	EPA 8270E	5-6-22	5-6-22	
Fluoranthene	ND	0.10	EPA 8270E/SIM	5-6-22	5-6-22	
Pyrene	ND	0.10	EPA 8270E/SIM	5-6-22	5-6-22	
Butylbenzylphthalate	ND	1.0	EPA 8270E	5-6-22	5-6-22	
bis-2-Ethylhexyladipate	ND	5.0	EPA 8270E	5-6-22	5-6-22	
3,3'-Dichlorobenzidine	ND	1.0	EPA 8270E	5-6-22	5-6-22	
Benzo[a]anthracene	ND	0.010	EPA 8270E/SIM	5-6-22	5-6-22	
Chrysene	ND	0.010	EPA 8270E/SIM	5-6-22	5-6-22	
bis(2-Ethylhexyl)phthalate	ND	5.0	EPA 8270E	5-6-22	5-6-22	
Di-n-octylphthalate	ND	1.0	EPA 8270E	5-6-22	5-6-22	
Benzo[b]fluoranthene	ND	0.010	EPA 8270E/SIM	5-6-22	5-6-22	
Benzo(j,k)fluoranthene	ND	0.010	EPA 8270E/SIM	5-6-22	5-6-22	
Benzo[a]pyrene	ND	0.010	EPA 8270E/SIM	5-6-22	5-6-22	
Indeno[1,2,3-cd]pyrene	ND	0.010	EPA 8270E/SIM	5-6-22	5-6-22	
Dibenz[a,h]anthracene	ND	0.010	EPA 8270E/SIM	5-6-22	5-6-22	
Benzo[g,h,i]perylene	ND	0.010	EPA 8270E/SIM	5-6-22	5-6-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
2-Fluorophenol	42	10 - 81				
Phenol-d6	32	10 - 86				
Nitrobenzene-d5	68	27 - 105				
2-Fluorobiphenyl	69	33 - 100				
2,4,6-Tribromophenol	90	25 - 124				
Terphenyl-d14	78	40 - 116				



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**SEMIVOLATILE ORGANICS EPA 8270E/SIM
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L

Analyte	Result		Spike Level		Source	Percent		Recovery	RPD	RPD	Flags
					Result	Recovery	Limits		Limit		
MATRIX SPIKES											
Laboratory ID:	05-069-01										
	MS	MSD	MS	MSD		MS	MSD				
Phenol	50.9	61.9	160	160	ND	32	39	20 - 114	20		36
2-Chlorophenol	127	130	160	160	ND	79	81	24 - 105	2		40
1,4-Dichlorobenzene	56.6	55.7	80.0	80.0	ND	71	70	23 - 100	2		48
n-Nitroso-di-n-propylamine	71.5	72.9	80.0	80.0	ND	89	91	20 - 136	2		38
1,2,4-Trichlorobenzene	60.3	58.6	80.0	80.0	ND	75	73	27 - 105	3		39
4-Chloro-3-methylphenol	118	121	160	160	ND	74	76	44 - 113	3		26
Acenaphthene	36.8	42.2	80.0	80.0	ND	46	53	35 - 105	14		25
4-Nitrophenol	154	137	160	160	ND	96	86	31 - 141	12		31
2,4-Dinitrotoluene	61.6	63.5	80.0	80.0	ND	77	79	44 - 106	3		30
Pentachlorophenol	194	185	160	160	ND	121	116	43 - 163	5		39
Pyrene	59.4	61.8	80.0	80.0	ND	74	77	39 - 113	4		27
<i>Surrogate:</i>											
2-Fluorophenol						57	59	10 - 81			
Phenol-d6						23	25	10 - 86			
Nitrobenzene-d5						71	73	27 - 105			
2-Fluorobiphenyl						74	73	33 - 100			
2,4,6-Tribromophenol						86	83	25 - 124			
Terphenyl-d14						74	75	40 - 116			



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 Project: 6694-002-05 T700

**PCBs EPA 8082A
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0510W1					
Aroclor 1016	ND	0.050	EPA 8082A	5-10-22	5-11-22	
Aroclor 1221	ND	0.050	EPA 8082A	5-10-22	5-11-22	
Aroclor 1232	ND	0.050	EPA 8082A	5-10-22	5-11-22	
Aroclor 1242	ND	0.050	EPA 8082A	5-10-22	5-11-22	
Aroclor 1248	ND	0.050	EPA 8082A	5-10-22	5-11-22	
Aroclor 1254	ND	0.050	EPA 8082A	5-10-22	5-11-22	
Aroclor 1260	ND	0.050	EPA 8082A	5-10-22	5-11-22	
Surrogate:	Percent Recovery	Control Limits				
DCB	98	49-133				

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS											
Laboratory ID:	SB0510W1										
	SB	SBD	SB	SBD		SB	SBD				
Aroclor 1260	0.470	0.501	0.500	0.500	N/A	94	100	67-120	6	15	
Surrogate:											
DCB						95	102	49-133			



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 Project: 6694-002-05 T700

**ORGANOCHLORINE
 PESTICIDES EPA 8081B
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0510W1					
alpha-BHC	ND	0.0050	EPA 8081B	5-10-22	5-12-22	
gamma-BHC (Lindane)	ND	0.0050	EPA 8081B	5-10-22	5-12-22	
beta-BHC	ND	0.0050	EPA 8081B	5-10-22	5-12-22	
delta-BHC	ND	0.0050	EPA 8081B	5-10-22	5-12-22	
Heptachlor	ND	0.0050	EPA 8081B	5-10-22	5-12-22	Y1
Aldrin	ND	0.0020	EPA 8081B	5-10-22	5-12-22	
Heptachlor Epoxide	ND	0.0030	EPA 8081B	5-10-22	5-12-22	
gamma-Chlordane	ND	0.0050	EPA 8081B	5-10-22	5-12-22	
alpha-Chlordane	ND	0.0050	EPA 8081B	5-10-22	5-12-22	
4,4'-DDE	ND	0.0050	EPA 8081B	5-10-22	5-12-22	
Endosulfan I	ND	0.0050	EPA 8081B	5-10-22	5-12-22	
Dieldrin	ND	0.0050	EPA 8081B	5-10-22	5-12-22	
Endrin	ND	0.0050	EPA 8081B	5-10-22	5-12-22	
4,4'-DDD	ND	0.0050	EPA 8081B	5-10-22	5-12-22	
Endosulfan II	ND	0.0050	EPA 8081B	5-10-22	5-12-22	
4,4'-DDT	ND	0.0050	EPA 8081B	5-10-22	5-12-22	Y1
Endrin Aldehyde	ND	0.0050	EPA 8081B	5-10-22	5-12-22	
Methoxychlor	ND	0.010	EPA 8081B	5-10-22	5-12-22	Y1
Endosulfan Sulfate	ND	0.0050	EPA 8081B	5-10-22	5-12-22	
Endrin Ketone	ND	0.020	EPA 8081B	5-10-22	5-12-22	Y1
Toxaphene	ND	0.050	EPA 8081B	5-10-22	5-12-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
TCMX	78	21-110				
DCB	94	42-113				



Date of Report: May 23, 2022
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**ORGANOCHLORINE
 PESTICIDES EPA 8081B
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS											
Laboratory ID:	SB0510W2										
	SB	SBD	SB	SBD		SB	SBD				
alpha-BHC	0.0814	0.0764	0.100	0.100	N/A	81	76	50-113	6	19	
gamma-BHC (Lindane)	0.0839	0.0815	0.100	0.100	N/A	84	82	50-114	3	15	
beta-BHC	0.0798	0.0791	0.100	0.100	N/A	80	79	45-110	1	15	
delta-BHC	0.0847	0.0832	0.100	0.100	N/A	85	83	40-113	2	15	
Heptachlor	0.0661	0.0662	0.100	0.100	N/A	66	66	41-107	0	16	Y1
Aldrin	0.0587	0.0552	0.100	0.100	N/A	59	55	39-105	6	15	
Heptachlor Epoxide	0.0812	0.0825	0.100	0.100	N/A	81	82	53-106	2	15	
gamma-Chlordane	0.0702	0.0669	0.100	0.100	N/A	70	67	46-110	5	15	
alpha-Chlordane	0.0736	0.0697	0.100	0.100	N/A	74	70	46-110	5	15	
4,4'-DDE	0.0780	0.0747	0.100	0.100	N/A	78	75	39-129	4	15	
Endosulfan I	0.0721	0.0688	0.100	0.100	N/A	72	69	51-109	5	15	
Dieldrin	0.0856	0.0834	0.100	0.100	N/A	86	83	55-112	3	15	
Endrin	0.0908	0.0930	0.100	0.100	N/A	91	93	54-119	2	16	
4,4'-DDD	0.0805	0.0851	0.100	0.100	N/A	81	85	52-142	6	15	
Endosulfan II	0.0828	0.0815	0.100	0.100	N/A	83	81	49-115	2	15	
4,4'-DDT	0.0819	0.0893	0.100	0.100	N/A	82	89	52-136	9	15	Y1
Endrin Aldehyde	0.0836	0.0805	0.100	0.100	N/A	84	81	39-128	4	15	
Methoxychlor	0.0851	0.101	0.100	0.100	N/A	85	101	56-156	17	19	Y1
Endosulfan Sulfate	0.0837	0.0826	0.100	0.100	N/A	84	83	44-120	1	15	
Endrin Ketone	0.0873	0.0927	0.100	0.100	N/A	87	93	45-122	6	15	Y1
Surrogate:											
TCMX						54	57	21-110			
DCB						82	83	42-113			



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TOTAL METALS
EPA 200.8/200.7/7470A
QUALITY CONTROL

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0509WH2					
Iron	ND	50	EPA 200.7	5-9-22	5-9-22	
Magnesium	ND	1000	EPA 200.7	5-9-22	5-9-22	
Manganese	ND	10	EPA 200.7	5-9-22	5-9-22	
Laboratory ID:	MB0511WM1					
Arsenic	ND	3.3	EPA 200.8	5-11-22	5-11-22	
Cadmium	ND	4.4	EPA 200.8	5-11-22	5-11-22	
Chromium	ND	11	EPA 200.8	5-11-22	5-11-22	
Copper	ND	11	EPA 200.8	5-11-22	5-11-22	
Lead	ND	1.1	EPA 200.8	5-11-22	5-11-22	
Nickel	ND	22	EPA 200.8	5-11-22	5-11-22	
Selenium	ND	5.6	EPA 200.8	5-11-22	5-11-22	
Zinc	ND	28	EPA 200.8	5-11-22	5-11-22	
Laboratory ID:	MB0512W1					
Mercury	ND	0.025	EPA 7470A	5-12-22	5-12-22	



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TOTAL METALS
EPA 200.8/200.7/7470A
QUALITY CONTROL

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result		Spike Level		Source	Percent	Recovery	RPD		Flags
					Result	Recovery	Limits	RPD	Limit	
DUPLICATE										
Laboratory ID:	05-065-01									
	ORIG	DUP								
Iron	2190	2090	NA	NA		NA	NA	5	20	
Magnesium	9910	9450	NA	NA		NA	NA	5	20	
Manganese	356	339	NA	NA		NA	NA	5	20	
Laboratory ID:	05-036-01									
Arsenic	ND	ND	NA	NA		NA	NA	NA	20	
Cadmium	ND	ND	NA	NA		NA	NA	NA	20	
Chromium	ND	ND	NA	NA		NA	NA	NA	20	
Copper	ND	ND	NA	NA		NA	NA	NA	20	
Lead	ND	ND	NA	NA		NA	NA	NA	20	
Nickel	ND	ND	NA	NA		NA	NA	NA	20	
Selenium	ND	ND	NA	NA		NA	NA	NA	20	
Zinc	ND	ND	NA	NA		NA	NA	NA	20	
Laboratory ID:	05-119-03									
Mercury	ND	ND	NA	NA		NA	NA	NA	20	
MATRIX SPIKES										
Laboratory ID:	05-065-01									
	MS	MSD	MS	MSD		MS	MSD			
Iron	21900	21400	20000	20000	2190	99	96	75-125	2	20
Magnesium	29400	29300	20000	20000	9910	98	97	75-125	0	20
Manganese	801	810	500	500	356	89	91	75-125	1	20
Laboratory ID:	05-036-01									
Arsenic	113	118	111	111	ND	102	107	75-125	4	20
Cadmium	106	110	111	111	ND	96	99	75-125	3	20
Chromium	104	110	111	111	ND	93	99	75-125	6	20
Copper	99.6	105	111	111	ND	90	95	75-125	5	20
Lead	105	111	111	111	ND	95	100	75-125	5	20
Nickel	99.1	106	111	111	ND	89	95	75-125	7	20
Selenium	114	119	111	111	ND	103	107	75-125	4	20
Zinc	110	115	111	111	ND	99	104	75-125	5	20
Laboratory ID:	05-119-03									
Mercury	6.23	6.23	6.25	6.25	ND	100	100	75-125	0	20



Date of Report: May 23, 2022
 Samples Submitted: May 5, 2022
 Laboratory Reference: 2205-066
 Project: 6694-002-05 T700

**DISSOLVED METALS
 EPA 200.8/200.7/7470A
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0510D1					
Calcium	ND	1100	EPA 200.7		5-10-22	
Iron	ND	56	EPA 200.7		5-10-22	
Magnesium	ND	1100	EPA 200.7		5-10-22	
Manganese	ND	11	EPA 200.7		5-10-22	
Potassium	ND	1100	EPA 200.7		5-10-22	
Sodium	ND	1100	EPA 200.7		5-10-22	
Laboratory ID:	MB0511D1					
Arsenic	ND	3.0	EPA 200.8		5-11-22	
Cadmium	ND	4.0	EPA 200.8		5-11-22	
Chromium	ND	10	EPA 200.8		5-11-22	
Copper	ND	10	EPA 200.8		5-11-22	
Lead	ND	1.0	EPA 200.8		5-11-22	
Nickel	ND	20	EPA 200.8		5-11-22	
Selenium	ND	5.0	EPA 200.8		5-11-22	
Zinc	ND	25	EPA 200.8		5-11-22	
Laboratory ID:	MB0512D1					
Mercury	ND	0.025	EPA 7470A		5-12-22	



Date of Report: May 23, 2022
 Samples Submitted: May 5, 2022
 Laboratory Reference: 2205-066
 Project: 6694-002-05 T700

**DISSOLVED METALS
 EPA 200.8/200.7/7470A
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result		Spike Level		Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE										
Laboratory ID:	05-065-01									
	ORIG	DUP								
Calcium	17400	17800	NA	NA		NA	NA	2	20	
Iron	444	433	NA	NA		NA	NA	3	20	
Magnesium	8800	8900	NA	NA		NA	NA	1	20	
Manganese	312	314	NA	NA		NA	NA	1	20	
Potassium	2100	2100	NA	NA		NA	NA	0	20	
Sodium	5350	5250	NA	NA		NA	NA	2	20	
Laboratory ID:	05-036-01									
Arsenic	ND	ND	NA	NA		NA	NA	NA	20	
Cadmium	ND	ND	NA	NA		NA	NA	NA	20	
Chromium	ND	ND	NA	NA		NA	NA	NA	20	
Copper	ND	ND	NA	NA		NA	NA	NA	20	
Lead	ND	ND	NA	NA		NA	NA	NA	20	
Nickel	ND	ND	NA	NA		NA	NA	NA	20	
Selenium	ND	ND	NA	NA		NA	NA	NA	20	
Zinc	ND	ND	NA	NA		NA	NA	NA	20	
Laboratory ID:	05-065-01									
Mercury	ND	ND	NA	NA		NA	NA	NA	20	
MATRIX SPIKES										
Laboratory ID:	05-065-01									
	MS	MSD	MS	MSD		MS	MSD			
Calcium	40200	40400	22200	22200	17400	103	104	75-125	1	20
Iron	25300	25100	22200	22200	444	112	111	75-125	1	20
Magnesium	32600	32600	22200	22200	8800	107	107	75-125	0	20
Manganese	834	838	556	556	312	94	95	75-125	1	20
Potassium	27000	26900	22200	22200	2100	112	112	75-125	0	20
Sodium	30100	30300	22200	22200	5350	111	112	75-125	1	20
Laboratory ID:	05-036-01									
Arsenic	81.0	82.4	80.0	80.0	ND	101	103	75-125	2	20
Cadmium	74.2	75.4	80.0	80.0	ND	93	94	75-125	2	20
Chromium	75.4	77.2	80.0	80.0	ND	94	97	75-125	2	20
Copper	72.6	73.8	80.0	80.0	ND	91	92	75-125	2	20
Lead	74.8	76.2	80.0	80.0	ND	94	95	75-125	2	20
Nickel	73.2	74.2	80.0	80.0	ND	92	93	75-125	1	20
Selenium	82.2	81.6	80.0	80.0	ND	103	102	75-125	1	20
Zinc	74.6	78.0	80.0	80.0	ND	93	98	75-125	4	20
Laboratory ID:	05-065-01									
Mercury	6.28	6.25	6.25	6.25	ND	100	100	75-125	0	20



OnSite Environmental, Inc. 14648 NE 95th Street, Redmond, WA 98052 (425) 883-3881

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: May 23, 2022
 Samples Submitted: May 5, 2022
 Laboratory Reference: 2205-066
 Project: 6694-002-05 T700

**TOTAL ALKALINITY
 SM 2320B
 QUALITY CONTROL**

Matrix: Water
 Units: mg CaCO₃/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0512W1					
Total Alkalinity	ND	2.0	SM 2320B	5-12-22	5-12-22	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	05-107-01							
	ORIG	DUP						
Total Alkalinity	20.0	22.0	NA	NA	NA	10	10	

SPIKE BLANK								
Laboratory ID:	SB0512W1							
	SB	SB		SB				
Total Alkalinity	98.0	100	NA	98	89-110	NA	NA	



Date of Report: May 23, 2022
 Samples Submitted: May 5, 2022
 Laboratory Reference: 2205-066
 Project: 6694-002-05 T700

**BICARBONATE
 SM 2320B
 QUALITY CONTROL**

Matrix: Water
 Units: mg CaCO₃/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0512W1					
Bicarbonate	ND	2.0	SM 2320B	5-12-22	5-12-22	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	05-107-01							
	ORIG	DUP						
Bicarbonate	20.0	22.0	NA	NA	NA	10	10	

SPIKE BLANK								
Laboratory ID:	SB0512W1							
	SB	SB		SB				
Bicarbonate	98.0	100	NA	98	89-110	NA	NA	



Date of Report: May 23, 2022
 Samples Submitted: May 5, 2022
 Laboratory Reference: 2205-066
 Project: 6694-002-05 T700

**TOTAL DISSOLVED SOLIDS
 SM 2540C
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0510W1					
Total Dissolved Solids	ND	13	SM 2540C	5-10-22	5-16-22	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	05-075-03							
	ORIG	DUP						
Total Dissolved Solids	109	119	NA	NA	NA	9	23	

SPIKE BLANK								
Laboratory ID:	SB0510W1							
	SB	SB		SB				
Total Dissolved Solids	481	500	NA	96	89-110	NA	NA	



Date of Report: May 23, 2022
 Samples Submitted: May 5, 2022
 Laboratory Reference: 2205-066
 Project: 6694-002-05 T700

**CHLORIDE
 SM 4500-Cl E
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0516W2					
Chloride	ND	2.0	SM 4500-Cl E	5-16-22	5-16-22	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	05-024-01							
	ORIG	DUP						
Chloride	3.88	4.28	NA	NA	NA	10	11	

MATRIX SPIKE								
Laboratory ID:	05-024-01							
	MS	MS		MS				
Chloride	54.8	50.0	3.88	102	90-121	NA	NA	

SPIKE BLANK								
Laboratory ID:	SB0516W2							
	SB	SB		SB				
Chloride	47.1	50.0	NA	94	90-119	NA	NA	



Date of Report: May 23, 2022
 Samples Submitted: May 5, 2022
 Laboratory Reference: 2205-066
 Project: 6694-002-05 T700

NITRATE (as Nitrogen)
EPA 353.2
QUALITY CONTROL

Matrix: Water
 Units: mg/L-N

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0517W1					
Nitrate	ND	0.050	EPA 353.2	5-17-22	5-17-22	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	05-075-03							
	ORIG	DUP						
Nitrate	ND	ND	NA	NA	NA	NA	10	

MATRIX SPIKE								
Laboratory ID:	05-075-03							
	MS	MS		MS				
Nitrate	2.04	2.00	ND	102	88-125	NA	NA	

SPIKE BLANK								
Laboratory ID:	SB0517W1							
	SB	SB		SB				
Nitrate	2.11	2.00	NA	106	90-120	NA	NA	



Date of Report: May 23, 2022
 Samples Submitted: May 5, 2022
 Laboratory Reference: 2205-066
 Project: 6694-002-05 T700

**SULFATE
 ASTM D516-11
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0523W1					
Sulfate	ND	5.0	ASTM D516-11	5-23-22	5-23-22	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	05-235-04							
	ORIG	DUP						
Sulfate	16.5	16.7	NA	NA	NA	1	10	

SPIKE BLANK								
Laboratory ID:	SB0523W1							
	SB	SB		SB				
Sulfate	10.0	10.0	NA	100	85-114	NA	NA	

MATRIX SPIKE								
Laboratory ID:	05-235-04							
	MS	MS		MS				
Sulfate	36.3	20.0	16.5	99	72-128	NA	NA	



Date of Report: May 23, 2022
 Samples Submitted: May 5, 2022
 Laboratory Reference: 2205-066
 Project: 6694-002-05 T700

**AMMONIA (as Nitrogen)
 SM 4500-NH₃ D
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0516W1					
Ammonia	ND	0.050	SM 4500-NH ₃ D	5-16-22	5-16-02	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	05-024-01							
	ORIG	DUP						
Ammonia	0.101	0.0940	NA	NA	NA	7	15	

MATRIX SPIKE								
Laboratory ID:	05-024-01							
	MS	MS		MS				
Ammonia	4.73	5.00	0.101	93	87-110	NA	NA	

SPIKE BLANK								
Laboratory ID:	SB0516W1							
	SB	SB		SB				
Ammonia	4.57	5.00	NA	91	88-110	NA	NA	





Data Qualifiers and Abbreviations

- A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.
 - B - The analyte indicated was also found in the blank sample.
 - C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.
 - E - The value reported exceeds the quantitation range and is an estimate.
 - F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.
 - H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.
 - I - Compound recovery is outside of the control limits.
 - J - The value reported was below the practical quantitation limit. The value is an estimate.
 - K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.
 - L - The RPD is outside of the control limits.
 - M - Hydrocarbons in the gasoline range are impacting the diesel range result.
 - M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.
 - N - Hydrocarbons in the lube oil range are impacting the diesel range result.
 - N1 - Hydrocarbons in diesel range are impacting lube oil range results.
 - O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.
 - P - The RPD of the detected concentrations between the two columns is greater than 40.
 - Q - Surrogate recovery is outside of the control limits.
 - S - Surrogate recovery data is not available due to the necessary dilution of the sample.
 - T - The sample chromatogram is not similar to a typical _____.
 - U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
 - U1 - The practical quantitation limit is elevated due to interferences present in the sample.
 - V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.
 - W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.
 - X - Sample extract treated with a mercury cleanup procedure.
 - X1 - Sample extract treated with a sulfuric acid/silica gel cleanup procedure.
 - Y - The calibration verification for this analyte exceeded the 20% drift specified in methods 8260 & 8270, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.
 - Z -
- ND - Not Detected at PQL
 PQL - Practical Quantitation Limit
 RPD - Relative Percent Difference





OnSite Environmental Inc

David Baumeister
14648 NE 95th Street
Redmond, WA 98052

RE: 05-066

Work Order Number: 2205171

May 19, 2022

Attention David Baumeister:

Fremont Analytical, Inc. received 1 sample(s) on 5/6/2022 for the analyses presented in the following report.

Herbicides by EPA Method 8151A (GC/MS)

This report consists of the following:

- Case Narrative
- Analytical Results
- Applicable Quality Control Summary Reports
- Chain of Custody

All analyses were performed consistent with the Quality Assurance program of Fremont Analytical, Inc. Please contact the laboratory if you should have any questions about the results.

Thank you for using Fremont Analytical.

Sincerely,

Brianna Barnes
Project Manager



CLIENT: OnSite Environmental Inc
Project: 05-066
Work Order: 2205171

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received
2205171-001	MW-2-220505	05/05/2022 1:00 PM	05/06/2022 1:30 PM

DRAFT

Note: If no "Time Collected" is supplied, a default of 12:00AM is assigned

CLIENT: OnSite Environmental Inc
Project: 05-066

I. SAMPLE RECEIPT:

Samples receipt information is recorded on the attached Sample Receipt Checklist.

II. GENERAL REPORTING COMMENTS:

Results are reported on a wet weight basis unless dry-weight correction is denoted in the units field on the analytical report ("mg/kg-dry" or "ug/kg-dry").

Matrix Spike (MS) and MS Duplicate (MSD) samples are tested from an analytical batch of "like" matrix to check for possible matrix effect. The MS and MSD will provide site specific matrix data only for those samples which are spiked by the laboratory. The sample chosen for spike purposes may or may not have been a sample submitted in this sample delivery group. The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The LCS and the MB are processed with the samples and the MS/MSD to ensure method criteria are achieved throughout the entire analytical process.

III. ANALYSES AND EXCEPTIONS:

Exceptions associated with this report will be footnoted in the analytical results page(s) or the quality control summary page(s) and/or noted below.

DRAFT

Qualifiers:

- * - Flagged value is not within established control limits
- B - Analyte detected in the associated Method Blank
- D - Dilution was required
- E - Value above quantitation range
- H - Holding times for preparation or analysis exceeded
- I - Analyte with an internal standard that does not meet established acceptance criteria
- J - Analyte detected below Reporting Limit
- N - Tentatively Identified Compound (TIC)
- Q - Analyte with an initial or continuing calibration that does not meet established acceptance criteria
- S - Spike recovery outside accepted recovery limits
- ND - Not detected at the Reporting Limit
- R - High relative percent difference observed

Acronyms:

- %Rec - Percent Recovery
- CCB - Continued Calibration Blank
- CCV - Continued Calibration Verification
- DF - Dilution Factor
- DUP - Sample Duplicate
- HEM - Hexane Extractable Material
- ICV - Initial Calibration Verification
- LCS/LCSD - Laboratory Control Sample / Laboratory Control Sample Duplicate
- MCL - Maximum Contaminant Level
- MB or MBLANK - Method Blank
- MDL - Method Detection Limit
- MS/MSD - Matrix Spike / Matrix Spike Duplicate
- PDS - Post Digestion Spike
- Ref Val - Reference Value
- REP - Sample Replicate
- RL - Reporting Limit
- RPD - Relative Percent Difference
- SD - Serial Dilution
- SGT - Silica Gel Treatment
- SPK - Spike
- Surr - Surrogate



Client: OnSite Environmental Inc

Collection Date: 5/5/2022 1:00:00 PM

Project: 05-066

Lab ID: 2205171-001

Matrix: Water

Client Sample ID: MW-2-220505

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Herbicides by EPA Method 8151A (GC/MS)

Batch ID: 36363

Analyst: OK

Dicamba	ND	0.993		µg/L	1	5/13/2022 4:22:09 PM
2,4-D	ND	0.993		µg/L	1	5/13/2022 4:22:09 PM
2,4-DP	ND	0.993		µg/L	1	5/13/2022 4:22:09 PM
2,4,5-TP (Silvex)	ND	0.993		µg/L	1	5/13/2022 4:22:09 PM
2,4,5-T	ND	0.993		µg/L	1	5/13/2022 4:22:09 PM
Dinoseb	ND	0.993		µg/L	1	5/13/2022 4:22:09 PM
Dalapon	ND	1.99		µg/L	1	5/13/2022 4:22:09 PM
2,4-DB	ND	0.993		µg/L	1	5/13/2022 4:22:09 PM
MCPP	ND	4.97		µg/L	1	5/13/2022 4:22:09 PM
MCPA	ND	4.97		µg/L	1	5/13/2022 4:22:09 PM
Picloram	ND	0.993		µg/L	1	5/13/2022 4:22:09 PM
Bentazon	ND	0.993		µg/L	1	5/13/2022 4:22:09 PM
Chloramben	ND	0.993		µg/L	1	5/13/2022 4:22:09 PM
Acifluorfen	ND	4.97		µg/L	1	5/13/2022 4:22:09 PM
3,5-Dichlorobenzoic acid	ND	0.993		µg/L	1	5/13/2022 4:22:09 PM
4-Nitrophenol	ND	0.993		µg/L	1	5/13/2022 4:22:09 PM
Dacthal (DCPA)	ND	1.99		µg/L	1	5/13/2022 4:22:09 PM
Surr: 2,4-Dichlorophenylacetic acid	101	65.7 - 136		%Rec	1	5/13/2022 4:22:09 PM

Work Order: 2205171
 CLIENT: OnSite Environmental Inc
 Project: 05-066

QC SUMMARY REPORT
Herbicides by EPA Method 8151A (GC/MS)

Sample ID: MB-36363	SampType: MBLK	Units: µg/L	Prep Date: 5/9/2022	RunNo: 75476							
Client ID: MBLKW	Batch ID: 36363		Analysis Date: 5/13/2022	SeqNo: 1548821							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Dicamba	ND	0.996									
2,4-D	ND	0.996									
2,4-DP	ND	0.996									
2,4,5-TP (Silvex)	ND	0.996									
2,4,5-T	ND	0.996									
Dinoseb	ND	0.996									
Dalapon	ND	1.99									
2,4-DB	ND	0.996									
MCPP	ND	4.98									
MCPA	ND	4.98									
Picloram	ND	0.996									
Bentazon	ND	0.996									
Chloramben	ND	0.996									
Acifluorfen	ND	4.98									
3,5-Dichlorobenzoic acid	ND	0.996									
4-Nitrophenol	ND	0.996									
Dacthal (DCPA)	ND	1.99									
Surr: 2,4-Dichlorophenylacetic acid	18.5		19.91		93.0	65.7	136				

Sample ID: LCS-36363	SampType: LCS	Units: µg/L	Prep Date: 5/9/2022	RunNo: 75476							
Client ID: LCSW	Batch ID: 36363		Analysis Date: 5/13/2022	SeqNo: 1548822							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Dicamba	4.04	0.993	3.974	0	102	16.6	148				
2,4-D	4.77	0.993	3.974	0	120	50.4	150				
2,4-DP	4.33	0.993	3.974	0	109	53	135				
2,4,5-TP (Silvex)	4.52	0.993	3.974	0	114	53.6	140				
2,4,5-T	4.49	0.993	3.974	0	113	50	141				
Dinoseb	3.69	0.993	3.974	0	92.8	5	119				
Dalapon	11.7	1.99	19.87	0	59.0	5.65	97.2				
2,4-DB	4.47	0.993	3.974	0	112	54.9	141				

Work Order: 2205171
 CLIENT: OnSite Environmental Inc
 Project: 05-066

QC SUMMARY REPORT
Herbicides by EPA Method 8151A (GC/MS)

Sample ID: LCS-36363	SampType: LCS	Units: µg/L			Prep Date: 5/9/2022	RunNo: 75476					
Client ID: LCSW	Batch ID: 36363				Analysis Date: 5/13/2022	SeqNo: 1548822					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
MCPP	17.2	4.97	19.87	0	86.6	28.7	166				
MCPA	17.6	4.97	19.87	0	88.5	20.7	176				
Picloram	3.56	0.993	3.974	0	89.5	9.72	120				
Bentazon	4.42	0.993	3.974	0	111	41.2	141				
Chloramben	2.39	0.993	3.974	0	60.1	5	109				
Acifluorfen	3.95	3.87	3.974	0	99.3	7.62	139				
3,5-Dichlorobenzoic acid	4.07	0.993	3.974	0	102	52.4	120				
4-Nitrophenol	0.821	0.497	3.974	0	20.6	5	107				
Dacthal (DCPA)	2.08	1.99	3.974	0	52.4	5	65.4				
Surr: 2,4-Dichlorophenylacetic acid	19.6		19.87		98.6	65.7	136				

Sample ID: LCS-36363	SampType: LCS	Units: µg/L			Prep Date: 5/9/2022	RunNo: 75476					
Client ID: LCSW02	Batch ID: 36363				Analysis Date: 5/13/2022	SeqNo: 1548823					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dicamba	4.41	0.996	3.984	0	111	16.6	148	4.043	8.63	30	
2,4-D	5.41	0.996	3.984	0	136	50.4	150	4.765	12.7	30	
2,4-DP	4.86	0.996	3.984	0	122	53	135	4.327	11.6	30	
2,4,5-TP (Silvex)	5.18	0.996	3.984	0	130	53.6	140	4.515	13.8	30	
2,4,5-T	5.19	0.996	3.984	0	130	50	141	4.485	14.5	30	
Dinoseb	4.12	0.996	3.984	0	103	5	119	3.689	11.1	30	
Dalapon	11.5	1.99	19.92	0	57.6	5.65	97.2	11.72	2.13	30	
2,4-DB	5.12	0.996	3.984	0	128	54.9	141	4.466	13.6	30	
MCPP	18.7	4.98	19.92	0	93.7	28.7	166	17.21	8.10	30	
MCPA	19.1	4.98	19.92	0	96.1	20.7	176	17.59	8.40	30	
Picloram	4.21	0.996	3.984	0	106	9.72	120	3.556	16.9	30	
Bentazon	5.00	0.996	3.984	0	125	41.2	141	4.424	12.2	30	
Chloramben	3.30	0.996	3.984	0	82.7	5	109	2.388	31.9	30	
Acifluorfen	4.36	3.98	3.984	0	109	7.62	139	3.947	9.91	30	
3,5-Dichlorobenzoic acid	4.35	0.996	3.984	0	109	52.4	120	4.068	6.78	30	
4-Nitrophenol	2.34	0.996	3.984	0	58.7	5	107	0.8205	96.1	30	R

Work Order: 2205171
 CLIENT: OnSite Environmental Inc
 Project: 05-066

QC SUMMARY REPORT
Herbicides by EPA Method 8151A (GC/MS)

Sample ID: LCSD-36363	SampType: LCSD	Units: µg/L	Prep Date: 5/9/2022	RunNo: 75476							
Client ID: LCSW02	Batch ID: 36363		Analysis Date: 5/13/2022	SeqNo: 1548823							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dacthal (DCPA)	1.93	1.49	3.984	0	48.5	5	65.4	2.083	7.42	30	
Surr: 2,4-Dichlorophenylacetic acid	21.0		19.92		105	65.7	136		0		

NOTES:
 R - High RPD observed, spike recovery is within range.

Sample ID: 2205170-001AMS	SampType: MS	Units: µg/L	Prep Date: 5/9/2022	RunNo: 75476							
Client ID: BATCH	Batch ID: 36363		Analysis Date: 5/13/2022	SeqNo: 1548828							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dicamba	4.62	1.00	4.003	0	115	31	142				
2,4-D	5.65	1.00	4.003	0	141	50.3	149				
2,4-DP	5.05	1.00	4.003	0	126	49.9	143				
2,4,5-TP (Silvex)	5.42	1.00	4.003	0	135	47.7	141				
2,4,5-T	5.47	1.00	4.003	0	137	34.4	139				
Dinoseb	5.07	1.00	4.003	0	127	27.3	117				S
Dalapon	11.3	2.00	20.02	0	56.6	14.2	113				
2,4-DB	5.50	1.00	4.003	0	137	31.3	147				
MCPD	19.4	5.00	20.02	0	97.1	30.5	177				
MCPA	19.9	5.00	20.02	0	99.2	36.8	163				
Picloram	4.32	1.00	4.003	0	108	18.8	115				
Bentazon	5.44	1.00	4.003	0	136	11.9	176				
Chloramben	3.40	1.00	4.003	0	84.9	5	112				
Acifluorfen	5.12	5.00	4.003	0	128	28.1	146				
3,5-Dichlorobenzoic acid	4.66	1.00	4.003	0	117	36.2	146				
4-Nitrophenol	1.39	1.00	4.003	0	34.6	5	116				
Dacthal (DCPA)	1.63	1.50	4.003	0	40.6	5	84.6				
Surr: 2,4-Dichlorophenylacetic acid	21.7		20.02		109	65.7	136				

NOTES:
 S - Outlying spike recoveries were associated with this sample (high bias, non-detect).

Client Name: ONSITE	Work Order Number: 2205171
Logged by: Gabrielle Coeuille	Date Received: 5/6/2022 1:30:00 PM

Chain of Custody

1. Is Chain of Custody complete? Yes No Not Present
2. How was the sample delivered? Courier

Log In

3. Coolers are present? Yes No NA
4. Shipping container/cooler in good condition? Yes No
5. Custody Seals present on shipping container/cooler?
(Refer to comments for Custody Seals not intact) Yes No Not Present
6. Was an attempt made to cool the samples? Yes No NA
7. Were all items received at a temperature of >2°C to 6°C * Yes No NA
8. Sample(s) in proper container(s)? Yes No
9. Sufficient sample volume for indicated test(s)? Yes No
10. Are samples properly preserved? Yes No
11. Was preservative added to bottles? Yes No NA
12. Is there headspace in the VOA vials? Yes No NA
13. Did all samples containers arrive in good condition(unbroken)? Yes No
14. Does paperwork match bottle labels? Yes No
15. Are matrices correctly identified on Chain of Custody? Yes No
16. Is it clear what analyses were requested? Yes No
17. Were all holding times able to be met? Yes No

Special Handling (if applicable)

18. Was client notified of all discrepancies with this order? Yes No NA

Person Notified:	<input type="text"/>	Date:	<input type="text"/>
By Whom:	<input type="text"/>	Via:	<input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:	<input type="text"/>		
Client Instructions:	<input type="text"/>		

19. Additional remarks:

Item Information

Item #	Temp °C
Sample 1	5.2

* Note: DoD/ELAP and TNI require items to be received at 4°C +/- 2°C

2205171

Laboratory Reference #: 05-066

Laboratory: Fremont Analytical

Turnaround Request

Project Manager: David Baumeister

Attention: Chelsea Ward

1 Day 2 Day 3 Day

email: dbaumeister@onsite-env.com

3600 Fremont Avenue N, Seattle, WA 98103

Standard

Project Number: 6694-002-05

Phone Number: (206) 352-3790

Other: _____

Project Name: _____

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	# of Cont.	Requested Analyses
	MW-2-220505	5/5/22	13:00	W	1	Chlorinated Acid Herbicides 8151
Signature		Company		Date	Time	Comments/Special Instructions
Relinquished by: <i>Nancy Blinn</i>		OSE		5/6/22	11:35	EDDs
Received by: <i>KW</i>		alpha		5/6/22	11:35	
Relinquished by: <i>KW</i>		alpha		5/6/22	1:30	
Received by: <i>chelsea</i>		FAI		5/6/22	13:30	
Relinquished by:						
Received by:						



OnSite Environmental Inc.
 Analytical Laboratory Testing Services
 14648 NE 95th Street • Redmond, WA 98052
 Phone: (425) 883-3881 • www.onsite-env.com

Chain of Custody

Page 1 of 1

Company: GEI
 Project Number: 6694-002-05
 Project Name: Go East
 Project Manager: Garrett League
 Sampled by: Jason Edwards

Turnaround Request (in working days)

(Check One)

Same Day 1 Day
 2 Days 3 Days
 Standard (7 Days)
 _____ (other)

Laboratory Number: **05-066**

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers
1	MW-2-220505	5/5/22	1300	GW	18

NWTPH-HCID	NWTPH-Gx/BTEX (8021 <input type="checkbox"/> 8260 <input type="checkbox"/>)	NWTPH-Gx	NWTPH-Dx (Acid / SG Clean-up <input type="checkbox"/>)	Volatiles 8260	Halogenated Volatiles 8260	EDB EPA 8011 (Waters Only)	Semivolatiles 8270/SIM (with low-level PAHs)	PAHs 8270/SIM (low-level)	PCBs 8082	Organochlorine Pesticides 8081	Organophosphorus Pesticides 8270/SIM	Chlorinated Acid Herbicides 8151	Total Heavy Metals + Dissolved <input checked="" type="checkbox"/>	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664	Cl, NO ₂ , SO ₄ , NH ₃	Dissolved Ca, K, Na	Alkalinity and bicarbonate	TDS	% Moisture	

Signature	Company	Date	Time	Comments/Special Instructions
<u>MM GEM</u>	<u>GEI</u>	<u>5/5/22</u>	<u>1445</u>	<u>Unlabeled 40ml vial is temperature blank (DI water)</u> <u>★ Total + Dissolved (field filtered) metals = As, Cd, Cr, Cu, Fe, Pb, Mn, Hg, Ni, Se, Zn, Mg</u>
<u>Joshua P</u>	<u>Alpha Carrier</u>	<u>5-5-22</u>	<u>3:30pm</u>	
<u>Joshua P</u>	<u>Alpha</u>	<u>5-5-22</u>	<u>5:45</u>	
<u>[Signature]</u>	<u>GEI</u>	<u>5/5/22</u>	<u>1745</u>	
				Data Package: Standard <input type="checkbox"/> Level III <input type="checkbox"/> Level IV <input type="checkbox"/>
				Chromatograms with final report <input type="checkbox"/> Electronic Data Deliverables (EDDs) <input type="checkbox"/>



14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

May 23, 2022

Garrett Leque
GeoEngineers, Inc.
554 West Bakerview Road
Bellingham, WA 98226

Re: Analytical Data for Project 6694-002-05 T700
Laboratory Reference No. 2205-084

Dear Garrett:

Enclosed are the analytical results and associated quality control data for samples submitted on May 6, 2022.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

A handwritten signature in black ink, appearing to read "DB", with a long horizontal stroke extending to the right.

David Baumeister
Project Manager

Enclosures



OnSite Environmental, Inc. 14648 NE 95th Street, Redmond, WA 98052 (425) 883-3881

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: May 23, 2022
Samples Submitted: May 6, 2022
Laboratory Reference: 2205-084
Project: 6694-002-05 T700

Case Narrative

Samples were collected on May 6, 2022 and received by the laboratory on May 6, 2022. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

DRAFT



Date of Report: May 23, 2022
Samples Submitted: May 6, 2022
Laboratory Reference: 2205-084
Project: 6694-002-05 T700

ANALYTICAL REPORT FOR SAMPLES

Client ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
MW-7-20220506	05-084-01	Water	5-6-22	5-6-22	

DRAFT



Date of Report: May 23, 2022
 Samples Submitted: May 6, 2022
 Laboratory Reference: 2205-084
 Project: 6694-002-05 T700

GASOLINE RANGE ORGANICS
NWTPH-Gx

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-7-20220506					
Laboratory ID:	05-084-01					
Gasoline	ND	100	NWTPH-Gx	5-9-22	5-9-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	91	65-122				



Date of Report: May 23, 2022
 Samples Submitted: May 6, 2022
 Laboratory Reference: 2205-084
 Project: 6694-002-05 T700

DIESEL AND HEAVY OIL RANGE ORGANICS
NWTPH-Dx

Matrix: Water
 Units: mg/L (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-7-20220506					
Laboratory ID:	05-084-01					
Diesel Range Organics	ND	0.22	NWTPH-Dx	5-9-22	5-9-22	
Lube Oil Range Organics	ND	0.22	NWTPH-Dx	5-9-22	5-9-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	91	50-150				



Date of Report: May 23, 2022
 Samples Submitted: May 6, 2022
 Laboratory Reference: 2205-084
 Project: 6694-002-05 T700

VOLATILE ORGANICS EPA 8260D
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-7-20220506					
Laboratory ID:	05-084-01					
Dichlorodifluoromethane	ND	0.20	EPA 8260D	5-10-22	5-10-22	
Chloromethane	ND	1.0	EPA 8260D	5-10-22	5-10-22	
Vinyl Chloride	ND	0.20	EPA 8260D	5-10-22	5-10-22	
Bromomethane	ND	1.8	EPA 8260D	5-10-22	5-10-22	
Chloroethane	ND	1.0	EPA 8260D	5-10-22	5-10-22	
Trichlorofluoromethane	ND	0.20	EPA 8260D	5-10-22	5-10-22	
1,1-Dichloroethene	ND	0.20	EPA 8260D	5-10-22	5-10-22	
Acetone	ND	5.0	EPA 8260D	5-10-22	5-10-22	
Iodomethane	ND	28	EPA 8260D	5-10-22	5-10-22	
Carbon Disulfide	ND	0.28	EPA 8260D	5-10-22	5-10-22	
Methylene Chloride	ND	1.0	EPA 8260D	5-10-22	5-10-22	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	5-10-22	5-10-22	
Methyl t-Butyl Ether	ND	0.20	EPA 8260D	5-10-22	5-10-22	
1,1-Dichloroethane	ND	0.20	EPA 8260D	5-10-22	5-10-22	
Vinyl Acetate	ND	1.0	EPA 8260D	5-10-22	5-10-22	
2,2-Dichloropropane	ND	0.20	EPA 8260D	5-10-22	5-10-22	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	5-10-22	5-10-22	
2-Butanone	ND	5.0	EPA 8260D	5-10-22	5-10-22	
Bromochloromethane	ND	0.20	EPA 8260D	5-10-22	5-10-22	
Chloroform	ND	0.20	EPA 8260D	5-10-22	5-10-22	
1,1,1-Trichloroethane	ND	0.20	EPA 8260D	5-10-22	5-10-22	
Carbon Tetrachloride	ND	0.20	EPA 8260D	5-10-22	5-10-22	
1,1-Dichloropropene	ND	0.20	EPA 8260D	5-10-22	5-10-22	
Benzene	ND	0.20	EPA 8260D	5-10-22	5-10-22	
1,2-Dichloroethane	ND	0.20	EPA 8260D	5-10-22	5-10-22	
Trichloroethene	ND	0.20	EPA 8260D	5-10-22	5-10-22	
1,2-Dichloropropane	ND	0.20	EPA 8260D	5-10-22	5-10-22	
Dibromomethane	ND	0.20	EPA 8260D	5-10-22	5-10-22	
Bromodichloromethane	ND	0.20	EPA 8260D	5-10-22	5-10-22	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260D	5-10-22	5-10-22	
Methyl Isobutyl Ketone	ND	2.0	EPA 8260D	5-10-22	5-10-22	
Toluene	ND	1.0	EPA 8260D	5-10-22	5-10-22	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260D	5-10-22	5-10-22	



Date of Report: May 23, 2022
 Samples Submitted: May 6, 2022
 Laboratory Reference: 2205-084
 Project: 6694-002-05 T700

VOLATILE ORGANICS EPA 8260D

page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-7-20220506					
Laboratory ID:	05-084-01					
1,1,2-Trichloroethane	ND	0.20	EPA 8260D	5-10-22	5-10-22	
Tetrachloroethene	ND	0.20	EPA 8260D	5-10-22	5-10-22	
1,3-Dichloropropane	ND	0.20	EPA 8260D	5-10-22	5-10-22	
2-Hexanone	ND	2.0	EPA 8260D	5-10-22	5-10-22	
Dibromochloromethane	ND	0.20	EPA 8260D	5-10-22	5-10-22	
1,2-Dibromoethane	ND	0.20	EPA 8260D	5-10-22	5-10-22	
Chlorobenzene	ND	0.20	EPA 8260D	5-10-22	5-10-22	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260D	5-10-22	5-10-22	
Ethylbenzene	ND	0.20	EPA 8260D	5-10-22	5-10-22	
m,p-Xylene	ND	0.40	EPA 8260D	5-10-22	5-10-22	
o-Xylene	ND	0.20	EPA 8260D	5-10-22	5-10-22	
Styrene	ND	0.20	EPA 8260D	5-10-22	5-10-22	
Bromoform	ND	1.0	EPA 8260D	5-10-22	5-10-22	
Isopropylbenzene	ND	0.20	EPA 8260D	5-10-22	5-10-22	
Bromobenzene	ND	0.20	EPA 8260D	5-10-22	5-10-22	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260D	5-10-22	5-10-22	
1,2,3-Trichloropropane	ND	0.20	EPA 8260D	5-10-22	5-10-22	
n-Propylbenzene	ND	0.20	EPA 8260D	5-10-22	5-10-22	
2-Chlorotoluene	ND	0.20	EPA 8260D	5-10-22	5-10-22	
4-Chlorotoluene	ND	0.20	EPA 8260D	5-10-22	5-10-22	
1,3,5-Trimethylbenzene	ND	0.20	EPA 8260D	5-10-22	5-10-22	
tert-Butylbenzene	ND	0.20	EPA 8260D	5-10-22	5-10-22	
1,2,4-Trimethylbenzene	ND	0.20	EPA 8260D	5-10-22	5-10-22	
sec-Butylbenzene	ND	0.20	EPA 8260D	5-10-22	5-10-22	
1,3-Dichlorobenzene	ND	0.20	EPA 8260D	5-10-22	5-10-22	
p-Isopropyltoluene	ND	0.20	EPA 8260D	5-10-22	5-10-22	
1,4-Dichlorobenzene	ND	0.20	EPA 8260D	5-10-22	5-10-22	
1,2-Dichlorobenzene	ND	0.20	EPA 8260D	5-10-22	5-10-22	
n-Butylbenzene	ND	0.20	EPA 8260D	5-10-22	5-10-22	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260D	5-10-22	5-10-22	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260D	5-10-22	5-10-22	
Hexachlorobutadiene	ND	1.0	EPA 8260D	5-10-22	5-10-22	
Naphthalene	ND	1.0	EPA 8260D	5-10-22	5-10-22	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260D	5-10-22	5-10-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>101</i>	<i>75-127</i>				
<i>Toluene-d8</i>	<i>100</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>103</i>	<i>78-125</i>				



OnSite Environmental, Inc. 14648 NE 95th Street, Redmond, WA 98052 (425) 883-3881

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: May 23, 2022
 Samples Submitted: May 6, 2022
 Laboratory Reference: 2205-084
 Project: 6694-002-05 T700

SEMIVOLATILE ORGANICS EPA 8270E/SIM
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-7-20220506					
Laboratory ID:	05-084-01					
n-Nitrosodimethylamine	ND	1.1	EPA 8270E	5-12-22	5-12-22	
Pyridine	ND	1.1	EPA 8270E	5-12-22	5-12-22	
Phenol	ND	1.1	EPA 8270E	5-12-22	5-12-22	
Aniline	ND	5.3	EPA 8270E	5-12-22	5-12-22	
bis(2-Chloroethyl)ether	ND	1.1	EPA 8270E	5-12-22	5-12-22	
2-Chlorophenol	ND	1.1	EPA 8270E	5-12-22	5-12-22	
1,3-Dichlorobenzene	ND	1.1	EPA 8270E	5-12-22	5-12-22	
1,4-Dichlorobenzene	ND	1.1	EPA 8270E	5-12-22	5-12-22	
Benzyl alcohol	ND	1.1	EPA 8270E	5-12-22	5-12-22	
1,2-Dichlorobenzene	ND	1.1	EPA 8270E	5-12-22	5-12-22	
2-Methylphenol (o-Cresol)	ND	1.1	EPA 8270E	5-12-22	5-12-22	
bis(2-Chloroisopropyl)ether	ND	1.1	EPA 8270E	5-12-22	5-12-22	
(3+4)-Methylphenol (m,p-Cresol)	ND	1.1	EPA 8270E	5-12-22	5-12-22	
n-Nitroso-di-n-propylamine	ND	1.1	EPA 8270E	5-12-22	5-12-22	
Hexachloroethane	ND	1.1	EPA 8270E	5-12-22	5-12-22	
Nitrobenzene	ND	1.1	EPA 8270E	5-12-22	5-12-22	
Isophorone	ND	1.1	EPA 8270E	5-12-22	5-12-22	
2-Nitrophenol	ND	1.1	EPA 8270E	5-12-22	5-12-22	
2,4-Dimethylphenol	ND	1.1	EPA 8270E	5-12-22	5-12-22	
bis(2-Chloroethoxy)methane	ND	1.1	EPA 8270E	5-12-22	5-12-22	
2,4-Dichlorophenol	ND	1.1	EPA 8270E	5-12-22	5-12-22	
1,2,4-Trichlorobenzene	ND	1.1	EPA 8270E	5-12-22	5-12-22	
Naphthalene	ND	0.11	EPA 8270E/SIM	5-12-22	5-12-22	
4-Chloroaniline	ND	1.1	EPA 8270E	5-12-22	5-12-22	
Hexachlorobutadiene	ND	1.1	EPA 8270E	5-12-22	5-12-22	
4-Chloro-3-methylphenol	ND	1.1	EPA 8270E	5-12-22	5-12-22	
2-Methylnaphthalene	ND	0.11	EPA 8270E/SIM	5-12-22	5-12-22	
1-Methylnaphthalene	ND	0.11	EPA 8270E/SIM	5-12-22	5-12-22	
Hexachlorocyclopentadiene	ND	1.1	EPA 8270E	5-12-22	5-12-22	
2,4,6-Trichlorophenol	ND	1.1	EPA 8270E	5-12-22	5-12-22	
2,3-Dichloroaniline	ND	1.1	EPA 8270E	5-12-22	5-12-22	
2,4,5-Trichlorophenol	ND	1.1	EPA 8270E	5-12-22	5-12-22	
2-Chloronaphthalene	ND	1.1	EPA 8270E	5-12-22	5-12-22	
2-Nitroaniline	ND	1.1	EPA 8270E	5-12-22	5-12-22	
1,4-Dinitrobenzene	ND	1.1	EPA 8270E	5-12-22	5-12-22	
Dimethylphthalate	ND	5.3	EPA 8270E	5-12-22	5-12-22	
1,3-Dinitrobenzene	ND	1.1	EPA 8270E	5-12-22	5-12-22	
2,6-Dinitrotoluene	ND	1.1	EPA 8270E	5-12-22	5-12-22	
1,2-Dinitrobenzene	ND	1.1	EPA 8270E	5-12-22	5-12-22	
Acenaphthylene	ND	0.11	EPA 8270E/SIM	5-12-22	5-12-22	
3-Nitroaniline	ND	1.1	EPA 8270E	5-12-22	5-12-22	



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SEMIVOLATILE ORGANICS EPA 8270E/SIM
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-7-20220506					
Laboratory ID:	05-084-01					
2,4-Dinitrophenol	ND	7.5	EPA 8270E	5-12-22	5-12-22	
Acenaphthene	ND	0.11	EPA 8270E/SIM	5-12-22	5-12-22	
4-Nitrophenol	ND	5.3	EPA 8270E	5-12-22	5-12-22	
2,4-Dinitrotoluene	ND	1.1	EPA 8270E	5-12-22	5-12-22	
Dibenzofuran	ND	1.1	EPA 8270E	5-12-22	5-12-22	
2,3,5,6-Tetrachlorophenol	ND	1.1	EPA 8270E	5-12-22	5-12-22	
2,3,4,6-Tetrachlorophenol	ND	1.1	EPA 8270E	5-12-22	5-12-22	
Diethylphthalate	ND	1.1	EPA 8270E	5-12-22	5-12-22	
4-Chlorophenyl-phenylether	ND	1.1	EPA 8270E	5-12-22	5-12-22	
4-Nitroaniline	ND	1.1	EPA 8270E	5-12-22	5-12-22	
Fluorene	ND	0.11	EPA 8270E/SIM	5-12-22	5-12-22	
4,6-Dinitro-2-methylphenol	ND	5.3	EPA 8270E	5-12-22	5-12-22	
n-Nitrosodiphenylamine	ND	1.1	EPA 8270E	5-12-22	5-12-22	
1,2-Diphenylhydrazine	ND	1.1	EPA 8270E	5-12-22	5-12-22	
4-Bromophenyl-phenylether	ND	1.1	EPA 8270E	5-12-22	5-12-22	
Hexachlorobenzene	ND	1.1	EPA 8270E	5-12-22	5-12-22	
Pentachlorophenol	ND	9.5	EPA 8270E	5-12-22	5-12-22	
Phenanthrene	ND	0.11	EPA 8270E/SIM	5-12-22	5-12-22	
Anthracene	ND	0.11	EPA 8270E/SIM	5-12-22	5-12-22	
Carbazole	ND	1.1	EPA 8270E	5-12-22	5-12-22	
Di-n-butylphthalate	ND	5.3	EPA 8270E	5-12-22	5-12-22	
Fluoranthene	ND	0.11	EPA 8270E/SIM	5-12-22	5-12-22	
Pyrene	ND	0.11	EPA 8270E/SIM	5-12-22	5-12-22	
Butylbenzylphthalate	ND	1.1	EPA 8270E	5-12-22	5-12-22	
bis(2-Ethylhexyl)adipate	ND	5.3	EPA 8270E	5-12-22	5-12-22	
3,3'-Dichlorobenzidine	ND	1.1	EPA 8270E	5-12-22	5-12-22	
Benzo[a]anthracene	ND	0.011	EPA 8270E/SIM	5-12-22	5-12-22	
Chrysene	ND	0.011	EPA 8270E/SIM	5-12-22	5-12-22	
bis(2-Ethylhexyl)phthalate	ND	5.3	EPA 8270E	5-12-22	5-12-22	
Di-n-octylphthalate	ND	1.1	EPA 8270E	5-12-22	5-12-22	
Benzo[b]fluoranthene	ND	0.011	EPA 8270E/SIM	5-12-22	5-12-22	
Benzo(j,k)fluoranthene	ND	0.011	EPA 8270E/SIM	5-12-22	5-12-22	
Benzo[a]pyrene	ND	0.011	EPA 8270E/SIM	5-12-22	5-12-22	
Indeno[1,2,3-cd]pyrene	ND	0.011	EPA 8270E/SIM	5-12-22	5-12-22	
Dibenz[a,h]anthracene	ND	0.011	EPA 8270E/SIM	5-12-22	5-12-22	
Benzo[g,h,i]perylene	ND	0.011	EPA 8270E/SIM	5-12-22	5-12-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
2-Fluorophenol	23	10 - 81				
Phenol-d6	20	10 - 86				
Nitrobenzene-d5	42	27 - 105				
2-Fluorobiphenyl	55	33 - 100				
2,4,6-Tribromophenol	72	25 - 124				
Terphenyl-d14	63	40 - 116				



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PCBs EPA 8082A

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-7-20220506					
Laboratory ID:	05-084-01					
Aroclor 1016	ND	0.058	EPA 8082A	5-10-22	5-16-22	
Aroclor 1221	ND	0.058	EPA 8082A	5-10-22	5-16-22	
Aroclor 1232	ND	0.058	EPA 8082A	5-10-22	5-16-22	
Aroclor 1242	ND	0.058	EPA 8082A	5-10-22	5-16-22	
Aroclor 1248	ND	0.058	EPA 8082A	5-10-22	5-16-22	
Aroclor 1254	ND	0.058	EPA 8082A	5-10-22	5-16-22	
Aroclor 1260	ND	0.058	EPA 8082A	5-10-22	5-16-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>DCB</i>	<i>108</i>	<i>49-133</i>				



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**ORGANOCHLORINE
 PESTICIDES EPA 8081B**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-7-20220506					
Laboratory ID:	05-084-01					
alpha-BHC	ND	0.0058	EPA 8081B	5-10-22	5-13-22	
gamma-BHC (Lindane)	ND	0.0058	EPA 8081B	5-10-22	5-13-22	
beta-BHC	ND	0.0058	EPA 8081B	5-10-22	5-13-22	
delta-BHC	ND	0.0058	EPA 8081B	5-10-22	5-13-22	
Heptachlor	ND	0.0058	EPA 8081B	5-10-22	5-13-22	
Aldrin	ND	0.0023	EPA 8081B	5-10-22	5-13-22	
Heptachlor Epoxide	ND	0.0035	EPA 8081B	5-10-22	5-13-22	
gamma-Chlordane	ND	0.0058	EPA 8081B	5-10-22	5-13-22	
alpha-Chlordane	ND	0.0058	EPA 8081B	5-10-22	5-13-22	
4,4'-DDE	ND	0.0058	EPA 8081B	5-10-22	5-13-22	
Endosulfan I	ND	0.0058	EPA 8081B	5-10-22	5-13-22	
Dieldrin	ND	0.0058	EPA 8081B	5-10-22	5-13-22	
Endrin	ND	0.0058	EPA 8081B	5-10-22	5-13-22	
4,4'-DDD	ND	0.0058	EPA 8081B	5-10-22	5-13-22	
Endosulfan II	ND	0.0058	EPA 8081B	5-10-22	5-13-22	
4,4'-DDT	ND	0.0058	EPA 8081B	5-10-22	5-13-22	
Endrin Aldehyde	ND	0.0058	EPA 8081B	5-10-22	5-13-22	
Methoxychlor	ND	0.012	EPA 8081B	5-10-22	5-13-22	
Endosulfan Sulfate	ND	0.0058	EPA 8081B	5-10-22	5-13-22	
Endrin Ketone	ND	0.023	EPA 8081B	5-10-22	5-13-22	
Toxaphene	ND	0.058	EPA 8081B	5-10-22	5-13-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
TCMX	65	21-110				
DCB	89	42-113				



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TOTAL METALS
EPA 200.8/200.7/7470A

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-7-20220506					
Laboratory ID:	05-084-01					
Arsenic	12	3.3	EPA 200.8	5-11-22	5-11-22	
Cadmium	ND	4.4	EPA 200.8	5-11-22	5-11-22	
Chromium	13	11	EPA 200.8	5-11-22	5-11-22	
Copper	27	11	EPA 200.8	5-11-22	5-11-22	
Iron	24000	50	EPA 200.7	5-9-22	5-9-22	
Lead	8.8	1.1	EPA 200.8	5-11-22	5-11-22	
Magnesium	24000	1000	EPA 200.7	5-9-22	5-9-22	
Manganese	1300	10	EPA 200.7	5-9-22	5-9-22	
Mercury	ND	0.025	EPA 7470A	5-12-22	5-12-22	
Nickel	36	22	EPA 200.8	5-11-22	5-11-22	
Selenium	ND	5.6	EPA 200.8	5-11-22	5-11-22	
Zinc	42	28	EPA 200.8	5-11-22	5-11-22	



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DISSOLVED METALS
EPA 200.8/200.7/7470A

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-7-20220506					
Laboratory ID:	05-084-01					
Arsenic	9.1	3.0	EPA 200.8		5-11-22	
Cadmium	ND	4.0	EPA 200.8		5-11-22	
Calcium	20000	1100	EPA 200.7		5-10-22	
Chromium	ND	10	EPA 200.8		5-11-22	
Copper	ND	10	EPA 200.8		5-11-22	
Iron	ND	56	EPA 200.7		5-10-22	
Lead	ND	1.0	EPA 200.8		5-11-22	
Magnesium	13000	1100	EPA 200.7		5-10-22	
Manganese	32	11	EPA 200.7		5-10-22	
Mercury	ND	0.025	EPA 7470A		5-12-22	
Nickel	ND	20	EPA 200.8		5-11-22	
Potassium	2100	1100	EPA 200.7		5-10-22	
Selenium	ND	5.0	EPA 200.8		5-11-22	
Sodium	6600	1100	EPA 200.7		5-10-22	
Zinc	ND	25	EPA 200.8		5-11-22	



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TOTAL ALKALINITY
SM 2320B

Matrix: Water
Units: mg CaCO₃/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-7-20220506					
Laboratory ID:	05-084-01					
Total Alkalinity	110	2.0	SM 2320B	5-12-22	5-12-22	



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**BICARBONATE
SM 2320B**

Matrix: Water
Units: mg CaCO₃/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-7-20220506					
Laboratory ID:	05-084-01					
Bicarbonate	110	2.0	SM 2320B	5-12-22	5-12-22	



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**TOTAL DISSOLVED SOLIDS
SM 2540C**

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-7-20220506					
Laboratory ID:	05-084-01					
Total Dissolved Solids	150	13	SM 2540C	5-10-22	5-16-22	



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CHLORIDE
SM 4500-Cl E

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-7-20220506					
Laboratory ID:	05-084-01					
Chloride	2.5	2.0	SM 4500-Cl E	5-16-22	5-16-22	



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NITRATE (as Nitrogen)
EPA 353.2

Matrix: Water
Units: mg/L-N

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-7-20220506					
Laboratory ID:	05-084-01					
Nitrate	ND	0.050	EPA 353.2	5-17-22	5-17-22	



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SULFATE
ASTM D516-11

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-7-20220506					
Laboratory ID:	05-084-01					
Sulfate	ND	5.0	ASTM D516-11	5-17-22	5-17-22	



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AMMONIA (as Nitrogen)
SM 4500-NH₃ D

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-7-20220506					
Laboratory ID:	05-084-01					
Ammonia	ND	0.050	SM 4500-NH3 D	5-16-22	5-16-22	



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**GASOLINE RANGE ORGANICS
 NWTPH-Gx
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0509W1					
Gasoline	ND	100	NWTPH-Gx	5-9-22	5-9-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	92	65-122				

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	05-065-01							
	ORIG	DUP						
Gasoline	ND	ND	NA	NA	NA	NA	30	
<i>Surrogate:</i>								
<i>Fluorobenzene</i>				91	91	65-122		



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**DIESEL AND HEAVY OIL RANGE ORGANICS
 NWTPH-Dx
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0509W1					
Diesel Range Organics	ND	0.16	NWTPH-Dx	5-9-22	5-9-22	
Lube Oil Range Organics	ND	0.16	NWTPH-Dx	5-9-22	5-9-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	91	50-150				

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	05-019-07							
	ORIG	DUP						
Diesel Range Organics	1.25	0.828	NA	NA	NA	NA	41	NA M
Lube Oil Range Organics	0.499	0.380	NA	NA	NA	NA	27	NA
<i>Surrogate:</i>								
<i>o-Terphenyl</i>			85	82	50-150			



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VOLATILE ORGANICS EPA 8260D
QUALITY CONTROL
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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0510W1					
Dichlorodifluoromethane	ND	0.20	EPA 8260D	5-10-22	5-10-22	
Chloromethane	ND	1.0	EPA 8260D	5-10-22	5-10-22	
Vinyl Chloride	ND	0.20	EPA 8260D	5-10-22	5-10-22	
Bromomethane	ND	1.8	EPA 8260D	5-10-22	5-10-22	
Chloroethane	ND	1.0	EPA 8260D	5-10-22	5-10-22	
Trichlorofluoromethane	ND	0.20	EPA 8260D	5-10-22	5-10-22	
1,1-Dichloroethene	ND	0.20	EPA 8260D	5-10-22	5-10-22	
Acetone	ND	5.0	EPA 8260D	5-10-22	5-10-22	
Iodomethane	ND	28	EPA 8260D	5-10-22	5-10-22	
Carbon Disulfide	ND	0.28	EPA 8260D	5-10-22	5-10-22	
Methylene Chloride	ND	1.0	EPA 8260D	5-10-22	5-10-22	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	5-10-22	5-10-22	
Methyl t-Butyl Ether	ND	0.20	EPA 8260D	5-10-22	5-10-22	
1,1-Dichloroethane	ND	0.20	EPA 8260D	5-10-22	5-10-22	
Vinyl Acetate	ND	1.0	EPA 8260D	5-10-22	5-10-22	
2,2-Dichloropropane	ND	0.20	EPA 8260D	5-10-22	5-10-22	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	5-10-22	5-10-22	
2-Butanone	ND	5.0	EPA 8260D	5-10-22	5-10-22	
Bromochloromethane	ND	0.20	EPA 8260D	5-10-22	5-10-22	
Chloroform	ND	0.20	EPA 8260D	5-10-22	5-10-22	
1,1,1-Trichloroethane	ND	0.20	EPA 8260D	5-10-22	5-10-22	
Carbon Tetrachloride	ND	0.20	EPA 8260D	5-10-22	5-10-22	
1,1-Dichloropropene	ND	0.20	EPA 8260D	5-10-22	5-10-22	
Benzene	ND	0.20	EPA 8260D	5-10-22	5-10-22	
1,2-Dichloroethane	ND	0.20	EPA 8260D	5-10-22	5-10-22	
Trichloroethene	ND	0.20	EPA 8260D	5-10-22	5-10-22	
1,2-Dichloropropane	ND	0.20	EPA 8260D	5-10-22	5-10-22	
Dibromomethane	ND	0.20	EPA 8260D	5-10-22	5-10-22	
Bromodichloromethane	ND	0.20	EPA 8260D	5-10-22	5-10-22	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260D	5-10-22	5-10-22	
Methyl Isobutyl Ketone	ND	2.0	EPA 8260D	5-10-22	5-10-22	
Toluene	ND	1.0	EPA 8260D	5-10-22	5-10-22	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260D	5-10-22	5-10-22	



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VOLATILE ORGANICS EPA 8260D
QUALITY CONTROL
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0510W1					
1,1,2-Trichloroethane	ND	0.20	EPA 8260D	5-10-22	5-10-22	
Tetrachloroethene	ND	0.20	EPA 8260D	5-10-22	5-10-22	
1,3-Dichloropropane	ND	0.20	EPA 8260D	5-10-22	5-10-22	
2-Hexanone	ND	2.0	EPA 8260D	5-10-22	5-10-22	
Dibromochloromethane	ND	0.20	EPA 8260D	5-10-22	5-10-22	
1,2-Dibromoethane	ND	0.20	EPA 8260D	5-10-22	5-10-22	
Chlorobenzene	ND	0.20	EPA 8260D	5-10-22	5-10-22	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260D	5-10-22	5-10-22	
Ethylbenzene	ND	0.20	EPA 8260D	5-10-22	5-10-22	
m,p-Xylene	ND	0.40	EPA 8260D	5-10-22	5-10-22	
o-Xylene	ND	0.20	EPA 8260D	5-10-22	5-10-22	
Styrene	ND	0.20	EPA 8260D	5-10-22	5-10-22	
Bromoform	ND	1.0	EPA 8260D	5-10-22	5-10-22	
Isopropylbenzene	ND	0.20	EPA 8260D	5-10-22	5-10-22	
Bromobenzene	ND	0.20	EPA 8260D	5-10-22	5-10-22	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260D	5-10-22	5-10-22	
1,2,3-Trichloropropane	ND	0.20	EPA 8260D	5-10-22	5-10-22	
n-Propylbenzene	ND	0.20	EPA 8260D	5-10-22	5-10-22	
2-Chlorotoluene	ND	0.20	EPA 8260D	5-10-22	5-10-22	
4-Chlorotoluene	ND	0.20	EPA 8260D	5-10-22	5-10-22	
1,3,5-Trimethylbenzene	ND	0.20	EPA 8260D	5-10-22	5-10-22	
tert-Butylbenzene	ND	0.20	EPA 8260D	5-10-22	5-10-22	
1,2,4-Trimethylbenzene	ND	0.20	EPA 8260D	5-10-22	5-10-22	
sec-Butylbenzene	ND	0.20	EPA 8260D	5-10-22	5-10-22	
1,3-Dichlorobenzene	ND	0.20	EPA 8260D	5-10-22	5-10-22	
p-Isopropyltoluene	ND	0.20	EPA 8260D	5-10-22	5-10-22	
1,4-Dichlorobenzene	ND	0.20	EPA 8260D	5-10-22	5-10-22	
1,2-Dichlorobenzene	ND	0.20	EPA 8260D	5-10-22	5-10-22	
n-Butylbenzene	ND	0.20	EPA 8260D	5-10-22	5-10-22	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260D	5-10-22	5-10-22	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260D	5-10-22	5-10-22	
Hexachlorobutadiene	ND	1.0	EPA 8260D	5-10-22	5-10-22	
Naphthalene	ND	1.0	EPA 8260D	5-10-22	5-10-22	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260D	5-10-22	5-10-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>105</i>	<i>75-127</i>				
<i>Toluene-d8</i>	<i>101</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>103</i>	<i>78-125</i>				



Date of Report: May 23, 2022
 Samples Submitted: May 6, 2022
 Laboratory Reference: 2205-084
 Project: 6694-002-05 T700

**VOLATILE ORGANICS EPA 8260D
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD		Flags
					Recovery	Limits	RPD	Limit		
SPIKE BLANKS										
Laboratory ID:	SB0510W1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	11.1	12.2	10.0	10.0	111	122	78-125	9	19	
Benzene	11.5	11.9	10.0	10.0	115	119	80-121	3	16	
Trichloroethene	10.5	11.1	10.0	10.0	105	111	80-122	6	18	
Toluene	10.5	11.0	10.0	10.0	105	110	80-120	5	18	
Chlorobenzene	9.45	10.0	10.0	10.0	95	100	80-120	6	17	
<i>Surrogate:</i>										
Dibromofluoromethane					106	108	75-127			
Toluene-d8					102	103	80-127			
4-Bromofluorobenzene					105	111	78-125			



Date of Report: May 23, 2022
 Samples Submitted: May 6, 2022
 Laboratory Reference: 2205-084
 Project: 6694-002-05 T700

**SEMIVOLATILE ORGANICS EPA 8270E/SIM
 QUALITY CONTROL**

page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0512W1					
n-Nitrosodimethylamine	ND	1.0	EPA 8270E	5-12-22	5-12-22	
Pyridine	ND	1.0	EPA 8270E	5-12-22	5-12-22	
Phenol	ND	1.0	EPA 8270E	5-12-22	5-12-22	
Aniline	ND	5.0	EPA 8270E	5-12-22	5-12-22	
bis(2-Chloroethyl)ether	ND	1.0	EPA 8270E	5-12-22	5-12-22	
2-Chlorophenol	ND	1.0	EPA 8270E	5-12-22	5-12-22	
1,3-Dichlorobenzene	ND	1.0	EPA 8270E	5-12-22	5-12-22	
1,4-Dichlorobenzene	ND	1.0	EPA 8270E	5-12-22	5-12-22	
Benzyl alcohol	ND	1.0	EPA 8270E	5-12-22	5-12-22	
1,2-Dichlorobenzene	ND	1.0	EPA 8270E	5-12-22	5-12-22	
2-Methylphenol (o-Cresol)	ND	1.0	EPA 8270E	5-12-22	5-12-22	
bis(2-Chloroisopropyl)ether	ND	1.0	EPA 8270E	5-12-22	5-12-22	
(3+4)-Methylphenol (m,p-Cresol)	ND	1.0	EPA 8270E	5-12-22	5-12-22	
n-Nitroso-di-n-propylamine	ND	1.0	EPA 8270E	5-12-22	5-12-22	
Hexachloroethane	ND	1.0	EPA 8270E	5-12-22	5-12-22	
Nitrobenzene	ND	1.0	EPA 8270E	5-12-22	5-12-22	
Isophorone	ND	1.0	EPA 8270E	5-12-22	5-12-22	
2-Nitrophenol	ND	1.0	EPA 8270E	5-12-22	5-12-22	
2,4-Dimethylphenol	ND	1.0	EPA 8270E	5-12-22	5-12-22	
bis(2-Chloroethoxy)methane	ND	1.0	EPA 8270E	5-12-22	5-12-22	
2,4-Dichlorophenol	ND	1.0	EPA 8270E	5-12-22	5-12-22	
1,2,4-Trichlorobenzene	ND	1.0	EPA 8270E	5-12-22	5-12-22	
Naphthalene	ND	0.10	EPA 8270E/SIM	5-12-22	5-12-22	
4-Chloroaniline	ND	1.0	EPA 8270E	5-12-22	5-12-22	
Hexachlorobutadiene	ND	1.0	EPA 8270E	5-12-22	5-12-22	
4-Chloro-3-methylphenol	ND	1.0	EPA 8270E	5-12-22	5-12-22	
2-Methylnaphthalene	ND	0.10	EPA 8270E/SIM	5-12-22	5-12-22	
1-Methylnaphthalene	ND	0.10	EPA 8270E/SIM	5-12-22	5-12-22	
Hexachlorocyclopentadiene	ND	1.0	EPA 8270E	5-12-22	5-12-22	
2,4,6-Trichlorophenol	ND	1.0	EPA 8270E	5-12-22	5-12-22	
2,3-Dichloroaniline	ND	1.0	EPA 8270E	5-12-22	5-12-22	
2,4,5-Trichlorophenol	ND	1.0	EPA 8270E	5-12-22	5-12-22	
2-Chloronaphthalene	ND	1.0	EPA 8270E	5-12-22	5-12-22	
2-Nitroaniline	ND	1.0	EPA 8270E	5-12-22	5-12-22	
1,4-Dinitrobenzene	ND	1.0	EPA 8270E	5-12-22	5-12-22	
Dimethylphthalate	ND	5.0	EPA 8270E	5-12-22	5-12-22	
1,3-Dinitrobenzene	ND	1.0	EPA 8270E	5-12-22	5-12-22	
2,6-Dinitrotoluene	ND	1.0	EPA 8270E	5-12-22	5-12-22	
1,2-Dinitrobenzene	ND	1.0	EPA 8270E	5-12-22	5-12-22	
Acenaphthylene	ND	0.10	EPA 8270E/SIM	5-12-22	5-12-22	
3-Nitroaniline	ND	1.0	EPA 8270E	5-12-22	5-12-22	



Date of Report: May 23, 2022
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**SEMIVOLATILE ORGANICS EPA 8270E/SIM
 QUALITY CONTROL**

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0512W1					
2,4-Dinitrophenol	ND	7.0	EPA 8270E	5-12-22	5-12-22	
Acenaphthene	ND	0.10	EPA 8270E/SIM	5-12-22	5-12-22	
4-Nitrophenol	ND	5.0	EPA 8270E	5-12-22	5-12-22	
2,4-Dinitrotoluene	ND	1.0	EPA 8270E	5-12-22	5-12-22	
Dibenzofuran	ND	1.0	EPA 8270E	5-12-22	5-12-22	
2,3,5,6-Tetrachlorophenol	ND	1.0	EPA 8270E	5-12-22	5-12-22	
2,3,4,6-Tetrachlorophenol	ND	1.0	EPA 8270E	5-12-22	5-12-22	
Diethylphthalate	ND	1.0	EPA 8270E	5-12-22	5-12-22	
4-Chlorophenyl-phenylether	ND	1.0	EPA 8270E	5-12-22	5-12-22	
4-Nitroaniline	ND	1.0	EPA 8270E	5-12-22	5-12-22	
Fluorene	ND	0.10	EPA 8270E/SIM	5-12-22	5-12-22	
4,6-Dinitro-2-methylphenol	ND	5.0	EPA 8270E	5-12-22	5-12-22	
n-Nitrosodiphenylamine	ND	1.0	EPA 8270E	5-12-22	5-12-22	
1,2-Diphenylhydrazine	ND	1.0	EPA 8270E	5-12-22	5-12-22	
4-Bromophenyl-phenylether	ND	1.0	EPA 8270E	5-12-22	5-12-22	
Hexachlorobenzene	ND	1.0	EPA 8270E	5-12-22	5-12-22	
Pentachlorophenol	ND	8.9	EPA 8270E	5-12-22	5-12-22	
Phenanthrene	ND	0.10	EPA 8270E/SIM	5-12-22	5-12-22	
Anthracene	ND	0.10	EPA 8270E/SIM	5-12-22	5-12-22	
Carbazole	ND	1.0	EPA 8270E	5-12-22	5-12-22	
Di-n-butylphthalate	ND	5.0	EPA 8270E	5-12-22	5-12-22	
Fluoranthene	ND	0.10	EPA 8270E/SIM	5-12-22	5-12-22	
Pyrene	ND	0.10	EPA 8270E/SIM	5-12-22	5-12-22	
Butylbenzylphthalate	ND	1.0	EPA 8270E	5-12-22	5-12-22	
bis-2-Ethylhexyladipate	ND	5.0	EPA 8270E	5-12-22	5-12-22	
3,3'-Dichlorobenzidine	ND	1.0	EPA 8270E	5-12-22	5-12-22	
Benzo[a]anthracene	ND	0.010	EPA 8270E/SIM	5-12-22	5-12-22	
Chrysene	ND	0.010	EPA 8270E/SIM	5-12-22	5-12-22	
bis(2-Ethylhexyl)phthalate	ND	5.0	EPA 8270E	5-12-22	5-12-22	
Di-n-octylphthalate	ND	1.0	EPA 8270E	5-12-22	5-12-22	
Benzo[b]fluoranthene	ND	0.010	EPA 8270E/SIM	5-12-22	5-12-22	
Benzo(j,k)fluoranthene	ND	0.010	EPA 8270E/SIM	5-12-22	5-12-22	
Benzo[a]pyrene	ND	0.010	EPA 8270E/SIM	5-12-22	5-12-22	
Indeno[1,2,3-cd]pyrene	ND	0.010	EPA 8270E/SIM	5-12-22	5-12-22	
Dibenz[a,h]anthracene	ND	0.010	EPA 8270E/SIM	5-12-22	5-12-22	
Benzo[g,h,i]perylene	ND	0.010	EPA 8270E/SIM	5-12-22	5-12-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
2-Fluorophenol	41	10 - 81				
Phenol-d6	30	10 - 86				
Nitrobenzene-d5	61	27 - 105				
2-Fluorobiphenyl	65	33 - 100				
2,4,6-Tribromophenol	82	25 - 124				
Terphenyl-d14	71	40 - 116				



Date of Report: May 23, 2022
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 Project: 6694-002-05 T700

**SEMIVOLATILE ORGANICS EPA 8270E/SIM
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L

Analyte	Result		Spike Level		Source	Percent		Recovery	RPD	RPD	Flags
					Result	Recovery	Limits		Limit		
MATRIX SPIKES											
Laboratory ID:	05-106-01										
	MS	MSD	MS	MSD		MS	MSD				
Phenol	114	116	160	160	22.5	57	58	20 - 114	2		36
2-Chlorophenol	117	115	160	160	ND	73	72	24 - 105	2		40
1,4-Dichlorobenzene	53.2	51.0	80.0	80.0	ND	67	64	23 - 100	4		48
n-Nitroso-di-n-propylamine	85.4	84.5	80.0	80.0	ND	107	106	20 - 136	1		38
1,2,4-Trichlorobenzene	56.7	54.6	80.0	80.0	ND	71	68	27 - 105	4		39
4-Chloro-3-methylphenol	114	116	160	160	ND	71	73	44 - 113	2		26
Acenaphthene	62.5	61.6	80.0	80.0	ND	78	77	35 - 105	1		25
4-Nitrophenol	112	124	160	160	ND	70	78	31 - 141	10		31
2,4-Dinitrotoluene	59.7	58.9	80.0	80.0	ND	75	74	44 - 106	1		30
Pentachlorophenol	166	166	160	160	ND	104	104	43 - 163	0		39
Pyrene	60.5	61.1	80.0	80.0	ND	76	76	39 - 113	1		27
<i>Surrogate:</i>											
<i>2-Fluorophenol</i>						53	53	10 - 81			
<i>Phenol-d6</i>						52	54	10 - 86			
<i>Nitrobenzene-d5</i>						65	63	27 - 105			
<i>2-Fluorobiphenyl</i>						74	70	33 - 100			
<i>2,4,6-Tribromophenol</i>						76	77	25 - 124			
<i>Terphenyl-d14</i>						70	69	40 - 116			



Date of Report: May 23, 2022
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 Laboratory Reference: 2205-084
 Project: 6694-002-05 T700

**PCBs EPA 8082A
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0510W1					
Aroclor 1016	ND	0.050	EPA 8082A	5-10-22	5-11-22	
Aroclor 1221	ND	0.050	EPA 8082A	5-10-22	5-11-22	
Aroclor 1232	ND	0.050	EPA 8082A	5-10-22	5-11-22	
Aroclor 1242	ND	0.050	EPA 8082A	5-10-22	5-11-22	
Aroclor 1248	ND	0.050	EPA 8082A	5-10-22	5-11-22	
Aroclor 1254	ND	0.050	EPA 8082A	5-10-22	5-11-22	
Aroclor 1260	ND	0.050	EPA 8082A	5-10-22	5-11-22	
Surrogate:	Percent Recovery	Control Limits				
DCB	98	49-133				

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS											
Laboratory ID:	SB0510W1										
	SB	SBD	SB	SBD		SB	SBD				
Aroclor 1260	0.470	0.501	0.500	0.500	N/A	94	100	67-120	6	15	
Surrogate:											
DCB						95	102	49-133			



Date of Report: May 23, 2022
 Samples Submitted: May 6, 2022
 Laboratory Reference: 2205-084
 Project: 6694-002-05 T700

**ORGANOCHLORINE
 PESTICIDES EPA 8081B
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0510W1					
alpha-BHC	ND	0.0050	EPA 8081B	5-10-22	5-12-22	
gamma-BHC (Lindane)	ND	0.0050	EPA 8081B	5-10-22	5-12-22	
beta-BHC	ND	0.0050	EPA 8081B	5-10-22	5-12-22	
delta-BHC	ND	0.0050	EPA 8081B	5-10-22	5-12-22	
Heptachlor	ND	0.0050	EPA 8081B	5-10-22	5-12-22	Y1
Aldrin	ND	0.0020	EPA 8081B	5-10-22	5-12-22	
Heptachlor Epoxide	ND	0.0030	EPA 8081B	5-10-22	5-12-22	
gamma-Chlordane	ND	0.0050	EPA 8081B	5-10-22	5-12-22	
alpha-Chlordane	ND	0.0050	EPA 8081B	5-10-22	5-12-22	
4,4'-DDE	ND	0.0050	EPA 8081B	5-10-22	5-12-22	
Endosulfan I	ND	0.0050	EPA 8081B	5-10-22	5-12-22	
Dieldrin	ND	0.0050	EPA 8081B	5-10-22	5-12-22	
Endrin	ND	0.0050	EPA 8081B	5-10-22	5-12-22	
4,4'-DDD	ND	0.0050	EPA 8081B	5-10-22	5-12-22	
Endosulfan II	ND	0.0050	EPA 8081B	5-10-22	5-12-22	
4,4'-DDT	ND	0.0050	EPA 8081B	5-10-22	5-12-22	Y1
Endrin Aldehyde	ND	0.0050	EPA 8081B	5-10-22	5-12-22	
Methoxychlor	ND	0.010	EPA 8081B	5-10-22	5-12-22	Y1
Endosulfan Sulfate	ND	0.0050	EPA 8081B	5-10-22	5-12-22	
Endrin Ketone	ND	0.020	EPA 8081B	5-10-22	5-12-22	Y1
Toxaphene	ND	0.050	EPA 8081B	5-10-22	5-12-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
TCMX	78	21-110				
DCB	94	42-113				



Date of Report: May 23, 2022
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**ORGANOCHLORINE
 PESTICIDES EPA 8081B
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result		Spike Level		Source	Percent		Recovery	RPD	RPD	Flags
					Result	Recovery	Limits		Limit		
SPIKE BLANKS											
Laboratory ID:	SB0510W2										
	SB	SBD	SB	SBD		SB	SBD				
alpha-BHC	0.0814	0.0764	0.100	0.100	N/A	81	76	50-113	6	19	
gamma-BHC (Lindane)	0.0839	0.0815	0.100	0.100	N/A	84	82	50-114	3	15	
beta-BHC	0.0798	0.0791	0.100	0.100	N/A	80	79	45-110	1	15	
delta-BHC	0.0847	0.0832	0.100	0.100	N/A	85	83	40-113	2	15	
Heptachlor	0.0661	0.0662	0.100	0.100	N/A	66	66	41-107	0	16	Y1
Aldrin	0.0587	0.0552	0.100	0.100	N/A	59	55	39-105	6	15	
Heptachlor Epoxide	0.0812	0.0825	0.100	0.100	N/A	81	82	53-106	2	15	
gamma-Chlordane	0.0702	0.0669	0.100	0.100	N/A	70	67	46-110	5	15	
alpha-Chlordane	0.0736	0.0697	0.100	0.100	N/A	74	70	46-110	5	15	
4,4'-DDE	0.0780	0.0747	0.100	0.100	N/A	78	75	39-129	4	15	
Endosulfan I	0.0721	0.0688	0.100	0.100	N/A	72	69	51-109	5	15	
Dieldrin	0.0856	0.0834	0.100	0.100	N/A	86	83	55-112	3	15	
Endrin	0.0908	0.0930	0.100	0.100	N/A	91	93	54-119	2	16	
4,4'-DDD	0.0805	0.0851	0.100	0.100	N/A	81	85	52-142	6	15	
Endosulfan II	0.0828	0.0815	0.100	0.100	N/A	83	81	49-115	2	15	
4,4'-DDT	0.0819	0.0893	0.100	0.100	N/A	82	89	52-136	9	15	Y1
Endrin Aldehyde	0.0836	0.0805	0.100	0.100	N/A	84	81	39-128	4	15	
Methoxychlor	0.0851	0.101	0.100	0.100	N/A	85	101	56-156	17	19	Y1
Endosulfan Sulfate	0.0837	0.0826	0.100	0.100	N/A	84	83	44-120	1	15	
Endrin Ketone	0.0873	0.0927	0.100	0.100	N/A	87	93	45-122	6	15	Y1
Surrogate:											
TCMX						54	57	21-110			
DCB						82	83	42-113			



Date of Report: May 23, 2022
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 Project: 6694-002-05 T700

TOTAL METALS
EPA 200.8/200.7/7470A
QUALITY CONTROL

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0509WH2					
Iron	ND	50	EPA 200.7	5-9-22	5-9-22	
Magnesium	ND	1000	EPA 200.7	5-9-22	5-9-22	
Manganese	ND	10	EPA 200.7	5-9-22	5-9-22	
Laboratory ID:	MB0511WM1					
Arsenic	ND	3.3	EPA 200.8	5-11-22	5-11-22	
Cadmium	ND	4.4	EPA 200.8	5-11-22	5-11-22	
Chromium	ND	11	EPA 200.8	5-11-22	5-11-22	
Copper	ND	11	EPA 200.8	5-11-22	5-11-22	
Lead	ND	1.1	EPA 200.8	5-11-22	5-11-22	
Nickel	ND	22	EPA 200.8	5-11-22	5-11-22	
Selenium	ND	5.6	EPA 200.8	5-11-22	5-11-22	
Zinc	ND	28	EPA 200.8	5-11-22	5-11-22	
Laboratory ID:	MB0512W1					
Mercury	ND	0.025	EPA 7470A	5-12-22	5-12-22	



Date of Report: May 23, 2022
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 Project: 6694-002-05 T700

TOTAL METALS
EPA 200.8/200.7/7470A
QUALITY CONTROL

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags		
DUPLICATE										
Laboratory ID:	05-065-01									
	ORIG	DUP								
Iron	2190	2090	NA	NA	NA	NA	5	20		
Magnesium	9910	9450	NA	NA	NA	NA	5	20		
Manganese	356	339	NA	NA	NA	NA	5	20		
Laboratory ID:	05-036-01									
Arsenic	ND	ND	NA	NA	NA	NA	NA	20		
Cadmium	ND	ND	NA	NA	NA	NA	NA	20		
Chromium	ND	ND	NA	NA	NA	NA	NA	20		
Copper	ND	ND	NA	NA	NA	NA	NA	20		
Lead	ND	ND	NA	NA	NA	NA	NA	20		
Nickel	ND	ND	NA	NA	NA	NA	NA	20		
Selenium	ND	ND	NA	NA	NA	NA	NA	20		
Zinc	ND	ND	NA	NA	NA	NA	NA	20		
Laboratory ID:	05-119-03									
Mercury	ND	ND	NA	NA	NA	NA	NA	20		
MATRIX SPIKES										
Laboratory ID:	05-065-01									
	MS	MSD	MS	MSD	MS	MSD				
Iron	21900	21400	20000	20000	2190	99	96	75-125	2	20
Magnesium	29400	29300	20000	20000	9910	98	97	75-125	0	20
Manganese	801	810	500	500	356	89	91	75-125	1	20
Laboratory ID:	05-036-01									
Arsenic	113	118	111	111	ND	102	107	75-125	4	20
Cadmium	106	110	111	111	ND	96	99	75-125	3	20
Chromium	104	110	111	111	ND	93	99	75-125	6	20
Copper	99.6	105	111	111	ND	90	95	75-125	5	20
Lead	105	111	111	111	ND	95	100	75-125	5	20
Nickel	99.1	106	111	111	ND	89	95	75-125	7	20
Selenium	114	119	111	111	ND	103	107	75-125	4	20
Zinc	110	115	111	111	ND	99	104	75-125	5	20
Laboratory ID:	05-119-03									
Mercury	6.23	6.23	6.25	6.25	ND	100	100	75-125	0	20



Date of Report: May 23, 2022
 Samples Submitted: May 6, 2022
 Laboratory Reference: 2205-084
 Project: 6694-002-05 T700

**DISSOLVED METALS
 EPA 200.8/200.7/7470A
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0510D1					
Calcium	ND	1100	EPA 200.7		5-10-22	
Iron	ND	56	EPA 200.7		5-10-22	
Magnesium	ND	1100	EPA 200.7		5-10-22	
Manganese	ND	11	EPA 200.7		5-10-22	
Potassium	ND	1100	EPA 200.7		5-10-22	
Sodium	ND	1100	EPA 200.7		5-10-22	
Laboratory ID:	MB0511D1					
Arsenic	ND	3.0	EPA 200.8		5-11-22	
Cadmium	ND	4.0	EPA 200.8		5-11-22	
Chromium	ND	10	EPA 200.8		5-11-22	
Copper	ND	10	EPA 200.8		5-11-22	
Lead	ND	1.0	EPA 200.8		5-11-22	
Nickel	ND	20	EPA 200.8		5-11-22	
Selenium	ND	5.0	EPA 200.8		5-11-22	
Zinc	ND	25	EPA 200.8		5-11-22	
Laboratory ID:	MB0512D1					
Mercury	ND	0.025	EPA 7470A		5-12-22	



Date of Report: May 23, 2022
 Samples Submitted: May 6, 2022
 Laboratory Reference: 2205-084
 Project: 6694-002-05 T700

DISSOLVED METALS
EPA 200.8/200.7/7470A
QUALITY CONTROL

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result		Spike Level		Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE										
Laboratory ID:	05-065-01									
	ORIG	DUP								
Calcium	17400	17800	NA	NA		NA	NA	2	20	
Iron	444	433	NA	NA		NA	NA	3	20	
Magnesium	8800	8900	NA	NA		NA	NA	1	20	
Manganese	312	314	NA	NA		NA	NA	1	20	
Potassium	2100	2100	NA	NA		NA	NA	0	20	
Sodium	5350	5250	NA	NA		NA	NA	2	20	
Laboratory ID:	05-036-01									
Arsenic	ND	ND	NA	NA		NA	NA	NA	20	
Cadmium	ND	ND	NA	NA		NA	NA	NA	20	
Chromium	ND	ND	NA	NA		NA	NA	NA	20	
Copper	ND	ND	NA	NA		NA	NA	NA	20	
Lead	ND	ND	NA	NA		NA	NA	NA	20	
Nickel	ND	ND	NA	NA		NA	NA	NA	20	
Selenium	ND	ND	NA	NA		NA	NA	NA	20	
Zinc	ND	ND	NA	NA		NA	NA	NA	20	
Laboratory ID:	05-065-01									
Mercury	ND	ND	NA	NA		NA	NA	NA	20	
MATRIX SPIKES										
Laboratory ID:	05-065-01									
	MS	MSD	MS	MSD	MS	MSD				
Calcium	40200	40400	22200	22200	17400	103	104	75-125	1	20
Iron	25300	25100	22200	22200	444	112	111	75-125	1	20
Magnesium	32600	32600	22200	22200	8800	107	107	75-125	0	20
Manganese	834	838	556	556	312	94	95	75-125	1	20
Potassium	27000	26900	22200	22200	2100	112	112	75-125	0	20
Sodium	30100	30300	22200	22200	5350	111	112	75-125	1	20
Laboratory ID:	05-036-01									
Arsenic	81.0	82.4	80.0	80.0	ND	101	103	75-125	2	20
Cadmium	74.2	75.4	80.0	80.0	ND	93	94	75-125	2	20
Chromium	75.4	77.2	80.0	80.0	ND	94	97	75-125	2	20
Copper	72.6	73.8	80.0	80.0	ND	91	92	75-125	2	20
Lead	74.8	76.2	80.0	80.0	ND	94	95	75-125	2	20
Nickel	73.2	74.2	80.0	80.0	ND	92	93	75-125	1	20
Selenium	82.2	81.6	80.0	80.0	ND	103	102	75-125	1	20
Zinc	74.6	78.0	80.0	80.0	ND	93	98	75-125	4	20
Laboratory ID:	05-065-01									
Mercury	6.28	6.25	6.25	6.25	ND	100	100	75-125	0	20



Date of Report: May 23, 2022
 Samples Submitted: May 6, 2022
 Laboratory Reference: 2205-084
 Project: 6694-002-05 T700

**TOTAL ALKALINITY
 SM 2320B
 QUALITY CONTROL**

Matrix: Water
 Units: mg CaCO₃/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0512W1					
Total Alkalinity	ND	2.0	SM 2320B	5-12-22	5-12-22	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	05-107-01							
	ORIG	DUP						
Total Alkalinity	20.0	22.0	NA	NA	NA	10	10	

SPIKE BLANK								
Laboratory ID:	SB0512W1							
	SB	SB		SB				
Total Alkalinity	98.0	100	NA	98	89-110	NA	NA	



Date of Report: May 23, 2022
 Samples Submitted: May 6, 2022
 Laboratory Reference: 2205-084
 Project: 6694-002-05 T700

**BICARBONATE
 SM 2320B
 QUALITY CONTROL**

Matrix: Water
 Units: mg CaCO₃/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0512W1					
Bicarbonate	ND	2.0	SM 2320B	5-12-22	5-12-22	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	05-107-01							
	ORIG	DUP						
Bicarbonate	20.0	22.0	NA	NA	NA	10	10	

SPIKE BLANK								
Laboratory ID:	SB0512W1							
	SB	SB		SB				
Bicarbonate	98.0	100	NA	98	89-110	NA	NA	



Date of Report: May 23, 2022
 Samples Submitted: May 6, 2022
 Laboratory Reference: 2205-084
 Project: 6694-002-05 T700

**TOTAL DISSOLVED SOLIDS
 SM 2540C
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0510W1					
Total Dissolved Solids	ND	13	SM 2540C	5-10-22	5-16-22	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	05-075-03							
	ORIG	DUP						
Total Dissolved Solids	109	119	NA	NA	NA	9	23	

SPIKE BLANK								
Laboratory ID:	SB0510W1							
	SB	SB		SB				
Total Dissolved Solids	481	500	NA	96	89-110	NA	NA	



Date of Report: May 23, 2022
 Samples Submitted: May 6, 2022
 Laboratory Reference: 2205-084
 Project: 6694-002-05 T700

**CHLORIDE
 SM 4500-Cl E
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0516W2					
Chloride	ND	2.0	SM 4500-Cl E	5-16-22	5-16-22	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	05-024-01							
	ORIG	DUP						
Chloride	3.88	4.28	NA	NA	NA	10	11	

MATRIX SPIKE								
Laboratory ID:	05-024-01							
	MS	MS		MS				
Chloride	54.8	50.0	3.88	102	90-121	NA	NA	

SPIKE BLANK								
Laboratory ID:	SB0516W2							
	SB	SB		SB				
Chloride	47.1	50.0	NA	94	90-119	NA	NA	



Date of Report: May 23, 2022
 Samples Submitted: May 6, 2022
 Laboratory Reference: 2205-084
 Project: 6694-002-05 T700

**NITRATE (as Nitrogen)
 EPA 353.2
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L-N

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0517W1					
Nitrate	ND	0.050	EPA 353.2	5-17-22	5-17-22	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	05-075-03							
	ORIG	DUP						
Nitrate	ND	ND	NA	NA	NA	NA	10	

MATRIX SPIKE								
Laboratory ID:	05-075-03							
	MS	MS		MS				
Nitrate	2.04	2.00	ND	102	88-125	NA	NA	

SPIKE BLANK								
Laboratory ID:	SB0517W1							
	SB	SB		SB				
Nitrate	2.11	2.00	NA	106	90-120	NA	NA	



Date of Report: May 23, 2022
 Samples Submitted: May 6, 2022
 Laboratory Reference: 2205-084
 Project: 6694-002-05 T700

**SULFATE
 ASTM D516-11
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0517W1					
Sulfate	ND	5.0	ASTM D516-11	5-17-22	5-17-22	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	05-075-03							
	ORIG	DUP						
Sulfate	12.6	12.8	NA	NA	NA	2	10	

MATRIX SPIKE								
Laboratory ID:	05-075-03							
	MS	MS		MS				
Sulfate	22.2	10.0	12.6	96	72-128	NA	NA	

SPIKE BLANK								
Laboratory ID:	SB0517W1							
	SB	SB		SB				
Sulfate	10.0	10.0	NA	100	85-114	NA	NA	



Date of Report: May 23, 2022
 Samples Submitted: May 6, 2022
 Laboratory Reference: 2205-084
 Project: 6694-002-05 T700

**AMMONIA (as Nitrogen)
 SM 4500-NH₃ D
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0516W1					
Ammonia	ND	0.050	SM 4500-NH ₃ D	5-16-22	5-16-22	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	05-024-01							
	ORIG	DUP						
Ammonia	0.101	0.0940	NA	NA	NA	7	15	

MATRIX SPIKE								
Laboratory ID:	05-024-01							
	MS	MS		MS				
Ammonia	4.73	5.00	0.101	93	87-110	NA	NA	

SPIKE BLANK								
Laboratory ID:	SB0516W1							
	SB	SB		SB				
Ammonia	4.57	5.00	NA	91	88-110	NA	NA	





Data Qualifiers and Abbreviations

- A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.
- B - The analyte indicated was also found in the blank sample.
- C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.
- E - The value reported exceeds the quantitation range and is an estimate.
- F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.
- H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.
- I - Compound recovery is outside of the control limits.
- J - The value reported was below the practical quantitation limit. The value is an estimate.
- K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.
- L - The RPD is outside of the control limits.
- M - Hydrocarbons in the gasoline range are impacting the diesel range result.
- M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.
- N - Hydrocarbons in the lube oil range are impacting the diesel range result.
- N1 - Hydrocarbons in diesel range are impacting lube oil range results.
- O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.
- P - The RPD of the detected concentrations between the two columns is greater than 40.
- Q - Surrogate recovery is outside of the control limits.
- S - Surrogate recovery data is not available due to the necessary dilution of the sample.
- T - The sample chromatogram is not similar to a typical _____.
- U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
- U1 - The practical quantitation limit is elevated due to interferences present in the sample.
- V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.
- W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.
- X - Sample extract treated with a mercury cleanup procedure.
- X1 - Sample extract treated with a sulfuric acid/silica gel cleanup procedure.
- Y - The calibration verification for this analyte exceeded the 20% drift specified in methods 8260 & 8270, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.

Z -

ND - Not Detected at PQL
 PQL - Practical Quantitation Limit
 RPD - Relative Percent Difference





OnSite Environmental Inc

David Baumeister
14648 NE 95th Street
Redmond, WA 98052

RE: 05-084

Work Order Number: 2205191

May 23, 2022

Attention David Baumeister:

Fremont Analytical, Inc. received 1 sample(s) on 5/9/2022 for the analyses presented in the following report.

Herbicides by EPA Method 8151A (GC/MS)

This report consists of the following:

- Case Narrative
- Analytical Results
- Applicable Quality Control Summary Reports
- Chain of Custody

All analyses were performed consistent with the Quality Assurance program of Fremont Analytical, Inc. Please contact the laboratory if you should have any questions about the results.

Thank you for using Fremont Analytical.

Sincerely,

Brianna Barnes
Project Manager

CLIENT: OnSite Environmental Inc
Project: 05-084
Work Order: 2205191

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received
2205191-001	MW-7-20220506	05/06/2022 12:30 PM	05/09/2022 1:06 PM

DRAFT

Note: If no "Time Collected" is supplied, a default of 12:00AM is assigned

CLIENT: OnSite Environmental Inc
Project: 05-084

I. SAMPLE RECEIPT:

Samples receipt information is recorded on the attached Sample Receipt Checklist.

II. GENERAL REPORTING COMMENTS:

Results are reported on a wet weight basis unless dry-weight correction is denoted in the units field on the analytical report ("mg/kg-dry" or "ug/kg-dry").

Matrix Spike (MS) and MS Duplicate (MSD) samples are tested from an analytical batch of "like" matrix to check for possible matrix effect. The MS and MSD will provide site specific matrix data only for those samples which are spiked by the laboratory. The sample chosen for spike purposes may or may not have been a sample submitted in this sample delivery group. The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The LCS and the MB are processed with the samples and the MS/MSD to ensure method criteria are achieved throughout the entire analytical process.

III. ANALYSES AND EXCEPTIONS:

Exceptions associated with this report will be footnoted in the analytical results page(s) or the quality control summary page(s) and/or noted below.

DRAFT

Qualifiers:

- * - Flagged value is not within established control limits
- B - Analyte detected in the associated Method Blank
- D - Dilution was required
- E - Value above quantitation range
- H - Holding times for preparation or analysis exceeded
- I - Analyte with an internal standard that does not meet established acceptance criteria
- J - Analyte detected below Reporting Limit
- N - Tentatively Identified Compound (TIC)
- Q - Analyte with an initial or continuing calibration that does not meet established acceptance criteria
- S - Spike recovery outside accepted recovery limits
- ND - Not detected at the Reporting Limit
- R - High relative percent difference observed

Acronyms:

- %Rec - Percent Recovery
- CCB - Continued Calibration Blank
- CCV - Continued Calibration Verification
- DF - Dilution Factor
- DUP - Sample Duplicate
- HEM - Hexane Extractable Material
- ICV - Initial Calibration Verification
- LCS/LCSD - Laboratory Control Sample / Laboratory Control Sample Duplicate
- MCL - Maximum Contaminant Level
- MB or MBLANK - Method Blank
- MDL - Method Detection Limit
- MS/MSD - Matrix Spike / Matrix Spike Duplicate
- PDS - Post Digestion Spike
- Ref Val - Reference Value
- REP - Sample Replicate
- RL - Reporting Limit
- RPD - Relative Percent Difference
- SD - Serial Dilution
- SGT - Silica Gel Treatment
- SPK - Spike
- Surr - Surrogate



Client: OnSite Environmental Inc
Project: 05-084
Lab ID: 2205191-001
Client Sample ID: MW-7-20220506

Collection Date: 5/6/2022 12:30:00 PM

Matrix: Water

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Herbicides by EPA Method 8151A (GC/MS)

Batch ID: 36438

Analyst: OK

Dicamba	ND	0.994		µg/L	1	5/20/2022 3:38:26 PM
2,4-D	ND	0.994		µg/L	1	5/20/2022 3:38:26 PM
2,4-DP	ND	0.994		µg/L	1	5/20/2022 3:38:26 PM
2,4,5-TP (Silvex)	ND	0.994		µg/L	1	5/20/2022 3:38:26 PM
2,4,5-T	ND	0.994		µg/L	1	5/20/2022 3:38:26 PM
Dinoseb	ND	0.994		µg/L	1	5/20/2022 3:38:26 PM
Dalapon	ND	1.99		µg/L	1	5/20/2022 3:38:26 PM
2,4-DB	ND	0.994		µg/L	1	5/20/2022 3:38:26 PM
MCPP	ND	4.97		µg/L	1	5/20/2022 3:38:26 PM
MCPA	ND	4.97		µg/L	1	5/20/2022 3:38:26 PM
Picloram	ND	0.994		µg/L	1	5/20/2022 3:38:26 PM
Bentazon	ND	0.994		µg/L	1	5/20/2022 3:38:26 PM
Chloramben	ND	0.994		µg/L	1	5/20/2022 3:38:26 PM
Acifluorfen	ND	4.97		µg/L	1	5/20/2022 3:38:26 PM
3,5-Dichlorobenzoic acid	ND	0.994		µg/L	1	5/20/2022 3:38:26 PM
4-Nitrophenol	ND	0.994		µg/L	1	5/20/2022 3:38:26 PM
Dacthal (DCPA)	ND	1.99		µg/L	1	5/20/2022 3:38:26 PM
Surr: 2,4-Dichlorophenylacetic acid	90.5	65.7 - 136		%Rec	1	5/20/2022 3:38:26 PM

Work Order: 2205191
 CLIENT: OnSite Environmental Inc
 Project: 05-084

QC SUMMARY REPORT
Herbicides by EPA Method 8151A (GC/MS)

Sample ID: MB-36438	SampType: MBLK	Units: µg/L	Prep Date: 5/13/2022	RunNo: 75608							
Client ID: MBLKW	Batch ID: 36438		Analysis Date: 5/20/2022	SeqNo: 1551348							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dicamba	ND	1.00									
2,4-D	ND	1.00									
2,4-DP	ND	1.00									
2,4,5-TP (Silvex)	ND	1.00									
2,4,5-T	ND	1.00									
Dinoseb	ND	1.00									
Dalapon	ND	2.00									
2,4-DB	ND	1.00									
MCPP	ND	5.00									
MCPA	ND	5.00									
Picloram	ND	1.00									
Bentazon	ND	1.00									
Chloramben	ND	1.00									
Acifluorfen	ND	5.00									
3,5-Dichlorobenzoic acid	ND	1.00									
4-Nitrophenol	ND	1.00									
Dacthal (DCPA)	ND	2.00									
Surr: 2,4-Dichlorophenylacetic acid	22.3		20.00		111	65.7	136				

Sample ID: LCS-36438	SampType: LCS	Units: µg/L	Prep Date: 5/13/2022	RunNo: 75608							
Client ID: LCSW	Batch ID: 36438		Analysis Date: 5/20/2022	SeqNo: 1551349							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dicamba	4.20	1.00	4.000	0	105	16.6	148				
2,4-D	5.44	1.00	4.000	0	136	50.4	150				
2,4-DP	4.72	1.00	4.000	0	118	53	135				
2,4,5-TP (Silvex)	5.18	1.00	4.000	0	130	53.6	140				
2,4,5-T	5.51	1.00	4.000	0	138	50	141				
Dinoseb	4.80	1.00	4.000	0	120	5	119				S
Dalapon	10.6	2.00	20.00	0	53.2	5.65	97.2				
2,4-DB	5.81	1.00	4.000	0	145	54.9	141				S

Work Order: 2205191
 CLIENT: OnSite Environmental Inc
 Project: 05-084

QC SUMMARY REPORT
Herbicides by EPA Method 8151A (GC/MS)

Sample ID: LCS-36438	SampType: LCS	Units: µg/L			Prep Date: 5/13/2022	RunNo: 75608					
Client ID: LCSW	Batch ID: 36438				Analysis Date: 5/20/2022	SeqNo: 1551349					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
MCPP	18.1	5.00	20.00	0	90.6	28.7	166				
MCPA	18.4	5.00	20.00	0	92.2	20.7	176				
Picloram	5.06	1.00	4.000	0	126	9.72	120				S
Bentazon	5.37	1.00	4.000	0	134	41.2	141				
Chloramben	4.07	1.00	4.000	0	102	5	109				
Acifluorfen	5.50	5.00	4.000	0	138	7.62	139				
3,5-Dichlorobenzoic acid	4.09	1.00	4.000	0	102	52.4	120				
4-Nitrophenol	2.56	1.00	4.000	0	64.0	5	107				
Dacthal (DCPA)	2.06	2.00	4.000	0	51.4	5	65.4				
Surr: 2,4-Dichlorophenylacetic acid	20.1		20.00		101	65.7	136				

NOTES:

S - Outlying spike recovery observed (high bias). Samples are non-detect; result meets QC requirements.

Sample ID: LCS-36438	SampType: LCS	Units: µg/L			Prep Date: 5/13/2022	RunNo: 75608					
Client ID: LCSW02	Batch ID: 36438				Analysis Date: 5/20/2022	SeqNo: 1551350					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dicamba	4.55	1.00	4.000	0	114	16.6	148	4.196	8.05	30	
2,4-D	5.94	1.00	4.000	0	148	50.4	150	5.443	8.66	30	
2,4-DP	5.16	1.00	4.000	0	129	53	135	4.720	8.87	30	
2,4,5-TP (Silvex)	5.62	1.00	4.000	0	141	53.6	140	5.182	8.16	30	S
2,4,5-T	5.99	1.00	4.000	0	150	50	141	5.506	8.44	30	S
Dinoseb	5.49	1.00	4.000	0	137	5	119	4.799	13.5	30	S
Dalapon	11.7	2.00	20.00	0	58.6	5.65	97.2	10.64	9.74	30	
2,4-DB	6.33	1.00	4.000	0	158	54.9	141	5.808	8.54	30	S
MCPP	19.3	5.00	20.00	0	96.6	28.7	166	18.12	6.39	30	
MCPA	19.8	5.00	20.00	0	99.0	20.7	176	18.44	7.10	30	
Picloram	5.25	1.00	4.000	0	131	9.72	120	5.057	3.74	30	S
Bentazon	5.75	1.00	4.000	0	144	41.2	141	5.372	6.74	30	S
Chloramben	3.99	1.00	4.000	0	99.8	5	109	4.073	2.02	30	
Acifluorfen	5.95	5.00	4.000	0	149	7.62	139	5.503	7.72	30	S
3,5-Dichlorobenzoic acid	4.45	1.00	4.000	0	111	52.4	120	4.092	8.27	30	

Work Order: 2205191
 CLIENT: OnSite Environmental Inc
 Project: 05-084

QC SUMMARY REPORT
Herbicides by EPA Method 8151A (GC/MS)

Sample ID: LCSD-36438	SampType: LCSD	Units: µg/L	Prep Date: 5/13/2022	RunNo: 75608							
Client ID: LCSW02	Batch ID: 36438		Analysis Date: 5/20/2022	SeqNo: 1551350							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
4-Nitrophenol	2.66	1.00	4.000	0	66.5	5	107	2.561	3.85	30	
Dacthal (DCPA)	2.36	2.00	4.000	0	58.9	5	65.4	2.057	13.6	30	
Surr: 2,4-Dichlorophenylacetic acid	21.6		20.00		108	65.7	136		0		

NOTES:

S - Outlying spike recovery observed (high bias). Samples are non-detect; result meets QC requirements.

Sample ID: 2205191-001AMS	SampType: MS	Units: µg/L	Prep Date: 5/13/2022	RunNo: 75608							
Client ID: MW-7-20220506	Batch ID: 36438		Analysis Date: 5/20/2022	SeqNo: 1551352							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dicamba	3.85	0.981	3.926	0	98.1	31	142				
2,4-D	5.04	0.981	3.926	0	128	50.3	149				
2,4-DP	4.37	0.981	3.926	0	111	49.9	143				
2,4,5-TP (Silvex)	4.81	0.981	3.926	0	122	47.7	141				
2,4,5-T	5.03	0.981	3.926	0	128	34.4	139				
Dinoseb	4.43	0.981	3.926	0	113	27.3	117				
Dalapon	9.26	1.96	19.63	0	47.2	14.2	113				
2,4-DB	5.28	0.981	3.926	0	134	31.3	147				
MCPD	16.9	4.91	19.63	0	86.2	30.5	177				
MCPA	17.2	4.91	19.63	0	87.6	36.8	163				
Picloram	4.24	0.981	3.926	0	108	18.8	115				
Bentazon	4.89	0.981	3.926	0	125	11.9	176				
Chloramben	3.28	0.981	3.926	0	83.7	5	112				
Acifluorfen	4.62	4.91	3.926	0	118	28.1	146				
3,5-Dichlorobenzoic acid	3.78	0.981	3.926	0	96.4	36.2	146				
4-Nitrophenol	3.77	0.981	3.926	0	96.0	5	116				
Dacthal (DCPA)	2.70	1.96	3.926	0	68.7	5	84.6				
Surr: 2,4-Dichlorophenylacetic acid	18.5		19.63		94.4	65.7	136				

Client Name: ONSITE

Work Order Number: 2205191

Logged by: Gabrielle Coeuille

Date Received: 5/9/2022 1:06:00 PM

Chain of Custody

1. Is Chain of Custody complete? Yes No Not Present
2. How was the sample delivered? Courier

Log In

3. Coolers are present? Yes No NA
4. Shipping container/cooler in good condition? Yes No
5. Custody Seals present on shipping container/cooler?
(Refer to comments for Custody Seals not intact) Yes No Not Present
6. Was an attempt made to cool the samples? Yes No NA
7. Were all items received at a temperature of >2°C to 6°C * Yes No NA
8. Sample(s) in proper container(s)? Yes No
9. Sufficient sample volume for indicated test(s)? Yes No
10. Are samples properly preserved? Yes No
11. Was preservative added to bottles? Yes No NA
12. Is there headspace in the VOA vials? Yes No NA
13. Did all samples containers arrive in good condition(unbroken)? Yes No
14. Does paperwork match bottle labels? Yes No
15. Are matrices correctly identified on Chain of Custody? Yes No
16. Is it clear what analyses were requested? Yes No
17. Were all holding times able to be met? Yes No

Special Handling (if applicable)

18. Was client notified of all discrepancies with this order? Yes No NA

Person Notified:	<input type="text"/>	Date:	<input type="text"/>
By Whom:	<input type="text"/>	Via:	<input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:	<input type="text"/>		
Client Instructions:	<input type="text"/>		

19. Additional remarks:

Item Information

Item #	Temp °C
Sample 1	5.7

* Note: DoD/ELAP and TNI require items to be received at 4°C +/- 2°C

2205191



14648 NE 95th Street, Redmond, WA 98052 · (425) 883-3881

Laboratory: Fremont Analytical

Attention: Chelsea Ward

3600 Fremont Avenue N, Seattle, WA 98103

Phone Number: (206) 352-3790

Turnaround Request

1 Day 2 Day 3 Day

Standard

Other:

Laboratory Reference #: 05-084

Project Manager: David Baumeister

email: dbaumeister@onsite-env.com

Project Number: 6694-002-05

Project Name:

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	# of Cont.	Requested Analyses
	MW-7-20220506	5/6/22	12:30	W	1	Chlorinated Acid Herbicides 8151

Signature	Company	Date	Time	Comments/Special Instructions
Relinquished by:	OSE	5/9/22	11:15	EDDs
Received by:	alpha	5/9/22	11:15	
Relinquished by:	alpha	5/9/22	13:04	
Received by:	FAT	5/9/22	13:06	
Relinquished by:				
Received by:				

Chain of Custody

Company: GEI

Project Number: 0694-002-05

Project Name: GO - East

Project Manager: Garrett Legue

Sampled by: Woodrow D. Stakestad

Turnaround Request (in working days)

(Check One)

Same Day 1 Day

2 Days 3 Days

Standard (7 Days)

_____ (other)

Laboratory Number: **05-084**

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	Analytical Parameters																				
						NWTPH-HCID	NWTPH-GX/BTEX (802) <input type="checkbox"/> 8260 <input type="checkbox"/>	NWTPH-GX	NWTPH-DX (Acid / SG Clean-up) <input type="checkbox"/>	Volatiles 8260	Halogenated Volatiles 8260	EDB EPA 8011 (Waters Only)	Semivolatiles 8270/SIM (with low-level PAHs)	PAHs 8270/SIM (low-level)	PCBs 8082	Organochlorine Pesticides 8081	Organophosphorus Pesticides 8270/SIM	Chlorinated Acid Herbicides 8151	Total RCRA Metals	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664	TDS	Total and Dissolved metals	Alkalinity & bicarbonate ion 2320B	Cu, K, Na, 200.7/100.8 Dissolved
1	MW-7-20220506	5/6/22	12:30pm	water	1617			X	X	X		X	X	X		X						X	X	X	X	X

Signature	Company	Date	Time	Comments/Special Instructions
	GEI	5/6/22	15:30	Please refer to Garrett for full list
	OSE	5/6/22	15:30	
Relinquished				Total and Dissolved metals = As, Cd, Cr, Cu, Fe, Pb, Mn, Hg, Ni, Se, Zn, Mg
Received				
Relinquished				Data Package: Standard <input type="checkbox"/> Level III <input type="checkbox"/> Level IV <input type="checkbox"/>
Received				
Reviewed/Date	Reviewed/Date	Chromatograms with final report <input type="checkbox"/> Electronic Data Deliverables (EDDs) <input type="checkbox"/>		



**OnSite
Environmental Inc.**

14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

June 3, 2022

Garrett Leque
GeoEngineers, Inc.
554 West Bakerview Road
Bellingham, WA 98226

Re: Analytical Data for Project 6694-002-05 T700
Laboratory Reference No. 2205-227

Dear Garrett:

Enclosed are the analytical results and associated quality control data for samples submitted on May 19, 2022.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

David Baumeister
Project Manager

Enclosures



Date of Report: June 3, 2022
Samples Submitted: May 19, 2022
Laboratory Reference: 2205-227
Project: 6694-002-05 T700

Case Narrative

Samples were collected on May 19, 2022 and received by the laboratory on May 19, 2022. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

Organochlorine Pesticides by EPA 8081B Analysis

The Aldrin RPD result (22%) was above the quality control limit of 15%. Due to the fact the sample was non-detect for this analyte and all other QC was within quality control limits, no further action was performed.

Alkalinity SM 2320B Analysis

The sample was analyzed out of holding time.

Bicarbonate SM 2320B Analysis

The sample was analyzed out of holding time.

Please note that any other QA/QC issues associated with these extractions and analyses will be indicated with a footnote reference and discussed in detail on the Data Qualifier page.



Date of Report: June 3, 2022
Samples Submitted: May 19, 2022
Laboratory Reference: 2205-227
Project: 6694-002-05 T700

ANALYTICAL REPORT FOR SAMPLES

Client ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
MW-5-220518	05-227-01	Water	5-18-22	5-19-22	

DRAFT



Date of Report: June 3, 2022
 Samples Submitted: May 19, 2022
 Laboratory Reference: 2205-227
 Project: 6694-002-05 T700

GASOLINE RANGE ORGANICS
NWTPH-Gx

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-5-220518					
Laboratory ID:	05-227-01					
Gasoline	ND	100	NWTPH-Gx	5-20-22	5-20-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
Fluorobenzene	92	65-122				



Date of Report: June 3, 2022
 Samples Submitted: May 19, 2022
 Laboratory Reference: 2205-227
 Project: 6694-002-05 T700

DIESEL AND HEAVY OIL RANGE ORGANICS
NWTPH-Dx

Matrix: Water
 Units: mg/L (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-5-220518					
Laboratory ID:	05-227-01					
Diesel Range Organics	ND	0.20	NWTPH-Dx	5-24-22	5-24-22	
Lube Oil Range Organics	ND	0.20	NWTPH-Dx	5-24-22	5-24-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	87	50-150				



Date of Report: June 3, 2022
 Samples Submitted: May 19, 2022
 Laboratory Reference: 2205-227
 Project: 6694-002-05 T700

VOLATILE ORGANICS EPA 8260D
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-5-220518					
Laboratory ID:	05-227-01					
Dichlorodifluoromethane	ND	0.20	EPA 8260D	5-20-22	5-20-22	
Chloromethane	ND	1.0	EPA 8260D	5-20-22	5-20-22	
Vinyl Chloride	ND	0.20	EPA 8260D	5-20-22	5-20-22	
Bromomethane	ND	0.30	EPA 8260D	5-20-22	5-20-22	
Chloroethane	ND	1.0	EPA 8260D	5-20-22	5-20-22	
Trichlorofluoromethane	ND	0.20	EPA 8260D	5-20-22	5-20-22	
1,1-Dichloroethene	ND	0.20	EPA 8260D	5-20-22	5-20-22	
Acetone	ND	5.0	EPA 8260D	5-20-22	5-20-22	
Iodomethane	ND	3.8	EPA 8260D	5-20-22	5-20-22	
Carbon Disulfide	ND	0.20	EPA 8260D	5-20-22	5-20-22	
Methylene Chloride	ND	1.0	EPA 8260D	5-20-22	5-20-22	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	5-20-22	5-20-22	
Methyl t-Butyl Ether	ND	0.20	EPA 8260D	5-20-22	5-20-22	
1,1-Dichloroethane	ND	0.20	EPA 8260D	5-20-22	5-20-22	
Vinyl Acetate	ND	1.0	EPA 8260D	5-20-22	5-20-22	
2,2-Dichloropropane	ND	0.20	EPA 8260D	5-20-22	5-20-22	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	5-20-22	5-20-22	
2-Butanone	ND	5.0	EPA 8260D	5-20-22	5-20-22	
Bromochloromethane	ND	0.20	EPA 8260D	5-20-22	5-20-22	
Chloroform	ND	0.20	EPA 8260D	5-20-22	5-20-22	
1,1,1-Trichloroethane	ND	0.20	EPA 8260D	5-20-22	5-20-22	
Carbon Tetrachloride	ND	0.20	EPA 8260D	5-20-22	5-20-22	
1,1-Dichloropropene	ND	0.20	EPA 8260D	5-20-22	5-20-22	
Benzene	ND	0.20	EPA 8260D	5-20-22	5-20-22	
1,2-Dichloroethane	ND	0.20	EPA 8260D	5-20-22	5-20-22	
Trichloroethene	ND	0.20	EPA 8260D	5-20-22	5-20-22	
1,2-Dichloropropane	ND	0.20	EPA 8260D	5-20-22	5-20-22	
Dibromomethane	ND	0.20	EPA 8260D	5-20-22	5-20-22	
Bromodichloromethane	ND	0.20	EPA 8260D	5-20-22	5-20-22	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260D	5-20-22	5-20-22	
Methyl Isobutyl Ketone	ND	2.0	EPA 8260D	5-20-22	5-20-22	
Toluene	ND	1.0	EPA 8260D	5-20-22	5-20-22	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260D	5-20-22	5-20-22	



Date of Report: June 3, 2022
 Samples Submitted: May 19, 2022
 Laboratory Reference: 2205-227
 Project: 6694-002-05 T700

VOLATILE ORGANICS EPA 8260D

page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-5-220518					
Laboratory ID:	05-227-01					
1,1,2-Trichloroethane	ND	0.20	EPA 8260D	5-20-22	5-20-22	
Tetrachloroethene	ND	0.20	EPA 8260D	5-20-22	5-20-22	
1,3-Dichloropropane	ND	0.20	EPA 8260D	5-20-22	5-20-22	
2-Hexanone	ND	2.0	EPA 8260D	5-20-22	5-20-22	
Dibromochloromethane	ND	0.20	EPA 8260D	5-20-22	5-20-22	
1,2-Dibromoethane	ND	0.20	EPA 8260D	5-20-22	5-20-22	
Chlorobenzene	ND	0.20	EPA 8260D	5-20-22	5-20-22	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260D	5-20-22	5-20-22	
Ethylbenzene	ND	0.20	EPA 8260D	5-20-22	5-20-22	
m,p-Xylene	ND	0.40	EPA 8260D	5-20-22	5-20-22	
o-Xylene	ND	0.20	EPA 8260D	5-20-22	5-20-22	
Styrene	ND	0.20	EPA 8260D	5-20-22	5-20-22	
Bromoform	ND	1.0	EPA 8260D	5-20-22	5-20-22	
Isopropylbenzene	ND	0.20	EPA 8260D	5-20-22	5-20-22	
Bromobenzene	ND	0.20	EPA 8260D	5-20-22	5-20-22	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260D	5-20-22	5-20-22	
1,2,3-Trichloropropane	ND	0.20	EPA 8260D	5-20-22	5-20-22	
n-Propylbenzene	ND	0.20	EPA 8260D	5-20-22	5-20-22	
2-Chlorotoluene	ND	0.20	EPA 8260D	5-20-22	5-20-22	
4-Chlorotoluene	ND	0.20	EPA 8260D	5-20-22	5-20-22	
1,3,5-Trimethylbenzene	ND	0.20	EPA 8260D	5-20-22	5-20-22	
tert-Butylbenzene	ND	0.20	EPA 8260D	5-20-22	5-20-22	
1,2,4-Trimethylbenzene	ND	0.20	EPA 8260D	5-20-22	5-20-22	
sec-Butylbenzene	ND	0.20	EPA 8260D	5-20-22	5-20-22	
1,3-Dichlorobenzene	ND	0.20	EPA 8260D	5-20-22	5-20-22	
p-Isopropyltoluene	ND	0.20	EPA 8260D	5-20-22	5-20-22	
1,4-Dichlorobenzene	ND	0.20	EPA 8260D	5-20-22	5-20-22	
1,2-Dichlorobenzene	ND	0.20	EPA 8260D	5-20-22	5-20-22	
n-Butylbenzene	ND	0.20	EPA 8260D	5-20-22	5-20-22	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260D	5-20-22	5-20-22	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260D	5-20-22	5-20-22	
Hexachlorobutadiene	ND	1.0	EPA 8260D	5-20-22	5-20-22	
Naphthalene	ND	1.0	EPA 8260D	5-20-22	5-20-22	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260D	5-20-22	5-20-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>100</i>	<i>75-127</i>				
<i>Toluene-d8</i>	<i>100</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>96</i>	<i>78-125</i>				



Date of Report: June 3, 2022
 Samples Submitted: May 19, 2022
 Laboratory Reference: 2205-227
 Project: 6694-002-05 T700

SEMIVOLATILE ORGANICS EPA 8270E/SIM
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-5-220518					
Laboratory ID:	05-227-01					
n-Nitrosodimethylamine	ND	0.96	EPA 8270E	5-23-22	5-23-22	
Pyridine	ND	0.96	EPA 8270E	5-23-22	5-23-22	
Phenol	ND	0.96	EPA 8270E	5-23-22	5-23-22	
Aniline	ND	4.8	EPA 8270E	5-23-22	5-23-22	
bis(2-Chloroethyl)ether	ND	0.96	EPA 8270E	5-23-22	5-23-22	
2-Chlorophenol	ND	0.96	EPA 8270E	5-23-22	5-23-22	
1,3-Dichlorobenzene	ND	0.96	EPA 8270E	5-23-22	5-23-22	
1,4-Dichlorobenzene	ND	0.96	EPA 8270E	5-23-22	5-23-22	
Benzyl alcohol	ND	0.96	EPA 8270E	5-23-22	5-23-22	
1,2-Dichlorobenzene	ND	0.96	EPA 8270E	5-23-22	5-23-22	
2-Methylphenol (o-Cresol)	ND	0.96	EPA 8270E	5-23-22	5-23-22	
bis(2-Chloroisopropyl)ether	ND	0.96	EPA 8270E	5-23-22	5-23-22	
(3+4)-Methylphenol (m,p-Cresol)	ND	0.96	EPA 8270E	5-23-22	5-23-22	
n-Nitroso-di-n-propylamine	ND	0.96	EPA 8270E	5-23-22	5-23-22	
Hexachloroethane	ND	0.96	EPA 8270E	5-23-22	5-23-22	
Nitrobenzene	ND	0.96	EPA 8270E	5-23-22	5-23-22	
Isophorone	ND	0.96	EPA 8270E	5-23-22	5-23-22	
2-Nitrophenol	ND	0.96	EPA 8270E	5-23-22	5-23-22	
2,4-Dimethylphenol	ND	0.96	EPA 8270E	5-23-22	5-23-22	
bis(2-Chloroethoxy)methane	ND	0.96	EPA 8270E	5-23-22	5-23-22	
2,4-Dichlorophenol	ND	0.96	EPA 8270E	5-23-22	5-23-22	
1,2,4-Trichlorobenzene	ND	0.96	EPA 8270E	5-23-22	5-23-22	
Naphthalene	ND	0.096	EPA 8270E/SIM	5-23-22	5-23-22	
4-Chloroaniline	ND	0.96	EPA 8270E	5-23-22	5-23-22	
Hexachlorobutadiene	ND	0.96	EPA 8270E	5-23-22	5-23-22	
4-Chloro-3-methylphenol	ND	0.96	EPA 8270E	5-23-22	5-23-22	
2-Methylnaphthalene	ND	0.096	EPA 8270E/SIM	5-23-22	5-23-22	
1-Methylnaphthalene	ND	0.096	EPA 8270E/SIM	5-23-22	5-23-22	
Hexachlorocyclopentadiene	ND	0.96	EPA 8270E	5-23-22	5-23-22	
2,4,6-Trichlorophenol	ND	0.96	EPA 8270E	5-23-22	5-23-22	
2,3-Dichloroaniline	ND	0.96	EPA 8270E	5-23-22	5-23-22	
2,4,5-Trichlorophenol	ND	0.96	EPA 8270E	5-23-22	5-23-22	
2-Chloronaphthalene	ND	0.96	EPA 8270E	5-23-22	5-23-22	
2-Nitroaniline	ND	0.96	EPA 8270E	5-23-22	5-23-22	
1,4-Dinitrobenzene	ND	0.96	EPA 8270E	5-23-22	5-23-22	
Dimethylphthalate	ND	4.8	EPA 8270E	5-23-22	5-23-22	
1,3-Dinitrobenzene	ND	0.96	EPA 8270E	5-23-22	5-23-22	
2,6-Dinitrotoluene	ND	0.96	EPA 8270E	5-23-22	5-23-22	
1,2-Dinitrobenzene	ND	0.96	EPA 8270E	5-23-22	5-23-22	
Acenaphthylene	ND	0.096	EPA 8270E/SIM	5-23-22	5-23-22	
3-Nitroaniline	ND	0.96	EPA 8270E	5-23-22	5-23-22	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-5-220518					
Laboratory ID:	05-227-01					
2,4-Dinitrophenol	ND	11	EPA 8270E	5-23-22	5-23-22	
Acenaphthene	ND	0.096	EPA 8270E/SIM	5-23-22	5-23-22	
4-Nitrophenol	ND	4.8	EPA 8270E	5-23-22	5-23-22	
2,4-Dinitrotoluene	ND	0.96	EPA 8270E	5-23-22	5-23-22	
Dibenzofuran	ND	0.96	EPA 8270E	5-23-22	5-23-22	
2,3,5,6-Tetrachlorophenol	ND	0.96	EPA 8270E	5-23-22	5-23-22	
2,3,4,6-Tetrachlorophenol	ND	0.96	EPA 8270E	5-23-22	5-23-22	
Diethylphthalate	ND	0.96	EPA 8270E	5-23-22	5-23-22	
4-Chlorophenyl-phenylether	ND	0.96	EPA 8270E	5-23-22	5-23-22	
4-Nitroaniline	ND	0.96	EPA 8270E	5-23-22	5-23-22	
Fluorene	ND	0.096	EPA 8270E/SIM	5-23-22	5-23-22	
4,6-Dinitro-2-methylphenol	ND	7.6	EPA 8270E	5-23-22	5-23-22	
n-Nitrosodiphenylamine	ND	0.96	EPA 8270E	5-23-22	5-23-22	
1,2-Diphenylhydrazine	ND	0.96	EPA 8270E	5-23-22	5-23-22	
4-Bromophenyl-phenylether	ND	0.96	EPA 8270E	5-23-22	5-23-22	
Hexachlorobenzene	ND	0.96	EPA 8270E	5-23-22	5-23-22	
Pentachlorophenol	ND	6.3	EPA 8270E	5-23-22	5-23-22	
Phenanthrene	ND	0.096	EPA 8270E/SIM	5-23-22	5-23-22	
Anthracene	ND	0.096	EPA 8270E/SIM	5-23-22	5-23-22	
Carbazole	ND	0.96	EPA 8270E	5-23-22	5-23-22	
Di-n-butylphthalate	ND	4.8	EPA 8270E	5-23-22	5-23-22	
Fluoranthene	ND	0.096	EPA 8270E/SIM	5-23-22	5-23-22	
Pyrene	ND	0.096	EPA 8270E/SIM	5-23-22	5-23-22	
Butylbenzylphthalate	ND	0.96	EPA 8270E	5-23-22	5-23-22	
bis-2-Ethylhexyladipate	ND	4.8	EPA 8270E	5-23-22	5-23-22	
3,3'-Dichlorobenzidine	ND	0.96	EPA 8270E	5-23-22	5-23-22	
Benzo[a]anthracene	ND	0.0096	EPA 8270E/SIM	5-23-22	5-23-22	
Chrysene	ND	0.0096	EPA 8270E/SIM	5-23-22	5-23-22	
bis(2-Ethylhexyl)phthalate	ND	9.6	EPA 8270E	5-23-22	5-23-22	
Di-n-octylphthalate	ND	0.96	EPA 8270E	5-23-22	5-23-22	
Benzo[b]fluoranthene	ND	0.0096	EPA 8270E/SIM	5-23-22	5-23-22	
Benzo(j,k)fluoranthene	ND	0.0096	EPA 8270E/SIM	5-23-22	5-23-22	
Benzo[a]pyrene	ND	0.0096	EPA 8270E/SIM	5-23-22	5-23-22	
Indeno[1,2,3-cd]pyrene	ND	0.0096	EPA 8270E/SIM	5-23-22	5-23-22	
Dibenz[a,h]anthracene	ND	0.0096	EPA 8270E/SIM	5-23-22	5-23-22	
Benzo[g,h,i]perylene	ND	0.0096	EPA 8270E/SIM	5-23-22	5-23-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
2-Fluorophenol	33	10 - 81				
Phenol-d6	23	10 - 86				
Nitrobenzene-d5	56	27 - 105				
2-Fluorobiphenyl	59	33 - 100				
2,4,6-Tribromophenol	69	25 - 124				
Terphenyl-d14	58	40 - 116				



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PCBs EPA 8082A

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-5-220518					
Laboratory ID:	05-227-01					
Aroclor 1016	ND	0.048	EPA 8082A	5-25-22	5-25-22	
Aroclor 1221	ND	0.048	EPA 8082A	5-25-22	5-25-22	
Aroclor 1232	ND	0.048	EPA 8082A	5-25-22	5-25-22	
Aroclor 1242	ND	0.048	EPA 8082A	5-25-22	5-25-22	
Aroclor 1248	ND	0.048	EPA 8082A	5-25-22	5-25-22	
Aroclor 1254	ND	0.048	EPA 8082A	5-25-22	5-25-22	
Aroclor 1260	ND	0.048	EPA 8082A	5-25-22	5-25-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
DCB	99	49-133				



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**ORGANOCHLORINE
 PESTICIDES EPA 8081B**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-5-220518					
Laboratory ID:	05-227-01					
alpha-BHC	ND	0.0048	EPA 8081B	5-25-22	5-25-22	
gamma-BHC (Lindane)	ND	0.0048	EPA 8081B	5-25-22	5-25-22	
beta-BHC	ND	0.0048	EPA 8081B	5-25-22	5-25-22	
delta-BHC	ND	0.0048	EPA 8081B	5-25-22	5-25-22	
Heptachlor	ND	0.0048	EPA 8081B	5-25-22	5-25-22	
Aldrin	ND	0.0019	EPA 8081B	5-25-22	5-25-22	
Heptachlor Epoxide	ND	0.0029	EPA 8081B	5-25-22	5-25-22	
gamma-Chlordane	ND	0.0048	EPA 8081B	5-25-22	5-25-22	
alpha-Chlordane	ND	0.0048	EPA 8081B	5-25-22	5-25-22	
4,4'-DDE	ND	0.0048	EPA 8081B	5-25-22	5-25-22	
Endosulfan I	ND	0.0048	EPA 8081B	5-25-22	5-25-22	
Dieldrin	ND	0.0048	EPA 8081B	5-25-22	5-25-22	
Endrin	ND	0.0048	EPA 8081B	5-25-22	5-25-22	
4,4'-DDD	ND	0.0048	EPA 8081B	5-25-22	5-25-22	
Endosulfan II	ND	0.0048	EPA 8081B	5-25-22	5-25-22	
4,4'-DDT	ND	0.0048	EPA 8081B	5-25-22	5-25-22	
Endrin Aldehyde	ND	0.0048	EPA 8081B	5-25-22	5-25-22	
Methoxychlor	ND	0.0097	EPA 8081B	5-25-22	5-25-22	
Endosulfan Sulfate	ND	0.0048	EPA 8081B	5-25-22	5-25-22	
Endrin Ketone	ND	0.019	EPA 8081B	5-25-22	5-25-22	
Toxaphene	ND	0.048	EPA 8081B	5-25-22	5-25-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
TCMX	51	21-110				
DCB	69	42-113				



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TOTAL METALS
EPA 200.8/200.7/7470A

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-5-220518					
Laboratory ID:	05-227-01					
Arsenic	7.8	3.3	EPA 200.8	5-24-22	5-24-22	
Cadmium	ND	4.4	EPA 200.8	5-24-22	5-24-22	
Chromium	ND	11	EPA 200.8	5-24-22	5-24-22	
Copper	ND	11	EPA 200.8	5-24-22	5-24-22	
Iron	600	50	EPA 200.7	5-20-22	5-20-22	
Lead	ND	1.1	EPA 200.8	5-24-22	5-24-22	
Magnesium	14000	1000	EPA 200.7	5-20-22	5-20-22	
Manganese	290	10	EPA 200.7	5-20-22	5-20-22	
Mercury	ND	0.025	EPA 7470A	5-23-22	5-23-22	
Nickel	ND	22	EPA 200.8	5-24-22	5-24-22	
Selenium	ND	5.6	EPA 200.8	5-24-22	5-24-22	
Zinc	ND	28	EPA 200.8	5-24-22	5-24-22	



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DISSOLVED METALS
EPA 200.8/200.7/7470A

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-5-220518					
Laboratory ID:	05-227-01					
Arsenic	5.7	3.0	EPA 200.8		5-24-22	
Cadmium	ND	4.0	EPA 200.8		5-24-22	
Calcium	27000	1100	EPA 200.7		5-20-22	
Chromium	ND	10	EPA 200.8		5-24-22	
Copper	ND	10	EPA 200.8		5-24-22	
Iron	ND	56	EPA 200.7		5-20-22	
Lead	ND	1.0	EPA 200.8		5-24-22	
Magnesium	16000	1100	EPA 200.7		5-20-22	
Manganese	300	11	EPA 200.7		5-20-22	
Mercury	ND	0.025	EPA 7470A		5-23-22	
Nickel	ND	20	EPA 200.8		5-24-22	
Potassium	2500	1100	EPA 200.7		5-20-22	
Selenium	ND	5.0	EPA 200.8		5-24-22	
Sodium	7200	1100	EPA 200.7		5-20-22	
Zinc	ND	25	EPA 200.8		5-24-22	



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TOTAL ALKALINITY
SM 2320B

Matrix: Water
Units: mg CaCO₃/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-5-220518					
Laboratory ID:	05-227-01					
Total Alkalinity	120	2.0	SM 2320B	6-2-22	6-2-22	



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**BICARBONATE
SM 2320B**

Matrix: Water
Units: mg CaCO₃/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-5-220518					
Laboratory ID:	05-227-01					
Bicarbonate	120	2.0	SM 2320B	6-2-22	6-2-22	



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**TOTAL DISSOLVED SOLIDS
 SM 2540C**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-5-220518					
Laboratory ID:	05-227-01					
Total Dissolved Solids	200	13	SM 2540C	5-24-22	5-31-22	



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CHLORIDE
SM 4500-Cl E

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-5-220518					
Laboratory ID:	05-227-01					
Chloride	6.9	2.0	SM 4500-Cl E	5-24-22	5-24-22	



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NITRATE (as Nitrogen)
EPA 353.2

Matrix: Water
Units: mg/L-N

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-5-220518					
Laboratory ID:	05-227-01					
Nitrate	ND	0.050	EPA 353.2	5-31-22	5-31-22	



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SULFATE
ASTM D516-11

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-5-220518					
Laboratory ID:	05-227-01					
Sulfate	14	5.0	ASTM D516-11	5-23-22	5-23-22	



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AMMONIA (as Nitrogen)
SM 4500-NH₃ D

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-5-220518					
Laboratory ID:	05-227-01					
Ammonia	ND	0.050	SM 4500-NH3 D	5-26-22	5-26-22	



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**GASOLINE RANGE ORGANICS
 NWTPH-Gx
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0520W1					
Gasoline	ND	100	NWTPH-Gx	5-20-22	5-20-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
Fluorobenzene	93	65-122				

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	05-227-01							
	ORIG	DUP						
Gasoline	ND	ND	NA	NA	NA	NA	30	
<i>Surrogate:</i>								
Fluorobenzene				92	92	65-122		



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**DIESEL AND HEAVY OIL RANGE ORGANICS
 NWTPH-Dx
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0524W1					
Diesel Range Organics	ND	0.16	NWTPH-Dx	5-24-22	5-24-22	
Lube Oil Range Organics	ND	0.16	NWTPH-Dx	5-24-22	5-24-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	77	50-150				

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	SB0524W1							
	ORIG	DUP						
Diesel Fuel #2	0.420	0.399	NA	NA	NA	NA	5	NA
<i>Surrogate:</i>								
<i>o-Terphenyl</i>				89	95	50-150		



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VOLATILE ORGANICS EPA 8260D
QUALITY CONTROL
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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0520W1					
Dichlorodifluoromethane	ND	0.20	EPA 8260D	5-20-22	5-20-22	
Chloromethane	ND	1.0	EPA 8260D	5-20-22	5-20-22	
Vinyl Chloride	ND	0.20	EPA 8260D	5-20-22	5-20-22	
Bromomethane	ND	0.30	EPA 8260D	5-20-22	5-20-22	
Chloroethane	ND	1.0	EPA 8260D	5-20-22	5-20-22	
Trichlorofluoromethane	ND	0.20	EPA 8260D	5-20-22	5-20-22	
1,1-Dichloroethene	ND	0.20	EPA 8260D	5-20-22	5-20-22	
Acetone	ND	5.0	EPA 8260D	5-20-22	5-20-22	
Iodomethane	ND	3.8	EPA 8260D	5-20-22	5-20-22	
Carbon Disulfide	ND	0.20	EPA 8260D	5-20-22	5-20-22	
Methylene Chloride	ND	1.0	EPA 8260D	5-20-22	5-20-22	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	5-20-22	5-20-22	
Methyl t-Butyl Ether	ND	0.20	EPA 8260D	5-20-22	5-20-22	
1,1-Dichloroethane	ND	0.20	EPA 8260D	5-20-22	5-20-22	
Vinyl Acetate	ND	1.0	EPA 8260D	5-20-22	5-20-22	
2,2-Dichloropropane	ND	0.20	EPA 8260D	5-20-22	5-20-22	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	5-20-22	5-20-22	
2-Butanone	ND	5.0	EPA 8260D	5-20-22	5-20-22	
Bromochloromethane	ND	0.20	EPA 8260D	5-20-22	5-20-22	
Chloroform	ND	0.20	EPA 8260D	5-20-22	5-20-22	
1,1,1-Trichloroethane	ND	0.20	EPA 8260D	5-20-22	5-20-22	
Carbon Tetrachloride	ND	0.20	EPA 8260D	5-20-22	5-20-22	
1,1-Dichloropropene	ND	0.20	EPA 8260D	5-20-22	5-20-22	
Benzene	ND	0.20	EPA 8260D	5-20-22	5-20-22	
1,2-Dichloroethane	ND	0.20	EPA 8260D	5-20-22	5-20-22	
Trichloroethene	ND	0.20	EPA 8260D	5-20-22	5-20-22	
1,2-Dichloropropane	ND	0.20	EPA 8260D	5-20-22	5-20-22	
Dibromomethane	ND	0.20	EPA 8260D	5-20-22	5-20-22	
Bromodichloromethane	ND	0.20	EPA 8260D	5-20-22	5-20-22	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260D	5-20-22	5-20-22	
Methyl Isobutyl Ketone	ND	2.0	EPA 8260D	5-20-22	5-20-22	
Toluene	ND	1.0	EPA 8260D	5-20-22	5-20-22	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260D	5-20-22	5-20-22	



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**VOLATILE ORGANICS EPA 8260D
 QUALITY CONTROL**

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0520W1					
1,1,2-Trichloroethane	ND	0.20	EPA 8260D	5-20-22	5-20-22	
Tetrachloroethene	ND	0.20	EPA 8260D	5-20-22	5-20-22	
1,3-Dichloropropane	ND	0.20	EPA 8260D	5-20-22	5-20-22	
2-Hexanone	ND	2.0	EPA 8260D	5-20-22	5-20-22	
Dibromochloromethane	ND	0.20	EPA 8260D	5-20-22	5-20-22	
1,2-Dibromoethane	ND	0.20	EPA 8260D	5-20-22	5-20-22	
Chlorobenzene	ND	0.20	EPA 8260D	5-20-22	5-20-22	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260D	5-20-22	5-20-22	
Ethylbenzene	ND	0.20	EPA 8260D	5-20-22	5-20-22	
m,p-Xylene	ND	0.40	EPA 8260D	5-20-22	5-20-22	
o-Xylene	ND	0.20	EPA 8260D	5-20-22	5-20-22	
Styrene	ND	0.20	EPA 8260D	5-20-22	5-20-22	
Bromoform	ND	1.0	EPA 8260D	5-20-22	5-20-22	
Isopropylbenzene	ND	0.20	EPA 8260D	5-20-22	5-20-22	
Bromobenzene	ND	0.20	EPA 8260D	5-20-22	5-20-22	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260D	5-20-22	5-20-22	
1,2,3-Trichloropropane	ND	0.20	EPA 8260D	5-20-22	5-20-22	
n-Propylbenzene	ND	0.20	EPA 8260D	5-20-22	5-20-22	
2-Chlorotoluene	ND	0.20	EPA 8260D	5-20-22	5-20-22	
4-Chlorotoluene	ND	0.20	EPA 8260D	5-20-22	5-20-22	
1,3,5-Trimethylbenzene	ND	0.20	EPA 8260D	5-20-22	5-20-22	
tert-Butylbenzene	ND	0.20	EPA 8260D	5-20-22	5-20-22	
1,2,4-Trimethylbenzene	ND	0.20	EPA 8260D	5-20-22	5-20-22	
sec-Butylbenzene	ND	0.20	EPA 8260D	5-20-22	5-20-22	
1,3-Dichlorobenzene	ND	0.20	EPA 8260D	5-20-22	5-20-22	
p-Isopropyltoluene	ND	0.20	EPA 8260D	5-20-22	5-20-22	
1,4-Dichlorobenzene	ND	0.20	EPA 8260D	5-20-22	5-20-22	
1,2-Dichlorobenzene	ND	0.20	EPA 8260D	5-20-22	5-20-22	
n-Butylbenzene	ND	0.20	EPA 8260D	5-20-22	5-20-22	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260D	5-20-22	5-20-22	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260D	5-20-22	5-20-22	
Hexachlorobutadiene	ND	1.0	EPA 8260D	5-20-22	5-20-22	
Naphthalene	ND	1.0	EPA 8260D	5-20-22	5-20-22	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260D	5-20-22	5-20-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>100</i>	<i>75-127</i>				
<i>Toluene-d8</i>	<i>101</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>97</i>	<i>78-125</i>				



Date of Report: June 3, 2022
 Samples Submitted: May 19, 2022
 Laboratory Reference: 2205-227
 Project: 6694-002-05 T700

**VOLATILE ORGANICS EPA 8260D
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD		Flags
					Recovery	Limits	RPD	Limit		
SPIKE BLANKS										
Laboratory ID:	SB0520W1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	10.8	10.9	10.0	10.0	108	109	78-125	1	19	
Benzene	10.6	10.7	10.0	10.0	106	107	80-121	1	16	
Trichloroethene	10.9	11.1	10.0	10.0	109	111	80-122	2	18	
Toluene	10.3	10.4	10.0	10.0	103	104	80-120	1	18	
Chlorobenzene	10.7	10.7	10.0	10.0	107	107	80-120	0	17	
<i>Surrogate:</i>										
Dibromofluoromethane					99	98	75-127			
Toluene-d8					103	102	80-127			
4-Bromofluorobenzene					103	103	78-125			



Date of Report: June 3, 2022
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**SEMIVOLATILE ORGANICS EPA 8270E/SIM
 QUALITY CONTROL**

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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0523W1					
n-Nitrosodimethylamine	ND	1.0	EPA 8270E	5-23-22	5-23-22	
Pyridine	ND	1.0	EPA 8270E	5-23-22	5-23-22	
Phenol	ND	1.0	EPA 8270E	5-23-22	5-23-22	
Aniline	ND	5.0	EPA 8270E	5-23-22	5-23-22	
bis(2-Chloroethyl)ether	ND	1.0	EPA 8270E	5-23-22	5-23-22	
2-Chlorophenol	ND	1.0	EPA 8270E	5-23-22	5-23-22	
1,3-Dichlorobenzene	ND	1.0	EPA 8270E	5-23-22	5-23-22	
1,4-Dichlorobenzene	ND	1.0	EPA 8270E	5-23-22	5-23-22	
Benzyl alcohol	ND	1.0	EPA 8270E	5-23-22	5-23-22	
1,2-Dichlorobenzene	ND	1.0	EPA 8270E	5-23-22	5-23-22	
2-Methylphenol (o-Cresol)	ND	1.0	EPA 8270E	5-23-22	5-23-22	
bis(2-Chloroisopropyl)ether	ND	1.0	EPA 8270E	5-23-22	5-23-22	
(3+4)-Methylphenol (m,p-Cresol)	ND	1.0	EPA 8270E	5-23-22	5-23-22	
n-Nitroso-di-n-propylamine	ND	1.0	EPA 8270E	5-23-22	5-23-22	
Hexachloroethane	ND	1.0	EPA 8270E	5-23-22	5-23-22	
Nitrobenzene	ND	1.0	EPA 8270E	5-23-22	5-23-22	
Isophorone	ND	1.0	EPA 8270E	5-23-22	5-23-22	
2-Nitrophenol	ND	1.0	EPA 8270E	5-23-22	5-23-22	
2,4-Dimethylphenol	ND	1.0	EPA 8270E	5-23-22	5-23-22	
bis(2-Chloroethoxy)methane	ND	1.0	EPA 8270E	5-23-22	5-23-22	
2,4-Dichlorophenol	ND	1.0	EPA 8270E	5-23-22	5-23-22	
1,2,4-Trichlorobenzene	ND	1.0	EPA 8270E	5-23-22	5-23-22	
Naphthalene	ND	0.10	EPA 8270E/SIM	5-23-22	5-23-22	
4-Chloroaniline	ND	1.0	EPA 8270E	5-23-22	5-23-22	
Hexachlorobutadiene	ND	1.0	EPA 8270E	5-23-22	5-23-22	
4-Chloro-3-methylphenol	ND	1.0	EPA 8270E	5-23-22	5-23-22	
2-Methylnaphthalene	ND	0.10	EPA 8270E/SIM	5-23-22	5-23-22	
1-Methylnaphthalene	ND	0.10	EPA 8270E/SIM	5-23-22	5-23-22	
Hexachlorocyclopentadiene	ND	1.0	EPA 8270E	5-23-22	5-23-22	
2,4,6-Trichlorophenol	ND	1.0	EPA 8270E	5-23-22	5-23-22	
2,3-Dichloroaniline	ND	1.0	EPA 8270E	5-23-22	5-23-22	
2,4,5-Trichlorophenol	ND	1.0	EPA 8270E	5-23-22	5-23-22	
2-Chloronaphthalene	ND	1.0	EPA 8270E	5-23-22	5-23-22	
2-Nitroaniline	ND	1.0	EPA 8270E	5-23-22	5-23-22	
1,4-Dinitrobenzene	ND	1.0	EPA 8270E	5-23-22	5-23-22	
Dimethylphthalate	ND	5.0	EPA 8270E	5-23-22	5-23-22	
1,3-Dinitrobenzene	ND	1.0	EPA 8270E	5-23-22	5-23-22	
2,6-Dinitrotoluene	ND	1.0	EPA 8270E	5-23-22	5-23-22	
1,2-Dinitrobenzene	ND	1.0	EPA 8270E	5-23-22	5-23-22	
Acenaphthylene	ND	0.10	EPA 8270E/SIM	5-23-22	5-23-22	
3-Nitroaniline	ND	1.0	EPA 8270E	5-23-22	5-23-22	



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**SEMIVOLATILE ORGANICS EPA 8270E/SIM
 QUALITY CONTROL**

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0523W1					
2,4-Dinitrophenol	ND	5.0	EPA 8270E	5-23-22	5-23-22	
Acenaphthene	ND	0.10	EPA 8270E/SIM	5-23-22	5-23-22	
4-Nitrophenol	ND	5.0	EPA 8270E	5-23-22	5-23-22	
2,4-Dinitrotoluene	ND	1.0	EPA 8270E	5-23-22	5-23-22	
Dibenzofuran	ND	1.0	EPA 8270E	5-23-22	5-23-22	
2,3,5,6-Tetrachlorophenol	ND	1.0	EPA 8270E	5-23-22	5-23-22	
2,3,4,6-Tetrachlorophenol	ND	1.0	EPA 8270E	5-23-22	5-23-22	
Diethylphthalate	ND	1.0	EPA 8270E	5-23-22	5-23-22	
4-Chlorophenyl-phenylether	ND	1.0	EPA 8270E	5-23-22	5-23-22	
4-Nitroaniline	ND	1.0	EPA 8270E	5-23-22	5-23-22	
Fluorene	ND	0.10	EPA 8270E/SIM	5-23-22	5-23-22	
4,6-Dinitro-2-methylphenol	ND	5.0	EPA 8270E	5-23-22	5-23-22	
n-Nitrosodiphenylamine	ND	1.0	EPA 8270E	5-23-22	5-23-22	
1,2-Diphenylhydrazine	ND	1.0	EPA 8270E	5-23-22	5-23-22	
4-Bromophenyl-phenylether	ND	1.0	EPA 8270E	5-23-22	5-23-22	
Hexachlorobenzene	ND	1.0	EPA 8270E	5-23-22	5-23-22	
Pentachlorophenol	ND	5.0	EPA 8270E	5-23-22	5-23-22	
Phenanthrene	ND	0.10	EPA 8270E/SIM	5-23-22	5-23-22	
Anthracene	ND	0.10	EPA 8270E/SIM	5-23-22	5-23-22	
Carbazole	ND	1.0	EPA 8270E	5-23-22	5-23-22	
Di-n-butylphthalate	ND	5.0	EPA 8270E	5-23-22	5-23-22	
Fluoranthene	ND	0.10	EPA 8270E/SIM	5-23-22	5-23-22	
Pyrene	ND	0.10	EPA 8270E/SIM	5-23-22	5-23-22	
Butylbenzylphthalate	ND	1.0	EPA 8270E	5-23-22	5-23-22	
bis-2-Ethylhexyladipate	ND	5.0	EPA 8270E	5-23-22	5-23-22	
3,3'-Dichlorobenzidine	ND	1.0	EPA 8270E	5-23-22	5-23-22	
Benzo[a]anthracene	ND	0.010	EPA 8270E/SIM	5-23-22	5-23-22	
Chrysene	ND	0.010	EPA 8270E/SIM	5-23-22	5-23-22	
bis(2-Ethylhexyl)phthalate	ND	10	EPA 8270E	5-23-22	5-23-22	
Di-n-octylphthalate	ND	1.0	EPA 8270E	5-23-22	5-23-22	
Benzo[b]fluoranthene	ND	0.010	EPA 8270E/SIM	5-23-22	5-23-22	
Benzo(j,k)fluoranthene	ND	0.010	EPA 8270E/SIM	5-23-22	5-23-22	
Benzo[a]pyrene	ND	0.010	EPA 8270E/SIM	5-23-22	5-23-22	
Indeno[1,2,3-cd]pyrene	ND	0.010	EPA 8270E/SIM	5-23-22	5-23-22	
Dibenz[a,h]anthracene	ND	0.010	EPA 8270E/SIM	5-23-22	5-23-22	
Benzo[g,h,i]perylene	ND	0.010	EPA 8270E/SIM	5-23-22	5-23-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
2-Fluorophenol	42	10 - 81				
Phenol-d6	30	10 - 86				
Nitrobenzene-d5	64	27 - 105				
2-Fluorobiphenyl	65	33 - 100				
2,4,6-Tribromophenol	79	25 - 124				
Terphenyl-d14	67	40 - 116				



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**SEMIVOLATILE ORGANICS EPA 8270E/SIM
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L

Analyte	Result		Spike Level		Source	Percent		Recovery	RPD	RPD	Flags
					Result	Recovery	Limits		Limit		
MATRIX SPIKES											
Laboratory ID:	05-242-01										
	MS	MSD	MS	MSD		MS	MSD				
Phenol	92.6	86.6	160	160	ND	58	54	20 - 114	7		36
2-Chlorophenol	113	103	160	160	ND	71	64	24 - 105	9		40
1,4-Dichlorobenzene	54.0	49.1	80.0	80.0	ND	68	61	23 - 100	10		48
n-Nitroso-di-n-propylamine	69.0	60.3	80.0	80.0	ND	86	75	20 - 136	13		38
1,2,4-Trichlorobenzene	59.7	54.4	80.0	80.0	ND	75	68	27 - 105	9		39
4-Chloro-3-methylphenol	124	121	160	160	ND	78	76	44 - 113	2		26
Acenaphthene	67.6	60.6	80.0	80.0	ND	85	76	35 - 105	11		25
4-Nitrophenol	126	119	160	160	ND	79	74	31 - 141	6		31
2,4-Dinitrotoluene	64.6	59.0	80.0	80.0	ND	81	74	44 - 106	9		30
Pentachlorophenol	170	156	160	160	ND	106	98	43 - 163	9		39
Pyrene	65.4	62.1	80.0	80.0	ND	82	78	39 - 113	5		27
<i>Surrogate:</i>											
2-Fluorophenol						49	45	10 - 81			
Phenol-d6						48	45	10 - 86			
Nitrobenzene-d5						71	63	27 - 105			
2-Fluorobiphenyl						78	69	33 - 100			
2,4,6-Tribromophenol						81	77	25 - 124			
Terphenyl-d14						74	71	40 - 116			



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 Project: 6694-002-05 T700

**PCBs EPA 8082A
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0525W1					
Aroclor 1016	ND	0.050	EPA 8082A	5-25-22	5-25-22	
Aroclor 1221	ND	0.050	EPA 8082A	5-25-22	5-25-22	
Aroclor 1232	ND	0.050	EPA 8082A	5-25-22	5-25-22	
Aroclor 1242	ND	0.050	EPA 8082A	5-25-22	5-25-22	
Aroclor 1248	ND	0.050	EPA 8082A	5-25-22	5-25-22	
Aroclor 1254	ND	0.050	EPA 8082A	5-25-22	5-25-22	
Aroclor 1260	ND	0.050	EPA 8082A	5-25-22	5-25-22	
Surrogate:	Percent Recovery	Control Limits				
DCB	114	49-133				

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS								
Laboratory ID:	SB0525W2							
	SB	SBD	SB	SBD	SB	SBD		
Aroclor 1260	0.479	0.458	0.500	0.500	N/A	96	92	67-120 4 15
Surrogate:								
DCB						122	114	49-133



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**ORGANOCHLORINE
 PESTICIDES EPA 8081B
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0525W1					
alpha-BHC	ND	0.0050	EPA 8081B	5-25-22	5-25-22	
gamma-BHC (Lindane)	ND	0.0050	EPA 8081B	5-25-22	5-25-22	
beta-BHC	ND	0.0050	EPA 8081B	5-25-22	5-25-22	
delta-BHC	ND	0.0050	EPA 8081B	5-25-22	5-25-22	
Heptachlor	ND	0.0050	EPA 8081B	5-25-22	5-25-22	
Aldrin	ND	0.0020	EPA 8081B	5-25-22	5-25-22	
Heptachlor Epoxide	ND	0.0030	EPA 8081B	5-25-22	5-25-22	
gamma-Chlordane	ND	0.0050	EPA 8081B	5-25-22	5-25-22	
alpha-Chlordane	ND	0.0050	EPA 8081B	5-25-22	5-25-22	
4,4'-DDE	ND	0.0050	EPA 8081B	5-25-22	5-25-22	
Endosulfan I	ND	0.0050	EPA 8081B	5-25-22	5-25-22	
Dieldrin	ND	0.0050	EPA 8081B	5-25-22	5-25-22	
Endrin	ND	0.0050	EPA 8081B	5-25-22	5-25-22	
4,4'-DDD	ND	0.0050	EPA 8081B	5-25-22	5-25-22	
Endosulfan II	ND	0.0050	EPA 8081B	5-25-22	5-25-22	
4,4'-DDT	ND	0.0050	EPA 8081B	5-25-22	5-25-22	
Endrin Aldehyde	ND	0.0050	EPA 8081B	5-25-22	5-25-22	
Methoxychlor	ND	0.010	EPA 8081B	5-25-22	5-25-22	
Endosulfan Sulfate	ND	0.0050	EPA 8081B	5-25-22	5-25-22	
Endrin Ketone	ND	0.020	EPA 8081B	5-25-22	5-25-22	
Toxaphene	ND	0.050	EPA 8081B	5-25-22	5-25-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
TCMX	51	21-110				
DCB	86	42-113				



Date of Report: June 3, 2022
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**ORGANOCHLORINE
 PESTICIDES EPA 8081B
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS											
Laboratory ID:	SB0525W1										
	SB	SBD	SB	SBD		SB	SBD				
alpha-BHC	0.0692	0.0677	0.100	0.100	N/A	69	68	50-113	2	19	
gamma-BHC (Lindane)	0.0791	0.0773	0.100	0.100	N/A	79	77	50-114	2	15	
beta-BHC	0.0745	0.0725	0.100	0.100	N/A	74	73	45-110	3	15	
delta-BHC	0.0819	0.0792	0.100	0.100	N/A	82	79	40-113	3	15	
Heptachlor	0.0698	0.0813	0.100	0.100	N/A	70	81	41-107	15	16	
Aldrin	0.0462	0.0576	0.100	0.100	N/A	46	58	39-105	22	15	L
Heptachlor Epoxide	0.0849	0.0824	0.100	0.100	N/A	85	82	53-106	3	15	
gamma-Chlordane	0.0779	0.0752	0.100	0.100	N/A	78	75	46-110	4	15	
alpha-Chlordane	0.0764	0.0758	0.100	0.100	N/A	76	76	46-110	1	15	
4,4'-DDE	0.0833	0.0811	0.100	0.100	N/A	83	81	39-129	3	15	
Endosulfan I	0.0859	0.0841	0.100	0.100	N/A	86	84	51-109	2	15	
Dieldrin	0.0934	0.0895	0.100	0.100	N/A	93	89	55-112	4	15	
Endrin	0.0972	0.0942	0.100	0.100	N/A	97	94	54-119	3	16	
4,4'-DDD	0.0943	0.0919	0.100	0.100	N/A	94	92	52-142	3	15	
Endosulfan II	0.0860	0.0813	0.100	0.100	N/A	86	81	49-115	6	15	
4,4'-DDT	0.0824	0.0870	0.100	0.100	N/A	82	87	52-136	5	15	
Endrin Aldehyde	0.0875	0.0821	0.100	0.100	N/A	87	82	39-128	6	15	
Methoxychlor	0.0882	0.0801	0.100	0.100	N/A	88	80	56-156	10	19	
Endosulfan Sulfate	0.0866	0.0829	0.100	0.100	N/A	87	83	44-120	4	15	
Endrin Ketone	0.101	0.0929	0.100	0.100	N/A	101	93	45-122	8	15	
Surrogate:											
TCMX						47	65	21-110			
DCB						80	79	42-113			



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TOTAL METALS
EPA 200.8/200.7/7470A
QUALITY CONTROL

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0520WH1					
Iron	ND	50	EPA 200.7	5-20-22	5-20-22	
Magnesium	ND	1000	EPA 200.7	5-20-22	5-20-22	
Manganese	ND	10	EPA 200.7	5-20-22	5-20-22	
Laboratory ID:	MB0524WM1					
Arsenic	ND	3.3	EPA 200.8	5-24-22	5-24-22	
Cadmium	ND	4.4	EPA 200.8	5-24-22	5-24-22	
Chromium	ND	11	EPA 200.8	5-24-22	5-24-22	
Copper	ND	11	EPA 200.8	5-24-22	5-24-22	
Lead	ND	1.1	EPA 200.8	5-24-22	5-24-22	
Nickel	ND	22	EPA 200.8	5-24-22	5-24-22	
Selenium	ND	5.6	EPA 200.8	5-24-22	5-24-22	
Zinc	ND	28	EPA 200.8	5-24-22	5-24-22	
Laboratory ID:	MB0523W1					
Mercury	ND	0.025	EPA 7470A	5-23-22	5-23-22	



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TOTAL METALS
EPA 200.8/200.7/7470A
QUALITY CONTROL

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags		
DUPLICATE										
Laboratory ID:	05-227-01									
	ORIG	DUP								
Iron	602	629	NA	NA	NA	NA	4	20		
Magnesium	14100	13200	NA	NA	NA	NA	7	20		
Manganese	287	276	NA	NA	NA	NA	4	20		
Laboratory ID:	05-223-01									
Arsenic	5.29	5.07	NA	NA	NA	NA	4	20		
Cadmium	ND	ND	NA	NA	NA	NA	NA	20		
Chromium	ND	ND	NA	NA	NA	NA	NA	20		
Copper	ND	ND	NA	NA	NA	NA	NA	20		
Lead	ND	ND	NA	NA	NA	NA	NA	20		
Nickel	ND	ND	NA	NA	NA	NA	NA	20		
Selenium	ND	ND	NA	NA	NA	NA	NA	20		
Zinc	ND	ND	NA	NA	NA	NA	NA	20		
Laboratory ID:	05-223-01									
Mercury	ND	ND	NA	NA	NA	NA	NA	20		
MATRIX SPIKES										
Laboratory ID:	05-227-01									
	MS	MSD	MS	MSD	MS	MSD				
Iron	20900	21100	20000	20000	602	101	102	75-125	1	20
Magnesium	31600	33100	20000	20000	14100	88	95	75-125	5	20
Manganese	721	809	500	500	287	87	104	75-125	12	20
Laboratory ID:	05-223-01									
Arsenic	117	119	111	111	5.29	101	103	75-125	2	20
Cadmium	108	107	111	111	ND	97	96	75-125	1	20
Chromium	107	106	111	111	ND	96	96	75-125	1	20
Copper	102	101	111	111	ND	92	91	75-125	1	20
Lead	101	99.6	111	111	ND	91	90	75-125	2	20
Nickel	104	103	111	111	ND	94	93	75-125	1	20
Selenium	111	111	111	111	ND	100	100	75-125	0	20
Zinc	111	113	111	111	ND	100	102	75-125	2	20
Laboratory ID:	05-223-01									
Mercury	5.65	5.63	6.25	6.25	ND	90	90	75-125	0	20



Date of Report: June 3, 2022
 Samples Submitted: May 19, 2022
 Laboratory Reference: 2205-227
 Project: 6694-002-05 T700

**DISSOLVED METALS
 EPA 200.8/200.7/7470A
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0520D1					
Calcium	ND	1100	EPA 200.7		5-20-22	
Iron	ND	56	EPA 200.7		5-20-22	
Magnesium	ND	1100	EPA 200.7		5-20-22	
Manganese	ND	11	EPA 200.7		5-20-22	
Potassium	ND	1100	EPA 200.7		5-20-22	
Sodium	ND	1100	EPA 200.7		5-20-22	
Laboratory ID:	MB0524D1					
Arsenic	ND	3.0	EPA 200.8		5-24-22	
Cadmium	ND	4.0	EPA 200.8		5-24-22	
Chromium	ND	10	EPA 200.8		5-24-22	
Copper	ND	10	EPA 200.8		5-24-22	
Lead	ND	1.0	EPA 200.8		5-24-22	
Nickel	ND	20	EPA 200.8		5-24-22	
Selenium	ND	5.0	EPA 200.8		5-24-22	
Zinc	ND	25	EPA 200.8		5-24-22	
Laboratory ID:	MB0523D1					
Mercury	ND	0.025	EPA 7470A		5-23-22	



Date of Report: June 3, 2022
 Samples Submitted: May 19, 2022
 Laboratory Reference: 2205-227
 Project: 6694-002-05 T700

**DISSOLVED METALS
 EPA 200.8/200.7/7470A
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result		Spike Level		Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE										
Laboratory ID:	05-235-04									
	ORIG	DUP								
Calcium	25200	24900	NA	NA		NA	NA	1	20	
Iron	ND	ND	NA	NA		NA	NA	NA	20	
Magnesium	16100	16100	NA	NA		NA	NA	0	20	
Manganese	14.9	14.1	NA	NA		NA	NA	5	20	
Potassium	1630	1730	NA	NA		NA	NA	6	20	
Sodium	11800	11700	NA	NA		NA	NA	1	20	
Laboratory ID:	05-223-02									
Arsenic	ND	ND	NA	NA		NA	NA	NA	20	
Cadmium	ND	ND	NA	NA		NA	NA	NA	20	
Chromium	ND	ND	NA	NA		NA	NA	NA	20	
Copper	ND	ND	NA	NA		NA	NA	NA	20	
Lead	ND	ND	NA	NA		NA	NA	NA	20	
Nickel	ND	ND	NA	NA		NA	NA	NA	20	
Selenium	ND	ND	NA	NA		NA	NA	NA	20	
Zinc	ND	ND	NA	NA		NA	NA	NA	20	
Laboratory ID:	05-223-01									
Mercury	ND	ND	NA	NA		NA	NA	NA	20	
MATRIX SPIKES										
Laboratory ID:	05-235-04									
	MS	MSD	MS	MSD		MS	MSD			
Calcium	44300	44100	22200	22200	25200	86	85	75-125	1	20
Iron	21000	20900	22200	22200	ND	95	94	75-125	1	20
Magnesium	37100	36300	22200	22200	16100	95	91	75-125	2	20
Manganese	582	568	556	556	14.9	102	100	75-125	2	20
Potassium	24000	23900	22200	22200	1630	101	100	75-125	0	20
Sodium	32000	32000	22200	22200	11800	91	91	75-125	0	20
Laboratory ID:	05-223-02									
Arsenic	90.6	88.4	80.0	80.0	ND	113	111	75-125	2	20
Cadmium	79.2	79.2	80.0	80.0	ND	99	99	75-125	0	20
Chromium	73.2	71.8	80.0	80.0	ND	92	90	75-125	2	20
Copper	78.8	78.0	80.0	80.0	ND	99	98	75-125	1	20
Lead	76.4	75.0	80.0	80.0	ND	96	94	75-125	2	20
Nickel	79.0	76.8	80.0	80.0	ND	99	96	75-125	3	20
Selenium	87.6	85.2	80.0	80.0	ND	110	107	75-125	3	20
Zinc	82.8	80.4	80.0	80.0	ND	104	101	75-125	3	20
Laboratory ID:	05-223-01									
Mercury	5.80	5.88	6.25	6.25	ND	93	94	75-125	1	20



Date of Report: June 3, 2022
 Samples Submitted: May 19, 2022
 Laboratory Reference: 2205-227
 Project: 6694-002-05 T700

**TOTAL ALKALINITY
 SM 2320B
 QUALITY CONTROL**

Matrix: Water
 Units: mg CaCO₃/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0602W1					
Total Alkalinity	ND	2.0	SM 2320B	6-2-22	6-2-22	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	05-227-01							
	ORIG	DUP						
Total Alkalinity	122	122	NA	NA	NA	0	10	

SPIKE BLANK								
Laboratory ID:	SB0602W1							
	SB	SB		SB				
Total Alkalinity	94.0	100	NA	94	89-110	NA	NA	



Date of Report: June 3, 2022
 Samples Submitted: May 19, 2022
 Laboratory Reference: 2205-227
 Project: 6694-002-05 T700

**BICARBONATE
 SM 2320B
 QUALITY CONTROL**

Matrix: Water
 Units: mg CaCO₃/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0602W1					
Bicarbonate	1.0	2.0	SM 2320B	6-2-22	6-2-22	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	05-227-01							
	ORIG	DUP						
Bicarbonate	122	122	NA	NA	NA	0	10	

SPIKE BLANK								
Laboratory ID:	SB0602W1							
	SB	SB		SB				
Bicarbonate	94.0	100	NA	94	89-110	NA	NA	



Date of Report: June 3, 2022
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 Laboratory Reference: 2205-227
 Project: 6694-002-05 T700

**TOTAL DISSOLVED SOLIDS
 SM 2540C
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0524W1					
Total Dissolved Solids	ND	13	SM 2540C	5-24-22	5-31-22	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	05-229-01							
	ORIG	DUP						
Total Dissolved Solids	304	304	NA	NA	NA	0	23	

SPIKE BLANK								
Laboratory ID:	SB0524W1							
	SB	SB		SB				
Total Dissolved Solids	472	500	NA	94	89-110	NA	NA	



Date of Report: June 3, 2022
 Samples Submitted: May 19, 2022
 Laboratory Reference: 2205-227
 Project: 6694-002-05 T700

**CHLORIDE
 SM 4500-Cl E
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0524W1					
Chloride	ND	2.0	SM 4500-Cl E	5-24-22	5-24-22	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	05-227-01							
	ORIG	DUP						
Chloride	6.94	7.11	NA	NA	NA	2	11	

MATRIX SPIKE								
Laboratory ID:	05-227-01							
	MS	MS		MS				
Chloride	57.3	50.0	6.94	101	90-121	NA	NA	

SPIKE BLANK								
Laboratory ID:	SB0524W1							
	SB	SB		SB				
Chloride	52.1	50.0	NA	104	90-119	NA	NA	



Date of Report: June 3, 2022
 Samples Submitted: May 19, 2022
 Laboratory Reference: 2205-227
 Project: 6694-002-05 T700

**NITRATE (as Nitrogen)
 EPA 353.2
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L-N

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0531W1					
Nitrate	ND	0.050	EPA 353.2	5-31-22	5-31-22	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	05-227-01							
	ORIG	DUP						
Nitrate	ND	ND	NA	NA	NA	NA	10	

MATRIX SPIKE								
Laboratory ID:	05-227-01							
	MS	MS		MS				
Nitrate	2.03	2.00	ND	102	88-125	NA	NA	

SPIKE BLANK								
Laboratory ID:	SB0531W1							
	SB	SB		SB				
Nitrate	1.96	2.00	NA	98	90-120	NA	NA	



Date of Report: June 3, 2022
 Samples Submitted: May 19, 2022
 Laboratory Reference: 2205-227
 Project: 6694-002-05 T700

**SULFATE
 ASTM D516-11
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0523W1					
Sulfate	ND	5.0	ASTM D516-11	5-23-22	5-23-22	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	05-235-04							
	ORIG	DUP						
Sulfate	16.5	16.7	NA	NA	NA	1	10	

SPIKE BLANK								
Laboratory ID:	SB0523W1							
	SB	SB		SB				
Sulfate	10.0	10.0	NA	100	85-114	NA	NA	

MATRIX SPIKE								
Laboratory ID:	05-235-04							
	MS	MS		MS				
Sulfate	36.3	20.0	16.5	99	72-128	NA	NA	



Date of Report: June 3, 2022
 Samples Submitted: May 19, 2022
 Laboratory Reference: 2205-227
 Project: 6694-002-05 T700

**AMMONIA (as Nitrogen)
 SM 4500-NH₃ D
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0526W1					
Ammonia	ND	0.050	SM 4500-NH ₃ D	5-26-22	5-26-22	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	05-227-01							
	ORIG	DUP						
Ammonia	ND	ND	NA	NA	NA	NA	15	

MATRIX SPIKE								
Laboratory ID:	05-227-01							
	MS	MS		MS				
Ammonia	4.69	5.00	ND	94	87-110	NA	NA	

SPIKE BLANK								
Laboratory ID:	SB0526W1							
	SB	SB		SB				
Ammonia	4.65	5.00	NA	93	88-110	NA	NA	





Data Qualifiers and Abbreviations

- A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.
- B - The analyte indicated was also found in the blank sample.
- C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.
- E - The value reported exceeds the quantitation range and is an estimate.
- F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.
- H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.
- I - Compound recovery is outside of the control limits.
- J - The value reported was below the practical quantitation limit. The value is an estimate.
- K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.
- L - The RPD is outside of the control limits.
- M - Hydrocarbons in the gasoline range are impacting the diesel range result.
- M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.
- N - Hydrocarbons in the lube oil range are impacting the diesel range result.
- N1 - Hydrocarbons in diesel range are impacting lube oil range results.
- O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.
- P - The RPD of the detected concentrations between the two columns is greater than 40.
- Q - Surrogate recovery is outside of the control limits.
- S - Surrogate recovery data is not available due to the necessary dilution of the sample.
- T - The sample chromatogram is not similar to a typical _____.
- U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
- U1 - The practical quantitation limit is elevated due to interferences present in the sample.
- V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.
- W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.
- X - Sample extract treated with a mercury cleanup procedure.
- X1 - Sample extract treated with a sulfuric acid/silica gel cleanup procedure.
- Y - The calibration verification for this analyte exceeded the 20% drift specified in methods 8260 & 8270, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.

Z -

ND - Not Detected at PQL
 PQL - Practical Quantitation Limit
 RPD - Relative Percent Difference





OnSite Environmental Inc

David Baumeister
14648 NE 95th Street
Redmond, WA 98052

RE: 05-227

Work Order Number: 2205409

Attention David Baumeister:

Fremont Analytical, Inc. received 1 sample(s) on 5/20/2022 for the analyses presented in the following report.

Herbicides by EPA Method 8151A (GC/MS)

This report consists of the following:

- Case Narrative
- Analytical Results
- Applicable Quality Control Summary Reports
- Chain of Custody

All analyses were performed consistent with the Quality Assurance program of Fremont Analytical, Inc. Please contact the laboratory if you should have any questions about the results.

Thank you for using Fremont Analytical.

Sincerely,

Brianna Barnes
Project Manager



CLIENT: OnSite Environmental Inc
Project: 05-227
Work Order: 2205409

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received
2205409-001	MW-5-220518	05/18/2022 2:30 PM	05/20/2022 12:09 PM

DRAFT

Note: If no "Time Collected" is supplied, a default of 12:00AM is assigned

CLIENT: OnSite Environmental Inc

Project: 05-227

I. SAMPLE RECEIPT:

Samples receipt information is recorded on the attached Sample Receipt Checklist.

II. GENERAL REPORTING COMMENTS:

Results are reported on a wet weight basis unless dry-weight correction is denoted in the units field on the analytical report ("mg/kg-dry" or "ug/kg-dry").

Matrix Spike (MS) and MS Duplicate (MSD) samples are tested from an analytical batch of "like" matrix to check for possible matrix effect. The MS and MSD will provide site specific matrix data only for those samples which are spiked by the laboratory. The sample chosen for spike purposes may or may not have been a sample submitted in this sample delivery group. The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The LCS and the MB are processed with the samples and the MS/MSD to ensure method criteria are achieved throughout the entire analytical process.

III. ANALYSES AND EXCEPTIONS:

Exceptions associated with this report will be footnoted in the analytical results page(s) or the quality control summary page(s) and/or noted below.

DRAFT

Qualifiers:

- * - Flagged value is not within established control limits
- B - Analyte detected in the associated Method Blank
- D - Dilution was required
- E - Value above quantitation range
- H - Holding times for preparation or analysis exceeded
- I - Analyte with an internal standard that does not meet established acceptance criteria
- J - Analyte detected below Reporting Limit
- N - Tentatively Identified Compound (TIC)
- Q - Analyte with an initial or continuing calibration that does not meet established acceptance criteria
- S - Spike recovery outside accepted recovery limits
- ND - Not detected at the Reporting Limit
- R - High relative percent difference observed

Acronyms:

- %Rec - Percent Recovery
- CCB - Continued Calibration Blank
- CCV - Continued Calibration Verification
- DF - Dilution Factor
- DUP - Sample Duplicate
- HEM - Hexane Extractable Material
- ICV - Initial Calibration Verification
- LCS/LCSD - Laboratory Control Sample / Laboratory Control Sample Duplicate
- MCL - Maximum Contaminant Level
- MB or MBLANK - Method Blank
- MDL - Method Detection Limit
- MS/MSD - Matrix Spike / Matrix Spike Duplicate
- PDS - Post Digestion Spike
- Ref Val - Reference Value
- REP - Sample Replicate
- RL - Reporting Limit
- RPD - Relative Percent Difference
- SD - Serial Dilution
- SGT - Silica Gel Treatment
- SPK - Spike
- Surr - Surrogate



Client: OnSite Environmental Inc

Collection Date: 5/18/2022 2:30:00 PM

Project: 05-227

Lab ID: 2205409-001

Matrix: Water

Client Sample ID: MW-5-220518

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Herbicides by EPA Method 8151A (GC/MS)

Batch ID: 36570

Analyst: OK

Dicamba	ND	0.995		µg/L	1	5/27/2022 6:00:04 PM
2,4-D	ND	0.995		µg/L	1	5/27/2022 6:00:04 PM
2,4-DP	ND	0.995		µg/L	1	5/27/2022 6:00:04 PM
2,4,5-TP (Silvex)	ND	0.995		µg/L	1	5/27/2022 6:00:04 PM
2,4,5-T	ND	0.995		µg/L	1	5/27/2022 6:00:04 PM
Dinoseb	ND	0.995		µg/L	1	5/27/2022 6:00:04 PM
Dalapon	ND	1.99	Q	µg/L	1	5/27/2022 6:00:04 PM
2,4-DB	ND	0.995		µg/L	1	5/27/2022 6:00:04 PM
MCPP	ND	4.97		µg/L	1	5/27/2022 6:00:04 PM
MCPA	ND	4.97		µg/L	1	5/27/2022 6:00:04 PM
Picloram	ND	0.995		µg/L	1	5/27/2022 6:00:04 PM
Bentazon	ND	0.995		µg/L	1	5/27/2022 6:00:04 PM
Chloramben	ND	0.995		µg/L	1	5/27/2022 6:00:04 PM
Acifluorfen	ND	4.97		µg/L	1	5/27/2022 6:00:04 PM
3,5-Dichlorobenzoic acid	ND	0.995		µg/L	1	5/27/2022 6:00:04 PM
4-Nitrophenol	ND	0.995		µg/L	1	5/27/2022 6:00:04 PM
Dacthal (DCPA)	ND	1.99		µg/L	1	5/27/2022 6:00:04 PM
Surr: 2,4-Dichlorophenylacetic acid	84.5	65.7 - 136		%Rec	1	5/27/2022 6:00:04 PM

NOTES:

Q - Associated calibration verification is below acceptance criteria. Result may be low-biased.

Work Order: 2205409
 CLIENT: OnSite Environmental Inc
 Project: 05-227

QC SUMMARY REPORT
Herbicides by EPA Method 8151A (GC/MS)

Sample ID: MB-36570	SampType: MBLK	Units: µg/L	Prep Date: 5/24/2022	RunNo: 75778							
Client ID: MBLKW	Batch ID: 36570		Analysis Date: 5/27/2022	SeqNo: 1554615							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Dicamba	ND	0.992									
2,4-D	ND	0.992									
2,4-DP	ND	0.992									
2,4,5-TP (Silvex)	ND	0.992									
2,4,5-T	ND	0.992									
Dinoseb	ND	0.992									
Dalapon	ND	1.98									Q
2,4-DB	ND	0.992									
MCPP	ND	4.96									
MCPA	ND	4.96									
Picloram	ND	0.992									
Bentazon	ND	0.992									
Chloramben	ND	0.992									
Acifluorfen	ND	4.96									
3,5-Dichlorobenzoic acid	ND	0.992									
4-Nitrophenol	ND	0.992									
Dacthal (DCPA)	ND	1.98									
Surr: 2,4-Dichlorophenylacetic acid	18.2		19.84		91.6	65.7	136				

NOTES:

Q - Associated calibration verification is below acceptance criteria. Result may be low-biased.

Sample ID: LCS-36570	SampType: LCS	Units: µg/L	Prep Date: 5/24/2022	RunNo: 75778							
Client ID: LCSW	Batch ID: 36570		Analysis Date: 5/27/2022	SeqNo: 1554616							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Dicamba	4.06	0.997	3.987	0	102	16.6	148				
2,4-D	5.17	0.997	3.987	0	130	50.4	150				
2,4-DP	4.50	0.997	3.987	0	113	53	135				
2,4,5-TP (Silvex)	4.97	0.997	3.987	0	125	53.6	140				
2,4,5-T	5.20	0.997	3.987	0	130	50	141				
Dinoseb	4.65	0.997	3.987	0	117	5	119				
Dalapon	10.9	1.99	19.93	0	54.7	5.65	97.2				

Work Order: 2205409
 CLIENT: OnSite Environmental Inc
 Project: 05-227

QC SUMMARY REPORT
Herbicides by EPA Method 8151A (GC/MS)

Sample ID: LCS-36570	SampType: LCS	Units: µg/L				Prep Date: 5/24/2022	RunNo: 75778				
Client ID: LCSW	Batch ID: 36570					Analysis Date: 5/27/2022	SeqNo: 1554616				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
2,4-DB	5.62	0.997	3.987	0	141	54.9	141				
MCPPP	17.7	4.98	19.93	0	88.7	28.7	166				
MCPA	17.9	4.98	19.93	0	89.8	20.7	176				
Picloram	3.97	0.997	3.987	0	99.5	9.72	120				
Bentazon	5.11	0.997	3.987	0	128	41.2	141				
Chloramben	3.59	0.997	3.987	0	90.1	5	109				
Acifluorfen	4.43	4.98	3.987	0	111	7.62	139				
3,5-Dichlorobenzoic acid	4.09	0.997	3.987	0	103	52.4	120				
4-Nitrophenol	3.88	0.997	3.987	0	97.2	5	107				
Dacthal (DCPA)	2.10	1.99	3.987	0	52.8	5	65.4				
Surr: 2,4-Dichlorophenylacetic acid	19.1		19.93		96.0	65.7	136				

Sample ID: LCSD-36570	SampType: LCSD	Units: µg/L				Prep Date: 5/24/2022	RunNo: 75778				
Client ID: LCSW02	Batch ID: 36570					Analysis Date: 5/27/2022	SeqNo: 1554617				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dicamba	4.15	0.998	3.992	0	104	16.6	148	4.060	2.25	30	
2,4-D	5.21	0.998	3.992	0	131	50.4	150	5.174	0.694	30	
2,4-DP	4.57	0.998	3.992	0	114	53	135	4.501	1.47	30	
2,4,5-TP (Silvex)	5.06	0.998	3.992	0	127	53.6	140	4.968	1.92	30	
2,4,5-T	5.20	0.998	3.992	0	130	50	141	5.198	0.110	30	
Dinoseb	5.32	0.998	3.992	0	133	5	119	4.645	13.6	30	S
Dalapon	11.4	2.00	19.96	0	57.2	5.65	97.2	10.90	4.57	30	
2,4-DB	5.59	0.998	3.992	0	140	54.9	141	5.617	0.467	30	
MCPPP	18.0	4.99	19.96	0	89.9	28.7	166	17.69	1.48	30	
MCPA	17.9	4.99	19.96	0	89.8	20.7	176	17.89	0.184	30	
Picloram	4.03	0.998	3.992	0	101	9.72	120	3.968	1.47	30	
Bentazon	5.14	0.998	3.992	0	129	41.2	141	5.107	0.687	30	
Chloramben	3.93	0.998	3.992	0	98.4	5	109	3.592	8.91	30	
Acifluorfen	4.94	4.99	3.992	0	124	7.62	139	0		30	
3,5-Dichlorobenzoic acid	4.23	0.998	3.992	0	106	52.4	120	4.090	3.25	30	

Work Order: 2205409
 CLIENT: OnSite Environmental Inc
 Project: 05-227

QC SUMMARY REPORT
Herbicides by EPA Method 8151A (GC/MS)

Sample ID: LCS D-36570	SampType: LCS D	Units: µg/L	Prep Date: 5/24/2022	RunNo: 75778							
Client ID: LCSW02	Batch ID: 36570		Analysis Date: 5/27/2022	SeqNo: 1554617							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
4-Nitrophenol	2.32	0.998	3.992	0	58.2	5	107	3.875	50.1	30	R
Dacthal (DCPA)	2.14	2.00	3.992	0	53.7	5	65.4	2.104	1.86	30	
Surr: 2,4-Dichlorophenylacetic acid	19.7		19.96		98.5	65.7	136		0		

NOTES:

S - Outlying spike recovery observed (high bias). A duplicate analysis was performed and recovered within range.
 R - High RPD observed, spike recovery is within range.

Sample ID: 2205407-001AMS	SampType: MS	Units: µg/L	Prep Date: 5/24/2022	RunNo: 75778							
Client ID: BATCH	Batch ID: 36570		Analysis Date: 5/27/2022	SeqNo: 1554619							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dicamba	3.93	0.996	3.984	0	98.6	31	142				
2,4-D	4.58	0.996	3.984	0	115	50.3	149				
2,4-DP	4.33	0.996	3.984	0	109	49.9	143				
2,4,5-TP (Silvex)	4.84	0.996	3.984	0	122	47.7	141				
2,4,5-T	4.87	0.996	3.984	0	122	34.4	139				
Dinoseb	5.29	0.996	3.984	0	133	27.3	117				S
Dalapon	10.4	1.99	19.92	0	52.1	14.2	113				
2,4-DB	5.23	0.996	3.984	0	131	31.3	147				
MCPPP	17.1	4.98	19.92	0	85.9	30.5	177				
MCPA	17.1	4.98	19.92	0	86.0	36.8	163				
Picloram	3.98	0.996	3.984	0	99.8	18.8	115				
Bentazon	5.06	0.996	3.984	0	127	11.9	176				
Chloramben	3.37	0.996	3.984	0	84.5	5	112				
Acifluorfen	5.11	4.98	3.984	0	128	28.1	146				
3,5-Dichlorobenzoic acid	3.99	0.996	3.984	0	100	36.2	146				
4-Nitrophenol	1.77	0.996	3.984	0	44.5	5	116				
Dacthal (DCPA)	1.75	1.99	3.984	0	44.0	5	84.6				
Surr: 2,4-Dichlorophenylacetic acid	18.8		19.92		94.5	65.7	136				

NOTES:

S - Outlying spike recoveries were associated with this sample.

Client Name: ONSITE

Work Order Number: 2205409

Logged by: Clare Griggs

Date Received: 5/20/2022 12:09:00 PM

Chain of Custody

1. Is Chain of Custody complete? Yes No Not Present
2. How was the sample delivered? Client

Log In

3. Coolers are present? Yes No NA
4. Shipping container/cooler in good condition? Yes No
5. Custody Seals present on shipping container/cooler?
(Refer to comments for Custody Seals not intact) Yes No Not Present
6. Was an attempt made to cool the samples? Yes No NA
7. Were all items received at a temperature of >2°C to 6°C * Yes No NA
8. Sample(s) in proper container(s)? Yes No
9. Sufficient sample volume for indicated test(s)? Yes No
10. Are samples properly preserved? Yes No
11. Was preservative added to bottles? Yes No NA
12. Is there headspace in the VOA vials? Yes No NA
13. Did all samples containers arrive in good condition(unbroken)? Yes No
14. Does paperwork match bottle labels? Yes No
15. Are matrices correctly identified on Chain of Custody? Yes No
16. Is it clear what analyses were requested? Yes No
17. Were all holding times able to be met? Yes No

Special Handling (if applicable)

18. Was client notified of all discrepancies with this order? Yes No NA

Person Notified:	<input type="text"/>	Date:	<input type="text"/>
By Whom:	<input type="text"/>	Via:	<input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:	<input type="text"/>		
Client Instructions:	<input type="text"/>		

19. Additional remarks:

Item Information

Item #	Temp °C
Sample	5.6

* Note: DoD/ELAP and TNI require items to be received at 4°C +/- 2°C

14648 NE 95th Street, Redmond, WA 98052 · (425) 883-3881

Laboratory: Fremont Analytical

Attention: Chelsea Ward

3600 Fremont Avenue N, Seattle, WA 98103

Phone Number: (206) 352-3790

Turnaround Request

1 Day 2 Day 3 Day

Standard

Other: _____

2205409

Laboratory Reference #: 05-227

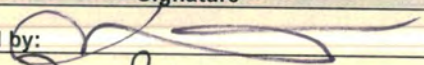
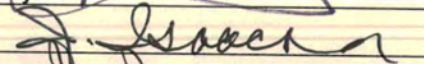
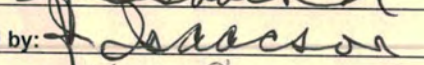
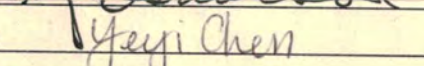
Project Manager: David Baumeister

email: dbaumeister@onsite-env.com

Project Number: 6694-002-05

Project Name: _____

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	# of Cont.	Requested Analyses
	MW-5-220518	5/18/22	14:30	W	1	Chlorinated Acid Herbicides 8151

Signature	Company	Date	Time	Comments/Special Instructions
Relinquished by: 	OSE	5/20/22	10:40	<h1>EDDs</h1>
Received by: 	ALPHA	5/20/22	10:10	
Relinquished by: 	ALPHA	5/20/22	12:05	
Received by: 	Fremont	5/20/22	12:09	
Relinquished by:				
Received by:				



Analytical Laboratory Testing Services
 14648 NE 95th Street • Redmond, WA 98052
 Phone: (425) 883-3881 • www.onsite-env.com

Chain of Custody

Company: **GEI**
 Project Number: **6694-002-05**
 Project Name: **Go East**
 Project Manager: **Garrett Leque**
 Sampled by: **JDE**

Turnaround Request (in working days)
 (Check One)
 Same Day 1 Day
 2 Days 3 Days
 Standard (7 Days)
 (other) _____

Number of Containers

Laboratory Number: 05-227

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers
1	MW-5-220518	5/19/22	1430	GW	18

NTWPH-HCID	NTWPH-Gx/BTEX (8021 <input type="checkbox"/> 8260 <input type="checkbox"/>)	NTWPH-Gx	NTWPH-Dx (Acid / SG Clean-up <input type="checkbox"/>)	Volatiles 8260	Halogenated Volatiles 8260	EDB EPA 8011 (Waters Only)	Semivolatiles 8270/SIM (with low-level PAHs)	PAHs 8270/SIM (low-level)	PCBs 8082	Organochlorine Pesticides 8081	Organophosphorus Pesticides 8270/SIM	Chlorinated Acid Herbicides 8151	Total Metals + Dissolved <input checked="" type="checkbox"/>	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664	TDS	Cl, NO ₃ , SO ₄ , NH ₄	Dissolved Ca, K, Na	Alkalinity, Bicarbonate	% Moisture

Signature	Company	Date	Time	Comments/Special Instructions
	GEI	5/19/22	1530	See Garrett for full list of analytes
		5/19/22	1610	* Total + Diss (field filtered) metals = As, Cd, Cr, Cu, Fe, Pb, Mn, Hg, Ni, Se, Zn, Mo

Data Package: Standard Level III Level IV

Chromatograms with final report Electronic Data Deliverables (EDDs)



14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

June 3, 2022

Garrett Leque
GeoEngineers, Inc.
554 West Bakerview Road
Bellingham, WA 98226

Re: Analytical Data for Project 6694-002-05 T700
Laboratory Reference No. 2205-228

Dear Garrett:

Enclosed are the analytical results and associated quality control data for samples submitted on May 19, 2022.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

A handwritten signature in black ink, appearing to read "DB", with a horizontal line extending to the right.

David Baumeister
Project Manager

Enclosures



OnSite Environmental, Inc. 14648 NE 95th Street, Redmond, WA 98052 (425) 883-3881

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: June 3, 2022
Samples Submitted: May 19, 2022
Laboratory Reference: 2205-228
Project: 6694-002-05 T700

Case Narrative

Samples were collected on May 19, 2022 and received by the laboratory on May 19, 2022. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

Organochlorine Pesticides by EPA 8081B Analysis

The Aldrin RPD result (22%) was above the quality control limit of 15%. Due to the fact the sample was non-detect for this analyte and all other QC was within quality control limits, no further action was performed.

Any other QA/QC issues associated with this extraction and analysis will be indicated with a footnote reference and discussed in detail on the Data Qualifier page.



Date of Report: June 3, 2022
Samples Submitted: May 19, 2022
Laboratory Reference: 2205-228
Project: 6694-002-05 T700

ANALYTICAL REPORT FOR SAMPLES

Client ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
MW-9-20220519	05-228-01	Water	5-19-22	5-19-22	

DRAFT



Date of Report: June 3, 2022
 Samples Submitted: May 19, 2022
 Laboratory Reference: 2205-228
 Project: 6694-002-05 T700

GASOLINE RANGE ORGANICS
NWTPH-Gx

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-9-20220519					
Laboratory ID:	05-228-01					
Gasoline	ND	100	NWTPH-Gx	5-20-22	5-20-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	92	65-122				



Date of Report: June 3, 2022
 Samples Submitted: May 19, 2022
 Laboratory Reference: 2205-228
 Project: 6694-002-05 T700

**DIESEL AND HEAVY OIL RANGE ORGANICS
 NWTPH-Dx**

Matrix: Water
 Units: mg/L (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-9-20220519					
Laboratory ID:	05-228-01					
Diesel Range Organics	0.12	0.11	NWTPH-Dx	5-20-22	5-20-22	
Lube Oil Range Organics	ND	0.21	NWTPH-Dx	5-20-22	5-20-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	83	50-150				



Date of Report: June 3, 2022
 Samples Submitted: May 19, 2022
 Laboratory Reference: 2205-228
 Project: 6694-002-05 T700

VOLATILE ORGANICS EPA 8260D
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-9-20220519					
Laboratory ID:	05-228-01					
Dichlorodifluoromethane	ND	0.20	EPA 8260D	5-20-22	5-20-22	
Chloromethane	ND	1.0	EPA 8260D	5-20-22	5-20-22	
Vinyl Chloride	ND	0.20	EPA 8260D	5-20-22	5-20-22	
Bromomethane	ND	0.30	EPA 8260D	5-20-22	5-20-22	
Chloroethane	ND	1.0	EPA 8260D	5-20-22	5-20-22	
Trichlorofluoromethane	ND	0.20	EPA 8260D	5-20-22	5-20-22	
1,1-Dichloroethene	ND	0.20	EPA 8260D	5-20-22	5-20-22	
Acetone	ND	5.0	EPA 8260D	5-20-22	5-20-22	
Iodomethane	ND	3.8	EPA 8260D	5-20-22	5-20-22	
Carbon Disulfide	ND	0.20	EPA 8260D	5-20-22	5-20-22	
Methylene Chloride	ND	1.0	EPA 8260D	5-20-22	5-20-22	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	5-20-22	5-20-22	
Methyl t-Butyl Ether	ND	0.20	EPA 8260D	5-20-22	5-20-22	
1,1-Dichloroethane	ND	0.20	EPA 8260D	5-20-22	5-20-22	
Vinyl Acetate	ND	1.0	EPA 8260D	5-20-22	5-20-22	
2,2-Dichloropropane	ND	0.20	EPA 8260D	5-20-22	5-20-22	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	5-20-22	5-20-22	
2-Butanone	ND	5.0	EPA 8260D	5-20-22	5-20-22	
Bromochloromethane	ND	0.20	EPA 8260D	5-20-22	5-20-22	
Chloroform	ND	0.20	EPA 8260D	5-20-22	5-20-22	
1,1,1-Trichloroethane	ND	0.20	EPA 8260D	5-20-22	5-20-22	
Carbon Tetrachloride	ND	0.20	EPA 8260D	5-20-22	5-20-22	
1,1-Dichloropropene	ND	0.20	EPA 8260D	5-20-22	5-20-22	
Benzene	ND	0.20	EPA 8260D	5-20-22	5-20-22	
1,2-Dichloroethane	ND	0.20	EPA 8260D	5-20-22	5-20-22	
Trichloroethene	ND	0.20	EPA 8260D	5-20-22	5-20-22	
1,2-Dichloropropane	ND	0.20	EPA 8260D	5-20-22	5-20-22	
Dibromomethane	ND	0.20	EPA 8260D	5-20-22	5-20-22	
Bromodichloromethane	ND	0.20	EPA 8260D	5-20-22	5-20-22	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260D	5-20-22	5-20-22	
Methyl Isobutyl Ketone	ND	2.0	EPA 8260D	5-20-22	5-20-22	
Toluene	ND	1.0	EPA 8260D	5-20-22	5-20-22	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260D	5-20-22	5-20-22	



Date of Report: June 3, 2022
 Samples Submitted: May 19, 2022
 Laboratory Reference: 2205-228
 Project: 6694-002-05 T700

VOLATILE ORGANICS EPA 8260D

page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-9-20220519					
Laboratory ID:	05-228-01					
1,1,2-Trichloroethane	ND	0.20	EPA 8260D	5-20-22	5-20-22	
Tetrachloroethene	ND	0.20	EPA 8260D	5-20-22	5-20-22	
1,3-Dichloropropane	ND	0.20	EPA 8260D	5-20-22	5-20-22	
2-Hexanone	ND	2.0	EPA 8260D	5-20-22	5-20-22	
Dibromochloromethane	ND	0.20	EPA 8260D	5-20-22	5-20-22	
1,2-Dibromoethane	ND	0.20	EPA 8260D	5-20-22	5-20-22	
Chlorobenzene	ND	0.20	EPA 8260D	5-20-22	5-20-22	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260D	5-20-22	5-20-22	
Ethylbenzene	ND	0.20	EPA 8260D	5-20-22	5-20-22	
m,p-Xylene	ND	0.40	EPA 8260D	5-20-22	5-20-22	
o-Xylene	ND	0.20	EPA 8260D	5-20-22	5-20-22	
Styrene	ND	0.20	EPA 8260D	5-20-22	5-20-22	
Bromoform	ND	1.0	EPA 8260D	5-20-22	5-20-22	
Isopropylbenzene	ND	0.20	EPA 8260D	5-20-22	5-20-22	
Bromobenzene	ND	0.20	EPA 8260D	5-20-22	5-20-22	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260D	5-20-22	5-20-22	
1,2,3-Trichloropropane	ND	0.20	EPA 8260D	5-20-22	5-20-22	
n-Propylbenzene	ND	0.20	EPA 8260D	5-20-22	5-20-22	
2-Chlorotoluene	ND	0.20	EPA 8260D	5-20-22	5-20-22	
4-Chlorotoluene	ND	0.20	EPA 8260D	5-20-22	5-20-22	
1,3,5-Trimethylbenzene	ND	0.20	EPA 8260D	5-20-22	5-20-22	
tert-Butylbenzene	ND	0.20	EPA 8260D	5-20-22	5-20-22	
1,2,4-Trimethylbenzene	ND	0.20	EPA 8260D	5-20-22	5-20-22	
sec-Butylbenzene	ND	0.20	EPA 8260D	5-20-22	5-20-22	
1,3-Dichlorobenzene	ND	0.20	EPA 8260D	5-20-22	5-20-22	
p-Isopropyltoluene	ND	0.20	EPA 8260D	5-20-22	5-20-22	
1,4-Dichlorobenzene	ND	0.20	EPA 8260D	5-20-22	5-20-22	
1,2-Dichlorobenzene	ND	0.20	EPA 8260D	5-20-22	5-20-22	
n-Butylbenzene	ND	0.20	EPA 8260D	5-20-22	5-20-22	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260D	5-20-22	5-20-22	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260D	5-20-22	5-20-22	
Hexachlorobutadiene	ND	1.0	EPA 8260D	5-20-22	5-20-22	
Naphthalene	ND	1.0	EPA 8260D	5-20-22	5-20-22	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260D	5-20-22	5-20-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>100</i>	<i>75-127</i>				
<i>Toluene-d8</i>	<i>100</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>96</i>	<i>78-125</i>				



OnSite Environmental, Inc. 14648 NE 95th Street, Redmond, WA 98052 (425) 883-3881

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Date of Report: June 3, 2022
 Samples Submitted: May 19, 2022
 Laboratory Reference: 2205-228
 Project: 6694-002-05 T700

SEMIVOLATILE ORGANICS EPA 8270E/SIM
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-9-20220519					
Laboratory ID:	05-228-01					
n-Nitrosodimethylamine	ND	0.98	EPA 8270E	5-23-22	5-23-22	
Pyridine	ND	0.98	EPA 8270E	5-23-22	5-23-22	
Phenol	ND	0.98	EPA 8270E	5-23-22	5-23-22	
Aniline	ND	4.9	EPA 8270E	5-23-22	5-23-22	
bis(2-Chloroethyl)ether	ND	0.98	EPA 8270E	5-23-22	5-23-22	
2-Chlorophenol	ND	0.98	EPA 8270E	5-23-22	5-23-22	
1,3-Dichlorobenzene	ND	0.98	EPA 8270E	5-23-22	5-23-22	
1,4-Dichlorobenzene	ND	0.98	EPA 8270E	5-23-22	5-23-22	
Benzyl alcohol	ND	0.98	EPA 8270E	5-23-22	5-23-22	
1,2-Dichlorobenzene	ND	0.98	EPA 8270E	5-23-22	5-23-22	
2-Methylphenol (o-Cresol)	ND	0.98	EPA 8270E	5-23-22	5-23-22	
bis(2-Chloroisopropyl)ether	ND	0.98	EPA 8270E	5-23-22	5-23-22	
(3+4)-Methylphenol (m,p-Cresol)	ND	0.98	EPA 8270E	5-23-22	5-23-22	
n-Nitroso-di-n-propylamine	ND	0.98	EPA 8270E	5-23-22	5-23-22	
Hexachloroethane	ND	0.98	EPA 8270E	5-23-22	5-23-22	
Nitrobenzene	ND	0.98	EPA 8270E	5-23-22	5-23-22	
Isophorone	ND	0.98	EPA 8270E	5-23-22	5-23-22	
2-Nitrophenol	ND	0.98	EPA 8270E	5-23-22	5-23-22	
2,4-Dimethylphenol	ND	0.98	EPA 8270E	5-23-22	5-23-22	
bis(2-Chloroethoxy)methane	ND	0.98	EPA 8270E	5-23-22	5-23-22	
2,4-Dichlorophenol	ND	0.98	EPA 8270E	5-23-22	5-23-22	
1,2,4-Trichlorobenzene	ND	0.98	EPA 8270E	5-23-22	5-23-22	
Naphthalene	ND	0.098	EPA 8270E/SIM	5-23-22	5-23-22	
4-Chloroaniline	ND	0.98	EPA 8270E	5-23-22	5-23-22	
Hexachlorobutadiene	ND	0.98	EPA 8270E	5-23-22	5-23-22	
4-Chloro-3-methylphenol	ND	0.98	EPA 8270E	5-23-22	5-23-22	
2-Methylnaphthalene	ND	0.098	EPA 8270E/SIM	5-23-22	5-23-22	
1-Methylnaphthalene	ND	0.098	EPA 8270E/SIM	5-23-22	5-23-22	
Hexachlorocyclopentadiene	ND	0.98	EPA 8270E	5-23-22	5-23-22	
2,4,6-Trichlorophenol	ND	0.98	EPA 8270E	5-23-22	5-23-22	
2,3-Dichloroaniline	ND	0.98	EPA 8270E	5-23-22	5-23-22	
2,4,5-Trichlorophenol	ND	0.98	EPA 8270E	5-23-22	5-23-22	
2-Chloronaphthalene	ND	0.98	EPA 8270E	5-23-22	5-23-22	
2-Nitroaniline	ND	0.98	EPA 8270E	5-23-22	5-23-22	
1,4-Dinitrobenzene	ND	0.98	EPA 8270E	5-23-22	5-23-22	
Dimethylphthalate	ND	4.9	EPA 8270E	5-23-22	5-23-22	
1,3-Dinitrobenzene	ND	0.98	EPA 8270E	5-23-22	5-23-22	
2,6-Dinitrotoluene	ND	0.98	EPA 8270E	5-23-22	5-23-22	
1,2-Dinitrobenzene	ND	0.98	EPA 8270E	5-23-22	5-23-22	
Acenaphthylene	ND	0.098	EPA 8270E/SIM	5-23-22	5-23-22	
3-Nitroaniline	ND	0.98	EPA 8270E	5-23-22	5-23-22	



Date of Report: June 3, 2022
 Samples Submitted: May 19, 2022
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SEMIVOLATILE ORGANICS EPA 8270E/SIM
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-9-20220519					
Laboratory ID:	05-228-01					
2,4-Dinitrophenol	ND	11	EPA 8270E	5-23-22	5-23-22	
Acenaphthene	0.18	0.098	EPA 8270E/SIM	5-23-22	5-23-22	
4-Nitrophenol	ND	4.9	EPA 8270E	5-23-22	5-23-22	
2,4-Dinitrotoluene	ND	0.98	EPA 8270E	5-23-22	5-23-22	
Dibenzofuran	ND	0.98	EPA 8270E	5-23-22	5-23-22	
2,3,5,6-Tetrachlorophenol	ND	0.98	EPA 8270E	5-23-22	5-23-22	
2,3,4,6-Tetrachlorophenol	ND	0.98	EPA 8270E	5-23-22	5-23-22	
Diethylphthalate	ND	0.98	EPA 8270E	5-23-22	5-23-22	
4-Chlorophenyl-phenylether	ND	0.98	EPA 8270E	5-23-22	5-23-22	
4-Nitroaniline	ND	0.98	EPA 8270E	5-23-22	5-23-22	
Fluorene	ND	0.098	EPA 8270E/SIM	5-23-22	5-23-22	
4,6-Dinitro-2-methylphenol	ND	7.8	EPA 8270E	5-23-22	5-23-22	
n-Nitrosodiphenylamine	ND	0.98	EPA 8270E	5-23-22	5-23-22	
1,2-Diphenylhydrazine	ND	0.98	EPA 8270E	5-23-22	5-23-22	
4-Bromophenyl-phenylether	ND	0.98	EPA 8270E	5-23-22	5-23-22	
Hexachlorobenzene	ND	0.98	EPA 8270E	5-23-22	5-23-22	
Pentachlorophenol	ND	6.4	EPA 8270E	5-23-22	5-23-22	
Phenanthrene	ND	0.098	EPA 8270E/SIM	5-23-22	5-23-22	
Anthracene	ND	0.098	EPA 8270E/SIM	5-23-22	5-23-22	
Carbazole	ND	0.98	EPA 8270E	5-23-22	5-23-22	
Di-n-butylphthalate	ND	4.9	EPA 8270E	5-23-22	5-23-22	
Fluoranthene	ND	0.098	EPA 8270E/SIM	5-23-22	5-23-22	
Pyrene	ND	0.098	EPA 8270E/SIM	5-23-22	5-23-22	
Butylbenzylphthalate	ND	0.98	EPA 8270E	5-23-22	5-23-22	
bis-2-Ethylhexyladipate	ND	4.9	EPA 8270E	5-23-22	5-23-22	
3,3'-Dichlorobenzidine	ND	0.98	EPA 8270E	5-23-22	5-23-22	
Benzo[a]anthracene	ND	0.0098	EPA 8270E/SIM	5-23-22	5-23-22	
Chrysene	ND	0.0098	EPA 8270E/SIM	5-23-22	5-23-22	
bis(2-Ethylhexyl)phthalate	ND	9.8	EPA 8270E	5-23-22	5-23-22	
Di-n-octylphthalate	ND	0.98	EPA 8270E	5-23-22	5-23-22	
Benzo[b]fluoranthene	ND	0.0098	EPA 8270E/SIM	5-23-22	5-23-22	
Benzo(j,k)fluoranthene	ND	0.0098	EPA 8270E/SIM	5-23-22	5-23-22	
Benzo[a]pyrene	ND	0.0098	EPA 8270E/SIM	5-23-22	5-23-22	
Indeno[1,2,3-cd]pyrene	ND	0.0098	EPA 8270E/SIM	5-23-22	5-23-22	
Dibenz[a,h]anthracene	ND	0.0098	EPA 8270E/SIM	5-23-22	5-23-22	
Benzo[g,h,i]perylene	ND	0.0098	EPA 8270E/SIM	5-23-22	5-23-22	
Surrogate:	Percent Recovery	Control Limits				
2-Fluorophenol	36	10 - 81				
Phenol-d6	26	10 - 86				
Nitrobenzene-d5	60	27 - 105				
2-Fluorobiphenyl	64	33 - 100				
2,4,6-Tribromophenol	77	25 - 124				
Terphenyl-d14	63	40 - 116				



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PCBs EPA 8082A

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-9-20220519					
Laboratory ID:	05-228-01					
Aroclor 1016	ND	0.048	EPA 8082A	5-25-22	5-25-22	
Aroclor 1221	ND	0.048	EPA 8082A	5-25-22	5-25-22	
Aroclor 1232	ND	0.048	EPA 8082A	5-25-22	5-25-22	
Aroclor 1242	ND	0.048	EPA 8082A	5-25-22	5-25-22	
Aroclor 1248	ND	0.048	EPA 8082A	5-25-22	5-25-22	
Aroclor 1254	ND	0.048	EPA 8082A	5-25-22	5-25-22	
Aroclor 1260	ND	0.048	EPA 8082A	5-25-22	5-25-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>DCB</i>	111	49-133				



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**ORGANOCHLORINE
 PESTICIDES EPA 8081B**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-9-20220519					
Laboratory ID:	05-228-01					
alpha-BHC	ND	0.0048	EPA 8081B	5-25-22	5-25-22	
gamma-BHC (Lindane)	ND	0.0048	EPA 8081B	5-25-22	5-25-22	
beta-BHC	ND	0.0048	EPA 8081B	5-25-22	5-25-22	
delta-BHC	ND	0.0048	EPA 8081B	5-25-22	5-25-22	
Heptachlor	ND	0.0048	EPA 8081B	5-25-22	5-25-22	
Aldrin	ND	0.0019	EPA 8081B	5-25-22	5-25-22	
Heptachlor Epoxide	ND	0.0029	EPA 8081B	5-25-22	5-25-22	
gamma-Chlordane	ND	0.0048	EPA 8081B	5-25-22	5-25-22	
alpha-Chlordane	ND	0.0048	EPA 8081B	5-25-22	5-25-22	
4,4'-DDE	ND	0.0048	EPA 8081B	5-25-22	5-25-22	
Endosulfan I	ND	0.0048	EPA 8081B	5-25-22	5-25-22	
Dieldrin	ND	0.0048	EPA 8081B	5-25-22	5-25-22	
Endrin	ND	0.0048	EPA 8081B	5-25-22	5-25-22	
4,4'-DDD	ND	0.0048	EPA 8081B	5-25-22	5-25-22	
Endosulfan II	ND	0.0048	EPA 8081B	5-25-22	5-25-22	
4,4'-DDT	ND	0.0048	EPA 8081B	5-25-22	5-25-22	
Endrin Aldehyde	ND	0.0048	EPA 8081B	5-25-22	5-25-22	
Methoxychlor	ND	0.0097	EPA 8081B	5-25-22	5-25-22	
Endosulfan Sulfate	ND	0.0048	EPA 8081B	5-25-22	5-25-22	
Endrin Ketone	ND	0.019	EPA 8081B	5-25-22	5-25-22	
Toxaphene	ND	0.048	EPA 8081B	5-25-22	5-25-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
TCMX	50	21-110				
DCB	79	42-113				



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TOTAL METALS
EPA 200.8/200.7/7470A

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-9-20220519					
Laboratory ID:	05-228-01					
Arsenic	ND	3.3	EPA 200.8	5-24-22	5-24-22	
Cadmium	ND	4.4	EPA 200.8	5-24-22	5-24-22	
Chromium	ND	11	EPA 200.8	5-24-22	5-24-22	
Copper	ND	11	EPA 200.8	5-24-22	5-24-22	
Iron	2300	50	EPA 200.7	5-20-22	5-20-22	
Lead	ND	1.1	EPA 200.8	5-24-22	5-24-22	
Magnesium	24000	1000	EPA 200.7	5-20-22	5-20-22	
Manganese	1100	10	EPA 200.7	5-20-22	5-20-22	
Mercury	ND	0.025	EPA 7470A	5-23-22	5-23-22	
Nickel	ND	22	EPA 200.8	5-24-22	5-24-22	
Selenium	ND	5.6	EPA 200.8	5-24-22	5-24-22	
Zinc	ND	28	EPA 200.8	5-24-22	5-24-22	



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DISSOLVED METALS
EPA 200.8/200.7/7470A

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-9-20220519					
Laboratory ID:	05-228-01					
Arsenic	ND	3.0	EPA 200.8		5-24-22	
Cadmium	ND	4.0	EPA 200.8		5-24-22	
Calcium	93000	10000	EPA 200.7		5-20-22	
Chromium	ND	10	EPA 200.8		5-24-22	
Copper	ND	10	EPA 200.8		5-24-22	
Iron	1900	56	EPA 200.7		5-20-22	
Lead	ND	1.0	EPA 200.8		5-24-22	
Magnesium	26000	1100	EPA 200.7		5-20-22	
Manganese	1200	11	EPA 200.7		5-20-22	
Mercury	ND	0.025	EPA 7470A		5-23-22	
Nickel	ND	20	EPA 200.8		5-24-22	
Potassium	5300	1100	EPA 200.7		5-20-22	
Selenium	ND	5.0	EPA 200.8		5-24-22	
Sodium	13000	1100	EPA 200.7		5-20-22	
Zinc	ND	25	EPA 200.8		5-24-22	



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TOTAL ALKALINITY
SM 2320B

Matrix: Water
Units: mg CaCO₃/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-9-20220519					
Laboratory ID:	05-228-01					
Total Alkalinity	340	2.0	SM 2320B	6-2-22	6-2-22	



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**BICARBONATE
SM 2320B**

Matrix: Water
Units: mg CaCO₃/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-9-20220519					
Laboratory ID:	05-228-01					
Bicarbonate	340	2.0	SM 2320B	6-2-22	6-2-22	



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**TOTAL DISSOLVED SOLIDS
 SM 2540C**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-9-20220519					
Laboratory ID:	05-228-01					
Total Dissolved Solids	400	13	SM 2540C	5-24-22	5-31-22	



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**CHLORIDE
 SM 4500-Cl E**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-9-20220519					
Laboratory ID:	05-228-01					
Chloride	6.2	2.0	SM 4500-Cl E	5-24-22	5-24-22	



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NITRATE (as Nitrogen)
EPA 353.2

Matrix: Water
Units: mg/L-N

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-9-20220519					
Laboratory ID:	05-228-01					
Nitrate	0.050	0.050	EPA 353.2	5-31-22	5-31-22	



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SULFATE
ASTM D516-11

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-9-20220519					
Laboratory ID:	05-228-01					
Sulfate	21	5.0	ASTM D516-11	5-23-22	5-23-22	



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AMMONIA (as Nitrogen)
SM 4500-NH₃ D

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-9-20220519					
Laboratory ID:	05-228-01					
Ammonia	1.1	0.050	SM 4500-NH3 D	5-26-22	5-26-22	



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**GASOLINE RANGE ORGANICS
 NWTPH-Gx
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0520W1					
Gasoline	ND	100	NWTPH-Gx	5-20-22	5-20-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
Fluorobenzene	93	65-122				

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	05-227-01							
	ORIG	DUP						
Gasoline	ND	ND	NA	NA	NA	NA	30	
<i>Surrogate:</i>								
Fluorobenzene				92	92	65-122		



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**DIESEL AND HEAVY OIL RANGE ORGANICS
 NWTPH-Dx
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0520W1					
Diesel Range Organics	ND	0.10	NWTPH-Dx	5-20-22	5-20-22	
Lube Oil Range Organics	ND	0.20	NWTPH-Dx	5-20-22	5-20-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	91	50-150				

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	SB0520W1							
	ORIG	DUP						
Diesel Fuel #2	0.367	0.294	NA	NA	NA	NA	22	NA
<i>Surrogate:</i>								
<i>o-Terphenyl</i>				89	82	50-150		



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QUALITY CONTROL
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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0520W1					
Dichlorodifluoromethane	ND	0.20	EPA 8260D	5-20-22	5-20-22	
Chloromethane	ND	1.0	EPA 8260D	5-20-22	5-20-22	
Vinyl Chloride	ND	0.20	EPA 8260D	5-20-22	5-20-22	
Bromomethane	ND	0.30	EPA 8260D	5-20-22	5-20-22	
Chloroethane	ND	1.0	EPA 8260D	5-20-22	5-20-22	
Trichlorofluoromethane	ND	0.20	EPA 8260D	5-20-22	5-20-22	
1,1-Dichloroethene	ND	0.20	EPA 8260D	5-20-22	5-20-22	
Acetone	ND	5.0	EPA 8260D	5-20-22	5-20-22	
Iodomethane	ND	3.8	EPA 8260D	5-20-22	5-20-22	
Carbon Disulfide	ND	0.20	EPA 8260D	5-20-22	5-20-22	
Methylene Chloride	ND	1.0	EPA 8260D	5-20-22	5-20-22	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	5-20-22	5-20-22	
Methyl t-Butyl Ether	ND	0.20	EPA 8260D	5-20-22	5-20-22	
1,1-Dichloroethane	ND	0.20	EPA 8260D	5-20-22	5-20-22	
Vinyl Acetate	ND	1.0	EPA 8260D	5-20-22	5-20-22	
2,2-Dichloropropane	ND	0.20	EPA 8260D	5-20-22	5-20-22	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	5-20-22	5-20-22	
2-Butanone	ND	5.0	EPA 8260D	5-20-22	5-20-22	
Bromochloromethane	ND	0.20	EPA 8260D	5-20-22	5-20-22	
Chloroform	ND	0.20	EPA 8260D	5-20-22	5-20-22	
1,1,1-Trichloroethane	ND	0.20	EPA 8260D	5-20-22	5-20-22	
Carbon Tetrachloride	ND	0.20	EPA 8260D	5-20-22	5-20-22	
1,1-Dichloropropene	ND	0.20	EPA 8260D	5-20-22	5-20-22	
Benzene	ND	0.20	EPA 8260D	5-20-22	5-20-22	
1,2-Dichloroethane	ND	0.20	EPA 8260D	5-20-22	5-20-22	
Trichloroethene	ND	0.20	EPA 8260D	5-20-22	5-20-22	
1,2-Dichloropropane	ND	0.20	EPA 8260D	5-20-22	5-20-22	
Dibromomethane	ND	0.20	EPA 8260D	5-20-22	5-20-22	
Bromodichloromethane	ND	0.20	EPA 8260D	5-20-22	5-20-22	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260D	5-20-22	5-20-22	
Methyl Isobutyl Ketone	ND	2.0	EPA 8260D	5-20-22	5-20-22	
Toluene	ND	1.0	EPA 8260D	5-20-22	5-20-22	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260D	5-20-22	5-20-22	



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QUALITY CONTROL
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0520W1					
1,1,2-Trichloroethane	ND	0.20	EPA 8260D	5-20-22	5-20-22	
Tetrachloroethene	ND	0.20	EPA 8260D	5-20-22	5-20-22	
1,3-Dichloropropane	ND	0.20	EPA 8260D	5-20-22	5-20-22	
2-Hexanone	ND	2.0	EPA 8260D	5-20-22	5-20-22	
Dibromochloromethane	ND	0.20	EPA 8260D	5-20-22	5-20-22	
1,2-Dibromoethane	ND	0.20	EPA 8260D	5-20-22	5-20-22	
Chlorobenzene	ND	0.20	EPA 8260D	5-20-22	5-20-22	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260D	5-20-22	5-20-22	
Ethylbenzene	ND	0.20	EPA 8260D	5-20-22	5-20-22	
m,p-Xylene	ND	0.40	EPA 8260D	5-20-22	5-20-22	
o-Xylene	ND	0.20	EPA 8260D	5-20-22	5-20-22	
Styrene	ND	0.20	EPA 8260D	5-20-22	5-20-22	
Bromoform	ND	1.0	EPA 8260D	5-20-22	5-20-22	
Isopropylbenzene	ND	0.20	EPA 8260D	5-20-22	5-20-22	
Bromobenzene	ND	0.20	EPA 8260D	5-20-22	5-20-22	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260D	5-20-22	5-20-22	
1,2,3-Trichloropropane	ND	0.20	EPA 8260D	5-20-22	5-20-22	
n-Propylbenzene	ND	0.20	EPA 8260D	5-20-22	5-20-22	
2-Chlorotoluene	ND	0.20	EPA 8260D	5-20-22	5-20-22	
4-Chlorotoluene	ND	0.20	EPA 8260D	5-20-22	5-20-22	
1,3,5-Trimethylbenzene	ND	0.20	EPA 8260D	5-20-22	5-20-22	
tert-Butylbenzene	ND	0.20	EPA 8260D	5-20-22	5-20-22	
1,2,4-Trimethylbenzene	ND	0.20	EPA 8260D	5-20-22	5-20-22	
sec-Butylbenzene	ND	0.20	EPA 8260D	5-20-22	5-20-22	
1,3-Dichlorobenzene	ND	0.20	EPA 8260D	5-20-22	5-20-22	
p-Isopropyltoluene	ND	0.20	EPA 8260D	5-20-22	5-20-22	
1,4-Dichlorobenzene	ND	0.20	EPA 8260D	5-20-22	5-20-22	
1,2-Dichlorobenzene	ND	0.20	EPA 8260D	5-20-22	5-20-22	
n-Butylbenzene	ND	0.20	EPA 8260D	5-20-22	5-20-22	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260D	5-20-22	5-20-22	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260D	5-20-22	5-20-22	
Hexachlorobutadiene	ND	1.0	EPA 8260D	5-20-22	5-20-22	
Naphthalene	ND	1.0	EPA 8260D	5-20-22	5-20-22	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260D	5-20-22	5-20-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>100</i>	<i>75-127</i>				
<i>Toluene-d8</i>	<i>101</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>97</i>	<i>78-125</i>				



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**VOLATILE ORGANICS EPA 8260D
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD	RPD	Flags
					Recovery	Limits	RPD	Limit		
SPIKE BLANKS										
Laboratory ID:	SB0520W1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	10.8	10.9	10.0	10.0	108	109	78-125	1	19	
Benzene	10.6	10.7	10.0	10.0	106	107	80-121	1	16	
Trichloroethene	10.9	11.1	10.0	10.0	109	111	80-122	2	18	
Toluene	10.3	10.4	10.0	10.0	103	104	80-120	1	18	
Chlorobenzene	10.7	10.7	10.0	10.0	107	107	80-120	0	17	
<i>Surrogate:</i>										
Dibromofluoromethane					99	98	75-127			
Toluene-d8					103	102	80-127			
4-Bromofluorobenzene					103	103	78-125			



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SEMIVOLATILE ORGANICS EPA 8270E/SIM
QUALITY CONTROL
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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0523W1					
n-Nitrosodimethylamine	ND	1.0	EPA 8270E	5-23-22	5-23-22	
Pyridine	ND	1.0	EPA 8270E	5-23-22	5-23-22	
Phenol	ND	1.0	EPA 8270E	5-23-22	5-23-22	
Aniline	ND	5.0	EPA 8270E	5-23-22	5-23-22	
bis(2-Chloroethyl)ether	ND	1.0	EPA 8270E	5-23-22	5-23-22	
2-Chlorophenol	ND	1.0	EPA 8270E	5-23-22	5-23-22	
1,3-Dichlorobenzene	ND	1.0	EPA 8270E	5-23-22	5-23-22	
1,4-Dichlorobenzene	ND	1.0	EPA 8270E	5-23-22	5-23-22	
Benzyl alcohol	ND	1.0	EPA 8270E	5-23-22	5-23-22	
1,2-Dichlorobenzene	ND	1.0	EPA 8270E	5-23-22	5-23-22	
2-Methylphenol (o-Cresol)	ND	1.0	EPA 8270E	5-23-22	5-23-22	
bis(2-Chloroisopropyl)ether	ND	1.0	EPA 8270E	5-23-22	5-23-22	
(3+4)-Methylphenol (m,p-Cresol)	ND	1.0	EPA 8270E	5-23-22	5-23-22	
n-Nitroso-di-n-propylamine	ND	1.0	EPA 8270E	5-23-22	5-23-22	
Hexachloroethane	ND	1.0	EPA 8270E	5-23-22	5-23-22	
Nitrobenzene	ND	1.0	EPA 8270E	5-23-22	5-23-22	
Isophorone	ND	1.0	EPA 8270E	5-23-22	5-23-22	
2-Nitrophenol	ND	1.0	EPA 8270E	5-23-22	5-23-22	
2,4-Dimethylphenol	ND	1.0	EPA 8270E	5-23-22	5-23-22	
bis(2-Chloroethoxy)methane	ND	1.0	EPA 8270E	5-23-22	5-23-22	
2,4-Dichlorophenol	ND	1.0	EPA 8270E	5-23-22	5-23-22	
1,2,4-Trichlorobenzene	ND	1.0	EPA 8270E	5-23-22	5-23-22	
Naphthalene	ND	0.10	EPA 8270E/SIM	5-23-22	5-23-22	
4-Chloroaniline	ND	1.0	EPA 8270E	5-23-22	5-23-22	
Hexachlorobutadiene	ND	1.0	EPA 8270E	5-23-22	5-23-22	
4-Chloro-3-methylphenol	ND	1.0	EPA 8270E	5-23-22	5-23-22	
2-Methylnaphthalene	ND	0.10	EPA 8270E/SIM	5-23-22	5-23-22	
1-Methylnaphthalene	ND	0.10	EPA 8270E/SIM	5-23-22	5-23-22	
Hexachlorocyclopentadiene	ND	1.0	EPA 8270E	5-23-22	5-23-22	
2,4,6-Trichlorophenol	ND	1.0	EPA 8270E	5-23-22	5-23-22	
2,3-Dichloroaniline	ND	1.0	EPA 8270E	5-23-22	5-23-22	
2,4,5-Trichlorophenol	ND	1.0	EPA 8270E	5-23-22	5-23-22	
2-Chloronaphthalene	ND	1.0	EPA 8270E	5-23-22	5-23-22	
2-Nitroaniline	ND	1.0	EPA 8270E	5-23-22	5-23-22	
1,4-Dinitrobenzene	ND	1.0	EPA 8270E	5-23-22	5-23-22	
Dimethylphthalate	ND	5.0	EPA 8270E	5-23-22	5-23-22	
1,3-Dinitrobenzene	ND	1.0	EPA 8270E	5-23-22	5-23-22	
2,6-Dinitrotoluene	ND	1.0	EPA 8270E	5-23-22	5-23-22	
1,2-Dinitrobenzene	ND	1.0	EPA 8270E	5-23-22	5-23-22	
Acenaphthylene	ND	0.10	EPA 8270E/SIM	5-23-22	5-23-22	
3-Nitroaniline	ND	1.0	EPA 8270E	5-23-22	5-23-22	



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**SEMIVOLATILE ORGANICS EPA 8270E/SIM
 QUALITY CONTROL**

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0523W1					
2,4-Dinitrophenol	ND	5.0	EPA 8270E	5-23-22	5-23-22	
Acenaphthene	ND	0.10	EPA 8270E/SIM	5-23-22	5-23-22	
4-Nitrophenol	ND	5.0	EPA 8270E	5-23-22	5-23-22	
2,4-Dinitrotoluene	ND	1.0	EPA 8270E	5-23-22	5-23-22	
Dibenzofuran	ND	1.0	EPA 8270E	5-23-22	5-23-22	
2,3,5,6-Tetrachlorophenol	ND	1.0	EPA 8270E	5-23-22	5-23-22	
2,3,4,6-Tetrachlorophenol	ND	1.0	EPA 8270E	5-23-22	5-23-22	
Diethylphthalate	ND	1.0	EPA 8270E	5-23-22	5-23-22	
4-Chlorophenyl-phenylether	ND	1.0	EPA 8270E	5-23-22	5-23-22	
4-Nitroaniline	ND	1.0	EPA 8270E	5-23-22	5-23-22	
Fluorene	ND	0.10	EPA 8270E/SIM	5-23-22	5-23-22	
4,6-Dinitro-2-methylphenol	ND	5.0	EPA 8270E	5-23-22	5-23-22	
n-Nitrosodiphenylamine	ND	1.0	EPA 8270E	5-23-22	5-23-22	
1,2-Diphenylhydrazine	ND	1.0	EPA 8270E	5-23-22	5-23-22	
4-Bromophenyl-phenylether	ND	1.0	EPA 8270E	5-23-22	5-23-22	
Hexachlorobenzene	ND	1.0	EPA 8270E	5-23-22	5-23-22	
Pentachlorophenol	ND	5.0	EPA 8270E	5-23-22	5-23-22	
Phenanthrene	ND	0.10	EPA 8270E/SIM	5-23-22	5-23-22	
Anthracene	ND	0.10	EPA 8270E/SIM	5-23-22	5-23-22	
Carbazole	ND	1.0	EPA 8270E	5-23-22	5-23-22	
Di-n-butylphthalate	ND	5.0	EPA 8270E	5-23-22	5-23-22	
Fluoranthene	ND	0.10	EPA 8270E/SIM	5-23-22	5-23-22	
Pyrene	ND	0.10	EPA 8270E/SIM	5-23-22	5-23-22	
Butylbenzylphthalate	ND	1.0	EPA 8270E	5-23-22	5-23-22	
bis-2-Ethylhexyladipate	ND	5.0	EPA 8270E	5-23-22	5-23-22	
3,3'-Dichlorobenzidine	ND	1.0	EPA 8270E	5-23-22	5-23-22	
Benzo[a]anthracene	ND	0.010	EPA 8270E/SIM	5-23-22	5-23-22	
Chrysene	ND	0.010	EPA 8270E/SIM	5-23-22	5-23-22	
bis(2-Ethylhexyl)phthalate	ND	10	EPA 8270E	5-23-22	5-23-22	
Di-n-octylphthalate	ND	1.0	EPA 8270E	5-23-22	5-23-22	
Benzo[b]fluoranthene	ND	0.010	EPA 8270E/SIM	5-23-22	5-23-22	
Benzo(j,k)fluoranthene	ND	0.010	EPA 8270E/SIM	5-23-22	5-23-22	
Benzo[a]pyrene	ND	0.010	EPA 8270E/SIM	5-23-22	5-23-22	
Indeno[1,2,3-cd]pyrene	ND	0.010	EPA 8270E/SIM	5-23-22	5-23-22	
Dibenz[a,h]anthracene	ND	0.010	EPA 8270E/SIM	5-23-22	5-23-22	
Benzo[g,h,i]perylene	ND	0.010	EPA 8270E/SIM	5-23-22	5-23-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
2-Fluorophenol	42	10 - 81				
Phenol-d6	30	10 - 86				
Nitrobenzene-d5	64	27 - 105				
2-Fluorobiphenyl	65	33 - 100				
2,4,6-Tribromophenol	79	25 - 124				
Terphenyl-d14	67	40 - 116				



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**SEMIVOLATILE ORGANICS EPA 8270E/SIM
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L

Analyte	Result		Spike Level		Source	Percent		Recovery	RPD	RPD	Limit	Flags
					Result	Recovery	Limits					
MATRIX SPIKES												
Laboratory ID:	05-242-01											
	MS	MSD	MS	MSD		MS	MSD					
Phenol	92.6	86.6	160	160	ND	58	54	20 - 114	7			36
2-Chlorophenol	113	103	160	160	ND	71	64	24 - 105	9			40
1,4-Dichlorobenzene	54.0	49.1	80.0	80.0	ND	68	61	23 - 100	10			48
n-Nitroso-di-n-propylamine	69.0	60.3	80.0	80.0	ND	86	75	20 - 136	13			38
1,2,4-Trichlorobenzene	59.7	54.4	80.0	80.0	ND	75	68	27 - 105	9			39
4-Chloro-3-methylphenol	124	121	160	160	ND	78	76	44 - 113	2			26
Acenaphthene	67.6	60.6	80.0	80.0	ND	85	76	35 - 105	11			25
4-Nitrophenol	126	119	160	160	ND	79	74	31 - 141	6			31
2,4-Dinitrotoluene	64.6	59.0	80.0	80.0	ND	81	74	44 - 106	9			30
Pentachlorophenol	170	156	160	160	ND	106	98	43 - 163	9			39
Pyrene	65.4	62.1	80.0	80.0	ND	82	78	39 - 113	5			27
<i>Surrogate:</i>												
2-Fluorophenol						49	45	10 - 81				
Phenol-d6						48	45	10 - 86				
Nitrobenzene-d5						71	63	27 - 105				
2-Fluorobiphenyl						78	69	33 - 100				
2,4,6-Tribromophenol						81	77	25 - 124				
Terphenyl-d14						74	71	40 - 116				



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**PCBs EPA 8082A
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0525W1					
Aroclor 1016	ND	0.050	EPA 8082A	5-25-22	5-25-22	
Aroclor 1221	ND	0.050	EPA 8082A	5-25-22	5-25-22	
Aroclor 1232	ND	0.050	EPA 8082A	5-25-22	5-25-22	
Aroclor 1242	ND	0.050	EPA 8082A	5-25-22	5-25-22	
Aroclor 1248	ND	0.050	EPA 8082A	5-25-22	5-25-22	
Aroclor 1254	ND	0.050	EPA 8082A	5-25-22	5-25-22	
Aroclor 1260	ND	0.050	EPA 8082A	5-25-22	5-25-22	
Surrogate:	Percent Recovery	Control Limits				
DCB	114	49-133				

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS								
Laboratory ID:	SB0525W2							
	SB	SBD	SB	SBD	SB	SBD		
Aroclor 1260	0.479	0.458	0.500	0.500	N/A	96	92	67-120 4 15
Surrogate:								
DCB						122	114	49-133



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**ORGANOCHLORINE
 PESTICIDES EPA 8081B
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0525W1					
alpha-BHC	ND	0.0050	EPA 8081B	5-25-22	5-25-22	
gamma-BHC (Lindane)	ND	0.0050	EPA 8081B	5-25-22	5-25-22	
beta-BHC	ND	0.0050	EPA 8081B	5-25-22	5-25-22	
delta-BHC	ND	0.0050	EPA 8081B	5-25-22	5-25-22	
Heptachlor	ND	0.0050	EPA 8081B	5-25-22	5-25-22	
Aldrin	ND	0.0020	EPA 8081B	5-25-22	5-25-22	
Heptachlor Epoxide	ND	0.0030	EPA 8081B	5-25-22	5-25-22	
gamma-Chlordane	ND	0.0050	EPA 8081B	5-25-22	5-25-22	
alpha-Chlordane	ND	0.0050	EPA 8081B	5-25-22	5-25-22	
4,4'-DDE	ND	0.0050	EPA 8081B	5-25-22	5-25-22	
Endosulfan I	ND	0.0050	EPA 8081B	5-25-22	5-25-22	
Dieldrin	ND	0.0050	EPA 8081B	5-25-22	5-25-22	
Endrin	ND	0.0050	EPA 8081B	5-25-22	5-25-22	
4,4'-DDD	ND	0.0050	EPA 8081B	5-25-22	5-25-22	
Endosulfan II	ND	0.0050	EPA 8081B	5-25-22	5-25-22	
4,4'-DDT	ND	0.0050	EPA 8081B	5-25-22	5-25-22	
Endrin Aldehyde	ND	0.0050	EPA 8081B	5-25-22	5-25-22	
Methoxychlor	ND	0.010	EPA 8081B	5-25-22	5-25-22	
Endosulfan Sulfate	ND	0.0050	EPA 8081B	5-25-22	5-25-22	
Endrin Ketone	ND	0.020	EPA 8081B	5-25-22	5-25-22	
Toxaphene	ND	0.050	EPA 8081B	5-25-22	5-25-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
TCMX	51	21-110				
DCB	86	42-113				



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**ORGANOCHLORINE
 PESTICIDES EPA 8081B
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS											
Laboratory ID:	SB0525W1										
	SB	SBD	SB	SBD		SB	SBD				
alpha-BHC	0.0692	0.0677	0.100	0.100	N/A	69	68	50-113	2	19	
gamma-BHC (Lindane)	0.0791	0.0773	0.100	0.100	N/A	79	77	50-114	2	15	
beta-BHC	0.0745	0.0725	0.100	0.100	N/A	74	73	45-110	3	15	
delta-BHC	0.0819	0.0792	0.100	0.100	N/A	82	79	40-113	3	15	
Heptachlor	0.0698	0.0813	0.100	0.100	N/A	70	81	41-107	15	16	
Aldrin	0.0462	0.0576	0.100	0.100	N/A	46	58	39-105	22	15	L
Heptachlor Epoxide	0.0849	0.0824	0.100	0.100	N/A	85	82	53-106	3	15	
gamma-Chlordane	0.0779	0.0752	0.100	0.100	N/A	78	75	46-110	4	15	
alpha-Chlordane	0.0764	0.0758	0.100	0.100	N/A	76	76	46-110	1	15	
4,4'-DDE	0.0833	0.0811	0.100	0.100	N/A	83	81	39-129	3	15	
Endosulfan I	0.0859	0.0841	0.100	0.100	N/A	86	84	51-109	2	15	
Dieldrin	0.0934	0.0895	0.100	0.100	N/A	93	89	55-112	4	15	
Endrin	0.0972	0.0942	0.100	0.100	N/A	97	94	54-119	3	16	
4,4'-DDD	0.0943	0.0919	0.100	0.100	N/A	94	92	52-142	3	15	
Endosulfan II	0.0860	0.0813	0.100	0.100	N/A	86	81	49-115	6	15	
4,4'-DDT	0.0824	0.0870	0.100	0.100	N/A	82	87	52-136	5	15	
Endrin Aldehyde	0.0875	0.0821	0.100	0.100	N/A	87	82	39-128	6	15	
Methoxychlor	0.0882	0.0801	0.100	0.100	N/A	88	80	56-156	10	19	
Endosulfan Sulfate	0.0866	0.0829	0.100	0.100	N/A	87	83	44-120	4	15	
Endrin Ketone	0.101	0.0929	0.100	0.100	N/A	101	93	45-122	8	15	
Surrogate:											
TCMX						47	65	21-110			
DCB						80	79	42-113			



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TOTAL METALS
EPA 200.8/200.7/7470A
QUALITY CONTROL

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0520WH1					
Iron	ND	50	EPA 200.7	5-20-22	5-20-22	
Magnesium	ND	1000	EPA 200.7	5-20-22	5-20-22	
Manganese	ND	10	EPA 200.7	5-20-22	5-20-22	
Laboratory ID:	MB0524WM1					
Arsenic	ND	3.3	EPA 200.8	5-24-22	5-24-22	
Cadmium	ND	4.4	EPA 200.8	5-24-22	5-24-22	
Chromium	ND	11	EPA 200.8	5-24-22	5-24-22	
Copper	ND	11	EPA 200.8	5-24-22	5-24-22	
Lead	ND	1.1	EPA 200.8	5-24-22	5-24-22	
Nickel	ND	22	EPA 200.8	5-24-22	5-24-22	
Selenium	ND	5.6	EPA 200.8	5-24-22	5-24-22	
Zinc	ND	28	EPA 200.8	5-24-22	5-24-22	
Laboratory ID:	MB0523W1					
Mercury	ND	0.025	EPA 7470A	5-23-22	5-23-22	



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TOTAL METALS
EPA 200.8/200.7/7470A
QUALITY CONTROL

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags		
DUPLICATE										
Laboratory ID:	05-227-01									
	ORIG	DUP								
Iron	602	629	NA	NA	NA	NA	4	20		
Magnesium	14100	13200	NA	NA	NA	NA	7	20		
Manganese	287	276	NA	NA	NA	NA	4	20		
Laboratory ID:	05-223-01									
Arsenic	5.29	5.07	NA	NA	NA	NA	4	20		
Cadmium	ND	ND	NA	NA	NA	NA	NA	20		
Chromium	ND	ND	NA	NA	NA	NA	NA	20		
Copper	ND	ND	NA	NA	NA	NA	NA	20		
Lead	ND	ND	NA	NA	NA	NA	NA	20		
Nickel	ND	ND	NA	NA	NA	NA	NA	20		
Selenium	ND	ND	NA	NA	NA	NA	NA	20		
Zinc	ND	ND	NA	NA	NA	NA	NA	20		
Laboratory ID:	05-223-01									
Mercury	ND	ND	NA	NA	NA	NA	NA	20		
MATRIX SPIKES										
Laboratory ID:	05-227-01									
	MS	MSD	MS	MSD	MS	MSD				
Iron	20900	21100	20000	20000	602	101	102	75-125	1	20
Magnesium	31600	33100	20000	20000	14100	88	95	75-125	5	20
Manganese	721	809	500	500	287	87	104	75-125	12	20
Laboratory ID:	05-223-01									
Arsenic	117	119	111	111	5.29	101	103	75-125	2	20
Cadmium	108	107	111	111	ND	97	96	75-125	1	20
Chromium	107	106	111	111	ND	96	96	75-125	1	20
Copper	102	101	111	111	ND	92	91	75-125	1	20
Lead	101	99.6	111	111	ND	91	90	75-125	2	20
Nickel	104	103	111	111	ND	94	93	75-125	1	20
Selenium	111	111	111	111	ND	100	100	75-125	0	20
Zinc	111	113	111	111	ND	100	102	75-125	2	20
Laboratory ID:	05-223-01									
Mercury	5.65	5.63	6.25	6.25	ND	90	90	75-125	0	20



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**DISSOLVED METALS
 EPA 200.8/200.7/7470A
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0520D1					
Calcium	ND	1100	EPA 200.7		5-20-22	
Iron	ND	56	EPA 200.7		5-20-22	
Magnesium	ND	1100	EPA 200.7		5-20-22	
Manganese	ND	11	EPA 200.7		5-20-22	
Potassium	ND	1100	EPA 200.7		5-20-22	
Sodium	ND	1100	EPA 200.7		5-20-22	
Laboratory ID:	MB0524D1					
Arsenic	ND	3.0	EPA 200.8		5-24-22	
Cadmium	ND	4.0	EPA 200.8		5-24-22	
Chromium	ND	10	EPA 200.8		5-24-22	
Copper	ND	10	EPA 200.8		5-24-22	
Lead	ND	1.0	EPA 200.8		5-24-22	
Nickel	ND	20	EPA 200.8		5-24-22	
Selenium	ND	5.0	EPA 200.8		5-24-22	
Zinc	ND	25	EPA 200.8		5-24-22	
Laboratory ID:	MB0523D1					
Mercury	ND	0.025	EPA 7470A		5-23-22	



Date of Report: June 3, 2022
 Samples Submitted: May 19, 2022
 Laboratory Reference: 2205-228
 Project: 6694-002-05 T700

**DISSOLVED METALS
 EPA 200.8/200.7/7470A
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result		Spike Level		Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE										
Laboratory ID:	05-235-04									
	ORIG	DUP								
Calcium	25200	24900	NA	NA		NA	NA	1	20	
Iron	ND	ND	NA	NA		NA	NA	NA	20	
Magnesium	16100	16100	NA	NA		NA	NA	0	20	
Manganese	14.9	14.1	NA	NA		NA	NA	5	20	
Potassium	1630	1730	NA	NA		NA	NA	6	20	
Sodium	11800	11700	NA	NA		NA	NA	1	20	
Laboratory ID:	05-223-02									
Arsenic	ND	ND	NA	NA		NA	NA	NA	20	
Cadmium	ND	ND	NA	NA		NA	NA	NA	20	
Chromium	ND	ND	NA	NA		NA	NA	NA	20	
Copper	ND	ND	NA	NA		NA	NA	NA	20	
Lead	ND	ND	NA	NA		NA	NA	NA	20	
Nickel	ND	ND	NA	NA		NA	NA	NA	20	
Selenium	ND	ND	NA	NA		NA	NA	NA	20	
Zinc	ND	ND	NA	NA		NA	NA	NA	20	
Laboratory ID:	05-223-01									
Mercury	ND	ND	NA	NA		NA	NA	NA	20	
MATRIX SPIKES										
Laboratory ID:	05-235-04									
	MS	MSD	MS	MSD	MS	MSD				
Calcium	44300	44100	22200	22200	25200	86	85	75-125	1	20
Iron	21000	20900	22200	22200	ND	95	94	75-125	1	20
Magnesium	37100	36300	22200	22200	16100	95	91	75-125	2	20
Manganese	582	568	556	556	14.9	102	100	75-125	2	20
Potassium	24000	23900	22200	22200	1630	101	100	75-125	0	20
Sodium	32000	32000	22200	22200	11800	91	91	75-125	0	20
Laboratory ID:	05-223-02									
Arsenic	90.6	88.4	80.0	80.0	ND	113	111	75-125	2	20
Cadmium	79.2	79.2	80.0	80.0	ND	99	99	75-125	0	20
Chromium	73.2	71.8	80.0	80.0	ND	92	90	75-125	2	20
Copper	78.8	78.0	80.0	80.0	ND	99	98	75-125	1	20
Lead	76.4	75.0	80.0	80.0	ND	96	94	75-125	2	20
Nickel	79.0	76.8	80.0	80.0	ND	99	96	75-125	3	20
Selenium	87.6	85.2	80.0	80.0	ND	110	107	75-125	3	20
Zinc	82.8	80.4	80.0	80.0	ND	104	101	75-125	3	20
Laboratory ID:	05-223-01									
Mercury	5.80	5.88	6.25	6.25	ND	93	94	75-125	1	20



Date of Report: June 3, 2022
 Samples Submitted: May 19, 2022
 Laboratory Reference: 2205-228
 Project: 6694-002-05 T700

**TOTAL ALKALINITY
 SM 2320B
 QUALITY CONTROL**

Matrix: Water
 Units: mg CaCO₃/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0602W1					
Total Alkalinity	ND	2.0	SM 2320B	6-2-22	6-2-22	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	05-227-01							
	ORIG	DUP						
Total Alkalinity	122	122	NA	NA	NA	0	10	

SPIKE BLANK								
Laboratory ID:	SB0602W1							
	SB	SB		SB				
Total Alkalinity	94.0	100	NA	94	89-110	NA	NA	



Date of Report: June 3, 2022
 Samples Submitted: May 19, 2022
 Laboratory Reference: 2205-228
 Project: 6694-002-05 T700

**BICARBONATE
 SM 2320B
 QUALITY CONTROL**

Matrix: Water
 Units: mg CaCO₃/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0602W1					
Bicarbonate	1.0	2.0	SM 2320B	6-2-22	6-2-22	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	05-227-01							
	ORIG	DUP						
Bicarbonate	122	122	NA	NA	NA	0	10	

SPIKE BLANK								
Laboratory ID:	SB0602W1							
	SB	SB		SB				
Bicarbonate	94.0	100	NA	94	89-110	NA	NA	



Date of Report: June 3, 2022
 Samples Submitted: May 19, 2022
 Laboratory Reference: 2205-228
 Project: 6694-002-05 T700

**TOTAL DISSOLVED SOLIDS
 SM 2540C
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0524W1					
Total Dissolved Solids	ND	13	SM 2540C	5-24-22	5-31-22	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	05-229-01							
	ORIG	DUP						
Total Dissolved Solids	304	304	NA	NA	NA	0	23	

SPIKE BLANK								
Laboratory ID:	SB0524W1							
	SB	SB		SB				
Total Dissolved Solids	472	500	NA	94	89-110	NA	NA	



Date of Report: June 3, 2022
 Samples Submitted: May 19, 2022
 Laboratory Reference: 2205-228
 Project: 6694-002-05 T700

**CHLORIDE
 SM 4500-Cl E
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0524W1					
Chloride	ND	2.0	SM 4500-Cl E	5-24-22	5-24-22	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	05-227-01							
	ORIG	DUP						
Chloride	6.94	7.11	NA	NA	NA	2	11	

MATRIX SPIKE								
Laboratory ID:	05-227-01							
	MS	MS		MS				
Chloride	57.3	50.0	6.94	101	90-121	NA	NA	

SPIKE BLANK								
Laboratory ID:	SB0524W1							
	SB	SB		SB				
Chloride	52.1	50.0	NA	104	90-119	NA	NA	



Date of Report: June 3, 2022
 Samples Submitted: May 19, 2022
 Laboratory Reference: 2205-228
 Project: 6694-002-05 T700

**NITRATE (as Nitrogen)
 EPA 353.2
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L-N

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0531W1					
Nitrate	ND	0.050	EPA 353.2	5-31-22	5-31-22	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	05-227-01							
	ORIG	DUP						
Nitrate	ND	ND	NA	NA	NA	NA	10	

MATRIX SPIKE								
Laboratory ID:	05-227-01							
	MS	MS		MS				
Nitrate	2.03	2.00	ND	102	88-125	NA	NA	

SPIKE BLANK								
Laboratory ID:	SB0531W1							
	SB	SB		SB				
Nitrate	1.96	2.00	NA	98	90-120	NA	NA	



Date of Report: June 3, 2022
 Samples Submitted: May 19, 2022
 Laboratory Reference: 2205-228
 Project: 6694-002-05 T700

**SULFATE
 ASTM D516-11
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0523W1					
Sulfate	ND	5.0	ASTM D516-11	5-23-22	5-23-22	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	05-235-04							
	ORIG	DUP						
Sulfate	16.5	16.7	NA	NA	NA	1	10	

SPIKE BLANK								
Laboratory ID:	SB0523W1							
	SB	SB		SB				
Sulfate	10.0	10.0	NA	100	85-114	NA	NA	

MATRIX SPIKE								
Laboratory ID:	05-235-04							
	MS	MS		MS				
Sulfate	36.3	20.0	16.5	99	72-128	NA	NA	



Date of Report: June 3, 2022
 Samples Submitted: May 19, 2022
 Laboratory Reference: 2205-228
 Project: 6694-002-05 T700

**AMMONIA (as Nitrogen)
 SM 4500-NH₃ D
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0526W1					
Ammonia	ND	0.050	SM 4500-NH3 D	5-26-22	5-26-22	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	05-227-01							
	ORIG	DUP						
Ammonia	ND	ND	NA	NA	NA	NA	15	

MATRIX SPIKE								
Laboratory ID:	05-227-01							
	MS	MS		MS				
Ammonia	4.69	5.00	ND	94	87-110	NA	NA	

SPIKE BLANK								
Laboratory ID:	SB0526W1							
	SB	SB		SB				
Ammonia	4.65	5.00	NA	93	88-110	NA	NA	





Data Qualifiers and Abbreviations

- A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.
- B - The analyte indicated was also found in the blank sample.
- C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.
- E - The value reported exceeds the quantitation range and is an estimate.
- F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.
- H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.
- I - Compound recovery is outside of the control limits.
- J - The value reported was below the practical quantitation limit. The value is an estimate.
- K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.
- L - The RPD is outside of the control limits.
- M - Hydrocarbons in the gasoline range are impacting the diesel range result.
- M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.
- N - Hydrocarbons in the lube oil range are impacting the diesel range result.
- N1 - Hydrocarbons in diesel range are impacting lube oil range results.
- O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.
- P - The RPD of the detected concentrations between the two columns is greater than 40.
- Q - Surrogate recovery is outside of the control limits.
- S - Surrogate recovery data is not available due to the necessary dilution of the sample.
- T - The sample chromatogram is not similar to a typical _____.
- U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
- U1 - The practical quantitation limit is elevated due to interferences present in the sample.
- V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.
- W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.
- X - Sample extract treated with a mercury cleanup procedure.
- X1 - Sample extract treated with a sulfuric acid/silica gel cleanup procedure.
- Y - The calibration verification for this analyte exceeded the 20% drift specified in methods 8260 & 8270, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.

Z -

ND - Not Detected at PQL
 PQL - Practical Quantitation Limit
 RPD - Relative Percent Difference





OnSite Environmental Inc

David Baumeister
14648 NE 95th Street
Redmond, WA 98052

RE: 05-228

Work Order Number: 2205408

Attention David Baumeister:

Fremont Analytical, Inc. received 1 sample(s) on 5/20/2022 for the analyses presented in the following report.

Herbicides by EPA Method 8151A (GC/MS)

This report consists of the following:

- Case Narrative
- Analytical Results
- Applicable Quality Control Summary Reports
- Chain of Custody

All analyses were performed consistent with the Quality Assurance program of Fremont Analytical, Inc. Please contact the laboratory if you should have any questions about the results.

Thank you for using Fremont Analytical.

Sincerely,

Brianna Barnes
Project Manager



CLIENT: OnSite Environmental Inc
Project: 05-228
Work Order: 2205408

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received
2205408-001	MW-9-20220519	05/19/2022 12:00 AM	05/20/2022 12:09 PM

DRAFT

Note: If no "Time Collected" is supplied, a default of 12:00AM is assigned

CLIENT: OnSite Environmental Inc

Project: 05-228

I. SAMPLE RECEIPT:

Samples receipt information is recorded on the attached Sample Receipt Checklist.

II. GENERAL REPORTING COMMENTS:

Results are reported on a wet weight basis unless dry-weight correction is denoted in the units field on the analytical report ("mg/kg-dry" or "ug/kg-dry").

Matrix Spike (MS) and MS Duplicate (MSD) samples are tested from an analytical batch of "like" matrix to check for possible matrix effect. The MS and MSD will provide site specific matrix data only for those samples which are spiked by the laboratory. The sample chosen for spike purposes may or may not have been a sample submitted in this sample delivery group. The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The LCS and the MB are processed with the samples and the MS/MSD to ensure method criteria are achieved throughout the entire analytical process.

III. ANALYSES AND EXCEPTIONS:

Exceptions associated with this report will be footnoted in the analytical results page(s) or the quality control summary page(s) and/or noted below.

DRAFT

Qualifiers:

- * - Flagged value is not within established control limits
- B - Analyte detected in the associated Method Blank
- D - Dilution was required
- E - Value above quantitation range
- H - Holding times for preparation or analysis exceeded
- I - Analyte with an internal standard that does not meet established acceptance criteria
- J - Analyte detected below Reporting Limit
- N - Tentatively Identified Compound (TIC)
- Q - Analyte with an initial or continuing calibration that does not meet established acceptance criteria
- S - Spike recovery outside accepted recovery limits
- ND - Not detected at the Reporting Limit
- R - High relative percent difference observed

Acronyms:

- %Rec - Percent Recovery
- CCB - Continued Calibration Blank
- CCV - Continued Calibration Verification
- DF - Dilution Factor
- DUP - Sample Duplicate
- HEM - Hexane Extractable Material
- ICV - Initial Calibration Verification
- LCS/LCSD - Laboratory Control Sample / Laboratory Control Sample Duplicate
- MCL - Maximum Contaminant Level
- MB or MBLANK - Method Blank
- MDL - Method Detection Limit
- MS/MSD - Matrix Spike / Matrix Spike Duplicate
- PDS - Post Digestion Spike
- Ref Val - Reference Value
- REP - Sample Replicate
- RL - Reporting Limit
- RPD - Relative Percent Difference
- SD - Serial Dilution
- SGT - Silica Gel Treatment
- SPK - Spike
- Surr - Surrogate



Client: OnSite Environmental Inc
Project: 05-228
Lab ID: 2205408-001
Client Sample ID: MW-9-20220519

Collection Date: 5/19/2022
Matrix: Water

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Herbicides by EPA Method 8151A (GC/MS)

Batch ID: 36570 Analyst: OK

Dicamba	ND	0.992		µg/L	1	5/27/2022 5:39:26 PM
2,4-D	ND	0.992		µg/L	1	5/27/2022 5:39:26 PM
2,4-DP	ND	0.992		µg/L	1	5/27/2022 5:39:26 PM
2,4,5-TP (Silvex)	ND	0.992		µg/L	1	5/27/2022 5:39:26 PM
2,4,5-T	ND	0.992		µg/L	1	5/27/2022 5:39:26 PM
Dinoseb	ND	0.992		µg/L	1	5/27/2022 5:39:26 PM
Dalapon	ND	1.98	Q	µg/L	1	5/27/2022 5:39:26 PM
2,4-DB	ND	0.992		µg/L	1	5/27/2022 5:39:26 PM
MCPP	ND	4.96		µg/L	1	5/27/2022 5:39:26 PM
MCPA	ND	4.96		µg/L	1	5/27/2022 5:39:26 PM
Picloram	ND	0.992		µg/L	1	5/27/2022 5:39:26 PM
Bentazon	ND	0.992		µg/L	1	5/27/2022 5:39:26 PM
Chloramben	ND	0.992		µg/L	1	5/27/2022 5:39:26 PM
Acifluorfen	ND	4.96		µg/L	1	5/27/2022 5:39:26 PM
3,5-Dichlorobenzoic acid	ND	0.992		µg/L	1	5/27/2022 5:39:26 PM
4-Nitrophenol	ND	0.992		µg/L	1	5/27/2022 5:39:26 PM
Dacthal (DCPA)	ND	1.98		µg/L	1	5/27/2022 5:39:26 PM
Surr: 2,4-Dichlorophenylacetic acid	95.2	65.7 - 136		%Rec	1	5/27/2022 5:39:26 PM

NOTES:

Q - Associated calibration verification is below acceptance criteria. Result may be low-biased.

Work Order: 2205408
 CLIENT: OnSite Environmental Inc
 Project: 05-228

QC SUMMARY REPORT
Herbicides by EPA Method 8151A (GC/MS)

Sample ID: MB-36570	SampType: MBLK	Units: µg/L	Prep Date: 5/24/2022	RunNo: 75778							
Client ID: MBLKW	Batch ID: 36570		Analysis Date: 5/27/2022	SeqNo: 1554615							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Dicamba	ND	0.992									
2,4-D	ND	0.992									
2,4-DP	ND	0.992									
2,4,5-TP (Silvex)	ND	0.992									
2,4,5-T	ND	0.992									
Dinoseb	ND	0.992									
Dalapon	ND	1.98									Q
2,4-DB	ND	0.992									
MCPP	ND	4.96									
MCPA	ND	4.96									
Picloram	ND	0.992									
Bentazon	ND	0.992									
Chloramben	ND	0.992									
Acifluorfen	ND	4.96									
3,5-Dichlorobenzoic acid	ND	0.992									
4-Nitrophenol	ND	0.992									
Dacthal (DCPA)	ND	1.98									
Surr: 2,4-Dichlorophenylacetic acid	18.2		19.84		91.6	65.7	136				

NOTES:

Q - Associated calibration verification is below acceptance criteria. Result may be low-biased.

Sample ID: LCS-36570	SampType: LCS	Units: µg/L	Prep Date: 5/24/2022	RunNo: 75778							
Client ID: LCSW	Batch ID: 36570		Analysis Date: 5/27/2022	SeqNo: 1554616							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Dicamba	4.06	0.997	3.987	0	102	16.6	148				
2,4-D	5.17	0.997	3.987	0	130	50.4	150				
2,4-DP	4.50	0.997	3.987	0	113	53	135				
2,4,5-TP (Silvex)	4.97	0.997	3.987	0	125	53.6	140				
2,4,5-T	5.20	0.997	3.987	0	130	50	141				
Dinoseb	4.65	0.997	3.987	0	117	5	119				
Dalapon	10.9	1.99	19.93	0	54.7	5.65	97.2				

Work Order: 2205408
 CLIENT: OnSite Environmental Inc
 Project: 05-228

QC SUMMARY REPORT
Herbicides by EPA Method 8151A (GC/MS)

Sample ID: LCS-36570	SampType: LCS	Units: µg/L			Prep Date: 5/24/2022	RunNo: 75778					
Client ID: LCSW	Batch ID: 36570				Analysis Date: 5/27/2022	SeqNo: 1554616					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
2,4-DB	5.62	0.997	3.987	0	141	54.9	141				
MCPP	17.7	4.98	19.93	0	88.7	28.7	166				
MCPA	17.9	4.98	19.93	0	89.8	20.7	176				
Picloram	3.97	0.997	3.987	0	99.5	9.72	120				
Bentazon	5.11	0.997	3.987	0	128	41.2	141				
Chloramben	3.59	0.997	3.987	0	90.1	5	109				
Acifluorfen	4.43	4.98	3.987	0	111	7.62	139				
3,5-Dichlorobenzoic acid	4.09	0.997	3.987	0	103	52.4	120				
4-Nitrophenol	3.88	0.997	3.987	0	97.2	5	107				
Dacthal (DCPA)	2.10	1.99	3.987	0	52.8	5	65.4				
Surr: 2,4-Dichlorophenylacetic acid	19.1		19.93		96.0	65.7	136				

Sample ID: LCSD-36570	SampType: LCSD	Units: µg/L			Prep Date: 5/24/2022	RunNo: 75778					
Client ID: LCSW02	Batch ID: 36570				Analysis Date: 5/27/2022	SeqNo: 1554617					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dicamba	4.15	0.998	3.992	0	104	16.6	148	4.060	2.25	30	
2,4-D	5.21	0.998	3.992	0	131	50.4	150	5.174	0.694	30	
2,4-DP	4.57	0.998	3.992	0	114	53	135	4.501	1.47	30	
2,4,5-TP (Silvex)	5.06	0.998	3.992	0	127	53.6	140	4.968	1.92	30	
2,4,5-T	5.20	0.998	3.992	0	130	50	141	5.198	0.110	30	
Dinoseb	5.32	0.998	3.992	0	133	5	119	4.645	13.6	30	S
Dalapon	11.4	2.00	19.96	0	57.2	5.65	97.2	10.90	4.57	30	
2,4-DB	5.59	0.998	3.992	0	140	54.9	141	5.617	0.467	30	
MCPP	18.0	4.99	19.96	0	89.9	28.7	166	17.69	1.48	30	
MCPA	17.9	4.99	19.96	0	89.8	20.7	176	17.89	0.184	30	
Picloram	4.03	0.998	3.992	0	101	9.72	120	3.968	1.47	30	
Bentazon	5.14	0.998	3.992	0	129	41.2	141	5.107	0.687	30	
Chloramben	3.93	0.998	3.992	0	98.4	5	109	3.592	8.91	30	
Acifluorfen	4.94	4.99	3.992	0	124	7.62	139	0		30	
3,5-Dichlorobenzoic acid	4.23	0.998	3.992	0	106	52.4	120	4.090	3.25	30	

Work Order: 2205408
 CLIENT: OnSite Environmental Inc
 Project: 05-228

QC SUMMARY REPORT
Herbicides by EPA Method 8151A (GC/MS)

Sample ID: LCS D-36570	SampType: LCS D	Units: µg/L	Prep Date: 5/24/2022	RunNo: 75778							
Client ID: LCSW02	Batch ID: 36570		Analysis Date: 5/27/2022	SeqNo: 1554617							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
4-Nitrophenol	2.32	0.998	3.992	0	58.2	5	107	3.875	50.1	30	R
Dacthal (DCPA)	2.14	2.00	3.992	0	53.7	5	65.4	2.104	1.86	30	
Surr: 2,4-Dichlorophenylacetic acid	19.7		19.96		98.5	65.7	136		0		

NOTES:

S - Outlying spike recovery observed (high bias). A duplicate analysis was performed and recovered within range.
 R - High RPD observed, spike recovery is within range.

Sample ID: 2205407-001AMS	SampType: MS	Units: µg/L	Prep Date: 5/24/2022	RunNo: 75778							
Client ID: BATCH	Batch ID: 36570		Analysis Date: 5/27/2022	SeqNo: 1554619							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dicamba	3.93	0.996	3.984	0	98.6	31	142				
2,4-D	4.58	0.996	3.984	0	115	50.3	149				
2,4-DP	4.33	0.996	3.984	0	109	49.9	143				
2,4,5-TP (Silvex)	4.84	0.996	3.984	0	122	47.7	141				
2,4,5-T	4.87	0.996	3.984	0	122	34.4	139				
Dinoseb	5.29	0.996	3.984	0	133	27.3	117				S
Dalapon	10.4	1.99	19.92	0	52.1	14.2	113				
2,4-DB	5.23	0.996	3.984	0	131	31.3	147				
MCPPP	17.1	4.98	19.92	0	85.9	30.5	177				
MCPA	17.1	4.98	19.92	0	86.0	36.8	163				
Picloram	3.98	0.996	3.984	0	99.8	18.8	115				
Bentazon	5.06	0.996	3.984	0	127	11.9	176				
Chloramben	3.37	0.996	3.984	0	84.5	5	112				
Acifluorfen	5.11	4.98	3.984	0	128	28.1	146				
3,5-Dichlorobenzoic acid	3.99	0.996	3.984	0	100	36.2	146				
4-Nitrophenol	1.77	0.996	3.984	0	44.5	5	116				
Dacthal (DCPA)	1.75	1.99	3.984	0	44.0	5	84.6				
Surr: 2,4-Dichlorophenylacetic acid	18.8		19.92		94.5	65.7	136				

NOTES:

S - Outlying spike recoveries were associated with this sample.

Client Name: ONSITE

Work Order Number: 2205408

Logged by: Clare Griggs

Date Received: 5/20/2022 12:09:00 PM

Chain of Custody

1. Is Chain of Custody complete? Yes No Not Present
2. How was the sample delivered? Client

Log In

3. Coolers are present? Yes No NA
4. Shipping container/cooler in good condition? Yes No
5. Custody Seals present on shipping container/cooler?
(Refer to comments for Custody Seals not intact) Yes No Not Present
6. Was an attempt made to cool the samples? Yes No NA
7. Were all items received at a temperature of >2°C to 6°C * Yes No NA
8. Sample(s) in proper container(s)? Yes No
9. Sufficient sample volume for indicated test(s)? Yes No
10. Are samples properly preserved? Yes No
11. Was preservative added to bottles? Yes No NA
12. Is there headspace in the VOA vials? Yes No NA
13. Did all samples containers arrive in good condition(unbroken)? Yes No
14. Does paperwork match bottle labels? Yes No
15. Are matrices correctly identified on Chain of Custody? Yes No
16. Is it clear what analyses were requested? Yes No
17. Were all holding times able to be met? Yes No

Special Handling (if applicable)

18. Was client notified of all discrepancies with this order? Yes No NA

Person Notified:	<input type="text"/>	Date:	<input type="text"/>
By Whom:	<input type="text"/>	Via:	<input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:	<input type="text"/>		
Client Instructions:	<input type="text"/>		

19. Additional remarks:

Item Information

Item #	Temp °C
Sample	5.6

* Note: DoD/ELAP and TNI require items to be received at 4°C +/- 2°C

14648 NE 95th Street, Redmond, WA 98052 · (425) 883-3881

2205408

 Laboratory Reference #: 05-228

Laboratory: Fremont Analytical

Turnaround Request

Project Manager: David Baumeister

Attention: Chelsea Ward

1 Day 2 Day 3 Day

 email: dbaumeister@onsite-env.com

3600 Fremont Avenue N, Seattle, WA 98103

Standard

 Project Number: 6694-002-05

Phone Number: (206) 352-3790

Other: _____

Project Name: _____

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	# of Cont.	Requested Analyses
	MW-9-20220519	5/19/22		W	1	Chlorinated Acid Herbicides 8151
Signature	Company	Date	Time	Comments/Special Instructions		
Relinquished by: <i>[Signature]</i>	<i>OSE</i>	<i>5/20/22</i>	<i>1040</i>	EDDs		
Received by: <i>[Signature]</i>	<i>ACPHA</i>	<i>5/20/22</i>	<i>1040</i>			
Relinquished by: <i>[Signature]</i>	<i>ACPHA</i>	<i>5/20/22</i>	<i>1205</i>			
Received by: <i>Jay Chen</i>	<i>Fremont</i>	<i>5/20/22</i>	<i>12:09</i>			
Relinquished by:						
Received by:						

Chain of Custody

Company: <u>LEI</u> Project Number: <u>6694-002-05</u> Project Name: <u>HO-East</u> Project Manager: <u>Garrett Leung</u> Sampled by: <u>WDS + JDE</u>		Turnaround Request (in working days) (Check One) <input type="checkbox"/> Same Day <input type="checkbox"/> 1 Day <input type="checkbox"/> 2 Days <input type="checkbox"/> 3 Days <input checked="" type="checkbox"/> Standard (7 Days) <input type="checkbox"/> _____ (other)		Number of Containers	Laboratory Number: 05-228																						
Lab ID	Sample Identification	Date Sampled	Time Sampled		Matrix	NWTPH-HCID	NWTPH-Gx/BTEX (8021 <input type="checkbox"/> 8260 <input type="checkbox"/>)	NWTPH-Gx	NWTPH-Dx (Acid / SG Clean-up <input type="checkbox"/>)	Volatiles 8260	Halogenated Volatiles 8260	EDB EPA 8011 (Waters Only)	Semivolatiles 8270/SIM (with low-level PAHs)	PAHs 8270/SIM (low-level)	PCBs 8082	Organochlorine Pesticides 8081	Organophosphorus Pesticides 8270/SIM	Chlorinated Acid Herbicides 8151	Total FCRA Metals <i>Dissolved</i>	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664	TDS	Cl, NO ₃ , SO ₄ , NH ₃	Dissolved Ca, Mg, Na	Alkalinity, Bicarbonate % Moisture	
1	MW-9-20220519	5/16/22	1320		water <i>19</i> <i>AW</i> <i>5/16/22</i>			X	X	X			X		X	X		X	X				X	X	X	ⓧ	
Relinquished		Signature <u>[Signature]</u>			Company <u>LEI</u>		Date <u>5/16/22</u> Time <u>1320</u>		Comments/Special Instructions <u>ⓧ Added 6/1/22 NB (STA)</u> <u>See Garrett for full list of analyses</u> <u>↳ total Diss (acid filtered) metals = As, Cd, Cr, Cu, Fe, Pb, Mn, Hg, Ni, Se, Zn, Mg</u>																		
Received		Signature _____		Company _____		Date _____ Time _____		Data Package: Standard <input type="checkbox"/> Level III <input type="checkbox"/> Level IV <input type="checkbox"/>																			
Relinquished		Signature _____		Company <u>COSE</u>		Date <u>5/16/22</u> Time <u>1600</u>		Chromatograms with final report <input type="checkbox"/> Electronic Data Deliverables (EDDs) <input type="checkbox"/>																			
Received		Signature _____		Company _____		Date _____ Time _____																					
Reviewed/Date		Signature _____		Company _____		Date _____ Time _____																					



14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

June 3, 2022

Garrett Leque
GeoEngineers, Inc.
554 West Bakerview Road
Bellingham, WA 98226

Re: Analytical Data for Project 6694-002-05 T700
Laboratory Reference No. 2205-229

Dear Garrett:

Enclosed are the analytical results and associated quality control data for samples submitted on May 19, 2022.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

A handwritten signature in black ink, appearing to read "DB", with a horizontal line extending to the right.

David Baumeister
Project Manager

Enclosures



Date of Report: June 3, 2022
Samples Submitted: May 19, 2022
Laboratory Reference: 2205-229
Project: 6694-002-05 T700

Case Narrative

Samples were collected on May 19, 2022 and received by the laboratory on May 19, 2022. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

Organochlorine Pesticides by EPA 8081B Analysis

The Aldrin RPD result (22%) was above the quality control limit of 15%. Due to the fact the sample was non-detect for this analyte and all other QC was within quality control limits, no further action was performed.

Any other QA/QC issues associated with this extraction and analysis will be indicated with a footnote reference and discussed in detail on the Data Qualifier page.



Date of Report: June 3, 2022
Samples Submitted: May 19, 2022
Laboratory Reference: 2205-229
Project: 6694-002-05 T700

ANALYTICAL REPORT FOR SAMPLES

Client ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
MW-10-20220519	05-229-01	Water	5-19-22	5-19-22	

DRAFT



Date of Report: June 3, 2022
 Samples Submitted: May 19, 2022
 Laboratory Reference: 2205-229
 Project: 6694-002-05 T700

GASOLINE RANGE ORGANICS
NWTPH-Gx

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-10-20220519					
Laboratory ID:	05-229-01					
Gasoline	ND	100	NWTPH-Gx	5-20-22	5-20-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	91	65-122				



Date of Report: June 3, 2022
 Samples Submitted: May 19, 2022
 Laboratory Reference: 2205-229
 Project: 6694-002-05 T700

**DIESEL AND HEAVY OIL RANGE ORGANICS
 NWTPH-Dx**

Matrix: Water
 Units: mg/L (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-10-20220519					
Laboratory ID:	05-229-01					
Diesel Range Organics	ND	0.10	NWTPH-Dx	5-20-22	5-20-22	
Lube Oil Range Organics	ND	0.20	NWTPH-Dx	5-20-22	5-20-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	87	50-150				



Date of Report: June 3, 2022
 Samples Submitted: May 19, 2022
 Laboratory Reference: 2205-229
 Project: 6694-002-05 T700

VOLATILE ORGANICS EPA 8260D

page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-10-20220519					
Laboratory ID:	05-229-01					
Dichlorodifluoromethane	ND	0.20	EPA 8260D	5-20-22	5-20-22	
Chloromethane	ND	1.0	EPA 8260D	5-20-22	5-20-22	
Vinyl Chloride	ND	0.20	EPA 8260D	5-20-22	5-20-22	
Bromomethane	ND	0.30	EPA 8260D	5-20-22	5-20-22	
Chloroethane	ND	1.0	EPA 8260D	5-20-22	5-20-22	
Trichlorofluoromethane	ND	0.20	EPA 8260D	5-20-22	5-20-22	
1,1-Dichloroethene	ND	0.20	EPA 8260D	5-20-22	5-20-22	
Acetone	ND	5.0	EPA 8260D	5-20-22	5-20-22	
Iodomethane	ND	3.8	EPA 8260D	5-20-22	5-20-22	
Carbon Disulfide	ND	0.20	EPA 8260D	5-20-22	5-20-22	
Methylene Chloride	ND	1.0	EPA 8260D	5-20-22	5-20-22	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	5-20-22	5-20-22	
Methyl t-Butyl Ether	ND	0.20	EPA 8260D	5-20-22	5-20-22	
1,1-Dichloroethane	ND	0.20	EPA 8260D	5-20-22	5-20-22	
Vinyl Acetate	ND	1.0	EPA 8260D	5-20-22	5-20-22	
2,2-Dichloropropane	ND	0.20	EPA 8260D	5-20-22	5-20-22	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	5-20-22	5-20-22	
2-Butanone	ND	5.0	EPA 8260D	5-20-22	5-20-22	
Bromochloromethane	ND	0.20	EPA 8260D	5-20-22	5-20-22	
Chloroform	ND	0.20	EPA 8260D	5-20-22	5-20-22	
1,1,1-Trichloroethane	ND	0.20	EPA 8260D	5-20-22	5-20-22	
Carbon Tetrachloride	ND	0.20	EPA 8260D	5-20-22	5-20-22	
1,1-Dichloropropene	ND	0.20	EPA 8260D	5-20-22	5-20-22	
Benzene	ND	0.20	EPA 8260D	5-20-22	5-20-22	
1,2-Dichloroethane	ND	0.20	EPA 8260D	5-20-22	5-20-22	
Trichloroethene	ND	0.20	EPA 8260D	5-20-22	5-20-22	
1,2-Dichloropropane	ND	0.20	EPA 8260D	5-20-22	5-20-22	
Dibromomethane	ND	0.20	EPA 8260D	5-20-22	5-20-22	
Bromodichloromethane	ND	0.20	EPA 8260D	5-20-22	5-20-22	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260D	5-20-22	5-20-22	
Methyl Isobutyl Ketone	ND	2.0	EPA 8260D	5-20-22	5-20-22	
Toluene	ND	1.0	EPA 8260D	5-20-22	5-20-22	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260D	5-20-22	5-20-22	



Date of Report: June 3, 2022
 Samples Submitted: May 19, 2022
 Laboratory Reference: 2205-229
 Project: 6694-002-05 T700

VOLATILE ORGANICS EPA 8260D

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-10-20220519					
Laboratory ID:	05-229-01					
1,1,2-Trichloroethane	ND	0.20	EPA 8260D	5-20-22	5-20-22	
Tetrachloroethene	ND	0.20	EPA 8260D	5-20-22	5-20-22	
1,3-Dichloropropane	ND	0.20	EPA 8260D	5-20-22	5-20-22	
2-Hexanone	ND	2.0	EPA 8260D	5-20-22	5-20-22	
Dibromochloromethane	ND	0.20	EPA 8260D	5-20-22	5-20-22	
1,2-Dibromoethane	ND	0.20	EPA 8260D	5-20-22	5-20-22	
Chlorobenzene	ND	0.20	EPA 8260D	5-20-22	5-20-22	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260D	5-20-22	5-20-22	
Ethylbenzene	ND	0.20	EPA 8260D	5-20-22	5-20-22	
m,p-Xylene	ND	0.40	EPA 8260D	5-20-22	5-20-22	
o-Xylene	ND	0.20	EPA 8260D	5-20-22	5-20-22	
Styrene	ND	0.20	EPA 8260D	5-20-22	5-20-22	
Bromoform	ND	1.0	EPA 8260D	5-20-22	5-20-22	
Isopropylbenzene	ND	0.20	EPA 8260D	5-20-22	5-20-22	
Bromobenzene	ND	0.20	EPA 8260D	5-20-22	5-20-22	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260D	5-20-22	5-20-22	
1,2,3-Trichloropropane	ND	0.20	EPA 8260D	5-20-22	5-20-22	
n-Propylbenzene	ND	0.20	EPA 8260D	5-20-22	5-20-22	
2-Chlorotoluene	ND	0.20	EPA 8260D	5-20-22	5-20-22	
4-Chlorotoluene	ND	0.20	EPA 8260D	5-20-22	5-20-22	
1,3,5-Trimethylbenzene	ND	0.20	EPA 8260D	5-20-22	5-20-22	
tert-Butylbenzene	ND	0.20	EPA 8260D	5-20-22	5-20-22	
1,2,4-Trimethylbenzene	ND	0.20	EPA 8260D	5-20-22	5-20-22	
sec-Butylbenzene	ND	0.20	EPA 8260D	5-20-22	5-20-22	
1,3-Dichlorobenzene	ND	0.20	EPA 8260D	5-20-22	5-20-22	
p-Isopropyltoluene	0.27	0.20	EPA 8260D	5-20-22	5-20-22	
1,4-Dichlorobenzene	ND	0.20	EPA 8260D	5-20-22	5-20-22	
1,2-Dichlorobenzene	ND	0.20	EPA 8260D	5-20-22	5-20-22	
n-Butylbenzene	ND	0.20	EPA 8260D	5-20-22	5-20-22	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260D	5-20-22	5-20-22	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260D	5-20-22	5-20-22	
Hexachlorobutadiene	ND	1.0	EPA 8260D	5-20-22	5-20-22	
Naphthalene	ND	1.0	EPA 8260D	5-20-22	5-20-22	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260D	5-20-22	5-20-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>103</i>	<i>75-127</i>				
<i>Toluene-d8</i>	<i>102</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>97</i>	<i>78-125</i>				



Date of Report: June 3, 2022
 Samples Submitted: May 19, 2022
 Laboratory Reference: 2205-229
 Project: 6694-002-05 T700

SEMIVOLATILE ORGANICS EPA 8270E/SIM
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-10-20220519					
Laboratory ID:	05-229-01					
n-Nitrosodimethylamine	ND	0.95	EPA 8270E	5-23-22	5-23-22	
Pyridine	ND	0.95	EPA 8270E	5-23-22	5-23-22	
Phenol	ND	0.95	EPA 8270E	5-23-22	5-23-22	
Aniline	ND	4.7	EPA 8270E	5-23-22	5-23-22	
bis(2-Chloroethyl)ether	ND	0.95	EPA 8270E	5-23-22	5-23-22	
2-Chlorophenol	ND	0.95	EPA 8270E	5-23-22	5-23-22	
1,3-Dichlorobenzene	ND	0.95	EPA 8270E	5-23-22	5-23-22	
1,4-Dichlorobenzene	ND	0.95	EPA 8270E	5-23-22	5-23-22	
Benzyl alcohol	ND	0.95	EPA 8270E	5-23-22	5-23-22	
1,2-Dichlorobenzene	ND	0.95	EPA 8270E	5-23-22	5-23-22	
2-Methylphenol (o-Cresol)	ND	0.95	EPA 8270E	5-23-22	5-23-22	
bis(2-Chloroisopropyl)ether	ND	0.95	EPA 8270E	5-23-22	5-23-22	
(3+4)-Methylphenol (m,p-Cresol)	ND	0.95	EPA 8270E	5-23-22	5-23-22	
n-Nitroso-di-n-propylamine	ND	0.95	EPA 8270E	5-23-22	5-23-22	
Hexachloroethane	ND	0.95	EPA 8270E	5-23-22	5-23-22	
Nitrobenzene	ND	0.95	EPA 8270E	5-23-22	5-23-22	
Isophorone	ND	0.95	EPA 8270E	5-23-22	5-23-22	
2-Nitrophenol	ND	0.95	EPA 8270E	5-23-22	5-23-22	
2,4-Dimethylphenol	ND	0.95	EPA 8270E	5-23-22	5-23-22	
bis(2-Chloroethoxy)methane	ND	0.95	EPA 8270E	5-23-22	5-23-22	
2,4-Dichlorophenol	ND	0.95	EPA 8270E	5-23-22	5-23-22	
1,2,4-Trichlorobenzene	ND	0.95	EPA 8270E	5-23-22	5-23-22	
Naphthalene	ND	0.095	EPA 8270E/SIM	5-23-22	5-23-22	
4-Chloroaniline	ND	0.95	EPA 8270E	5-23-22	5-23-22	
Hexachlorobutadiene	ND	0.95	EPA 8270E	5-23-22	5-23-22	
4-Chloro-3-methylphenol	ND	0.95	EPA 8270E	5-23-22	5-23-22	
2-Methylnaphthalene	ND	0.095	EPA 8270E/SIM	5-23-22	5-23-22	
1-Methylnaphthalene	ND	0.095	EPA 8270E/SIM	5-23-22	5-23-22	
Hexachlorocyclopentadiene	ND	0.95	EPA 8270E	5-23-22	5-23-22	
2,4,6-Trichlorophenol	ND	0.95	EPA 8270E	5-23-22	5-23-22	
2,3-Dichloroaniline	ND	0.95	EPA 8270E	5-23-22	5-23-22	
2,4,5-Trichlorophenol	ND	0.95	EPA 8270E	5-23-22	5-23-22	
2-Chloronaphthalene	ND	0.95	EPA 8270E	5-23-22	5-23-22	
2-Nitroaniline	ND	0.95	EPA 8270E	5-23-22	5-23-22	
1,4-Dinitrobenzene	ND	0.95	EPA 8270E	5-23-22	5-23-22	
Dimethylphthalate	ND	4.7	EPA 8270E	5-23-22	5-23-22	
1,3-Dinitrobenzene	ND	0.95	EPA 8270E	5-23-22	5-23-22	
2,6-Dinitrotoluene	ND	0.95	EPA 8270E	5-23-22	5-23-22	
1,2-Dinitrobenzene	ND	0.95	EPA 8270E	5-23-22	5-23-22	
Acenaphthylene	ND	0.095	EPA 8270E/SIM	5-23-22	5-23-22	
3-Nitroaniline	ND	0.95	EPA 8270E	5-23-22	5-23-22	



Date of Report: June 3, 2022
 Samples Submitted: May 19, 2022
 Laboratory Reference: 2205-229
 Project: 6694-002-05 T700

SEMIVOLATILE ORGANICS EPA 8270E/SIM
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-10-20220519					
Laboratory ID:	05-229-01					
2,4-Dinitrophenol	ND	11	EPA 8270E	5-23-22	5-23-22	
Acenaphthene	ND	0.095	EPA 8270E/SIM	5-23-22	5-23-22	
4-Nitrophenol	ND	4.7	EPA 8270E	5-23-22	5-23-22	
2,4-Dinitrotoluene	ND	0.95	EPA 8270E	5-23-22	5-23-22	
Dibenzofuran	ND	0.95	EPA 8270E	5-23-22	5-23-22	
2,3,5,6-Tetrachlorophenol	ND	0.95	EPA 8270E	5-23-22	5-23-22	
2,3,4,6-Tetrachlorophenol	ND	0.95	EPA 8270E	5-23-22	5-23-22	
Diethylphthalate	ND	0.95	EPA 8270E	5-23-22	5-23-22	
4-Chlorophenyl-phenylether	ND	0.95	EPA 8270E	5-23-22	5-23-22	
4-Nitroaniline	ND	0.95	EPA 8270E	5-23-22	5-23-22	
Fluorene	ND	0.095	EPA 8270E/SIM	5-23-22	5-23-22	
4,6-Dinitro-2-methylphenol	ND	7.5	EPA 8270E	5-23-22	5-23-22	
n-Nitrosodiphenylamine	ND	0.95	EPA 8270E	5-23-22	5-23-22	
1,2-Diphenylhydrazine	ND	0.95	EPA 8270E	5-23-22	5-23-22	
4-Bromophenyl-phenylether	ND	0.95	EPA 8270E	5-23-22	5-23-22	
Hexachlorobenzene	ND	0.95	EPA 8270E	5-23-22	5-23-22	
Pentachlorophenol	ND	6.2	EPA 8270E	5-23-22	5-23-22	
Phenanthrene	ND	0.095	EPA 8270E/SIM	5-23-22	5-23-22	
Anthracene	ND	0.095	EPA 8270E/SIM	5-23-22	5-23-22	
Carbazole	ND	0.95	EPA 8270E	5-23-22	5-23-22	
Di-n-butylphthalate	ND	4.7	EPA 8270E	5-23-22	5-23-22	
Fluoranthene	ND	0.095	EPA 8270E/SIM	5-23-22	5-23-22	
Pyrene	ND	0.095	EPA 8270E/SIM	5-23-22	5-23-22	
Butylbenzylphthalate	ND	0.95	EPA 8270E	5-23-22	5-23-22	
bis-2-Ethylhexyladipate	ND	4.7	EPA 8270E	5-23-22	5-23-22	
3,3'-Dichlorobenzidine	ND	0.95	EPA 8270E	5-23-22	5-23-22	
Benzo[a]anthracene	ND	0.0095	EPA 8270E/SIM	5-23-22	5-23-22	
Chrysene	ND	0.0095	EPA 8270E/SIM	5-23-22	5-23-22	
bis(2-Ethylhexyl)phthalate	ND	9.5	EPA 8270E	5-23-22	5-23-22	
Di-n-octylphthalate	ND	0.95	EPA 8270E	5-23-22	5-23-22	
Benzo[b]fluoranthene	ND	0.0095	EPA 8270E/SIM	5-23-22	5-23-22	
Benzo(j,k)fluoranthene	0.011	0.0095	EPA 8270E/SIM	5-23-22	5-23-22	
Benzo[a]pyrene	ND	0.0095	EPA 8270E/SIM	5-23-22	5-23-22	
Indeno[1,2,3-cd]pyrene	ND	0.0095	EPA 8270E/SIM	5-23-22	5-23-22	
Dibenz[a,h]anthracene	ND	0.0095	EPA 8270E/SIM	5-23-22	5-23-22	
Benzo[g,h,i]perylene	ND	0.0095	EPA 8270E/SIM	5-23-22	5-23-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
2-Fluorophenol	35	10 - 81				
Phenol-d6	24	10 - 86				
Nitrobenzene-d5	61	27 - 105				
2-Fluorobiphenyl	62	33 - 100				
2,4,6-Tribromophenol	74	25 - 124				
Terphenyl-d14	62	40 - 116				



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PCBs EPA 8082A

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-10-20220519					
Laboratory ID:	05-229-01					
Aroclor 1016	ND	0.048	EPA 8082A	5-25-22	5-25-22	
Aroclor 1221	ND	0.048	EPA 8082A	5-25-22	5-25-22	
Aroclor 1232	ND	0.048	EPA 8082A	5-25-22	5-25-22	
Aroclor 1242	ND	0.048	EPA 8082A	5-25-22	5-25-22	
Aroclor 1248	ND	0.048	EPA 8082A	5-25-22	5-25-22	
Aroclor 1254	ND	0.048	EPA 8082A	5-25-22	5-25-22	
Aroclor 1260	ND	0.048	EPA 8082A	5-25-22	5-25-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>DCB</i>	<i>109</i>	<i>49-133</i>				



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**ORGANOCHLORINE
 PESTICIDES EPA 8081B**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-10-20220519					
Laboratory ID:	05-229-01					
alpha-BHC	ND	0.0048	EPA 8081B	5-25-22	5-25-22	
gamma-BHC (Lindane)	ND	0.0048	EPA 8081B	5-25-22	5-25-22	
beta-BHC	ND	0.0048	EPA 8081B	5-25-22	5-25-22	
delta-BHC	ND	0.0048	EPA 8081B	5-25-22	5-25-22	
Heptachlor	ND	0.0048	EPA 8081B	5-25-22	5-25-22	
Aldrin	ND	0.0019	EPA 8081B	5-25-22	5-25-22	
Heptachlor Epoxide	ND	0.0029	EPA 8081B	5-25-22	5-25-22	
gamma-Chlordane	ND	0.0048	EPA 8081B	5-25-22	5-25-22	
alpha-Chlordane	ND	0.0048	EPA 8081B	5-25-22	5-25-22	
4,4'-DDE	ND	0.0048	EPA 8081B	5-25-22	5-25-22	
Endosulfan I	ND	0.0048	EPA 8081B	5-25-22	5-25-22	
Dieldrin	ND	0.0048	EPA 8081B	5-25-22	5-25-22	
Endrin	ND	0.0048	EPA 8081B	5-25-22	5-25-22	
4,4'-DDD	ND	0.0048	EPA 8081B	5-25-22	5-25-22	
Endosulfan II	ND	0.0048	EPA 8081B	5-25-22	5-25-22	
4,4'-DDT	ND	0.0048	EPA 8081B	5-25-22	5-25-22	
Endrin Aldehyde	ND	0.0048	EPA 8081B	5-25-22	5-25-22	
Methoxychlor	ND	0.0095	EPA 8081B	5-25-22	5-25-22	
Endosulfan Sulfate	ND	0.0048	EPA 8081B	5-25-22	5-25-22	
Endrin Ketone	ND	0.019	EPA 8081B	5-25-22	5-25-22	
Toxaphene	ND	0.048	EPA 8081B	5-25-22	5-25-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
TCMX	57	21-110				
DCB	74	42-113				



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TOTAL METALS
EPA 200.8/200.7/7470A

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-10-20220519					
Laboratory ID:	05-229-01					
Arsenic	ND	3.3	EPA 200.8	5-24-22	5-24-22	
Cadmium	ND	4.4	EPA 200.8	5-24-22	5-24-22	
Chromium	ND	11	EPA 200.8	5-24-22	5-24-22	
Copper	ND	11	EPA 200.8	5-24-22	5-24-22	
Iron	1400	50	EPA 200.7	5-20-22	5-20-22	
Lead	ND	1.1	EPA 200.8	5-24-22	5-24-22	
Magnesium	21000	1000	EPA 200.7	5-20-22	5-20-22	
Manganese	460	10	EPA 200.7	5-20-22	5-20-22	
Mercury	ND	0.025	EPA 7470A	5-23-22	5-23-22	
Nickel	ND	22	EPA 200.8	5-24-22	5-24-22	
Selenium	ND	5.6	EPA 200.8	5-24-22	5-24-22	
Zinc	ND	28	EPA 200.8	5-24-22	5-24-22	



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DISSOLVED METALS
EPA 200.8/200.7/7470A

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-10-20220519					
Laboratory ID:	05-229-01					
Arsenic	ND	3.0	EPA 200.8		5-24-22	
Cadmium	ND	4.0	EPA 200.8		5-24-22	
Calcium	65000	10000	EPA 200.7		5-20-22	
Chromium	ND	10	EPA 200.8		5-24-22	
Copper	ND	10	EPA 200.8		5-24-22	
Iron	1000	56	EPA 200.7		5-20-22	
Lead	ND	1.0	EPA 200.8		5-24-22	
Magnesium	23000	1100	EPA 200.7		5-20-22	
Manganese	440	11	EPA 200.7		5-20-22	
Mercury	ND	0.025	EPA 7470A		5-23-22	
Nickel	ND	20	EPA 200.8		5-24-22	
Potassium	3400	1100	EPA 200.7		5-20-22	
Selenium	ND	5.0	EPA 200.8		5-24-22	
Sodium	9400	1100	EPA 200.7		5-20-22	
Zinc	ND	25	EPA 200.8		5-24-22	



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TOTAL ALKALINITY
SM 2320B

Matrix: Water
Units: mg CaCO₃/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-10-20220519					
Laboratory ID:	05-229-01					
Total Alkalinity	230	2.0	SM 2320B	6-2-22	6-2-22	



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**BICARBONATE
SM 2320B**

Matrix: Water
Units: mg CaCO₃/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-10-20220519					
Laboratory ID:	05-229-01					
Bicarbonate	230	2.0	SM 2320B	6-2-22	6-2-22	



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**TOTAL DISSOLVED SOLIDS
 SM 2540C**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-10-20220519					
Laboratory ID:	05-229-01					
Total Dissolved Solids	300	13	SM 2540C	5-24-22	5-31-22	



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CHLORIDE
SM 4500-Cl E

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-10-20220519					
Laboratory ID:	05-229-01					
Chloride	4.5	2.0	SM 4500-Cl E	5-24-22	5-24-22	



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NITRATE (as Nitrogen)
EPA 353.2

Matrix: Water
Units: mg/L-N

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-10-20220519					
Laboratory ID:	05-229-01					
Nitrate	0.11	0.050	EPA 353.2	5-31-22	5-31-22	



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SULFATE
ASTM D516-11

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-10-20220519					
Laboratory ID:	05-229-01					
Sulfate	33	10	ASTM D516-11	5-23-22	5-23-22	



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AMMONIA (as Nitrogen)
SM 4500-NH₃ D

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-10-20220519					
Laboratory ID:	05-229-01					
Ammonia	0.22	0.050	SM 4500-NH3 D	5-26-22	5-26-22	



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**GASOLINE RANGE ORGANICS
 NWTPH-Gx
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0520W1					
Gasoline	ND	100	NWTPH-Gx	5-20-22	5-20-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
Fluorobenzene	93	65-122				

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	05-227-01							
	ORIG	DUP						
Gasoline	ND	ND	NA	NA	NA	NA	30	
<i>Surrogate:</i>								
Fluorobenzene				92	92	65-122		



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**DIESEL AND HEAVY OIL RANGE ORGANICS
 NWTPH-Dx
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0520W1					
Diesel Range Organics	ND	0.10	NWTPH-Dx	5-20-22	5-20-22	
Lube Oil Range Organics	ND	0.20	NWTPH-Dx	5-20-22	5-20-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	91	50-150				

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	SB0520W1							
	ORIG	DUP						
Diesel Fuel #2	0.367	0.294	NA	NA	NA	NA	22	NA
<i>Surrogate:</i>								
<i>o-Terphenyl</i>				89	82	50-150		



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**VOLATILE ORGANICS EPA 8260D
 QUALITY CONTROL**

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Matrix: Water

Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0520W1					
Dichlorodifluoromethane	ND	0.20	EPA 8260D	5-20-22	5-20-22	
Chloromethane	ND	1.0	EPA 8260D	5-20-22	5-20-22	
Vinyl Chloride	ND	0.20	EPA 8260D	5-20-22	5-20-22	
Bromomethane	ND	0.30	EPA 8260D	5-20-22	5-20-22	
Chloroethane	ND	1.0	EPA 8260D	5-20-22	5-20-22	
Trichlorofluoromethane	ND	0.20	EPA 8260D	5-20-22	5-20-22	
1,1-Dichloroethene	ND	0.20	EPA 8260D	5-20-22	5-20-22	
Acetone	ND	5.0	EPA 8260D	5-20-22	5-20-22	
Iodomethane	ND	3.8	EPA 8260D	5-20-22	5-20-22	
Carbon Disulfide	ND	0.20	EPA 8260D	5-20-22	5-20-22	
Methylene Chloride	ND	1.0	EPA 8260D	5-20-22	5-20-22	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	5-20-22	5-20-22	
Methyl t-Butyl Ether	ND	0.20	EPA 8260D	5-20-22	5-20-22	
1,1-Dichloroethane	ND	0.20	EPA 8260D	5-20-22	5-20-22	
Vinyl Acetate	ND	1.0	EPA 8260D	5-20-22	5-20-22	
2,2-Dichloropropane	ND	0.20	EPA 8260D	5-20-22	5-20-22	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	5-20-22	5-20-22	
2-Butanone	ND	5.0	EPA 8260D	5-20-22	5-20-22	
Bromochloromethane	ND	0.20	EPA 8260D	5-20-22	5-20-22	
Chloroform	ND	0.20	EPA 8260D	5-20-22	5-20-22	
1,1,1-Trichloroethane	ND	0.20	EPA 8260D	5-20-22	5-20-22	
Carbon Tetrachloride	ND	0.20	EPA 8260D	5-20-22	5-20-22	
1,1-Dichloropropene	ND	0.20	EPA 8260D	5-20-22	5-20-22	
Benzene	ND	0.20	EPA 8260D	5-20-22	5-20-22	
1,2-Dichloroethane	ND	0.20	EPA 8260D	5-20-22	5-20-22	
Trichloroethene	ND	0.20	EPA 8260D	5-20-22	5-20-22	
1,2-Dichloropropane	ND	0.20	EPA 8260D	5-20-22	5-20-22	
Dibromomethane	ND	0.20	EPA 8260D	5-20-22	5-20-22	
Bromodichloromethane	ND	0.20	EPA 8260D	5-20-22	5-20-22	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260D	5-20-22	5-20-22	
Methyl Isobutyl Ketone	ND	2.0	EPA 8260D	5-20-22	5-20-22	
Toluene	ND	1.0	EPA 8260D	5-20-22	5-20-22	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260D	5-20-22	5-20-22	



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**VOLATILE ORGANICS EPA 8260D
 QUALITY CONTROL**

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0520W1					
1,1,2-Trichloroethane	ND	0.20	EPA 8260D	5-20-22	5-20-22	
Tetrachloroethene	ND	0.20	EPA 8260D	5-20-22	5-20-22	
1,3-Dichloropropane	ND	0.20	EPA 8260D	5-20-22	5-20-22	
2-Hexanone	ND	2.0	EPA 8260D	5-20-22	5-20-22	
Dibromochloromethane	ND	0.20	EPA 8260D	5-20-22	5-20-22	
1,2-Dibromoethane	ND	0.20	EPA 8260D	5-20-22	5-20-22	
Chlorobenzene	ND	0.20	EPA 8260D	5-20-22	5-20-22	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260D	5-20-22	5-20-22	
Ethylbenzene	ND	0.20	EPA 8260D	5-20-22	5-20-22	
m,p-Xylene	ND	0.40	EPA 8260D	5-20-22	5-20-22	
o-Xylene	ND	0.20	EPA 8260D	5-20-22	5-20-22	
Styrene	ND	0.20	EPA 8260D	5-20-22	5-20-22	
Bromoform	ND	1.0	EPA 8260D	5-20-22	5-20-22	
Isopropylbenzene	ND	0.20	EPA 8260D	5-20-22	5-20-22	
Bromobenzene	ND	0.20	EPA 8260D	5-20-22	5-20-22	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260D	5-20-22	5-20-22	
1,2,3-Trichloropropane	ND	0.20	EPA 8260D	5-20-22	5-20-22	
n-Propylbenzene	ND	0.20	EPA 8260D	5-20-22	5-20-22	
2-Chlorotoluene	ND	0.20	EPA 8260D	5-20-22	5-20-22	
4-Chlorotoluene	ND	0.20	EPA 8260D	5-20-22	5-20-22	
1,3,5-Trimethylbenzene	ND	0.20	EPA 8260D	5-20-22	5-20-22	
tert-Butylbenzene	ND	0.20	EPA 8260D	5-20-22	5-20-22	
1,2,4-Trimethylbenzene	ND	0.20	EPA 8260D	5-20-22	5-20-22	
sec-Butylbenzene	ND	0.20	EPA 8260D	5-20-22	5-20-22	
1,3-Dichlorobenzene	ND	0.20	EPA 8260D	5-20-22	5-20-22	
p-Isopropyltoluene	ND	0.20	EPA 8260D	5-20-22	5-20-22	
1,4-Dichlorobenzene	ND	0.20	EPA 8260D	5-20-22	5-20-22	
1,2-Dichlorobenzene	ND	0.20	EPA 8260D	5-20-22	5-20-22	
n-Butylbenzene	ND	0.20	EPA 8260D	5-20-22	5-20-22	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260D	5-20-22	5-20-22	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260D	5-20-22	5-20-22	
Hexachlorobutadiene	ND	1.0	EPA 8260D	5-20-22	5-20-22	
Naphthalene	ND	1.0	EPA 8260D	5-20-22	5-20-22	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260D	5-20-22	5-20-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>100</i>	<i>75-127</i>				
<i>Toluene-d8</i>	<i>101</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>97</i>	<i>78-125</i>				



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**VOLATILE ORGANICS EPA 8260D
 QUALITY CONTROL**

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
	SB	SBD	SB	SBD	SB	SBD				
SPIKE BLANKS										
Laboratory ID:	SB0520W1									
1,1-Dichloroethene	10.8	10.9	10.0	10.0	108	109	78-125	1	19	
Benzene	10.6	10.7	10.0	10.0	106	107	80-121	1	16	
Trichloroethene	10.9	11.1	10.0	10.0	109	111	80-122	2	18	
Toluene	10.3	10.4	10.0	10.0	103	104	80-120	1	18	
Chlorobenzene	10.7	10.7	10.0	10.0	107	107	80-120	0	17	
<i>Surrogate:</i>										
Dibromofluoromethane					99	98	75-127			
Toluene-d8					103	102	80-127			
4-Bromofluorobenzene					103	103	78-125			



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SEMIVOLATILE ORGANICS EPA 8270E/SIM
QUALITY CONTROL
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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0523W1					
n-Nitrosodimethylamine	ND	1.0	EPA 8270E	5-23-22	5-23-22	
Pyridine	ND	1.0	EPA 8270E	5-23-22	5-23-22	
Phenol	ND	1.0	EPA 8270E	5-23-22	5-23-22	
Aniline	ND	5.0	EPA 8270E	5-23-22	5-23-22	
bis(2-Chloroethyl)ether	ND	1.0	EPA 8270E	5-23-22	5-23-22	
2-Chlorophenol	ND	1.0	EPA 8270E	5-23-22	5-23-22	
1,3-Dichlorobenzene	ND	1.0	EPA 8270E	5-23-22	5-23-22	
1,4-Dichlorobenzene	ND	1.0	EPA 8270E	5-23-22	5-23-22	
Benzyl alcohol	ND	1.0	EPA 8270E	5-23-22	5-23-22	
1,2-Dichlorobenzene	ND	1.0	EPA 8270E	5-23-22	5-23-22	
2-Methylphenol (o-Cresol)	ND	1.0	EPA 8270E	5-23-22	5-23-22	
bis(2-Chloroisopropyl)ether	ND	1.0	EPA 8270E	5-23-22	5-23-22	
(3+4)-Methylphenol (m,p-Cresol)	ND	1.0	EPA 8270E	5-23-22	5-23-22	
n-Nitroso-di-n-propylamine	ND	1.0	EPA 8270E	5-23-22	5-23-22	
Hexachloroethane	ND	1.0	EPA 8270E	5-23-22	5-23-22	
Nitrobenzene	ND	1.0	EPA 8270E	5-23-22	5-23-22	
Isophorone	ND	1.0	EPA 8270E	5-23-22	5-23-22	
2-Nitrophenol	ND	1.0	EPA 8270E	5-23-22	5-23-22	
2,4-Dimethylphenol	ND	1.0	EPA 8270E	5-23-22	5-23-22	
bis(2-Chloroethoxy)methane	ND	1.0	EPA 8270E	5-23-22	5-23-22	
2,4-Dichlorophenol	ND	1.0	EPA 8270E	5-23-22	5-23-22	
1,2,4-Trichlorobenzene	ND	1.0	EPA 8270E	5-23-22	5-23-22	
Naphthalene	ND	0.10	EPA 8270E/SIM	5-23-22	5-23-22	
4-Chloroaniline	ND	1.0	EPA 8270E	5-23-22	5-23-22	
Hexachlorobutadiene	ND	1.0	EPA 8270E	5-23-22	5-23-22	
4-Chloro-3-methylphenol	ND	1.0	EPA 8270E	5-23-22	5-23-22	
2-Methylnaphthalene	ND	0.10	EPA 8270E/SIM	5-23-22	5-23-22	
1-Methylnaphthalene	ND	0.10	EPA 8270E/SIM	5-23-22	5-23-22	
Hexachlorocyclopentadiene	ND	1.0	EPA 8270E	5-23-22	5-23-22	
2,4,6-Trichlorophenol	ND	1.0	EPA 8270E	5-23-22	5-23-22	
2,3-Dichloroaniline	ND	1.0	EPA 8270E	5-23-22	5-23-22	
2,4,5-Trichlorophenol	ND	1.0	EPA 8270E	5-23-22	5-23-22	
2-Chloronaphthalene	ND	1.0	EPA 8270E	5-23-22	5-23-22	
2-Nitroaniline	ND	1.0	EPA 8270E	5-23-22	5-23-22	
1,4-Dinitrobenzene	ND	1.0	EPA 8270E	5-23-22	5-23-22	
Dimethylphthalate	ND	5.0	EPA 8270E	5-23-22	5-23-22	
1,3-Dinitrobenzene	ND	1.0	EPA 8270E	5-23-22	5-23-22	
2,6-Dinitrotoluene	ND	1.0	EPA 8270E	5-23-22	5-23-22	
1,2-Dinitrobenzene	ND	1.0	EPA 8270E	5-23-22	5-23-22	
Acenaphthylene	ND	0.10	EPA 8270E/SIM	5-23-22	5-23-22	
3-Nitroaniline	ND	1.0	EPA 8270E	5-23-22	5-23-22	



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**SEMIVOLATILE ORGANICS EPA 8270E/SIM
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0523W1					
2,4-Dinitrophenol	ND	5.0	EPA 8270E	5-23-22	5-23-22	
Acenaphthene	ND	0.10	EPA 8270E/SIM	5-23-22	5-23-22	
4-Nitrophenol	ND	5.0	EPA 8270E	5-23-22	5-23-22	
2,4-Dinitrotoluene	ND	1.0	EPA 8270E	5-23-22	5-23-22	
Dibenzofuran	ND	1.0	EPA 8270E	5-23-22	5-23-22	
2,3,5,6-Tetrachlorophenol	ND	1.0	EPA 8270E	5-23-22	5-23-22	
2,3,4,6-Tetrachlorophenol	ND	1.0	EPA 8270E	5-23-22	5-23-22	
Diethylphthalate	ND	1.0	EPA 8270E	5-23-22	5-23-22	
4-Chlorophenyl-phenylether	ND	1.0	EPA 8270E	5-23-22	5-23-22	
4-Nitroaniline	ND	1.0	EPA 8270E	5-23-22	5-23-22	
Fluorene	ND	0.10	EPA 8270E/SIM	5-23-22	5-23-22	
4,6-Dinitro-2-methylphenol	ND	5.0	EPA 8270E	5-23-22	5-23-22	
n-Nitrosodiphenylamine	ND	1.0	EPA 8270E	5-23-22	5-23-22	
1,2-Diphenylhydrazine	ND	1.0	EPA 8270E	5-23-22	5-23-22	
4-Bromophenyl-phenylether	ND	1.0	EPA 8270E	5-23-22	5-23-22	
Hexachlorobenzene	ND	1.0	EPA 8270E	5-23-22	5-23-22	
Pentachlorophenol	ND	5.0	EPA 8270E	5-23-22	5-23-22	
Phenanthrene	ND	0.10	EPA 8270E/SIM	5-23-22	5-23-22	
Anthracene	ND	0.10	EPA 8270E/SIM	5-23-22	5-23-22	
Carbazole	ND	1.0	EPA 8270E	5-23-22	5-23-22	
Di-n-butylphthalate	ND	5.0	EPA 8270E	5-23-22	5-23-22	
Fluoranthene	ND	0.10	EPA 8270E/SIM	5-23-22	5-23-22	
Pyrene	ND	0.10	EPA 8270E/SIM	5-23-22	5-23-22	
Butylbenzylphthalate	ND	1.0	EPA 8270E	5-23-22	5-23-22	
bis-2-Ethylhexyladipate	ND	5.0	EPA 8270E	5-23-22	5-23-22	
3,3'-Dichlorobenzidine	ND	1.0	EPA 8270E	5-23-22	5-23-22	
Benzo[a]anthracene	ND	0.010	EPA 8270E/SIM	5-23-22	5-23-22	
Chrysene	ND	0.010	EPA 8270E/SIM	5-23-22	5-23-22	
bis(2-Ethylhexyl)phthalate	ND	10	EPA 8270E	5-23-22	5-23-22	
Di-n-octylphthalate	ND	1.0	EPA 8270E	5-23-22	5-23-22	
Benzo[b]fluoranthene	ND	0.010	EPA 8270E/SIM	5-23-22	5-23-22	
Benzo(j,k)fluoranthene	ND	0.010	EPA 8270E/SIM	5-23-22	5-23-22	
Benzo[a]pyrene	ND	0.010	EPA 8270E/SIM	5-23-22	5-23-22	
Indeno[1,2,3-cd]pyrene	ND	0.010	EPA 8270E/SIM	5-23-22	5-23-22	
Dibenz[a,h]anthracene	ND	0.010	EPA 8270E/SIM	5-23-22	5-23-22	
Benzo[g,h,i]perylene	ND	0.010	EPA 8270E/SIM	5-23-22	5-23-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
2-Fluorophenol	42	10 - 81				
Phenol-d6	30	10 - 86				
Nitrobenzene-d5	64	27 - 105				
2-Fluorobiphenyl	65	33 - 100				
2,4,6-Tribromophenol	79	25 - 124				
Terphenyl-d14	67	40 - 116				



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SEMIVOLATILE ORGANICS EPA 8270E/SIM
 QUALITY CONTROL

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
MATRIX SPIKES											
Laboratory ID:	05-242-01										
	MS	MSD	MS	MSD		MS	MSD				
Phenol	92.6	86.6	160	160	ND	58	54	20 - 114	7	36	
2-Chlorophenol	113	103	160	160	ND	71	64	24 - 105	9	40	
1,4-Dichlorobenzene	54.0	49.1	80.0	80.0	ND	68	61	23 - 100	10	48	
n-Nitroso-di-n-propylamine	69.0	60.3	80.0	80.0	ND	86	75	20 - 136	13	38	
1,2,4-Trichlorobenzene	59.7	54.4	80.0	80.0	ND	75	68	27 - 105	9	39	
4-Chloro-3-methylphenol	124	121	160	160	ND	78	76	44 - 113	2	26	
Acenaphthene	67.6	60.6	80.0	80.0	ND	85	76	35 - 105	11	25	
4-Nitrophenol	126	119	160	160	ND	79	74	31 - 141	6	31	
2,4-Dinitrotoluene	64.6	59.0	80.0	80.0	ND	81	74	44 - 106	9	30	
Pentachlorophenol	170	156	160	160	ND	106	98	43 - 163	9	39	
Pyrene	65.4	62.1	80.0	80.0	ND	82	78	39 - 113	5	27	
<i>Surrogate:</i>											
2-Fluorophenol						49	45	10 - 81			
Phenol-d6						48	45	10 - 86			
Nitrobenzene-d5						71	63	27 - 105			
2-Fluorobiphenyl						78	69	33 - 100			
2,4,6-Tribromophenol						81	77	25 - 124			
Terphenyl-d14						74	71	40 - 116			



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**PCBs EPA 8082A
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0525W1					
Aroclor 1016	ND	0.050	EPA 8082A	5-25-22	5-25-22	
Aroclor 1221	ND	0.050	EPA 8082A	5-25-22	5-25-22	
Aroclor 1232	ND	0.050	EPA 8082A	5-25-22	5-25-22	
Aroclor 1242	ND	0.050	EPA 8082A	5-25-22	5-25-22	
Aroclor 1248	ND	0.050	EPA 8082A	5-25-22	5-25-22	
Aroclor 1254	ND	0.050	EPA 8082A	5-25-22	5-25-22	
Aroclor 1260	ND	0.050	EPA 8082A	5-25-22	5-25-22	
Surrogate:	Percent Recovery	Control Limits				
DCB	114	49-133				

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS								
Laboratory ID:	SB0525W2							
	SB	SBD	SB	SBD	SB	SBD		
Aroclor 1260	0.479	0.458	0.500	0.500	N/A	96	92	67-120 4 15
Surrogate:								
DCB						122	114	49-133



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**ORGANOCHLORINE
 PESTICIDES EPA 8081B
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0525W1					
alpha-BHC	ND	0.0050	EPA 8081B	5-25-22	5-25-22	
gamma-BHC (Lindane)	ND	0.0050	EPA 8081B	5-25-22	5-25-22	
beta-BHC	ND	0.0050	EPA 8081B	5-25-22	5-25-22	
delta-BHC	ND	0.0050	EPA 8081B	5-25-22	5-25-22	
Heptachlor	ND	0.0050	EPA 8081B	5-25-22	5-25-22	
Aldrin	ND	0.0020	EPA 8081B	5-25-22	5-25-22	
Heptachlor Epoxide	ND	0.0030	EPA 8081B	5-25-22	5-25-22	
gamma-Chlordane	ND	0.0050	EPA 8081B	5-25-22	5-25-22	
alpha-Chlordane	ND	0.0050	EPA 8081B	5-25-22	5-25-22	
4,4'-DDE	ND	0.0050	EPA 8081B	5-25-22	5-25-22	
Endosulfan I	ND	0.0050	EPA 8081B	5-25-22	5-25-22	
Dieldrin	ND	0.0050	EPA 8081B	5-25-22	5-25-22	
Endrin	ND	0.0050	EPA 8081B	5-25-22	5-25-22	
4,4'-DDD	ND	0.0050	EPA 8081B	5-25-22	5-25-22	
Endosulfan II	ND	0.0050	EPA 8081B	5-25-22	5-25-22	
4,4'-DDT	ND	0.0050	EPA 8081B	5-25-22	5-25-22	
Endrin Aldehyde	ND	0.0050	EPA 8081B	5-25-22	5-25-22	
Methoxychlor	ND	0.010	EPA 8081B	5-25-22	5-25-22	
Endosulfan Sulfate	ND	0.0050	EPA 8081B	5-25-22	5-25-22	
Endrin Ketone	ND	0.020	EPA 8081B	5-25-22	5-25-22	
Toxaphene	ND	0.050	EPA 8081B	5-25-22	5-25-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
TCMX	51	21-110				
DCB	86	42-113				



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**ORGANOCHLORINE
 PESTICIDES EPA 8081B
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS											
Laboratory ID:	SB0525W1										
	SB	SBD	SB	SBD		SB	SBD				
alpha-BHC	0.0692	0.0677	0.100	0.100	N/A	69	68	50-113	2	19	
gamma-BHC (Lindane)	0.0791	0.0773	0.100	0.100	N/A	79	77	50-114	2	15	
beta-BHC	0.0745	0.0725	0.100	0.100	N/A	74	73	45-110	3	15	
delta-BHC	0.0819	0.0792	0.100	0.100	N/A	82	79	40-113	3	15	
Heptachlor	0.0698	0.0813	0.100	0.100	N/A	70	81	41-107	15	16	
Aldrin	0.0462	0.0576	0.100	0.100	N/A	46	58	39-105	22	15	L
Heptachlor Epoxide	0.0849	0.0824	0.100	0.100	N/A	85	82	53-106	3	15	
gamma-Chlordane	0.0779	0.0752	0.100	0.100	N/A	78	75	46-110	4	15	
alpha-Chlordane	0.0764	0.0758	0.100	0.100	N/A	76	76	46-110	1	15	
4,4'-DDE	0.0833	0.0811	0.100	0.100	N/A	83	81	39-129	3	15	
Endosulfan I	0.0859	0.0841	0.100	0.100	N/A	86	84	51-109	2	15	
Dieldrin	0.0934	0.0895	0.100	0.100	N/A	93	89	55-112	4	15	
Endrin	0.0972	0.0942	0.100	0.100	N/A	97	94	54-119	3	16	
4,4'-DDD	0.0943	0.0919	0.100	0.100	N/A	94	92	52-142	3	15	
Endosulfan II	0.0860	0.0813	0.100	0.100	N/A	86	81	49-115	6	15	
4,4'-DDT	0.0824	0.0870	0.100	0.100	N/A	82	87	52-136	5	15	
Endrin Aldehyde	0.0875	0.0821	0.100	0.100	N/A	87	82	39-128	6	15	
Methoxychlor	0.0882	0.0801	0.100	0.100	N/A	88	80	56-156	10	19	
Endosulfan Sulfate	0.0866	0.0829	0.100	0.100	N/A	87	83	44-120	4	15	
Endrin Ketone	0.101	0.0929	0.100	0.100	N/A	101	93	45-122	8	15	
Surrogate:											
TCMX						47	65	21-110			
DCB						80	79	42-113			



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TOTAL METALS
EPA 200.8/200.7/7470A
QUALITY CONTROL

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0520WH1					
Iron	ND	50	EPA 200.7	5-20-22	5-20-22	
Magnesium	ND	1000	EPA 200.7	5-20-22	5-20-22	
Manganese	ND	10	EPA 200.7	5-20-22	5-20-22	
Laboratory ID:	MB0524WM1					
Arsenic	ND	3.3	EPA 200.8	5-24-22	5-24-22	
Cadmium	ND	4.4	EPA 200.8	5-24-22	5-24-22	
Chromium	ND	11	EPA 200.8	5-24-22	5-24-22	
Copper	ND	11	EPA 200.8	5-24-22	5-24-22	
Lead	ND	1.1	EPA 200.8	5-24-22	5-24-22	
Nickel	ND	22	EPA 200.8	5-24-22	5-24-22	
Selenium	ND	5.6	EPA 200.8	5-24-22	5-24-22	
Zinc	ND	28	EPA 200.8	5-24-22	5-24-22	
Laboratory ID:	MB0523W1					
Mercury	ND	0.025	EPA 7470A	5-23-22	5-23-22	



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TOTAL METALS
EPA 200.8/200.7/7470A
QUALITY CONTROL

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags		
DUPLICATE										
Laboratory ID:	05-227-01									
	ORIG	DUP								
Iron	602	629	NA	NA	NA	NA	4	20		
Magnesium	14100	13200	NA	NA	NA	NA	7	20		
Manganese	287	276	NA	NA	NA	NA	4	20		
Laboratory ID:	05-223-01									
Arsenic	5.29	5.07	NA	NA	NA	NA	4	20		
Cadmium	ND	ND	NA	NA	NA	NA	NA	20		
Chromium	ND	ND	NA	NA	NA	NA	NA	20		
Copper	ND	ND	NA	NA	NA	NA	NA	20		
Lead	ND	ND	NA	NA	NA	NA	NA	20		
Nickel	ND	ND	NA	NA	NA	NA	NA	20		
Selenium	ND	ND	NA	NA	NA	NA	NA	20		
Zinc	ND	ND	NA	NA	NA	NA	NA	20		
Laboratory ID:	05-223-01									
Mercury	ND	ND	NA	NA	NA	NA	NA	20		
MATRIX SPIKES										
Laboratory ID:	05-227-01									
	MS	MSD	MS	MSD	MS	MSD				
Iron	20900	21100	20000	20000	602	101	102	75-125	1	20
Magnesium	31600	33100	20000	20000	14100	88	95	75-125	5	20
Manganese	721	809	500	500	287	87	104	75-125	12	20
Laboratory ID:	05-223-01									
Arsenic	117	119	111	111	5.29	101	103	75-125	2	20
Cadmium	108	107	111	111	ND	97	96	75-125	1	20
Chromium	107	106	111	111	ND	96	96	75-125	1	20
Copper	102	101	111	111	ND	92	91	75-125	1	20
Lead	101	99.6	111	111	ND	91	90	75-125	2	20
Nickel	104	103	111	111	ND	94	93	75-125	1	20
Selenium	111	111	111	111	ND	100	100	75-125	0	20
Zinc	111	113	111	111	ND	100	102	75-125	2	20
Laboratory ID:	05-223-01									
Mercury	5.65	5.63	6.25	6.25	ND	90	90	75-125	0	20



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**DISSOLVED METALS
 EPA 200.8/200.7/7470A
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0520D1					
Calcium	ND	1100	EPA 200.7		5-20-22	
Iron	ND	56	EPA 200.7		5-20-22	
Magnesium	ND	1100	EPA 200.7		5-20-22	
Manganese	ND	11	EPA 200.7		5-20-22	
Potassium	ND	1100	EPA 200.7		5-20-22	
Sodium	ND	1100	EPA 200.7		5-20-22	
Laboratory ID:	MB0524D1					
Arsenic	ND	3.0	EPA 200.8		5-24-22	
Cadmium	ND	4.0	EPA 200.8		5-24-22	
Chromium	ND	10	EPA 200.8		5-24-22	
Copper	ND	10	EPA 200.8		5-24-22	
Lead	ND	1.0	EPA 200.8		5-24-22	
Nickel	ND	20	EPA 200.8		5-24-22	
Selenium	ND	5.0	EPA 200.8		5-24-22	
Zinc	ND	25	EPA 200.8		5-24-22	
Laboratory ID:	MB0523D1					
Mercury	ND	0.025	EPA 7470A		5-23-22	



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 Project: 6694-002-05 T700

**DISSOLVED METALS
 EPA 200.8/200.7/7470A
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result		Spike Level		Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE										
Laboratory ID:	05-235-04									
	ORIG	DUP								
Calcium	25200	24900	NA	NA		NA	NA	1	20	
Iron	ND	ND	NA	NA		NA	NA	NA	20	
Magnesium	16100	16100	NA	NA		NA	NA	0	20	
Manganese	14.9	14.1	NA	NA		NA	NA	5	20	
Potassium	1630	1730	NA	NA		NA	NA	6	20	
Sodium	11800	11700	NA	NA		NA	NA	1	20	
Laboratory ID:	05-223-02									
Arsenic	ND	ND	NA	NA		NA	NA	NA	20	
Cadmium	ND	ND	NA	NA		NA	NA	NA	20	
Chromium	ND	ND	NA	NA		NA	NA	NA	20	
Copper	ND	ND	NA	NA		NA	NA	NA	20	
Lead	ND	ND	NA	NA		NA	NA	NA	20	
Nickel	ND	ND	NA	NA		NA	NA	NA	20	
Selenium	ND	ND	NA	NA		NA	NA	NA	20	
Zinc	ND	ND	NA	NA		NA	NA	NA	20	
Laboratory ID:	05-223-01									
Mercury	ND	ND	NA	NA		NA	NA	NA	20	
MATRIX SPIKES										
Laboratory ID:	05-235-04									
	MS	MSD	MS	MSD	MS	MSD				
Calcium	44300	44100	22200	22200	25200	86	85	75-125	1	20
Iron	21000	20900	22200	22200	ND	95	94	75-125	1	20
Magnesium	37100	36300	22200	22200	16100	95	91	75-125	2	20
Manganese	582	568	556	556	14.9	102	100	75-125	2	20
Potassium	24000	23900	22200	22200	1630	101	100	75-125	0	20
Sodium	32000	32000	22200	22200	11800	91	91	75-125	0	20
Laboratory ID:	05-223-02									
Arsenic	90.6	88.4	80.0	80.0	ND	113	111	75-125	2	20
Cadmium	79.2	79.2	80.0	80.0	ND	99	99	75-125	0	20
Chromium	73.2	71.8	80.0	80.0	ND	92	90	75-125	2	20
Copper	78.8	78.0	80.0	80.0	ND	99	98	75-125	1	20
Lead	76.4	75.0	80.0	80.0	ND	96	94	75-125	2	20
Nickel	79.0	76.8	80.0	80.0	ND	99	96	75-125	3	20
Selenium	87.6	85.2	80.0	80.0	ND	110	107	75-125	3	20
Zinc	82.8	80.4	80.0	80.0	ND	104	101	75-125	3	20
Laboratory ID:	05-223-01									
Mercury	5.80	5.88	6.25	6.25	ND	93	94	75-125	1	20



Date of Report: June 3, 2022
 Samples Submitted: May 19, 2022
 Laboratory Reference: 2205-229
 Project: 6694-002-05 T700

**TOTAL ALKALINITY
 SM 2320B
 QUALITY CONTROL**

Matrix: Water
 Units: mg CaCO₃/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0602W1					
Total Alkalinity	ND	2.0	SM 2320B	6-2-22	6-2-22	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	05-227-01							
	ORIG	DUP						
Total Alkalinity	122	122	NA	NA	NA	0	10	

SPIKE BLANK								
Laboratory ID:	SB0602W1							
	SB	SB		SB				
Total Alkalinity	94.0	100	NA	94	89-110	NA	NA	



Date of Report: June 3, 2022
 Samples Submitted: May 19, 2022
 Laboratory Reference: 2205-229
 Project: 6694-002-05 T700

**BICARBONATE
 SM 2320B
 QUALITY CONTROL**

Matrix: Water
 Units: mg CaCO₃/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0602W1					
Bicarbonate	1.0	2.0	SM 2320B	6-2-22	6-2-22	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	05-227-01							
	ORIG	DUP						
Bicarbonate	122	122	NA	NA	NA	0	10	

SPIKE BLANK								
Laboratory ID:	SB0602W1							
	SB	SB		SB				
Bicarbonate	94.0	100	NA	94	89-110	NA	NA	



Date of Report: June 3, 2022
 Samples Submitted: May 19, 2022
 Laboratory Reference: 2205-229
 Project: 6694-002-05 T700

**TOTAL DISSOLVED SOLIDS
 SM 2540C
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0524W1					
Total Dissolved Solids	ND	13	SM 2540C	5-24-22	5-31-22	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	05-229-01							
	ORIG	DUP						
Total Dissolved Solids	304	304	NA	NA	NA	0	23	

SPIKE BLANK								
Laboratory ID:	SB0524W1							
	SB	SB		SB				
Total Dissolved Solids	472	500	NA	94	89-110	NA	NA	



Date of Report: June 3, 2022
 Samples Submitted: May 19, 2022
 Laboratory Reference: 2205-229
 Project: 6694-002-05 T700

**CHLORIDE
 SM 4500-Cl E
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0524W1					
Chloride	ND	2.0	SM 4500-Cl E	5-24-22	5-24-22	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	05-227-01							
	ORIG	DUP						
Chloride	6.94	7.11	NA	NA	NA	2	11	

MATRIX SPIKE								
Laboratory ID:	05-227-01							
	MS	MS		MS				
Chloride	57.3	50.0	6.94	101	90-121	NA	NA	

SPIKE BLANK								
Laboratory ID:	SB0524W1							
	SB	SB		SB				
Chloride	52.1	50.0	NA	104	90-119	NA	NA	



Date of Report: June 3, 2022
 Samples Submitted: May 19, 2022
 Laboratory Reference: 2205-229
 Project: 6694-002-05 T700

**NITRATE (as Nitrogen)
 EPA 353.2
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L-N

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0531W1					
Nitrate	ND	0.050	EPA 353.2	5-31-22	5-31-22	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	05-227-01							
	ORIG	DUP						
Nitrate	ND	ND	NA	NA	NA	NA	10	

MATRIX SPIKE								
Laboratory ID:	05-227-01							
	MS	MS		MS				
Nitrate	2.03	2.00	ND	102	88-125	NA	NA	

SPIKE BLANK								
Laboratory ID:	SB0531W1							
	SB	SB		SB				
Nitrate	1.96	2.00	NA	98	90-120	NA	NA	



Date of Report: June 3, 2022
 Samples Submitted: May 19, 2022
 Laboratory Reference: 2205-229
 Project: 6694-002-05 T700

**SULFATE
 ASTM D516-11
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0523W1					
Sulfate	ND	5.0	ASTM D516-11	5-23-22	5-23-22	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	05-235-04							
	ORIG	DUP						
Sulfate	16.5	16.7	NA	NA	NA	1	10	

SPIKE BLANK								
Laboratory ID:	SB0523W1							
	SB	SB		SB				
Sulfate	10.0	10.0	NA	100	85-114	NA	NA	

MATRIX SPIKE								
Laboratory ID:	05-235-04							
	MS	MS		MS				
Sulfate	36.3	20.0	16.5	99	72-128	NA	NA	



Date of Report: June 3, 2022
 Samples Submitted: May 19, 2022
 Laboratory Reference: 2205-229
 Project: 6694-002-05 T700

**AMMONIA (as Nitrogen)
 SM 4500-NH₃ D
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0526W1					
Ammonia	ND	0.050	SM 4500-NH3 D	5-26-22	5-26-22	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	05-227-01							
	ORIG	DUP						
Ammonia	ND	ND	NA	NA	NA	NA	15	

MATRIX SPIKE								
Laboratory ID:	05-227-01							
	MS	MS		MS				
Ammonia	4.69	5.00	ND	94	87-110	NA	NA	

SPIKE BLANK								
Laboratory ID:	SB0526W1							
	SB	SB		SB				
Ammonia	4.65	5.00	NA	93	88-110	NA	NA	





Data Qualifiers and Abbreviations

- A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.
- B - The analyte indicated was also found in the blank sample.
- C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.
- E - The value reported exceeds the quantitation range and is an estimate.
- F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.
- H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.
- I - Compound recovery is outside of the control limits.
- J - The value reported was below the practical quantitation limit. The value is an estimate.
- K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.
- L - The RPD is outside of the control limits.
- M - Hydrocarbons in the gasoline range are impacting the diesel range result.
- M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.
- N - Hydrocarbons in the lube oil range are impacting the diesel range result.
- N1 - Hydrocarbons in diesel range are impacting lube oil range results.
- O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.
- P - The RPD of the detected concentrations between the two columns is greater than 40.
- Q - Surrogate recovery is outside of the control limits.
- S - Surrogate recovery data is not available due to the necessary dilution of the sample.
- T - The sample chromatogram is not similar to a typical _____.
- U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
- U1 - The practical quantitation limit is elevated due to interferences present in the sample.
- V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.
- W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.
- X - Sample extract treated with a mercury cleanup procedure.
- X1 - Sample extract treated with a sulfuric acid/silica gel cleanup procedure.
- Y - The calibration verification for this analyte exceeded the 20% drift specified in methods 8260 & 8270, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.

Z -

ND - Not Detected at PQL
 PQL - Practical Quantitation Limit
 RPD - Relative Percent Difference





OnSite Environmental Inc

David Baumeister
14648 NE 95th Street
Redmond, WA 98052

RE: 05-229

Work Order Number: 2205407

Attention David Baumeister:

Fremont Analytical, Inc. received 1 sample(s) on 5/20/2022 for the analyses presented in the following report.

Herbicides by EPA Method 8151A (GC/MS)

This report consists of the following:

- Case Narrative
- Analytical Results
- Applicable Quality Control Summary Reports
- Chain of Custody

All analyses were performed consistent with the Quality Assurance program of Fremont Analytical, Inc. Please contact the laboratory if you should have any questions about the results.

Thank you for using Fremont Analytical.

Sincerely,

Brianna Barnes
Project Manager



CLIENT: OnSite Environmental Inc
Project: 05-229
Work Order: 2205407

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received
2205407-001	MW-10-20220519	05/19/2022 11:30 AM	05/20/2022 12:11 PM

DRAFT

Note: If no "Time Collected" is supplied, a default of 12:00AM is assigned

CLIENT: OnSite Environmental Inc
Project: 05-229

I. SAMPLE RECEIPT:

Samples receipt information is recorded on the attached Sample Receipt Checklist.

II. GENERAL REPORTING COMMENTS:

Results are reported on a wet weight basis unless dry-weight correction is denoted in the units field on the analytical report ("mg/kg-dry" or "ug/kg-dry").

Matrix Spike (MS) and MS Duplicate (MSD) samples are tested from an analytical batch of "like" matrix to check for possible matrix effect. The MS and MSD will provide site specific matrix data only for those samples which are spiked by the laboratory. The sample chosen for spike purposes may or may not have been a sample submitted in this sample delivery group. The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The LCS and the MB are processed with the samples and the MS/MSD to ensure method criteria are achieved throughout the entire analytical process.

III. ANALYSES AND EXCEPTIONS:

Exceptions associated with this report will be footnoted in the analytical results page(s) or the quality control summary page(s) and/or noted below.

DRAFT

Qualifiers:

- * - Flagged value is not within established control limits
- B - Analyte detected in the associated Method Blank
- D - Dilution was required
- E - Value above quantitation range
- H - Holding times for preparation or analysis exceeded
- I - Analyte with an internal standard that does not meet established acceptance criteria
- J - Analyte detected below Reporting Limit
- N - Tentatively Identified Compound (TIC)
- Q - Analyte with an initial or continuing calibration that does not meet established acceptance criteria
- S - Spike recovery outside accepted recovery limits
- ND - Not detected at the Reporting Limit
- R - High relative percent difference observed

Acronyms:

- %Rec - Percent Recovery
- CCB - Continued Calibration Blank
- CCV - Continued Calibration Verification
- DF - Dilution Factor
- DUP - Sample Duplicate
- HEM - Hexane Extractable Material
- ICV - Initial Calibration Verification
- LCS/LCSD - Laboratory Control Sample / Laboratory Control Sample Duplicate
- MCL - Maximum Contaminant Level
- MB or MBLANK - Method Blank
- MDL - Method Detection Limit
- MS/MSD - Matrix Spike / Matrix Spike Duplicate
- PDS - Post Digestion Spike
- Ref Val - Reference Value
- REP - Sample Replicate
- RL - Reporting Limit
- RPD - Relative Percent Difference
- SD - Serial Dilution
- SGT - Silica Gel Treatment
- SPK - Spike
- Surr - Surrogate



Client: OnSite Environmental Inc

Collection Date: 5/19/2022 11:30:00 AM

Project: 05-229

Lab ID: 2205407-001

Matrix: Water

Client Sample ID: MW-10-20220519

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Herbicides by EPA Method 8151A (GC/MS)

Batch ID: 36570

Analyst: OK

Dicamba	ND	0.996		µg/L	1	5/27/2022 4:58:18 PM
2,4-D	ND	0.996		µg/L	1	5/27/2022 4:58:18 PM
2,4-DP	ND	0.996		µg/L	1	5/27/2022 4:58:18 PM
2,4,5-TP (Silvex)	ND	0.996		µg/L	1	5/27/2022 4:58:18 PM
2,4,5-T	ND	0.996		µg/L	1	5/27/2022 4:58:18 PM
Dinoseb	ND	0.996		µg/L	1	5/27/2022 4:58:18 PM
Dalapon	ND	1.99	Q	µg/L	1	5/27/2022 4:58:18 PM
2,4-DB	ND	0.996		µg/L	1	5/27/2022 4:58:18 PM
MCPP	ND	4.98		µg/L	1	5/27/2022 4:58:18 PM
MCPA	ND	4.98		µg/L	1	5/27/2022 4:58:18 PM
Picloram	ND	0.996		µg/L	1	5/27/2022 4:58:18 PM
Bentazon	ND	0.996		µg/L	1	5/27/2022 4:58:18 PM
Chloramben	ND	0.996		µg/L	1	5/27/2022 4:58:18 PM
Acifluorfen	ND	4.98		µg/L	1	5/27/2022 4:58:18 PM
3,5-Dichlorobenzoic acid	ND	0.996		µg/L	1	5/27/2022 4:58:18 PM
4-Nitrophenol	ND	0.996		µg/L	1	5/27/2022 4:58:18 PM
Dacthal (DCPA)	ND	1.99		µg/L	1	5/27/2022 4:58:18 PM
Surr: 2,4-Dichlorophenylacetic acid	92.8	65.7 - 136		%Rec	1	5/27/2022 4:58:18 PM

NOTES:

Q - Associated calibration verification is below acceptance criteria. Result may be low-biased.

Work Order: 2205407
 CLIENT: OnSite Environmental Inc
 Project: 05-229

QC SUMMARY REPORT
Herbicides by EPA Method 8151A (GC/MS)

Sample ID: MB-36570	SampType: MBLK	Units: µg/L	Prep Date: 5/24/2022	RunNo: 75778							
Client ID: MBLKW	Batch ID: 36570		Analysis Date: 5/27/2022	SeqNo: 1554615							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Dicamba	ND	0.992									
2,4-D	ND	0.992									
2,4-DP	ND	0.992									
2,4,5-TP (Silvex)	ND	0.992									
2,4,5-T	ND	0.992									
Dinoseb	ND	0.992									
Dalapon	ND	1.98									Q
2,4-DB	ND	0.992									
MCPP	ND	4.96									
MCPA	ND	4.96									
Picloram	ND	0.992									
Bentazon	ND	0.992									
Chloramben	ND	0.992									
Acifluorfen	ND	4.96									
3,5-Dichlorobenzoic acid	ND	0.992									
4-Nitrophenol	ND	0.992									
Dacthal (DCPA)	ND	1.98									
Surr: 2,4-Dichlorophenylacetic acid	18.2		19.84		91.6	65.7	136				

NOTES:

Q - Associated calibration verification is below acceptance criteria. Result may be low-biased.

Sample ID: LCS-36570	SampType: LCS	Units: µg/L	Prep Date: 5/24/2022	RunNo: 75778							
Client ID: LCSW	Batch ID: 36570		Analysis Date: 5/27/2022	SeqNo: 1554616							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Dicamba	4.06	0.997	3.987	0	102	16.6	148				
2,4-D	5.17	0.997	3.987	0	130	50.4	150				
2,4-DP	4.50	0.997	3.987	0	113	53	135				
2,4,5-TP (Silvex)	4.97	0.997	3.987	0	125	53.6	140				
2,4,5-T	5.20	0.997	3.987	0	130	50	141				
Dinoseb	4.65	0.997	3.987	0	117	5	119				
Dalapon	10.9	1.99	19.93	0	54.7	5.65	97.2				

Work Order: 2205407
 CLIENT: OnSite Environmental Inc
 Project: 05-229

QC SUMMARY REPORT
Herbicides by EPA Method 8151A (GC/MS)

Sample ID: LCS-36570	SampType: LCS	Units: µg/L				Prep Date: 5/24/2022	RunNo: 75778				
Client ID: LCSW	Batch ID: 36570					Analysis Date: 5/27/2022	SeqNo: 1554616				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
2,4-DB	5.62	0.997	3.987	0	141	54.9	141				
MCPP	17.7	4.98	19.93	0	88.7	28.7	166				
MCPA	17.9	4.98	19.93	0	89.8	20.7	176				
Picloram	3.97	0.997	3.987	0	99.5	9.72	120				
Bentazon	5.11	0.997	3.987	0	128	41.2	141				
Chloramben	3.59	0.997	3.987	0	90.1	5	109				
Acifluorfen	4.43	4.98	3.987	0	111	7.62	139				
3,5-Dichlorobenzoic acid	4.09	0.997	3.987	0	103	52.4	120				
4-Nitrophenol	3.88	0.997	3.987	0	97.2	5	107				
Dacthal (DCPA)	2.10	1.99	3.987	0	52.8	5	65.4				
Surr: 2,4-Dichlorophenylacetic acid	19.1		19.93		96.0	65.7	136				

Sample ID: LCS-36570	SampType: LCS	Units: µg/L				Prep Date: 5/24/2022	RunNo: 75778				
Client ID: LCSW02	Batch ID: 36570					Analysis Date: 5/27/2022	SeqNo: 1554617				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dicamba	4.15	0.998	3.992	0	104	16.6	148	4.060	2.25	30	
2,4-D	5.21	0.998	3.992	0	131	50.4	150	5.174	0.694	30	
2,4-DP	4.57	0.998	3.992	0	114	53	135	4.501	1.47	30	
2,4,5-TP (Silvex)	5.06	0.998	3.992	0	127	53.6	140	4.968	1.92	30	
2,4,5-T	5.20	0.998	3.992	0	130	50	141	5.198	0.110	30	
Dinoseb	5.32	0.998	3.992	0	133	5	119	4.645	13.6	30	S
Dalapon	11.4	2.00	19.96	0	57.2	5.65	97.2	10.90	4.57	30	
2,4-DB	5.59	0.998	3.992	0	140	54.9	141	5.617	0.467	30	
MCPP	18.0	4.99	19.96	0	89.9	28.7	166	17.69	1.48	30	
MCPA	17.9	4.99	19.96	0	89.8	20.7	176	17.89	0.184	30	
Picloram	4.03	0.998	3.992	0	101	9.72	120	3.968	1.47	30	
Bentazon	5.14	0.998	3.992	0	129	41.2	141	5.107	0.687	30	
Chloramben	3.93	0.998	3.992	0	98.4	5	109	3.592	8.91	30	
Acifluorfen	4.94	4.99	3.992	0	124	7.62	139	0		30	
3,5-Dichlorobenzoic acid	4.23	0.998	3.992	0	106	52.4	120	4.090	3.25	30	

Work Order: 2205407
 CLIENT: OnSite Environmental Inc
 Project: 05-229

QC SUMMARY REPORT
Herbicides by EPA Method 8151A (GC/MS)

Sample ID: LCS D-36570	SampType: LCS D	Units: µg/L	Prep Date: 5/24/2022	RunNo: 75778							
Client ID: LCS W02	Batch ID: 36570		Analysis Date: 5/27/2022	SeqNo: 1554617							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
4-Nitrophenol	2.32	0.998	3.992	0	58.2	5	107	3.875	50.1	30	R
Dacthal (DCPA)	2.14	2.00	3.992	0	53.7	5	65.4	2.104	1.86	30	
Surr: 2,4-Dichlorophenylacetic acid	19.7		19.96		98.5	65.7	136		0		

NOTES:

S - Outlying spike recovery observed (high bias). A duplicate analysis was performed and recovered within range.
 R - High RPD observed, spike recovery is within range.

Sample ID: 2205407-001AMS	SampType: MS	Units: µg/L	Prep Date: 5/24/2022	RunNo: 75778							
Client ID: MW-10-20220519	Batch ID: 36570		Analysis Date: 5/27/2022	SeqNo: 1554619							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dicamba	3.93	0.996	3.984	0	98.6	31	142				
2,4-D	4.58	0.996	3.984	0	115	50.3	149				
2,4-DP	4.33	0.996	3.984	0	109	49.9	143				
2,4,5-TP (Silvex)	4.84	0.996	3.984	0	122	47.7	141				
2,4,5-T	4.87	0.996	3.984	0	122	34.4	139				
Dinoseb	5.29	0.996	3.984	0	133	27.3	117				S
Dalapon	10.4	1.99	19.92	0	52.1	14.2	113				
2,4-DB	5.23	0.996	3.984	0	131	31.3	147				
MCPPP	17.1	4.98	19.92	0	85.9	30.5	177				
MCPA	17.1	4.98	19.92	0	86.0	36.8	163				
Picloram	3.98	0.996	3.984	0	99.8	18.8	115				
Bentazon	5.06	0.996	3.984	0	127	11.9	176				
Chloramben	3.37	0.996	3.984	0	84.5	5	112				
Acifluorfen	5.11	4.98	3.984	0	128	28.1	146				
3,5-Dichlorobenzoic acid	3.99	0.996	3.984	0	100	36.2	146				
4-Nitrophenol	1.77	0.996	3.984	0	44.5	5	116				
Dacthal (DCPA)	1.75	1.99	3.984	0	44.0	5	84.6				
Surr: 2,4-Dichlorophenylacetic acid	18.8		19.92		94.5	65.7	136				

NOTES:

S - Outlying spike recoveries were associated with this sample.

Client Name: ONSITE	Work Order Number: 2205407
Logged by: Clare Griggs	Date Received: 5/20/2022 12:11:00 PM

Chain of Custody

1. Is Chain of Custody complete? Yes No Not Present
2. How was the sample delivered? Client

Log In

3. Coolers are present? Yes No NA
4. Shipping container/cooler in good condition? Yes No
5. Custody Seals present on shipping container/cooler?
(Refer to comments for Custody Seals not intact) Yes No Not Present
6. Was an attempt made to cool the samples? Yes No NA
7. Were all items received at a temperature of >2°C to 6°C * Yes No NA
8. Sample(s) in proper container(s)? Yes No
9. Sufficient sample volume for indicated test(s)? Yes No
10. Are samples properly preserved? Yes No
11. Was preservative added to bottles? Yes No NA
12. Is there headspace in the VOA vials? Yes No NA
13. Did all samples containers arrive in good condition(unbroken)? Yes No
14. Does paperwork match bottle labels? Yes No
15. Are matrices correctly identified on Chain of Custody? Yes No
16. Is it clear what analyses were requested? Yes No
17. Were all holding times able to be met? Yes No

Special Handling (if applicable)

18. Was client notified of all discrepancies with this order? Yes No NA

Person Notified:	<input type="text"/>	Date:	<input type="text"/>
By Whom:	<input type="text"/>	Via:	<input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:	<input type="text"/>		
Client Instructions:	<input type="text"/>		

19. Additional remarks:

Item Information

Item #	Temp °C
Sample	5.6

* Note: DoD/ELAP and TNI require items to be received at 4°C +/- 2°C

14648 NE 95th Street, Redmond, WA 98052 · (425) 883-3881

Laboratory Reference #: 05-229

Laboratory: Fremont Analytical

Turnaround Request

Project Manager: David Baumeister

Attention: Chelsea Ward

1 Day 2 Day 3 Day

email: dbaumeister@onsite-env.com

3600 Fremont Avenue N, Seattle, WA 98103

Standard

Project Number: 6694-002-05

Phone Number: (206) 352-3790

Other: _____

Project Name: _____

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	# of Cont.	Requested Analyses
	MW-10-20220519	5/19/22	11:30	W	1	Chlorinated Acid Herbicides 8151
Signature	Company	Date	Time	Comments/Special Instructions		
Relinquished by: <i>[Signature]</i>	<i>OSE</i>	5/20/22	10:40	<h1>EDDs</h1>		
Received by: <i>[Signature]</i>	<i>ACPHA</i>	5/20/22	10:40			
Relinquished by: <i>[Signature]</i>	<i>ACPHA</i>	5/20/22	12:05			
Received by: <i>[Signature]</i>	Fremont	5/20/22	12:09			
Relinquished by:						
Received by:						

Chain of Custody

MM

Laboratory Number: **05-229**

Company: **GIEJ**
 Project Number: **6694-002-05**
 Project Name: **G10-East**
 Project Manager: **Garrett Lyne**
 Sampled by: **JDE + WDS**

Turnaround Request (in working days)

(Check One)

Same Day 1 Day
 2 Days 3 Days
 Standard (7 Days)
 _____ (other)

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers
1	25 MW-10-20220519	5/14/22	1130	water MW S/S/S/LW	19

NWTPH-HCID	NWTPH-Gx/BTEX (802) <input type="checkbox"/> 8260 <input type="checkbox"/>	NWTPH-Gx	NWTPH-Dx (Acid / SG Clean-up) <input type="checkbox"/>	Volatiles 8260	Halogenated Volatiles 8260	EDB EPA 8011 (Waters Only)	Semivolatiles 8270/SIM (with low-level PAHs)	PAHs 8270/SIM (low-level)	PCBs 8082	Organochlorine Pesticides 8081	Organophosphorus Pesticides 8270/SIM	Chlorinated Acid Herbicides 8151	Total RCRA Metals <i>Dissolved</i>	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664	TDS	Cl, NO3, SO4, NH3	Dissolved Ca, Fe, Na	Alkalinity Bicarbonate % Moisture
		X	X	X			X		X	X		X	X				X	X	X	X

Signature	Company	Date	Time	Comments/Special Instructions
<i>[Signature]</i>	GIEJ	5/14/22	1130	(X) Added 6/1/22 NB (STA) See Garrett For full list of analytes ↳ total + Diss (field filtered) metals = As, Cd, Cr, Cu, Fe, Pb, Mn, Hg, Ni, Se, Zn, Mg
Relinquished				
Received				
Relinquished				
Received	<i>[Signature]</i>	5/14/22	1610	
Relinquished				
Received				Data Package: Standard <input type="checkbox"/> Level III <input type="checkbox"/> Level IV <input type="checkbox"/>
Reviewed/Date	Reviewed/Date	Chromatograms with final report <input type="checkbox"/> Electronic Data Deliverables (EDDs) <input type="checkbox"/>		



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June 3, 2022

Garrett Leque
GeoEngineers, Inc.
554 West Bakerview Road
Bellingham, WA 98226

Re: Analytical Data for Project 6694-002-05 T700
Laboratory Reference No. 2205-230

Dear Garrett:

Enclosed are the analytical results and associated quality control data for samples submitted on May 19, 2022.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

A handwritten signature in black ink, appearing to read "DB", with a horizontal line extending to the right.

David Baumeister
Project Manager

Enclosures



OnSite Environmental, Inc. 14648 NE 95th Street, Redmond, WA 98052 (425) 883-3881

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: June 3, 2022
Samples Submitted: May 19, 2022
Laboratory Reference: 2205-230
Project: 6694-002-05 T700

Case Narrative

Samples were collected on May 19, 2022 and received by the laboratory on May 19, 2022. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.



Date of Report: June 3, 2022
Samples Submitted: May 19, 2022
Laboratory Reference: 2205-230
Project: 6694-002-05 T700

ANALYTICAL REPORT FOR SAMPLES

Client ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
Seep-1-20220519	05-230-01	Water	5-19-22	5-19-22	
Seep-2-20220519	05-230-02	Water	5-19-22	5-19-22	

DRAFT



Date of Report: June 3, 2022
 Samples Submitted: May 19, 2022
 Laboratory Reference: 2205-230
 Project: 6694-002-05 T700

TOTAL METALS
EPA 200.8/200.7

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID: Seep-1-20220519						
Laboratory ID:	05-230-01					
Arsenic	ND	3.3	EPA 200.8	5-24-22	5-24-22	
Iron	970	50	EPA 200.7	5-20-22	5-20-22	
Manganese	26	10	EPA 200.7	5-20-22	5-20-22	
Client ID: Seep-2-22020519						
Laboratory ID:	05-230-02					
Arsenic	ND	3.3	EPA 200.8	5-24-22	5-24-22	
Iron	1100	50	EPA 200.7	5-20-22	5-20-22	
Manganese	120	10	EPA 200.7	5-20-22	5-20-22	



Date of Report: June 3, 2022
 Samples Submitted: May 19, 2022
 Laboratory Reference: 2205-230
 Project: 6694-002-05 T700

AMMONIA (as Nitrogen)
SM 4500-NH₃ D

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	Seep-1-20220519					
Laboratory ID:	05-230-01					
Ammonia	ND	0.050	SM 4500-NH3 D	5-26-22	5-26-22	
Client ID:	Seep-2-22020519					
Laboratory ID:	05-230-02					
Ammonia	ND	0.050	SM 4500-NH3 D	5-26-22	5-26-22	



Date of Report: June 3, 2022
 Samples Submitted: May 19, 2022
 Laboratory Reference: 2205-230
 Project: 6694-002-05 T700

**TOTAL DISSOLVED SOLIDS
 SM 2540C**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	Seep-1-20220519					
Laboratory ID:	05-230-01					
Total Dissolved Solids	180	13	SM 2540C	5-24-22	5-31-22	
Client ID:	Seep-2-22020519					
Laboratory ID:	05-230-02					
Total Dissolved Solids	120	13	SM 2540C	5-24-22	5-31-22	



Date of Report: June 3, 2022
 Samples Submitted: May 19, 2022
 Laboratory Reference: 2205-230
 Project: 6694-002-05 T700

**TOTAL ORGANIC CARBON
 SM 5310B**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	Seep-1-20220519					
Laboratory ID:	05-230-01					
Total Organic Carbon	4.1	1.0	SM 5310B	5-31-22	5-31-22	
Client ID:	Seep-2-22020519					
Laboratory ID:	05-230-02					
Total Organic Carbon	11	1.0	SM 5310B	5-31-22	5-31-22	



Date of Report: June 3, 2022
 Samples Submitted: May 19, 2022
 Laboratory Reference: 2205-230
 Project: 6694-002-05 T700

**TOTAL METALS
 EPA 200.8/200.7
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0520WH1					
Iron	ND	50	EPA 200.7	5-20-22	5-20-22	
Manganese	ND	10	EPA 200.7	5-20-22	5-20-22	
METHOD BLANK						
Laboratory ID:	MB0524WM1					
Arsenic	ND	3.3	EPA 200.8	5-24-22	5-24-22	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	05-227-01							
	ORIG	DUP						
Iron	602	629	NA	NA	NA	NA	4	20
Manganese	287	276	NA	NA	NA	NA	4	20
DUPLICATE								
Laboratory ID:	05-223-01							
Arsenic	5.29	5.07	NA	NA	NA	NA	4	20

MATRIX SPIKES

Laboratory ID:	05-227-01									
	MS	MSD	MS	MSD	MS	MSD				
Iron	20900	21100	20000	20000	602	101	102	75-125	1	20
Manganese	721	809	500	500	287	87	104	75-125	12	20
MATRIX SPIKES										
Laboratory ID:	05-223-01									
Arsenic	117	119	111	111	5.29	101	103	75-125	2	20



Date of Report: June 3, 2022
 Samples Submitted: May 19, 2022
 Laboratory Reference: 2205-230
 Project: 6694-002-05 T700

**AMMONIA (as Nitrogen)
 SM 4500-NH₃ D
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0526W1					
Ammonia	ND	0.050	SM 4500-NH3 D	5-26-22	5-26-22	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	05-227-01							
	ORIG	DUP						
Ammonia	ND	ND	NA	NA	NA	NA	15	

MATRIX SPIKE								
Laboratory ID:	05-227-01							
	MS	MS		MS				
Ammonia	4.69	5.00	ND	94	87-110	NA	NA	

SPIKE BLANK								
Laboratory ID:	SB0526W1							
	SB	SB		SB				
Ammonia	4.65	5.00	NA	93	88-110	NA	NA	



Date of Report: June 3, 2022
 Samples Submitted: May 19, 2022
 Laboratory Reference: 2205-230
 Project: 6694-002-05 T700

**TOTAL DISSOLVED SOLIDS
 SM 2540C
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0524W1					
Total Dissolved Solids	ND	13	SM 2540C	5-24-22	5-31-22	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	05-229-01							
	ORIG	DUP						
Total Dissolved Solids	304	304	NA	NA	NA	0	23	

SPIKE BLANK								
Laboratory ID:	SB0524W1							
	SB	SB		SB				
Total Dissolved Solids	472	500	NA	94	89-110	NA	NA	



Date of Report: June 3, 2022
 Samples Submitted: May 19, 2022
 Laboratory Reference: 2205-230
 Project: 6694-002-05 T700

**TOTAL ORGANIC CARBON
 SM 5310B
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0531W1					
Total Organic Carbon	ND	1.0	SM 5310B	5-31-22	5-31-22	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags	
DUPLICATE									
Laboratory ID:	05-235-01								
	ORIG	DUP							
Total Organic Carbon	1.16	1.01	NA	NA	NA	NA	14	12	C

MATRIX SPIKE								
Laboratory ID:	05-235-01							
	MS	MS		MS				
Total Organic Carbon	11.3	10.0	1.16	101	80-120	NA	NA	

SPIKE BLANK								
Laboratory ID:	SB0531W1							
	SB	SB		SB				
Total Organic Carbon	10.8	10.0	NA	108	80-118	NA	NA	





Data Qualifiers and Abbreviations

- A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.
- B - The analyte indicated was also found in the blank sample.
- C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.
- E - The value reported exceeds the quantitation range and is an estimate.
- F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.
- H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.
- I - Compound recovery is outside of the control limits.
- J - The value reported was below the practical quantitation limit. The value is an estimate.
- K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.
- L - The RPD is outside of the control limits.
- M - Hydrocarbons in the gasoline range are impacting the diesel range result.
- M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.
- N - Hydrocarbons in the lube oil range are impacting the diesel range result.
- N1 - Hydrocarbons in diesel range are impacting lube oil range results.
- O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.
- P - The RPD of the detected concentrations between the two columns is greater than 40.
- Q - Surrogate recovery is outside of the control limits.
- S - Surrogate recovery data is not available due to the necessary dilution of the sample.
- T - The sample chromatogram is not similar to a typical _____.
- U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
- U1 - The practical quantitation limit is elevated due to interferences present in the sample.
- V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.
- W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.
- X - Sample extract treated with a mercury cleanup procedure.
- X1 - Sample extract treated with a sulfuric acid/silica gel cleanup procedure.
- Y - The calibration verification for this analyte exceeded the 20% drift specified in methods 8260 & 8270, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.

Z -

ND - Not Detected at PQL
 PQL - Practical Quantitation Limit
 RPD - Relative Percent Difference





OnSite Environmental Inc.
Analytical Laboratory Testing Services
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • www.onsite-env.com

Chain of Custody

Company: GFF
 Project Number: 6694-002-05
 Project Name: Cro-East
 Project Manager: Harriet Leung
 Sampled by: WDS

Turnaround Request (in working days)
 (Check One)
 Same Day 1 Day
 2 Days 3 Days
 Standard (7 Days)
 _____ (other)

Laboratory Number: **05-230**

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers
1	Scp-1-20220519	5/19/22	1230		4
2	Scp-2-20220519		1200		4

NWTPH-HCID	NWTPH-Gx/BTEX (8021 □ 8260 □)	NWTPH-Gx	NWTPH-Dx (Acid / SG Clean-up □)	Volatiles 8260	Halogenated Volatiles 8260	EDB EPA 8011 (Waters Only)	Semivolatiles 8270/SIM (with low-level PAHs)	PAHs 8270/SIM (low-level)	PCBs 8082	Organochlorine Pesticides 8081	Organophosphorus Pesticides 8270/SIM	Chlorinated Acid Herbicides 8151	Total RCRA Metals	Total Metals Metals	TCLP Metals	HEM (oil and grease) 1664	% Moisture
														X			
														X			

Signature	Company	Date	Time	Comments/Special Instructions
	GFF	5/19	1450	Total metals = As, Fe, Mn
	GFF	5/19	1610	
				Data Package: Standard <input type="checkbox"/> Level III <input type="checkbox"/> Level IV <input type="checkbox"/>
Reviewed/Date	Reviewed/Date	Chromatograms with final report <input type="checkbox"/> Electronic Data Deliverables (EDDs) <input type="checkbox"/>		

Project:	June 2022 Groundwater and Surface Water Sampling Results Go East Landfill Site, Everett, Washington
GEI File:	6694-002-05
Date:	March 5, 2023

This report documents the results of a United States Environmental Protection Agency (USEPA)-defined Stage 2A data validation (USEPA Document 540-R-08-005; USEPA 2009) of analytical data from the analyses of water samples collected as part of the June 2022 sampling event, and the associated laboratory quality control (QC) samples. The samples were obtained from the Go East Landfill Site located in Everett, Washington.

OBJECTIVE AND QUALITY CONTROL ELEMENTS

GeoEngineers, Inc. (GeoEngineers) completed the data validation consistent with the USEPA Contract Laboratory Program National Functional Guidelines for Organic Superfund Data Review (USEPA 2020a) and Inorganic Superfund Data Review (USEPA 2020b) to determine if the laboratory analytical results meet the project objectives and are usable for their intended purpose. Data usability was assessed by determining if:

- The samples were analyzed using well-defined and acceptable methods that provide reporting limits below applicable regulatory criteria;
- The precision and accuracy of the data are measured by well-defined control limits to provide defensible data; and
- The quality assurance/quality control (QA/QC) procedures utilized by the laboratory meet acceptable industry practices and standards.

The data validation included review of the following QC elements:

- Data Package Completeness
- Chain-of-Custody Documentation
- Holding Times and Sample Preservation
- Method Blanks
- Surrogates
- Matrix Spikes/Matrix Spike Duplicates
- Laboratory Control Samples/Laboratory Control Sample Duplicates
- Laboratory Duplicates
- Reporting Limits

VALIDATED SAMPLE DELIVERY GROUPS

This data validation included review of the sample delivery groups (SDGs) listed below in Table 1.

TABLE 1: SUMMARY OF VALIDATED SAMPLE DELIVERY GROUP

2206-200	MW-6-20220620, MW-7-20220620
2206-223	MW-3-20220621, Seep-1-20220621, SWS-1-20220621
2206-247	MW-8-20220622
2206-258	MW-9-20220623, MW-10-20220623
2206-268	MW-5-20220624
2206-304	MW-2-20220628
2206-305	220628-MW-1

CHEMICAL ANALYSIS PERFORMED

OnSite Environmental, Inc. (OnSite) of Redmond, Washington, performed laboratory analysis on the water samples using one or more of the following methods:

- Gasoline-range Hydrocarbons (NWTPH-Gx) by Method NWTPH-Gx;
- Petroleum Hydrocarbons (NWTPH-Dx) by Method NWTPH-Dx;
- Volatile Organic Compounds (VOCs) by Method EPA 8260D;
- Semi-volatile Organic Compounds (SVOCs) by Method EPA 8270E (Full-scan Compound list);
- Low-level Polycyclic Aromatic Hydrocarbons (PAHs) by Method EPA 8270E/Selective Ion Monitoring (SIM);
- Polychlorinated Biphenyls (PCB) Aroclors by Method EPA 8082A;
- Organochlorine Pesticides by Method EPA 8081B;
- Total and Dissolved Metals by Methods EPA 200.7, EPA 200.8, or EPA 7470A;
- Total Alkalinity and Bicarbonate by Method SM2320B;
- Total Dissolved Solids (TDS) by Method SM2540C;

- Total Organic Carbon (TOC) by Method SM5310B;
- Chloride by Method SM4500-Cl E;
- Nitrate by Method EPA 353.2;
- Sulfate by ASTM D516-11; and
- Ammonia by Method SM4500-NH3 D

OnSite subcontracted to Fremont Analytical, Inc., (Fremont) located in Seattle, Washington for laboratory analyses on the water samples using the following method:

- Chlorinated Acid Herbicides by Method EPA 8151A

DATA VALIDATION SUMMARY

The results for each of the QC elements are summarized below.

Data Package Completeness

OnSite provided the required deliverables for the data validation according to the National Functional Guidelines. The laboratory followed adequate corrective action processes and the identified anomalies were discussed in the relevant laboratory case narrative.

Chain-of-Custody Documentation

Chain-of-custody (COC) forms were provided with the laboratory analytical reports. The COCs were accurate and complete when submitted to the laboratory. The forms were appropriately signed and dated by both field collectors and laboratory personnel upon receipt.

Holding Times and Sample Preservation

The sample holding time is defined as the time that elapses between sample collection and sample analysis. Maximum holding time criteria exist for each analysis to help ensure that the analyte concentrations found at the time of analysis reflect the concentration present at the time of sample collection. Established holding times were met for each analysis, with the exceptions noted below. The sample coolers arrived at the laboratory within the appropriate temperatures of between two and six degrees Celsius.

SDG 2206-200: (Nitrate) The 48-hour holding time for nitrate analysis was exceeded by one day in Samples MW-6-20220620 and MW-7-20220620. The reporting limits for this target analyte were qualified as estimated (UJ) in these samples.

SDG 2206-223: (Nitrate) The 48-hour holding time for nitrate analysis was exceeded by one day in Samples MW-3-20220621 and SWS-1-20220621. The positive result and reporting limit for this target analyte were qualified as estimated (J and UJ, accordingly) in these samples.

SDG 2206-258: (Nitrate) The 48-hour holding time for nitrate analysis was exceeded by four days in Samples MW-9-20220623 and MW-10-20220623. The positive result and reporting limit for this target analyte were qualified as estimated (J and UJ, accordingly) in these samples.

Method Blanks

Method blanks are analyzed to ensure that laboratory procedures and reagents do not introduce measurable concentrations of the analytes of interest. A method blank was analyzed with each batch of samples, at a frequency of 1 per 20 samples. For each sample batch, method blanks for the applicable methods were analyzed at the required frequency. None of the analytes of interest were detected above the reporting limits in the method blanks.

Surrogate Recoveries

A surrogate compound is a compound that is chemically similar to the organic analytes of interest, but unlikely to be found in an environmental sample. Surrogates are used for organic analyses and are added to the samples, standards, and blanks to serve as an accuracy and specificity check of each analysis. The surrogates are added to the samples at a known concentration and percent recoveries are calculated following analysis. The surrogate percent recoveries for field samples were within the laboratory control limits.

Matrix Spikes/Matrix Spike Duplicates

Since the actual analyte concentration in an environmental sample is not known, the accuracy of a particular analysis is usually inferred by performing a matrix spike (MS) analysis on one sample from the associated batch, known as the parent sample. One aliquot of the sample is analyzed in the normal manner and then a second aliquot of the sample is spiked with a known amount of analyte concentration and analyzed. From these analyses, a percent recovery is calculated. Matrix spike duplicate (MSD) analyses are generally performed for organic analyses as a precision check and analyzed in the same sequence as a matrix spike. Using the result values from the MS and MSD, the relative percent difference (RPD) is calculated. The percent recovery control limits for MS and MSD analyses are specified in the laboratory documents, as are the RPD control limits for MS/MSD sample sets.

For inorganic methods, the matrix spike is followed by a post-digestion spike sample if an element percent recovery was outside the control limits in the matrix spike. The percent recovery control limits for matrix spikes are 75% to 125%.

One MS/MSD analysis should be performed for every analytical batch or every 20 field samples, whichever is more frequent. The frequency requirements were met for each analysis and the percent recovery and RPD values were within the proper control limits, with the following exception:

SDG 2206-258: (Herbicides) The laboratory performed a matrix spike on Sample MW-9-20220623. The percent recoveries for 2,4-DB, 2,4,5-T, 2,4,5-TP, dinoseb, and picloram were greater than the control limits in the MS extracted on 6/30/2022. There were no positive results for these target analytes in this sample; therefore, no qualifications were required.

Laboratory Control Samples/Laboratory Control Sample Duplicates

A Laboratory Control Sample (LCS) is a blank sample that is spiked with a known amount of analyte and then analyzed. An LCS is similar to an MS, but without the possibility of matrix interference. Given that matrix interference is not an issue, control limits for accuracy and precision in the LCS and its duplicate (LCSD) are usually more rigorous than for MS/MSD analyses. Additionally, data qualification based on LCS/LCSD analyses would apply to each sample in the associated batch, instead of just the parent sample. The percent recovery

control limits for LCS and LCSD analyses are specified in the laboratory documents, as are the RPD control limits for LCS/LCSD sample sets.

One LCS/LCSD analysis should be performed for every analytical batch or every 20 field samples, whichever is more frequent. The frequency requirements were met for each analysis and the percent recovery and RPD values were within the proper control limits, with the following exceptions:

SDG 2206-258: (Pesticides) The RPD values for aldrin and heptachlor were greater than the control limits in the LCS/LCSD extracted on 6/27/2022. There were no positive results for these target analytes in the associated field samples; therefore, no qualifications were required.

SDGs 2206-258 and 2206-305: (Herbicides) The percent recoveries for 2,4-DP, 2,4,5-T, 2,4,5-TP, and 3,5-Dichlorobenzoic acid were greater than the control limits in the LCS extracted on 6/30/2022; however, the percent recoveries for these target analytes were within the control limits in the corresponding LCSD. No action was required for these outliers.

Laboratory Duplicates

Internal laboratory duplicate analyses are performed to monitor the precision of the analyses. Two separate aliquots of a sample are analyzed as distinct samples in the laboratory and the RPD between the two results is calculated. Duplicate analyses should be performed once per analytical batch. If one or more of the samples used has a concentration less than five times the reporting limit for that sample, the absolute difference is used instead of the RPD. For organic analyses, the RPD control limits are specified in the laboratory documents. For inorganic analyses, the RPD control limit for water samples is 20 percent. Laboratory duplicates were analyzed at the proper frequency and the specified acceptance criteria were met.

Reporting Limits

The contract required quantitation limits (CRQL) were met by the laboratory for the target analytes throughout this sampling event, with some exceptions where the CRQL was elevated due to required sample dilution.

OVERALL ASSESSMENT

As was determined by this data validation, the laboratory followed the specified analytical methods. Accuracy was acceptable, as demonstrated by the surrogates, LCS/LCSD, and MS/MSD percent recovery values, with the exceptions noted above. Precision was also acceptable, as demonstrated by the LCS/LCSD, MS/MSD, and laboratory duplicate RPD values, with the exceptions noted above.

The data are acceptable for the intended use, with the following qualifications listed below in Table 2.

TABLE 2: SUMMARY OF QUALIFIED SAMPLES

Sample ID	Analyte	Qualifier	Reason
MW-3-20220621	Nitrate	UJ	Holding Time
MW-6-20220620	Nitrate	UJ	Holding Time
MW-7-20220620	Nitrate	UJ	Holding Time
MW-9-20220623	Nitrate	UJ	Holding Time
MW-10-20220623	Nitrate	J	Holding Time
SWS-1-20220621	Nitrate	J	Holding Time

REFERENCES

- GeoEngineers, Inc., "Interim Action Work Plan, Go East Corp Landfill Site, Everett, Washington, Ecology Agreed Order No. DE 18121 – prepared for Washington State Department of Ecology on Behalf of PG&E, LLC. GEI File No. 6694-002-03, April 23, 2020.
- U.S. Environmental Protection Agency (USEPA). "Guidance for Labeling Externally Validated Laboratory Analytical Data for Superfund Use," EPA-540-R-08-005. January 2009.
- U.S. Environmental Protection Agency (USEPA) 2020a. Contract Laboratory Program National Functional Guidelines for Organic Superfund Methods Data Review, EPA-540-R-20-005. November 2020.
- U.S. Environmental Protection Agency (USEPA) 2020b. Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Methods Data Review, EPA-542-R-20-006. November 2020.



14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

June 30, 2022

Garrett Leque
GeoEngineers, Inc.
554 West Bakerview Road
Bellingham, WA 98226

Re: Analytical Data for Project 6694-002-05 T1200
Laboratory Reference No. 2206-200

Dear Garrett:

Enclosed are the analytical results and associated quality control data for samples submitted on June 21, 2022.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

A handwritten signature in black ink, appearing to read "DB", with a long horizontal stroke extending to the right.

David Baumeister
Project Manager

Enclosures



OnSite Environmental, Inc. 14648 NE 95th Street, Redmond, WA 98052 (425) 883-3881

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: June 30, 2022
Samples Submitted: June 21, 2022
Laboratory Reference: 2206-200
Project: 6694-002-05 T1200

Case Narrative

Samples were collected on June 20, 2022 and received by the laboratory on June 21, 2022. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.



Date of Report: June 30, 2022
Samples Submitted: June 21, 2022
Laboratory Reference: 2206-200
Project: 6694-002-05 T1200

ANALYTICAL REPORT FOR SAMPLES

Client ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
MW-6-20220620	06-200-01	Water	6-20-22	6-21-22	
MW-7-20220620	06-200-02	Water	6-20-22	6-21-22	

DRAFT



Date of Report: June 30, 2022
 Samples Submitted: June 21, 2022
 Laboratory Reference: 2206-200
 Project: 6694-002-05 T1200

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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-6-20220620					
Laboratory ID:	06-200-01					
n-Nitrosodimethylamine	ND	0.95	EPA 8270E	6-23-22	6-23-22	
Pyridine	ND	0.95	EPA 8270E	6-23-22	6-23-22	
Phenol	ND	0.95	EPA 8270E	6-23-22	6-23-22	
Aniline	ND	4.8	EPA 8270E	6-23-22	6-23-22	
bis(2-Chloroethyl)ether	ND	0.95	EPA 8270E	6-23-22	6-23-22	
2-Chlorophenol	ND	0.95	EPA 8270E	6-23-22	6-23-22	
1,3-Dichlorobenzene	ND	0.95	EPA 8270E	6-23-22	6-23-22	
1,4-Dichlorobenzene	ND	0.95	EPA 8270E	6-23-22	6-23-22	
Benzyl alcohol	ND	0.95	EPA 8270E	6-23-22	6-23-22	
1,2-Dichlorobenzene	ND	0.95	EPA 8270E	6-23-22	6-23-22	
2-Methylphenol (o-Cresol)	ND	0.95	EPA 8270E	6-23-22	6-23-22	
bis(2-Chloroisopropyl)ether	ND	0.95	EPA 8270E	6-23-22	6-23-22	
(3+4)-Methylphenol (m,p-Cresol)	ND	0.95	EPA 8270E	6-23-22	6-23-22	
n-Nitroso-di-n-propylamine	ND	0.95	EPA 8270E	6-23-22	6-23-22	
Hexachloroethane	ND	0.95	EPA 8270E	6-23-22	6-23-22	
Nitrobenzene	ND	0.95	EPA 8270E	6-23-22	6-23-22	
Isophorone	ND	0.95	EPA 8270E	6-23-22	6-23-22	
2-Nitrophenol	ND	0.95	EPA 8270E	6-23-22	6-23-22	
2,4-Dimethylphenol	ND	0.95	EPA 8270E	6-23-22	6-23-22	
bis(2-Chloroethoxy)methane	ND	0.95	EPA 8270E	6-23-22	6-23-22	
2,4-Dichlorophenol	ND	0.95	EPA 8270E	6-23-22	6-23-22	
1,2,4-Trichlorobenzene	ND	0.95	EPA 8270E	6-23-22	6-23-22	
Naphthalene	ND	0.095	EPA 8270E/SIM	6-23-22	6-23-22	
4-Chloroaniline	ND	0.95	EPA 8270E	6-23-22	6-23-22	
Hexachlorobutadiene	ND	0.95	EPA 8270E	6-23-22	6-23-22	
4-Chloro-3-methylphenol	ND	0.95	EPA 8270E	6-23-22	6-23-22	
2-Methylnaphthalene	ND	0.095	EPA 8270E/SIM	6-23-22	6-23-22	
1-Methylnaphthalene	ND	0.095	EPA 8270E/SIM	6-23-22	6-23-22	
Hexachlorocyclopentadiene	ND	0.95	EPA 8270E	6-23-22	6-23-22	
2,4,6-Trichlorophenol	ND	0.95	EPA 8270E	6-23-22	6-23-22	
2,3-Dichloroaniline	ND	0.95	EPA 8270E	6-23-22	6-23-22	
2,4,5-Trichlorophenol	ND	0.95	EPA 8270E	6-23-22	6-23-22	
2-Chloronaphthalene	ND	0.95	EPA 8270E	6-23-22	6-23-22	
2-Nitroaniline	ND	0.95	EPA 8270E	6-23-22	6-23-22	
1,4-Dinitrobenzene	ND	0.95	EPA 8270E	6-23-22	6-23-22	
Dimethylphthalate	ND	4.8	EPA 8270E	6-23-22	6-23-22	
1,3-Dinitrobenzene	ND	0.95	EPA 8270E	6-23-22	6-23-22	
2,6-Dinitrotoluene	ND	0.95	EPA 8270E	6-23-22	6-23-22	
1,2-Dinitrobenzene	ND	0.95	EPA 8270E	6-23-22	6-23-22	
Acenaphthylene	ND	0.095	EPA 8270E/SIM	6-23-22	6-23-22	
3-Nitroaniline	ND	0.95	EPA 8270E	6-23-22	6-23-22	



Date of Report: June 30, 2022
 Samples Submitted: June 21, 2022
 Laboratory Reference: 2206-200
 Project: 6694-002-05 T1200

SEMIVOLATILE ORGANICS EPA 8270E/SIM
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-6-20220620					
Laboratory ID:	06-200-01					
2,4-Dinitrophenol	ND	4.8	EPA 8270E	6-23-22	6-23-22	
Acenaphthene	ND	0.095	EPA 8270E/SIM	6-23-22	6-23-22	
4-Nitrophenol	ND	4.8	EPA 8270E	6-23-22	6-23-22	
2,4-Dinitrotoluene	ND	0.95	EPA 8270E	6-23-22	6-23-22	
Dibenzofuran	ND	0.95	EPA 8270E	6-23-22	6-23-22	
2,3,5,6-Tetrachlorophenol	ND	0.95	EPA 8270E	6-23-22	6-23-22	
2,3,4,6-Tetrachlorophenol	ND	0.95	EPA 8270E	6-23-22	6-23-22	
Diethylphthalate	ND	0.95	EPA 8270E	6-23-22	6-23-22	
4-Chlorophenyl-phenylether	ND	0.95	EPA 8270E	6-23-22	6-23-22	
4-Nitroaniline	ND	0.95	EPA 8270E	6-23-22	6-23-22	
Fluorene	ND	0.095	EPA 8270E/SIM	6-23-22	6-23-22	
4,6-Dinitro-2-methylphenol	ND	4.8	EPA 8270E	6-23-22	6-23-22	
n-Nitrosodiphenylamine	ND	0.95	EPA 8270E	6-23-22	6-23-22	
1,2-Diphenylhydrazine	ND	0.95	EPA 8270E	6-23-22	6-23-22	
4-Bromophenyl-phenylether	ND	0.95	EPA 8270E	6-23-22	6-23-22	
Hexachlorobenzene	ND	0.95	EPA 8270E	6-23-22	6-23-22	
Pentachlorophenol	ND	4.8	EPA 8270E	6-23-22	6-23-22	
Phenanthrene	ND	0.095	EPA 8270E/SIM	6-23-22	6-23-22	
Anthracene	ND	0.095	EPA 8270E/SIM	6-23-22	6-23-22	
Carbazole	ND	0.95	EPA 8270E	6-23-22	6-23-22	
Di-n-butylphthalate	ND	4.8	EPA 8270E	6-23-22	6-23-22	
Fluoranthene	ND	0.095	EPA 8270E/SIM	6-23-22	6-23-22	
Pyrene	ND	0.095	EPA 8270E/SIM	6-23-22	6-23-22	
Butylbenzylphthalate	ND	0.95	EPA 8270E	6-23-22	6-23-22	
bis-2-Ethylhexyladipate	ND	4.8	EPA 8270E	6-23-22	6-23-22	
3,3'-Dichlorobenzidine	ND	4.8	EPA 8270E	6-23-22	6-23-22	
Benzo[a]anthracene	ND	0.0095	EPA 8270E/SIM	6-23-22	6-23-22	
Chrysene	0.010	0.0095	EPA 8270E/SIM	6-23-22	6-23-22	
bis(2-Ethylhexyl)phthalate	ND	1.9	EPA 8270E	6-23-22	6-23-22	
Di-n-octylphthalate	ND	0.95	EPA 8270E	6-23-22	6-23-22	
Benzo[b]fluoranthene	ND	0.028	EPA 8270E/SIM	6-23-22	6-23-22	
Benzo(j,k)fluoranthene	ND	0.0095	EPA 8270E/SIM	6-23-22	6-23-22	
Benzo[a]pyrene	ND	0.0095	EPA 8270E/SIM	6-23-22	6-23-22	
Indeno[1,2,3-cd]pyrene	ND	0.0095	EPA 8270E/SIM	6-23-22	6-23-22	
Dibenz[a,h]anthracene	ND	0.0095	EPA 8270E/SIM	6-23-22	6-23-22	
Benzo[g,h,i]perylene	ND	0.0095	EPA 8270E/SIM	6-23-22	6-23-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
2-Fluorophenol	25	10 - 81				
Phenol-d6	20	10 - 86				
Nitrobenzene-d5	45	27 - 105				
2-Fluorobiphenyl	54	33 - 100				
2,4,6-Tribromophenol	80	25 - 124				
Terphenyl-d14	63	40 - 116				



Date of Report: June 30, 2022
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 Laboratory Reference: 2206-200
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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-7-20220620					
Laboratory ID:	06-200-02					
n-Nitrosodimethylamine	ND	0.95	EPA 8270E	6-23-22	6-23-22	
Pyridine	ND	0.95	EPA 8270E	6-23-22	6-23-22	
Phenol	ND	0.95	EPA 8270E	6-23-22	6-23-22	
Aniline	ND	4.8	EPA 8270E	6-23-22	6-23-22	
bis(2-Chloroethyl)ether	ND	0.95	EPA 8270E	6-23-22	6-23-22	
2-Chlorophenol	ND	0.95	EPA 8270E	6-23-22	6-23-22	
1,3-Dichlorobenzene	ND	0.95	EPA 8270E	6-23-22	6-23-22	
1,4-Dichlorobenzene	ND	0.95	EPA 8270E	6-23-22	6-23-22	
Benzyl alcohol	ND	0.95	EPA 8270E	6-23-22	6-23-22	
1,2-Dichlorobenzene	ND	0.95	EPA 8270E	6-23-22	6-23-22	
2-Methylphenol (o-Cresol)	ND	0.95	EPA 8270E	6-23-22	6-23-22	
bis(2-Chloroisopropyl)ether	ND	0.95	EPA 8270E	6-23-22	6-23-22	
(3+4)-Methylphenol (m,p-Cresol)	ND	0.95	EPA 8270E	6-23-22	6-23-22	
n-Nitroso-di-n-propylamine	ND	0.95	EPA 8270E	6-23-22	6-23-22	
Hexachloroethane	ND	0.95	EPA 8270E	6-23-22	6-23-22	
Nitrobenzene	ND	0.95	EPA 8270E	6-23-22	6-23-22	
Isophorone	ND	0.95	EPA 8270E	6-23-22	6-23-22	
2-Nitrophenol	ND	0.95	EPA 8270E	6-23-22	6-23-22	
2,4-Dimethylphenol	ND	0.95	EPA 8270E	6-23-22	6-23-22	
bis(2-Chloroethoxy)methane	ND	0.95	EPA 8270E	6-23-22	6-23-22	
2,4-Dichlorophenol	ND	0.95	EPA 8270E	6-23-22	6-23-22	
1,2,4-Trichlorobenzene	ND	0.95	EPA 8270E	6-23-22	6-23-22	
Naphthalene	ND	0.095	EPA 8270E/SIM	6-23-22	6-23-22	
4-Chloroaniline	ND	0.95	EPA 8270E	6-23-22	6-23-22	
Hexachlorobutadiene	ND	0.95	EPA 8270E	6-23-22	6-23-22	
4-Chloro-3-methylphenol	ND	0.95	EPA 8270E	6-23-22	6-23-22	
2-Methylnaphthalene	ND	0.095	EPA 8270E/SIM	6-23-22	6-23-22	
1-Methylnaphthalene	ND	0.095	EPA 8270E/SIM	6-23-22	6-23-22	
Hexachlorocyclopentadiene	ND	0.95	EPA 8270E	6-23-22	6-23-22	
2,4,6-Trichlorophenol	ND	0.95	EPA 8270E	6-23-22	6-23-22	
2,3-Dichloroaniline	ND	0.95	EPA 8270E	6-23-22	6-23-22	
2,4,5-Trichlorophenol	ND	0.95	EPA 8270E	6-23-22	6-23-22	
2-Chloronaphthalene	ND	0.95	EPA 8270E	6-23-22	6-23-22	
2-Nitroaniline	ND	0.95	EPA 8270E	6-23-22	6-23-22	
1,4-Dinitrobenzene	ND	0.95	EPA 8270E	6-23-22	6-23-22	
Dimethylphthalate	ND	4.8	EPA 8270E	6-23-22	6-23-22	
1,3-Dinitrobenzene	ND	0.95	EPA 8270E	6-23-22	6-23-22	
2,6-Dinitrotoluene	ND	0.95	EPA 8270E	6-23-22	6-23-22	
1,2-Dinitrobenzene	ND	0.95	EPA 8270E	6-23-22	6-23-22	
Acenaphthylene	ND	0.095	EPA 8270E/SIM	6-23-22	6-23-22	
3-Nitroaniline	ND	0.95	EPA 8270E	6-23-22	6-23-22	



Date of Report: June 30, 2022
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-7-20220620					
Laboratory ID:	06-200-02					
2,4-Dinitrophenol	ND	4.8	EPA 8270E	6-23-22	6-23-22	
Acenaphthene	ND	0.095	EPA 8270E/SIM	6-23-22	6-23-22	
4-Nitrophenol	ND	4.8	EPA 8270E	6-23-22	6-23-22	
2,4-Dinitrotoluene	ND	0.95	EPA 8270E	6-23-22	6-23-22	
Dibenzofuran	ND	0.95	EPA 8270E	6-23-22	6-23-22	
2,3,5,6-Tetrachlorophenol	ND	0.95	EPA 8270E	6-23-22	6-23-22	
2,3,4,6-Tetrachlorophenol	ND	0.95	EPA 8270E	6-23-22	6-23-22	
Diethylphthalate	ND	0.95	EPA 8270E	6-23-22	6-23-22	
4-Chlorophenyl-phenylether	ND	0.95	EPA 8270E	6-23-22	6-23-22	
4-Nitroaniline	ND	0.95	EPA 8270E	6-23-22	6-23-22	
Fluorene	ND	0.095	EPA 8270E/SIM	6-23-22	6-23-22	
4,6-Dinitro-2-methylphenol	ND	4.8	EPA 8270E	6-23-22	6-23-22	
n-Nitrosodiphenylamine	ND	0.95	EPA 8270E	6-23-22	6-23-22	
1,2-Diphenylhydrazine	ND	0.95	EPA 8270E	6-23-22	6-23-22	
4-Bromophenyl-phenylether	ND	0.95	EPA 8270E	6-23-22	6-23-22	
Hexachlorobenzene	ND	0.95	EPA 8270E	6-23-22	6-23-22	
Pentachlorophenol	ND	4.8	EPA 8270E	6-23-22	6-23-22	
Phenanthrene	ND	0.095	EPA 8270E/SIM	6-23-22	6-23-22	
Anthracene	ND	0.095	EPA 8270E/SIM	6-23-22	6-23-22	
Carbazole	ND	0.95	EPA 8270E	6-23-22	6-23-22	
Di-n-butylphthalate	ND	4.8	EPA 8270E	6-23-22	6-23-22	
Fluoranthene	ND	0.095	EPA 8270E/SIM	6-23-22	6-23-22	
Pyrene	ND	0.095	EPA 8270E/SIM	6-23-22	6-23-22	
Butylbenzylphthalate	ND	0.95	EPA 8270E	6-23-22	6-23-22	
bis-2-Ethylhexyladipate	ND	4.8	EPA 8270E	6-23-22	6-23-22	
3,3'-Dichlorobenzidine	ND	4.8	EPA 8270E	6-23-22	6-23-22	
Benzo[a]anthracene	0.011	0.0095	EPA 8270E/SIM	6-23-22	6-23-22	
Chrysene	0.013	0.0095	EPA 8270E/SIM	6-23-22	6-23-22	
bis(2-Ethylhexyl)phthalate	ND	1.9	EPA 8270E	6-23-22	6-23-22	
Di-n-octylphthalate	ND	0.95	EPA 8270E	6-23-22	6-23-22	
Benzo[b]fluoranthene	ND	0.028	EPA 8270E/SIM	6-23-22	6-23-22	
Benzo(j,k)fluoranthene	ND	0.0095	EPA 8270E/SIM	6-23-22	6-23-22	
Benzo[a]pyrene	0.015	0.0095	EPA 8270E/SIM	6-23-22	6-23-22	
Indeno[1,2,3-cd]pyrene	0.012	0.0095	EPA 8270E/SIM	6-23-22	6-23-22	
Dibenz[a,h]anthracene	ND	0.0095	EPA 8270E/SIM	6-23-22	6-23-22	
Benzo[g,h,i]perylene	0.011	0.0095	EPA 8270E/SIM	6-23-22	6-23-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
2-Fluorophenol	27	10 - 81				
Phenol-d6	22	10 - 86				
Nitrobenzene-d5	53	27 - 105				
2-Fluorobiphenyl	56	33 - 100				
2,4,6-Tribromophenol	78	25 - 124				
Terphenyl-d14	59	40 - 116				



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 Samples Submitted: June 21, 2022
 Laboratory Reference: 2206-200
 Project: 6694-002-05 T1200

**TOTAL METALS
 EPA 200.8/200.7**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-6-20220620					
Laboratory ID:	06-200-01					
Arsenic	5.2	3.3	EPA 200.8	6-23-22	6-23-22	
Chromium	ND	11	EPA 200.8	6-23-22	6-23-22	
Iron	1200	50	EPA 200.7	6-22-22	6-22-22	
Magnesium	24000	1000	EPA 200.7	6-22-22	6-22-22	
Manganese	2400	10	EPA 200.7	6-22-22	6-22-22	
Nickel	ND	22	EPA 200.8	6-23-22	6-23-22	

Client ID:	MW-7-20220620					
Laboratory ID:	06-200-02					
Arsenic	11	3.3	EPA 200.8	6-23-22	6-23-22	
Chromium	ND	11	EPA 200.8	6-23-22	6-23-22	
Iron	550	50	EPA 200.7	6-22-22	6-22-22	
Magnesium	11000	1000	EPA 200.7	6-22-22	6-22-22	
Manganese	40	10	EPA 200.7	6-22-22	6-22-22	
Nickel	ND	22	EPA 200.8	6-23-22	6-23-22	



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DISSOLVED METALS
EPA 200.8/200.7

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-6-20220620					
Laboratory ID:	06-200-01					
Arsenic	4.4	3.0	EPA 200.8		6-23-22	
Calcium	49000	1100	EPA 200.7		6-22-22	
Chromium	ND	10	EPA 200.8		6-23-22	
Iron	310	56	EPA 200.7		6-22-22	
Magnesium	24000	1100	EPA 200.7		6-22-22	
Manganese	2400	11	EPA 200.7		6-23-22	
Nickel	ND	20	EPA 200.8		6-23-22	
Potassium	3100	1100	EPA 200.7		6-22-22	
Sodium	17000	1100	EPA 200.7		6-22-22	

Client ID:	MW-7-20220620					
Laboratory ID:	06-200-02					
Arsenic	9.1	3.0	EPA 200.8		6-23-22	
Calcium	20000	1100	EPA 200.7		6-22-22	
Chromium	ND	10	EPA 200.8		6-23-22	
Iron	ND	56	EPA 200.7		6-22-22	
Magnesium	12000	1100	EPA 200.7		6-22-22	
Manganese	37	11	EPA 200.7		6-23-22	
Nickel	ND	20	EPA 200.8		6-23-22	
Potassium	2300	1100	EPA 200.7		6-22-22	
Sodium	6300	1100	EPA 200.7		6-22-22	



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**TOTAL ALKALINITY
 SM 2320B**

Matrix: Water
 Units: mg CaCO₃/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-6-20220620					
Laboratory ID:	06-200-01					
Total Alkalinity	220	2.0	SM 2320B	6-21-22	6-21-22	
Client ID:	MW-7-20220620					
Laboratory ID:	06-200-02					
Total Alkalinity	96	2.0	SM 2320B	6-21-22	6-21-22	



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**BICARBONATE
 SM 2320B**

Matrix: Water
 Units: mg CaCO₃/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-6-20220620					
Laboratory ID:	06-200-01					
Bicarbonate	220	2.0	SM 2320B	6-21-22	6-21-22	
Client ID:	MW-7-20220620					
Laboratory ID:	06-200-02					
Bicarbonate	96	2.0	SM 2320B	6-21-22	6-21-22	



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**TOTAL DISSOLVED SOLIDS
 SM 2540C**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-6-20220620					
Laboratory ID:	06-200-01					
Total Dissolved Solids	300	13	SM 2540C	6-24-22	6-27-22	
Client ID:	MW-7-20220620					
Laboratory ID:	06-200-02					
Total Dissolved Solids	140	13	SM 2540C	6-24-22	6-27-22	



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CHLORIDE
SM 4500-Cl E

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-6-20220620					
Laboratory ID:	06-200-01					
Chloride	5.5	2.0	SM 4500-Cl E	6-27-22	6-27-22	
Client ID:	MW-7-20220620					
Laboratory ID:	06-200-02					
Chloride	5.6	2.0	SM 4500-Cl E	6-27-22	6-27-22	



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NITRATE (as Nitrogen)
EPA 353.2

Matrix: Water
 Units: mg/L-N

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-6-20220620					
Laboratory ID:	06-200-01					
Nitrate	ND	0.050	EPA 353.2	6-24-22	6-24-22	
Client ID:	MW-7-20220620					
Laboratory ID:	06-200-02					
Nitrate	ND	0.050	EPA 353.2	6-24-22	6-24-22	



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SULFATE
ASTM D516-11

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-6-20220620					
Laboratory ID:	06-200-01					
Sulfate	28	10	ASTM D516-11	6-28-22	6-28-22	
Client ID:	MW-7-20220620					
Laboratory ID:	06-200-02					
Sulfate	5.7	5.0	ASTM D516-11	6-28-22	6-28-22	



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AMMONIA (as Nitrogen)
SM 4500-NH₃ D

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-6-20220620					
Laboratory ID:	06-200-01					
Ammonia	0.068	0.050	SM 4500-NH3 D	6-30-22	6-30-22	
Client ID:	MW-7-20220620					
Laboratory ID:	06-200-02					
Ammonia	ND	0.050	SM 4500-NH3 D	6-30-22	6-30-22	



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TOC by SM 5310B

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-6-20220620					
Laboratory ID:	06-200-01					
Total Organic Carbon	4.6	1.0	SM 5310B	6-23-22	6-23-22	

Client ID:	MW-7-20220620					
Laboratory ID:	06-200-02					
Total Organic Carbon	ND	1.0	SM 5310B	6-23-22	6-23-22	



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**SEMIVOLATILE ORGANICS EPA 8270E/SIM
 QUALITY CONTROL**

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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0623W1					
n-Nitrosodimethylamine	ND	1.0	EPA 8270E	6-23-22	6-23-22	
Pyridine	ND	1.0	EPA 8270E	6-23-22	6-23-22	
Phenol	ND	1.0	EPA 8270E	6-23-22	6-23-22	
Aniline	ND	5.0	EPA 8270E	6-23-22	6-23-22	
bis(2-Chloroethyl)ether	ND	1.0	EPA 8270E	6-23-22	6-23-22	
2-Chlorophenol	ND	1.0	EPA 8270E	6-23-22	6-23-22	
1,3-Dichlorobenzene	ND	1.0	EPA 8270E	6-23-22	6-23-22	
1,4-Dichlorobenzene	ND	1.0	EPA 8270E	6-23-22	6-23-22	
Benzyl alcohol	ND	1.0	EPA 8270E	6-23-22	6-23-22	
1,2-Dichlorobenzene	ND	1.0	EPA 8270E	6-23-22	6-23-22	
2-Methylphenol (o-Cresol)	ND	1.0	EPA 8270E	6-23-22	6-23-22	
bis(2-Chloroisopropyl)ether	ND	1.0	EPA 8270E	6-23-22	6-23-22	
(3+4)-Methylphenol (m,p-Cresol)	ND	1.0	EPA 8270E	6-23-22	6-23-22	
n-Nitroso-di-n-propylamine	ND	1.0	EPA 8270E	6-23-22	6-23-22	
Hexachloroethane	ND	1.0	EPA 8270E	6-23-22	6-23-22	
Nitrobenzene	ND	1.0	EPA 8270E	6-23-22	6-23-22	
Isophorone	ND	1.0	EPA 8270E	6-23-22	6-23-22	
2-Nitrophenol	ND	1.0	EPA 8270E	6-23-22	6-23-22	
2,4-Dimethylphenol	ND	1.0	EPA 8270E	6-23-22	6-23-22	
bis(2-Chloroethoxy)methane	ND	1.0	EPA 8270E	6-23-22	6-23-22	
2,4-Dichlorophenol	ND	1.0	EPA 8270E	6-23-22	6-23-22	
1,2,4-Trichlorobenzene	ND	1.0	EPA 8270E	6-23-22	6-23-22	
Naphthalene	ND	0.10	EPA 8270E/SIM	6-23-22	6-23-22	
4-Chloroaniline	ND	1.0	EPA 8270E	6-23-22	6-23-22	
Hexachlorobutadiene	ND	1.0	EPA 8270E	6-23-22	6-23-22	
4-Chloro-3-methylphenol	ND	1.0	EPA 8270E	6-23-22	6-23-22	
2-Methylnaphthalene	ND	0.10	EPA 8270E/SIM	6-23-22	6-23-22	
1-Methylnaphthalene	ND	0.10	EPA 8270E/SIM	6-23-22	6-23-22	
Hexachlorocyclopentadiene	ND	1.0	EPA 8270E	6-23-22	6-23-22	
2,4,6-Trichlorophenol	ND	1.0	EPA 8270E	6-23-22	6-23-22	
2,3-Dichloroaniline	ND	1.0	EPA 8270E	6-23-22	6-23-22	
2,4,5-Trichlorophenol	ND	1.0	EPA 8270E	6-23-22	6-23-22	
2-Chloronaphthalene	ND	1.0	EPA 8270E	6-23-22	6-23-22	
2-Nitroaniline	ND	1.0	EPA 8270E	6-23-22	6-23-22	
1,4-Dinitrobenzene	ND	1.0	EPA 8270E	6-23-22	6-23-22	
Dimethylphthalate	ND	5.0	EPA 8270E	6-23-22	6-23-22	
1,3-Dinitrobenzene	ND	1.0	EPA 8270E	6-23-22	6-23-22	
2,6-Dinitrotoluene	ND	1.0	EPA 8270E	6-23-22	6-23-22	
1,2-Dinitrobenzene	ND	1.0	EPA 8270E	6-23-22	6-23-22	
Acenaphthylene	ND	0.10	EPA 8270E/SIM	6-23-22	6-23-22	
3-Nitroaniline	ND	1.0	EPA 8270E	6-23-22	6-23-22	



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**SEMIVOLATILE ORGANICS EPA 8270E/SIM
 QUALITY CONTROL**

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0623W1					
2,4-Dinitrophenol	ND	5.0	EPA 8270E	6-23-22	6-23-22	
Acenaphthene	ND	0.10	EPA 8270E/SIM	6-23-22	6-23-22	
4-Nitrophenol	ND	5.0	EPA 8270E	6-23-22	6-23-22	
2,4-Dinitrotoluene	ND	1.0	EPA 8270E	6-23-22	6-23-22	
Dibenzofuran	ND	1.0	EPA 8270E	6-23-22	6-23-22	
2,3,5,6-Tetrachlorophenol	ND	1.0	EPA 8270E	6-23-22	6-23-22	
2,3,4,6-Tetrachlorophenol	ND	1.0	EPA 8270E	6-23-22	6-23-22	
Diethylphthalate	ND	1.0	EPA 8270E	6-23-22	6-23-22	
4-Chlorophenyl-phenylether	ND	1.0	EPA 8270E	6-23-22	6-23-22	
4-Nitroaniline	ND	1.0	EPA 8270E	6-23-22	6-23-22	
Fluorene	ND	0.10	EPA 8270E/SIM	6-23-22	6-23-22	
4,6-Dinitro-2-methylphenol	ND	5.0	EPA 8270E	6-23-22	6-23-22	
n-Nitrosodiphenylamine	ND	1.0	EPA 8270E	6-23-22	6-23-22	
1,2-Diphenylhydrazine	ND	1.0	EPA 8270E	6-23-22	6-23-22	
4-Bromophenyl-phenylether	ND	1.0	EPA 8270E	6-23-22	6-23-22	
Hexachlorobenzene	ND	1.0	EPA 8270E	6-23-22	6-23-22	
Pentachlorophenol	ND	5.0	EPA 8270E	6-23-22	6-23-22	
Phenanthrene	ND	0.10	EPA 8270E/SIM	6-23-22	6-23-22	
Anthracene	ND	0.10	EPA 8270E/SIM	6-23-22	6-23-22	
Carbazole	ND	1.0	EPA 8270E	6-23-22	6-23-22	
Di-n-butylphthalate	ND	5.0	EPA 8270E	6-23-22	6-23-22	
Fluoranthene	ND	0.10	EPA 8270E/SIM	6-23-22	6-23-22	
Pyrene	ND	0.10	EPA 8270E/SIM	6-23-22	6-23-22	
Butylbenzylphthalate	ND	1.0	EPA 8270E	6-23-22	6-23-22	
bis-2-Ethylhexyladipate	ND	5.0	EPA 8270E	6-23-22	6-23-22	
3,3'-Dichlorobenzidine	ND	5.0	EPA 8270E	6-23-22	6-23-22	
Benzo[a]anthracene	ND	0.010	EPA 8270E/SIM	6-23-22	6-23-22	
Chrysene	ND	0.010	EPA 8270E/SIM	6-23-22	6-23-22	
bis(2-Ethylhexyl)phthalate	ND	2.0	EPA 8270E	6-23-22	6-23-22	
Di-n-octylphthalate	ND	1.0	EPA 8270E	6-23-22	6-23-22	
Benzo[b]fluoranthene	ND	0.029	EPA 8270E/SIM	6-23-22	6-23-22	
Benzo(j,k)fluoranthene	ND	0.010	EPA 8270E/SIM	6-23-22	6-23-22	
Benzo[a]pyrene	ND	0.010	EPA 8270E/SIM	6-23-22	6-23-22	
Indeno[1,2,3-cd]pyrene	ND	0.010	EPA 8270E/SIM	6-23-22	6-23-22	
Dibenz[a,h]anthracene	ND	0.010	EPA 8270E/SIM	6-23-22	6-23-22	
Benzo[g,h,i]perylene	ND	0.010	EPA 8270E/SIM	6-23-22	6-23-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
2-Fluorophenol	38	10 - 81				
Phenol-d6	30	10 - 86				
Nitrobenzene-d5	55	27 - 105				
2-Fluorobiphenyl	63	33 - 100				
2,4,6-Tribromophenol	95	25 - 124				
Terphenyl-d14	75	40 - 116				



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**SEMIVOLATILE ORGANICS EPA 8270E/SIM
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB0623W1									
	SB	SBD	SB	SBD	SB	SBD				
Phenol	16.2	16.9	40.0	40.0	41	42	16 - 53	4	33	
2-Chlorophenol	30.1	31.5	40.0	40.0	75	79	42 - 90	5	34	
1,4-Dichlorobenzene	13.1	13.8	20.0	20.0	66	69	32 - 83	5	34	
n-Nitroso-di-n-propylamine	16.0	17.0	20.0	20.0	80	85	41 - 99	6	32	
1,2,4-Trichlorobenzene	14.6	15.1	20.0	20.0	73	76	35 - 91	3	35	
4-Chloro-3-methylphenol	32.6	34.0	40.0	40.0	82	85	55 - 98	4	22	
Acenaphthene	15.8	16.4	20.0	20.0	79	82	40 - 96	4	23	
4-Nitrophenol	20.6	22.0	40.0	40.0	52	55	20 - 77	7	28	
2,4-Dinitrotoluene	16.0	16.9	20.0	20.0	80	85	50 - 102	5	22	
Pentachlorophenol	33.4	39.9	40.0	40.0	84	100	46 - 129	18	26	
Pyrene	16.5	17.3	20.0	20.0	83	87	52 - 105	5	20	
<i>Surrogate:</i>										
2-Fluorophenol					45	47	10 - 81			
Phenol-d6					33	35	10 - 86			
Nitrobenzene-d5					65	66	27 - 105			
2-Fluorobiphenyl					64	67	33 - 100			
2,4,6-Tribromophenol					86	92	25 - 124			
Terphenyl-d14					68	71	40 - 116			



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**TOTAL METALS
 EPA 200.8/200.7
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0622WH1					
Iron	ND	50	EPA 200.7	6-22-22	6-22-22	
Magnesium	ND	1000	EPA 200.7	6-22-22	6-22-22	
Manganese	ND	10	EPA 200.7	6-23-22	6-23-22	
METHOD BLANK						
Laboratory ID:	MB0623WM1					
Arsenic	ND	3.3	EPA 200.8	6-23-22	6-23-22	
Chromium	ND	11	EPA 200.8	6-23-22	6-23-22	
Nickel	ND	22	EPA 200.8	6-23-22	6-23-22	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	06-120-02							
	ORIG	DUP						
Iron	1080	1090	NA	NA	NA	NA	1	20
Magnesium	16300	16000	NA	NA	NA	NA	2	20
Manganese	16.4	16.1	NA	NA	NA	NA	2	20
DUPLICATE								
Laboratory ID:	06-153-01							
Arsenic	ND	ND	NA	NA	NA	NA	NA	20
Chromium	ND	ND	NA	NA	NA	NA	NA	20
Nickel	ND	ND	NA	NA	NA	NA	NA	20

MATRIX SPIKES

Laboratory ID:	06-120-02									
	MS	MSD	MS	MSD	MS	MSD				
Iron	22400	22100	20000	20000	1080	107	105	75-125	1	20
Magnesium	36800	35500	20000	20000	16300	103	96	75-125	4	20
Manganese	531	520	500	500	16.4	103	101	75-125	2	20
MATRIX SPIKES										
Laboratory ID:	06-153-01									
Arsenic	110	110	111	111	ND	99	99	75-125	0	20
Chromium	105	107	111	111	ND	95	96	75-125	1	20
Nickel	100	99.8	111	111	ND	90	90	75-125	0	20



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**DISSOLVED METALS
 EPA 200.8/200.7
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0623D1					
Manganese	ND	11	EPA 200.7		6-23-22	
METHOD BLANK						
Laboratory ID:	MB0622D1					
Calcium	ND	1100	EPA 200.7		6-22-22	
Iron	ND	56	EPA 200.7		6-22-22	
Magnesium	ND	1100	EPA 200.7		6-22-22	
Potassium	ND	1100	EPA 200.7		6-22-22	
Sodium	ND	1100	EPA 200.7		6-22-22	
METHOD BLANK						
Laboratory ID:	MB0623D1					
Arsenic	ND	3.0	EPA 200.8		6-23-22	
Chromium	ND	10	EPA 200.8		6-23-22	
Nickel	ND	20	EPA 200.8		6-23-22	



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**DISSOLVED METALS
 EPA 200.8/200.7
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	06-200-01							
	ORIG	DUP						
Manganese	37.4	36.9	NA	NA	NA	NA	1	20
Laboratory ID:	06-200-01							
	ORIG	DUP						
Calcium	19600	20000	NA	NA	NA	NA	2	20
Iron	ND	ND	NA	NA	NA	NA	NA	20
Magnesium	12100	12200	NA	NA	NA	NA	1	20
Potassium	2320	2330	NA	NA	NA	NA	0	20
Sodium	6290	6280	NA	NA	NA	NA	0	20
Laboratory ID:	06-153-01							
Arsenic	ND	ND	NA	NA	NA	NA	NA	20
Chromium	ND	ND	NA	NA	NA	NA	NA	20
Nickel	ND	ND	NA	NA	NA	NA	NA	20
Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
MATRIX SPIKES								
Laboratory ID:	06-200-01							
	MS	MSD	MS	MSD	MS	MSD		
Manganese	602	603	556	556	37.4	101 102	75-125	0 20
Laboratory ID:	06-200-01							
	MS	MSD	MS	MSD	MS	MSD		
Calcium	43200	43000	22200	22200	19600	106 105	75-125	1 20
Iron	25300	25000	22200	22200	ND	114 113	75-125	1 20
Magnesium	35000	34900	22200	22200	12100	103 103	75-125	0 20
Potassium	26200	26200	22200	22200	2320	108 108	75-125	0 20
Sodium	31100	31100	22200	22200	6290	112 112	75-125	0 20
Laboratory ID:	06-153-01							
Arsenic	83.6	87.0	80.0	80.0	ND	105 109	75-125	4 20
Chromium	76.6	75.8	80.0	80.0	ND	96 95	75-125	1 20
Nickel	73.0	74.2	80.0	80.0	ND	91 93	75-125	2 20



Date of Report: June 30, 2022
 Samples Submitted: June 21, 2022
 Laboratory Reference: 2206-200
 Project: 6694-002-05 T1200

**TOTAL ALKALINITY
 SM 2320B
 QUALITY CONTROL**

Matrix: Water
 Units: mg CaCO₃/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0621W2					
Total Alkalinity	ND	2.0	SM 2320B	6-21-22	6-21-22	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	06-179-01							
	ORIG	DUP						
Total Alkalinity	20.0	22.0	NA	NA	NA	10	10	

SPIKE BLANK								
Laboratory ID:	SB0621W2							
	SB	SB		SB				
Total Alkalinity	92.0	100	NA	92	89-110	NA	NA	



Date of Report: June 30, 2022
 Samples Submitted: June 21, 2022
 Laboratory Reference: 2206-200
 Project: 6694-002-05 T1200

**BICARBONATE
 SM 2320B
 QUALITY CONTROL**

Matrix: Water
 Units: mg CaCO₃/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0621W2					
Bicarbonate	ND	2.0	SM 2320B	6-21-22	6-21-22	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	06-179-01							
	ORIG	DUP						
Bicarbonate	20.0	22.0	NA	NA	NA	10	10	

SPIKE BLANK								
Laboratory ID:	SB0621W2							
	SB	SB		SB				
Bicarbonate	92.0	100	NA	92	89-110	NA	NA	



Date of Report: June 30, 2022
 Samples Submitted: June 21, 2022
 Laboratory Reference: 2206-200
 Project: 6694-002-05 T1200

**TOTAL DISSOLVED SOLIDS
 SM 2540C
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0624W1					
Total Dissolved Solids	ND	13	SM 2540C	6-24-22	6-27-22	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	06-200-01							
	ORIG	DUP						
Total Dissolved Solids	303	283	NA	NA	NA	7	23	

SPIKE BLANK								
Laboratory ID:	SB0624W1							
	SB	SB		SB				
Total Dissolved Solids	463	500	NA	93	89-110	NA	NA	



Date of Report: June 30, 2022
 Samples Submitted: June 21, 2022
 Laboratory Reference: 2206-200
 Project: 6694-002-05 T1200

**CHLORIDE
 SM 4500-Cl E
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0627W2					
Chloride	ND	2.0	SM 4500-Cl E	6-27-22	6-27-22	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	06-162-01							
	ORIG	DUP						
Chloride	26.8	27.2	NA	NA	NA	1	11	

MATRIX SPIKE								
Laboratory ID:	06-162-01							
	MS	MS		MS				
Chloride	80.6	50.0	26.8	108	90-121	NA	NA	

SPIKE BLANK								
Laboratory ID:	SB0627W2							
	SB	SB		SB				
Chloride	56.9	50.0	NA	114	90-119	NA	NA	



Date of Report: June 30, 2022
 Samples Submitted: June 21, 2022
 Laboratory Reference: 2206-200
 Project: 6694-002-05 T1200

**NITRATE (as Nitrogen)
 EPA 353.2
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L-N

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0624W1					
Nitrate	ND	0.050	EPA 353.2	6-24-22	6-24-22	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	06-247-01							
	ORIG	DUP						
Nitrate	ND	ND	NA	NA	NA	NA	10	

MATRIX SPIKE								
Laboratory ID:	06-247-01							
	MS	MS		MS				
Nitrate	2.18	2.00	ND	109	88-125	NA	NA	

SPIKE BLANK								
Laboratory ID:	SB0624W1							
	SB	SB		SB				
Nitrate	1.97	2.00	NA	99	90-120	NA	NA	



Date of Report: June 30, 2022
 Samples Submitted: June 21, 2022
 Laboratory Reference: 2206-200
 Project: 6694-002-05 T1200

**SULFATE
 ASTM D516-11
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0628W1					
Sulfate	ND	5.0	ASTM D516-11	6-28-22	6-28-22	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	06-268-01							
	ORIG	DUP						
Sulfate	14.4	14.6	NA	NA	NA	1	10	

MATRIX SPIKE								
Laboratory ID:	06-268-01							
	MS	MS		MS				
Sulfate	22.3	10.0	14.4	79	72-128	NA	NA	

SPIKE BLANK								
Laboratory ID:	SB0628W1							
	SB	SB		SB				
Sulfate	10.4	10.0	NA	104	85-114	NA	NA	



Date of Report: June 30, 2022
 Samples Submitted: June 21, 2022
 Laboratory Reference: 2206-200
 Project: 6694-002-05 T1200

**AMMONIA (as Nitrogen)
 SM 4500-NH₃ D
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0630W1					
Ammonia	ND	0.050	SM 4500-NH ₃ D	6-30-22	6-30-22	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	06-200-02							
	ORIG	DUP						
Ammonia	ND	ND	NA	NA	NA	NA	15	

MATRIX SPIKE								
Laboratory ID:	06-200-02							
	MS	MS		MS				
Ammonia	4.45	5.00	ND	89	87-110	NA	NA	

SPIKE BLANK								
Laboratory ID:	SB0630W1							
	SB	SB		SB				
Ammonia	4.56	5.00	NA	91	88-110	NA	NA	



Date of Report: June 30, 2022
 Samples Submitted: June 21, 2022
 Laboratory Reference: 2206-200
 Project: 6694-002-05 T1200

TOC by SM 5310B

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0623W1					
Total Organic Carbon	ND	1.0	SM 5310B	6-23-22	6-23-22	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	06-132-04							
	ORIG	DUP						
Total Organic Carbon	1.11	1.07	NA	NA	NA	4	12	

MATRIX SPIKE								
Laboratory ID:	06-132-04							
	MS	MS		MS				
Total Organic Carbon	9.77	10.0	1.11	87	80-120	NA	NA	

SPIKE BLANK								
Laboratory ID:	SB0623W1							
	SB	SB		SB				
Total Organic Carbon	9.69	10.0	NA	97	80-118	NA	NA	





Data Qualifiers and Abbreviations

- A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.
 - B - The analyte indicated was also found in the blank sample.
 - C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.
 - E - The value reported exceeds the quantitation range and is an estimate.
 - F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.
 - H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.
 - I - Compound recovery is outside of the control limits.
 - J - The value reported was below the practical quantitation limit. The value is an estimate.
 - K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.
 - L - The RPD is outside of the control limits.
 - M - Hydrocarbons in the gasoline range are impacting the diesel range result.
 - M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.
 - N - Hydrocarbons in the lube oil range are impacting the diesel range result.
 - N1 - Hydrocarbons in diesel range are impacting lube oil range results.
 - O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.
 - P - The RPD of the detected concentrations between the two columns is greater than 40.
 - Q - Surrogate recovery is outside of the control limits.
 - S - Surrogate recovery data is not available due to the necessary dilution of the sample.
 - T - The sample chromatogram is not similar to a typical _____.
 - U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
 - U1 - The practical quantitation limit is elevated due to interferences present in the sample.
 - V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.
 - W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.
 - X - Sample extract treated with a mercury cleanup procedure.
 - X1 - Sample extract treated with a sulfuric acid/silica gel cleanup procedure.
 - Y - The calibration verification for this analyte exceeded the 20% drift specified in methods 8260 & 8270, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.
 - Z -
- ND - Not Detected at PQL
 PQL - Practical Quantitation Limit
 RPD - Relative Percent Difference



Chain of Custody

Laboratory Number: 06-200

 Company: GET
 Project Number: 6694-002-05 + 1200
 Project Name: 60 East
 Project Manager: Garrett R. Leque
 Sampled by: Craig Lund

Turnaround Request (in working days)

(Check One)

Same Day 1 Day

2 Days 3 Days

Standard (7 Days)

Call Garrett
(other)

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers
1	MW-6-20220620	6/20/22	1450	Water	6
2	MW-7-20220620	↓	1600	↓	↓

NWTPH-HCID	NWTPH-Gx/BTEX (8021 □ 8260 □)	NWTPH-Gx	NWTPH-Dx (Acid / SG Clean-up □)	Volatiles 8260	Halogenated Volatiles 8260	EDB EPA 8011 (Waters Only)	Semivolatiles 8270/SIM (with low-level PAHs)	PAHs 8270/SIM (low-level)	PCBs 8082	Organochlorine Pesticides 8081	Organophosphorus Pesticides 8270/SIM	Chlorinated Acid Herbicides 8151	Total RCRA Metals	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664	Mg	As, Cr, Fe, Mn, Ni, Total Diss	Leachate (Amm., Tol., Tos)	Ge Chem *	Dissolved Ca, K, Na, % Moisture	
							<input checked="" type="checkbox"/>											<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
							<input checked="" type="checkbox"/>											<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	

Signature	Company	Date	Time	Comments/Special Instructions
<u>Cyph...</u>	<u>GET</u>	<u>6/20/22</u>	<u>1800</u>	check with Garrett to confirm analytes
<u>J. Isaacson</u>	<u>ALPHA</u>	<u>6/20/22</u>	<u>0900</u>	
<u>J. Isaacson</u>	<u>ALPHA</u>	<u>6/20/22</u>	<u>1105</u>	metals field filtered
<u>Neville Bohm</u>	<u>OSE</u>	<u>6/21/22</u>	<u>1105</u>	* Alk, Bicarb, chloride, nitrate, sulfate
				Data Package: Standard <input type="checkbox"/> Level III <input type="checkbox"/> Level IV <input type="checkbox"/>
				Chromatograms with final report <input type="checkbox"/> Electronic Data Deliverables (EDDs) <input type="checkbox"/>



14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

July 7, 2022

Garrett Leque
GeoEngineers, Inc.
554 West Bakerview Road
Bellingham, WA 98226

Re: Analytical Data for Project 6694-002-05 T700
Laboratory Reference No. 2206-223

Dear Garrett:

Enclosed are the analytical results and associated quality control data for samples submitted on June 22, 2022.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

A handwritten signature in black ink, appearing to read "DB", with a horizontal line extending to the right.

David Baumeister
Project Manager

Enclosures



OnSite Environmental, Inc. 14648 NE 95th Street, Redmond, WA 98052 (425) 883-3881

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: July 7, 2022
Samples Submitted: June 22, 2022
Laboratory Reference: 2206-223
Project: 6694-002-05 T700

Case Narrative

Samples were collected on June 21, 2022 and received by the laboratory on June 22, 2022. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.



Date of Report: July 7, 2022
Samples Submitted: June 22, 2022
Laboratory Reference: 2206-223
Project: 6694-002-05 T700

ANALYTICAL REPORT FOR SAMPLES

Client ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
SWS-1-20220621	06-223-01	Water	6-21-22	6-22-22	
Seep-1-20220621	06-223-02	Water	6-21-22	6-22-22	
MW-3-20220621	06-223-03	Water	6-21-22	6-22-22	



Date of Report: July 7, 2022
 Samples Submitted: June 22, 2022
 Laboratory Reference: 2206-223
 Project: 6694-002-05 T700

VOLATILE ORGANICS EPA 8260D
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-3-20220621					
Laboratory ID:	06-223-03					
Dichlorodifluoromethane	ND	0.20	EPA 8260D	6-24-22	6-24-22	
Chloromethane	ND	1.6	EPA 8260D	6-24-22	6-24-22	
Vinyl Chloride	ND	0.20	EPA 8260D	6-24-22	6-24-22	
Bromomethane	ND	2.3	EPA 8260D	6-24-22	6-24-22	
Chloroethane	ND	1.0	EPA 8260D	6-24-22	6-24-22	
Trichlorofluoromethane	ND	0.20	EPA 8260D	6-24-22	6-24-22	
1,1-Dichloroethene	ND	0.20	EPA 8260D	6-24-22	6-24-22	
Acetone	ND	10	EPA 8260D	6-24-22	6-24-22	
Iodomethane	ND	9.6	EPA 8260D	6-24-22	6-24-22	
Carbon Disulfide	ND	0.20	EPA 8260D	6-24-22	6-24-22	
Methylene Chloride	ND	1.0	EPA 8260D	6-24-22	6-24-22	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	6-24-22	6-24-22	
Methyl t-Butyl Ether	ND	0.20	EPA 8260D	6-24-22	6-24-22	
1,1-Dichloroethane	ND	0.20	EPA 8260D	6-24-22	6-24-22	
Vinyl Acetate	ND	1.0	EPA 8260D	6-24-22	6-24-22	
2,2-Dichloropropane	ND	0.20	EPA 8260D	6-24-22	6-24-22	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	6-24-22	6-24-22	
2-Butanone	ND	5.0	EPA 8260D	6-24-22	6-24-22	
Bromochloromethane	ND	0.20	EPA 8260D	6-24-22	6-24-22	
Chloroform	ND	0.20	EPA 8260D	6-24-22	6-24-22	
1,1,1-Trichloroethane	ND	0.20	EPA 8260D	6-24-22	6-24-22	
Carbon Tetrachloride	ND	0.20	EPA 8260D	6-24-22	6-24-22	
1,1-Dichloropropene	ND	0.20	EPA 8260D	6-24-22	6-24-22	
Benzene	ND	0.20	EPA 8260D	6-24-22	6-24-22	
1,2-Dichloroethane	ND	0.20	EPA 8260D	6-24-22	6-24-22	
Trichloroethene	ND	0.20	EPA 8260D	6-24-22	6-24-22	
1,2-Dichloropropane	ND	0.20	EPA 8260D	6-24-22	6-24-22	
Dibromomethane	ND	0.20	EPA 8260D	6-24-22	6-24-22	
Bromodichloromethane	ND	0.20	EPA 8260D	6-24-22	6-24-22	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260D	6-24-22	6-24-22	
Methyl Isobutyl Ketone	ND	2.0	EPA 8260D	6-24-22	6-24-22	
Toluene	ND	1.0	EPA 8260D	6-24-22	6-24-22	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260D	6-24-22	6-24-22	



Date of Report: July 7, 2022
 Samples Submitted: June 22, 2022
 Laboratory Reference: 2206-223
 Project: 6694-002-05 T700

VOLATILE ORGANICS EPA 8260D
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-3-20220621					
Laboratory ID:	06-223-03					
1,1,2-Trichloroethane	ND	0.20	EPA 8260D	6-24-22	6-24-22	
Tetrachloroethene	ND	0.20	EPA 8260D	6-24-22	6-24-22	
1,3-Dichloropropane	ND	0.20	EPA 8260D	6-24-22	6-24-22	
2-Hexanone	ND	2.0	EPA 8260D	6-24-22	6-24-22	
Dibromochloromethane	ND	0.20	EPA 8260D	6-24-22	6-24-22	
1,2-Dibromoethane	ND	0.20	EPA 8260D	6-24-22	6-24-22	
Chlorobenzene	ND	0.20	EPA 8260D	6-24-22	6-24-22	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260D	6-24-22	6-24-22	
Ethylbenzene	ND	0.20	EPA 8260D	6-24-22	6-24-22	
m,p-Xylene	ND	0.40	EPA 8260D	6-24-22	6-24-22	
o-Xylene	ND	0.20	EPA 8260D	6-24-22	6-24-22	
Styrene	ND	0.20	EPA 8260D	6-24-22	6-24-22	
Bromoform	ND	1.0	EPA 8260D	6-24-22	6-24-22	
Isopropylbenzene	ND	0.20	EPA 8260D	6-24-22	6-24-22	
Bromobenzene	ND	0.20	EPA 8260D	6-24-22	6-24-22	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260D	6-24-22	6-24-22	
1,2,3-Trichloropropane	ND	0.20	EPA 8260D	6-24-22	6-24-22	
n-Propylbenzene	ND	0.20	EPA 8260D	6-24-22	6-24-22	
2-Chlorotoluene	ND	0.20	EPA 8260D	6-24-22	6-24-22	
4-Chlorotoluene	ND	0.20	EPA 8260D	6-24-22	6-24-22	
1,3,5-Trimethylbenzene	ND	0.20	EPA 8260D	6-24-22	6-24-22	
tert-Butylbenzene	ND	0.20	EPA 8260D	6-24-22	6-24-22	
1,2,4-Trimethylbenzene	ND	0.20	EPA 8260D	6-24-22	6-24-22	
sec-Butylbenzene	ND	0.20	EPA 8260D	6-24-22	6-24-22	
1,3-Dichlorobenzene	ND	0.20	EPA 8260D	6-24-22	6-24-22	
p-Isopropyltoluene	ND	0.20	EPA 8260D	6-24-22	6-24-22	
1,4-Dichlorobenzene	ND	0.20	EPA 8260D	6-24-22	6-24-22	
1,2-Dichlorobenzene	ND	0.20	EPA 8260D	6-24-22	6-24-22	
n-Butylbenzene	ND	0.20	EPA 8260D	6-24-22	6-24-22	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260D	6-24-22	6-24-22	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260D	6-24-22	6-24-22	
Hexachlorobutadiene	ND	1.0	EPA 8260D	6-24-22	6-24-22	
Naphthalene	ND	1.0	EPA 8260D	6-24-22	6-24-22	
1,2,3-Trichlorobenzene	ND	1.0	EPA 8260D	6-24-22	6-24-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>100</i>	<i>75-127</i>				
<i>Toluene-d8</i>	<i>97</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>98</i>	<i>78-125</i>				



Date of Report: July 7, 2022
 Samples Submitted: June 22, 2022
 Laboratory Reference: 2206-223
 Project: 6694-002-05 T700

SEMIVOLATILE ORGANICS EPA 8270E/SIM
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SWS-1-20220621					
Laboratory ID:	06-223-01					
n-Nitrosodimethylamine	ND	0.97	EPA 8270E	6-27-22	6-27-22	
Pyridine	ND	0.97	EPA 8270E	6-27-22	6-27-22	
Phenol	ND	0.97	EPA 8270E	6-27-22	6-27-22	
Aniline	ND	4.9	EPA 8270E	6-27-22	6-27-22	
bis(2-Chloroethyl)ether	ND	0.97	EPA 8270E	6-27-22	6-27-22	
2-Chlorophenol	ND	0.97	EPA 8270E	6-27-22	6-27-22	
1,3-Dichlorobenzene	ND	0.97	EPA 8270E	6-27-22	6-27-22	
1,4-Dichlorobenzene	ND	0.97	EPA 8270E	6-27-22	6-27-22	
Benzyl alcohol	ND	0.97	EPA 8270E	6-27-22	6-27-22	
1,2-Dichlorobenzene	ND	0.97	EPA 8270E	6-27-22	6-27-22	
2-Methylphenol (o-Cresol)	ND	0.97	EPA 8270E	6-27-22	6-27-22	
bis(2-Chloroisopropyl)ether	ND	0.97	EPA 8270E	6-27-22	6-27-22	
(3+4)-Methylphenol (m,p-Cresol)	ND	0.97	EPA 8270E	6-27-22	6-27-22	
n-Nitroso-di-n-propylamine	ND	0.97	EPA 8270E	6-27-22	6-27-22	
Hexachloroethane	ND	0.97	EPA 8270E	6-27-22	6-27-22	
Nitrobenzene	ND	0.97	EPA 8270E	6-27-22	6-27-22	
Isophorone	ND	0.97	EPA 8270E	6-27-22	6-27-22	
2-Nitrophenol	ND	0.97	EPA 8270E	6-27-22	6-27-22	
2,4-Dimethylphenol	ND	0.97	EPA 8270E	6-27-22	6-27-22	
bis(2-Chloroethoxy)methane	ND	0.97	EPA 8270E	6-27-22	6-27-22	
2,4-Dichlorophenol	ND	0.97	EPA 8270E	6-27-22	6-27-22	
1,2,4-Trichlorobenzene	ND	0.97	EPA 8270E	6-27-22	6-27-22	
Naphthalene	ND	0.097	EPA 8270E/SIM	6-27-22	6-27-22	
4-Chloroaniline	ND	0.97	EPA 8270E	6-27-22	6-27-22	
Hexachlorobutadiene	ND	0.97	EPA 8270E	6-27-22	6-27-22	
4-Chloro-3-methylphenol	ND	0.97	EPA 8270E	6-27-22	6-27-22	
2-Methylnaphthalene	ND	0.097	EPA 8270E/SIM	6-27-22	6-27-22	
1-Methylnaphthalene	ND	0.097	EPA 8270E/SIM	6-27-22	6-27-22	
Hexachlorocyclopentadiene	ND	1.4	EPA 8270E	6-27-22	6-27-22	
2,4,6-Trichlorophenol	ND	0.97	EPA 8270E	6-27-22	6-27-22	
2,3-Dichloroaniline	ND	0.97	EPA 8270E	6-27-22	6-27-22	
2,4,5-Trichlorophenol	ND	0.97	EPA 8270E	6-27-22	6-27-22	
2-Chloronaphthalene	ND	0.97	EPA 8270E	6-27-22	6-27-22	
2-Nitroaniline	ND	0.97	EPA 8270E	6-27-22	6-27-22	
1,4-Dinitrobenzene	ND	0.97	EPA 8270E	6-27-22	6-27-22	
Dimethylphthalate	ND	4.9	EPA 8270E	6-27-22	6-27-22	
1,3-Dinitrobenzene	ND	0.97	EPA 8270E	6-27-22	6-27-22	
2,6-Dinitrotoluene	ND	0.97	EPA 8270E	6-27-22	6-27-22	
1,2-Dinitrobenzene	ND	0.97	EPA 8270E	6-27-22	6-27-22	
Acenaphthylene	ND	0.097	EPA 8270E/SIM	6-27-22	6-27-22	
3-Nitroaniline	ND	0.97	EPA 8270E	6-27-22	6-27-22	



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SEMIVOLATILE ORGANICS EPA 8270E/SIM
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SWS-1-20220621					
Laboratory ID:	06-223-01					
2,4-Dinitrophenol	ND	6.9	EPA 8270E	6-27-22	6-27-22	
Acenaphthene	0.99	0.097	EPA 8270E/SIM	6-27-22	6-27-22	
4-Nitrophenol	ND	4.9	EPA 8270E	6-27-22	6-27-22	
2,4-Dinitrotoluene	ND	0.97	EPA 8270E	6-27-22	6-27-22	
Dibenzofuran	ND	0.97	EPA 8270E	6-27-22	6-27-22	
2,3,5,6-Tetrachlorophenol	ND	0.97	EPA 8270E	6-27-22	6-27-22	
2,3,4,6-Tetrachlorophenol	ND	0.97	EPA 8270E	6-27-22	6-27-22	
Diethylphthalate	ND	0.97	EPA 8270E	6-27-22	6-27-22	
4-Chlorophenyl-phenylether	ND	0.97	EPA 8270E	6-27-22	6-27-22	
4-Nitroaniline	ND	0.97	EPA 8270E	6-27-22	6-27-22	
Fluorene	0.30	0.097	EPA 8270E/SIM	6-27-22	6-27-22	
4,6-Dinitro-2-methylphenol	ND	6.8	EPA 8270E	6-27-22	6-27-22	
n-Nitrosodiphenylamine	ND	0.97	EPA 8270E	6-27-22	6-27-22	
1,2-Diphenylhydrazine	ND	0.97	EPA 8270E	6-27-22	6-27-22	
4-Bromophenyl-phenylether	ND	0.97	EPA 8270E	6-27-22	6-27-22	
Hexachlorobenzene	ND	0.97	EPA 8270E	6-27-22	6-27-22	
Pentachlorophenol	ND	6.8	EPA 8270E	6-27-22	6-27-22	
Phenanthrene	ND	0.097	EPA 8270E/SIM	6-27-22	6-27-22	
Anthracene	ND	0.097	EPA 8270E/SIM	6-27-22	6-27-22	
Carbazole	ND	0.97	EPA 8270E	6-27-22	6-27-22	
Di-n-butylphthalate	ND	4.9	EPA 8270E	6-27-22	6-27-22	
Fluoranthene	0.16	0.097	EPA 8270E/SIM	6-27-22	6-27-22	
Pyrene	0.10	0.097	EPA 8270E/SIM	6-27-22	6-27-22	
Butylbenzylphthalate	ND	0.97	EPA 8270E	6-27-22	6-27-22	
bis-2-Ethylhexyladipate	ND	4.9	EPA 8270E	6-27-22	6-27-22	
3,3'-Dichlorobenzidine	ND	4.9	EPA 8270E	6-27-22	6-27-22	
Benzo[a]anthracene	ND	0.0097	EPA 8270E/SIM	6-27-22	6-27-22	
Chrysene	ND	0.0097	EPA 8270E/SIM	6-27-22	6-27-22	
bis(2-Ethylhexyl)phthalate	ND	4.9	EPA 8270E	6-27-22	6-27-22	
Di-n-octylphthalate	ND	0.97	EPA 8270E	6-27-22	6-27-22	
Benzo[b]fluoranthene	ND	0.0097	EPA 8270E/SIM	6-27-22	6-27-22	
Benzo(j,k)fluoranthene	ND	0.0097	EPA 8270E/SIM	6-27-22	6-27-22	
Benzo[a]pyrene	ND	0.0097	EPA 8270E/SIM	6-27-22	6-27-22	
Indeno[1,2,3-cd]pyrene	ND	0.0097	EPA 8270E/SIM	6-27-22	6-27-22	
Dibenz[a,h]anthracene	ND	0.0097	EPA 8270E/SIM	6-27-22	6-27-22	
Benzo[g,h,i]perylene	ND	0.0097	EPA 8270E/SIM	6-27-22	6-27-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
2-Fluorophenol	42	10 - 81				
Phenol-d6	30	10 - 86				
Nitrobenzene-d5	64	27 - 105				
2-Fluorobiphenyl	67	33 - 100				
2,4,6-Tribromophenol	83	25 - 124				
Terphenyl-d14	67	40 - 116				



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TOTAL METALS
EPA 200.8/200.7

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SWS-1-20220621					
Laboratory ID:	06-223-01					
Arsenic	ND	3.3	EPA 200.8	7-6-22	7-6-22	
Chromium	ND	11	EPA 200.8	7-6-22	7-6-22	
Iron	5000	50	EPA 200.7	6-28-22	6-28-22	
Lead	ND	1.1	EPA 200.8	7-6-22	7-6-22	
Magnesium	26000	1000	EPA 200.7	6-28-22	6-28-22	
Manganese	1500	10	EPA 200.7	6-28-22	6-28-22	
Nickel	ND	22	EPA 200.8	7-6-22	7-6-22	

Client ID:	Seep-1-20220621					
Laboratory ID:	06-223-02					
Arsenic	4.4	3.3	EPA 200.8	7-6-22	7-6-22	
Iron	460	50	EPA 200.7	6-28-22	6-28-22	
Lead	1.7	1.1	EPA 200.8	7-6-22	7-6-22	
Manganese	16	10	EPA 200.7	6-28-22	6-28-22	

Client ID:	MW-3-20220621					
Laboratory ID:	06-223-03					
Arsenic	4.6	3.3	EPA 200.8	7-6-22	7-6-22	
Chromium	ND	11	EPA 200.8	7-6-22	7-6-22	
Iron	1400	50	EPA 200.7	6-28-22	6-28-22	
Lead	ND	1.1	EPA 200.8	7-6-22	7-6-22	
Magnesium	14000	1000	EPA 200.7	6-28-22	6-28-22	
Manganese	190	10	EPA 200.7	6-28-22	6-28-22	
Nickel	ND	22	EPA 200.8	7-6-22	7-6-22	



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 Project: 6694-002-05 T700

DISSOLVED METALS
EPA 200.8/200.7

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SWS-1-20220621					
Laboratory ID:	06-223-01					
Arsenic	ND	3.0	EPA 200.8	6-24-22	7-6-22	
Calcium	100000	10000	EPA 200.7	6-24-22	6-28-22	
Chromium	ND	10	EPA 200.8	6-24-22	7-6-22	
Iron	ND	56	EPA 200.7	6-24-22	6-28-22	
Lead	ND	1.0	EPA 200.8	6-24-22	7-6-22	
Magnesium	28000	1100	EPA 200.7	6-24-22	6-28-22	
Manganese	1600	11	EPA 200.7	6-24-22	6-28-22	
Nickel	ND	20	EPA 200.8	6-24-22	7-6-22	
Potassium	7500	1100	EPA 200.7	6-24-22	6-28-22	
Sodium	15000	1100	EPA 200.7	6-24-22	6-28-22	

Client ID:	Seep-1-20220621					
Laboratory ID:	06-223-02					
Arsenic	ND	3.0	EPA 200.8	6-24-22	7-6-22	
Iron	84	56	EPA 200.7	6-24-22	6-28-22	
Lead	ND	1.0	EPA 200.8	6-24-22	7-6-22	
Manganese	ND	11	EPA 200.7	6-24-22	6-28-22	

Client ID:	MW-3-20220621					
Laboratory ID:	06-223-03					
Arsenic	4.1	3.0	EPA 200.8	6-24-22	7-6-22	
Calcium	24000	1100	EPA 200.7	6-24-22	6-28-22	
Chromium	ND	10	EPA 200.8	6-24-22	7-6-22	
Iron	ND	56	EPA 200.7	6-24-22	6-28-22	
Lead	ND	1.0	EPA 200.8	6-24-22	7-6-22	
Magnesium	13000	1100	EPA 200.7	6-24-22	6-28-22	
Manganese	140	11	EPA 200.7	6-24-22	6-28-22	
Nickel	ND	20	EPA 200.8	6-24-22	7-6-22	
Potassium	2300	1100	EPA 200.7	6-24-22	6-28-22	
Sodium	8000	1100	EPA 200.7	6-24-22	6-28-22	



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**TOTAL ALKALINITY
 SM 2320B**

Matrix: Water
 Units: mg CaCO₃/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SWS-1-20220621					
Laboratory ID:	06-223-01					
Total Alkalinity	430	2.0	SM 2320B	7-1-22	7-1-22	
Client ID:	MW-3-20220621					
Laboratory ID:	06-223-03					
Total Alkalinity	110	2.0	SM 2320B	7-1-22	7-1-22	



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**BICARBONATE
 SM 2320B**

Matrix: Water
 Units: mg CaCO₃/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SWS-1-20220621					
Laboratory ID:	06-223-01					
Bicarbonate	430	2.0	SM 2320B	7-1-22	7-1-22	
Client ID:	MW-3-20220621					
Laboratory ID:	06-223-03					
Bicarbonate	110	2.0	SM 2320B	7-1-22	7-1-22	



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**TOTAL ORGANIC CARBON
 SM 5310B**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SWS-1-20220621					
Laboratory ID:	06-223-01					
Total Organic Carbon	10	1.0	SM 5310B	6-30-22	6-30-22	
Client ID:	Seep-1-20220621					
Laboratory ID:	06-223-02					
Total Organic Carbon	3.9	1.0	SM 5310B	6-30-22	6-30-22	
Client ID:	MW-3-20220621					
Laboratory ID:	06-223-03					
Total Organic Carbon	ND	1.0	SM 5310B	6-30-22	6-30-22	



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**TOTAL DISSOLVED SOLIDS
 SM 2540C**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SWS-1-20220621					
Laboratory ID:	06-223-01					
Total Dissolved Solids	500	13	SM 2540C	6-24-22	6-27-22	
Client ID:	Seep-1-20220621					
Laboratory ID:	06-223-02					
Total Dissolved Solids	140	13	SM 2540C	6-24-22	6-27-22	
Client ID:	MW-3-20220621					
Laboratory ID:	06-223-03					
Total Dissolved Solids	170	13	SM 2540C	6-24-22	6-27-22	



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CHLORIDE
SM 4500-Cl E

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SWS-1-20220621					
Laboratory ID:	06-223-01					
Chloride	6.3	2.0	SM 4500-Cl E	6-27-22	6-27-22	
Client ID:	MW-3-20220621					
Laboratory ID:	06-223-03					
Chloride	11	2.0	SM 4500-Cl E	6-27-22	6-27-22	



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**NITRATE (as Nitrogen)
 EPA 353.2**

Matrix: Water
 Units: mg/L-N

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SWS-1-20220621					
Laboratory ID:	06-223-01					
Nitrate	0.088	0.050	EPA 353.2	6-24-22	6-24-22	
Client ID:	MW-3-20220621					
Laboratory ID:	06-223-03					
Nitrate	ND	0.050	EPA 353.2	6-24-22	6-24-22	



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SULFATE
ASTM D516-11

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SWS-1-20220621					
Laboratory ID:	06-223-01					
Sulfate	6.3	5.0	ASTM D516-11	6-28-22	6-28-22	
Client ID:	MW-3-20220621					
Laboratory ID:	06-223-03					
Sulfate	15	5.0	ASTM D516-11	6-28-22	6-28-22	



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AMMONIA (as Nitrogen)
SM 4500-NH₃ D

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SWS-1-20220621					
Laboratory ID:	06-223-01					
Ammonia	2.3	0.050	SM 4500-NH3 D	6-30-22	6-30-22	
Client ID:	Seep-1-20220621					
Laboratory ID:	06-223-02					
Ammonia	ND	0.050	SM 4500-NH3 D	6-30-22	6-30-22	
Client ID:	MW-3-20220621					
Laboratory ID:	06-223-03					
Ammonia	ND	0.050	SM 4500-NH3 D	6-30-22	6-30-22	



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**VOLATILE ORGANICS EPA 8260D
 QUALITY CONTROL**

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Matrix: Water

Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0624W1					
Dichlorodifluoromethane	ND	0.20	EPA 8260D	6-24-22	6-24-22	
Chloromethane	ND	1.6	EPA 8260D	6-24-22	6-24-22	
Vinyl Chloride	ND	0.20	EPA 8260D	6-24-22	6-24-22	
Bromomethane	ND	2.3	EPA 8260D	6-24-22	6-24-22	
Chloroethane	ND	1.0	EPA 8260D	6-24-22	6-24-22	
Trichlorofluoromethane	ND	0.20	EPA 8260D	6-24-22	6-24-22	
1,1-Dichloroethene	ND	0.20	EPA 8260D	6-24-22	6-24-22	
Acetone	ND	10	EPA 8260D	6-24-22	6-24-22	
Iodomethane	ND	9.6	EPA 8260D	6-24-22	6-24-22	
Carbon Disulfide	ND	0.20	EPA 8260D	6-24-22	6-24-22	
Methylene Chloride	ND	1.0	EPA 8260D	6-24-22	6-24-22	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	6-24-22	6-24-22	
Methyl t-Butyl Ether	ND	0.20	EPA 8260D	6-24-22	6-24-22	
1,1-Dichloroethane	ND	0.20	EPA 8260D	6-24-22	6-24-22	
Vinyl Acetate	ND	1.0	EPA 8260D	6-24-22	6-24-22	
2,2-Dichloropropane	ND	0.20	EPA 8260D	6-24-22	6-24-22	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	6-24-22	6-24-22	
2-Butanone	ND	5.0	EPA 8260D	6-24-22	6-24-22	
Bromochloromethane	ND	0.20	EPA 8260D	6-24-22	6-24-22	
Chloroform	ND	0.20	EPA 8260D	6-24-22	6-24-22	
1,1,1-Trichloroethane	ND	0.20	EPA 8260D	6-24-22	6-24-22	
Carbon Tetrachloride	ND	0.20	EPA 8260D	6-24-22	6-24-22	
1,1-Dichloropropene	ND	0.20	EPA 8260D	6-24-22	6-24-22	
Benzene	ND	0.20	EPA 8260D	6-24-22	6-24-22	
1,2-Dichloroethane	ND	0.20	EPA 8260D	6-24-22	6-24-22	
Trichloroethene	ND	0.20	EPA 8260D	6-24-22	6-24-22	
1,2-Dichloropropane	ND	0.20	EPA 8260D	6-24-22	6-24-22	
Dibromomethane	ND	0.20	EPA 8260D	6-24-22	6-24-22	
Bromodichloromethane	ND	0.20	EPA 8260D	6-24-22	6-24-22	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260D	6-24-22	6-24-22	
Methyl Isobutyl Ketone	ND	2.0	EPA 8260D	6-24-22	6-24-22	
Toluene	ND	1.0	EPA 8260D	6-24-22	6-24-22	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260D	6-24-22	6-24-22	



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**VOLATILE ORGANICS EPA 8260D
 QUALITY CONTROL**

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0624W1					
1,1,2-Trichloroethane	ND	0.20	EPA 8260D	6-24-22	6-24-22	
Tetrachloroethene	ND	0.20	EPA 8260D	6-24-22	6-24-22	
1,3-Dichloropropane	ND	0.20	EPA 8260D	6-24-22	6-24-22	
2-Hexanone	ND	2.0	EPA 8260D	6-24-22	6-24-22	
Dibromochloromethane	ND	0.20	EPA 8260D	6-24-22	6-24-22	
1,2-Dibromoethane	ND	0.20	EPA 8260D	6-24-22	6-24-22	
Chlorobenzene	ND	0.20	EPA 8260D	6-24-22	6-24-22	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260D	6-24-22	6-24-22	
Ethylbenzene	ND	0.20	EPA 8260D	6-24-22	6-24-22	
m,p-Xylene	ND	0.40	EPA 8260D	6-24-22	6-24-22	
o-Xylene	ND	0.20	EPA 8260D	6-24-22	6-24-22	
Styrene	ND	0.20	EPA 8260D	6-24-22	6-24-22	
Bromoform	ND	1.0	EPA 8260D	6-24-22	6-24-22	
Isopropylbenzene	ND	0.20	EPA 8260D	6-24-22	6-24-22	
Bromobenzene	ND	0.20	EPA 8260D	6-24-22	6-24-22	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260D	6-24-22	6-24-22	
1,2,3-Trichloropropane	ND	0.20	EPA 8260D	6-24-22	6-24-22	
n-Propylbenzene	ND	0.20	EPA 8260D	6-24-22	6-24-22	
2-Chlorotoluene	ND	0.20	EPA 8260D	6-24-22	6-24-22	
4-Chlorotoluene	ND	0.20	EPA 8260D	6-24-22	6-24-22	
1,3,5-Trimethylbenzene	ND	0.20	EPA 8260D	6-24-22	6-24-22	
tert-Butylbenzene	ND	0.20	EPA 8260D	6-24-22	6-24-22	
1,2,4-Trimethylbenzene	ND	0.20	EPA 8260D	6-24-22	6-24-22	
sec-Butylbenzene	ND	0.20	EPA 8260D	6-24-22	6-24-22	
1,3-Dichlorobenzene	ND	0.20	EPA 8260D	6-24-22	6-24-22	
p-Isopropyltoluene	ND	0.20	EPA 8260D	6-24-22	6-24-22	
1,4-Dichlorobenzene	ND	0.20	EPA 8260D	6-24-22	6-24-22	
1,2-Dichlorobenzene	ND	0.20	EPA 8260D	6-24-22	6-24-22	
n-Butylbenzene	ND	0.20	EPA 8260D	6-24-22	6-24-22	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260D	6-24-22	6-24-22	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260D	6-24-22	6-24-22	
Hexachlorobutadiene	ND	1.0	EPA 8260D	6-24-22	6-24-22	
Naphthalene	ND	1.0	EPA 8260D	6-24-22	6-24-22	
1,2,3-Trichlorobenzene	ND	1.0	EPA 8260D	6-24-22	6-24-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>97</i>	<i>75-127</i>				
<i>Toluene-d8</i>	<i>99</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>95</i>	<i>78-125</i>				



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 Project: 6694-002-05 T700

**VOLATILE ORGANICS EPA 8260D
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD	RPD	Flags
					SB	SBD	Limits	RPD	Limit	
SPIKE BLANKS										
Laboratory ID:	SB0624W1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	9.98	10.2	10.0	10.0	100	102	78-125	2	19	
Benzene	9.08	9.51	10.0	10.0	91	95	80-121	5	16	
Trichloroethene	9.29	10.1	10.0	10.0	93	101	80-122	8	18	
Toluene	9.24	10.1	10.0	10.0	92	101	80-120	9	18	
Chlorobenzene	10.2	10.7	10.0	10.0	102	107	80-120	5	17	
<i>Surrogate:</i>										
Dibromofluoromethane					100	97	75-127			
Toluene-d8					100	106	80-127			
4-Bromofluorobenzene					100	101	78-125			



Date of Report: July 7, 2022
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**SEMIVOLATILE ORGANICS EPA 8270E/SIM
 QUALITY CONTROL**

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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0627W1					
n-Nitrosodimethylamine	ND	1.0	EPA 8270E	6-27-22	6-27-22	
Pyridine	ND	1.0	EPA 8270E	6-27-22	6-27-22	
Phenol	ND	1.0	EPA 8270E	6-27-22	6-27-22	
Aniline	ND	5.0	EPA 8270E	6-27-22	6-27-22	
bis(2-Chloroethyl)ether	ND	1.0	EPA 8270E	6-27-22	6-27-22	
2-Chlorophenol	ND	1.0	EPA 8270E	6-27-22	6-27-22	
1,3-Dichlorobenzene	ND	1.0	EPA 8270E	6-27-22	6-27-22	
1,4-Dichlorobenzene	ND	1.0	EPA 8270E	6-27-22	6-27-22	
Benzyl alcohol	ND	1.0	EPA 8270E	6-27-22	6-27-22	
1,2-Dichlorobenzene	ND	1.0	EPA 8270E	6-27-22	6-27-22	
2-Methylphenol (o-Cresol)	ND	1.0	EPA 8270E	6-27-22	6-27-22	
bis(2-Chloroisopropyl)ether	ND	1.0	EPA 8270E	6-27-22	6-27-22	
(3+4)-Methylphenol (m,p-Cresol)	ND	1.0	EPA 8270E	6-27-22	6-27-22	
n-Nitroso-di-n-propylamine	ND	1.0	EPA 8270E	6-27-22	6-27-22	
Hexachloroethane	ND	1.0	EPA 8270E	6-27-22	6-27-22	
Nitrobenzene	ND	1.0	EPA 8270E	6-27-22	6-27-22	
Isophorone	ND	1.0	EPA 8270E	6-27-22	6-27-22	
2-Nitrophenol	ND	1.0	EPA 8270E	6-27-22	6-27-22	
2,4-Dimethylphenol	ND	1.0	EPA 8270E	6-27-22	6-27-22	
bis(2-Chloroethoxy)methane	ND	1.0	EPA 8270E	6-27-22	6-27-22	
2,4-Dichlorophenol	ND	1.0	EPA 8270E	6-27-22	6-27-22	
1,2,4-Trichlorobenzene	ND	1.0	EPA 8270E	6-27-22	6-27-22	
Naphthalene	ND	0.10	EPA 8270E/SIM	6-27-22	6-27-22	
4-Chloroaniline	ND	1.0	EPA 8270E	6-27-22	6-27-22	
Hexachlorobutadiene	ND	1.0	EPA 8270E	6-27-22	6-27-22	
4-Chloro-3-methylphenol	ND	1.0	EPA 8270E	6-27-22	6-27-22	
2-Methylnaphthalene	ND	0.10	EPA 8270E/SIM	6-27-22	6-27-22	
1-Methylnaphthalene	ND	0.10	EPA 8270E/SIM	6-27-22	6-27-22	
Hexachlorocyclopentadiene	ND	1.4	EPA 8270E	6-27-22	6-27-22	
2,4,6-Trichlorophenol	ND	1.0	EPA 8270E	6-27-22	6-27-22	
2,3-Dichloroaniline	ND	1.0	EPA 8270E	6-27-22	6-27-22	
2,4,5-Trichlorophenol	ND	1.0	EPA 8270E	6-27-22	6-27-22	
2-Chloronaphthalene	ND	1.0	EPA 8270E	6-27-22	6-27-22	
2-Nitroaniline	ND	1.0	EPA 8270E	6-27-22	6-27-22	
1,4-Dinitrobenzene	ND	1.0	EPA 8270E	6-27-22	6-27-22	
Dimethylphthalate	ND	5.0	EPA 8270E	6-27-22	6-27-22	
1,3-Dinitrobenzene	ND	1.0	EPA 8270E	6-27-22	6-27-22	
2,6-Dinitrotoluene	ND	1.0	EPA 8270E	6-27-22	6-27-22	
1,2-Dinitrobenzene	ND	1.0	EPA 8270E	6-27-22	6-27-22	
Acenaphthylene	ND	0.10	EPA 8270E/SIM	6-27-22	6-27-22	
3-Nitroaniline	ND	1.0	EPA 8270E	6-27-22	6-27-22	



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**SEMIVOLATILE ORGANICS EPA 8270E/SIM
 QUALITY CONTROL**

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0627W1					
2,4-Dinitrophenol	ND	7.1	EPA 8270E	6-27-22	6-27-22	
Acenaphthene	ND	0.10	EPA 8270E/SIM	6-27-22	6-27-22	
4-Nitrophenol	ND	5.0	EPA 8270E	6-27-22	6-27-22	
2,4-Dinitrotoluene	ND	1.0	EPA 8270E	6-27-22	6-27-22	
Dibenzofuran	ND	1.0	EPA 8270E	6-27-22	6-27-22	
2,3,5,6-Tetrachlorophenol	ND	1.0	EPA 8270E	6-27-22	6-27-22	
2,3,4,6-Tetrachlorophenol	ND	1.0	EPA 8270E	6-27-22	6-27-22	
Diethylphthalate	ND	1.0	EPA 8270E	6-27-22	6-27-22	
4-Chlorophenyl-phenylether	ND	1.0	EPA 8270E	6-27-22	6-27-22	
4-Nitroaniline	ND	1.0	EPA 8270E	6-27-22	6-27-22	
Fluorene	ND	0.10	EPA 8270E/SIM	6-27-22	6-27-22	
4,6-Dinitro-2-methylphenol	ND	7.0	EPA 8270E	6-27-22	6-27-22	
n-Nitrosodiphenylamine	ND	1.0	EPA 8270E	6-27-22	6-27-22	
1,2-Diphenylhydrazine	ND	1.0	EPA 8270E	6-27-22	6-27-22	
4-Bromophenyl-phenylether	ND	1.0	EPA 8270E	6-27-22	6-27-22	
Hexachlorobenzene	ND	1.0	EPA 8270E	6-27-22	6-27-22	
Pentachlorophenol	ND	7.0	EPA 8270E	6-27-22	6-27-22	
Phenanthrene	ND	0.10	EPA 8270E/SIM	6-27-22	6-27-22	
Anthracene	ND	0.10	EPA 8270E/SIM	6-27-22	6-27-22	
Carbazole	ND	1.0	EPA 8270E	6-27-22	6-27-22	
Di-n-butylphthalate	ND	5.0	EPA 8270E	6-27-22	6-27-22	
Fluoranthene	ND	0.10	EPA 8270E/SIM	6-27-22	6-27-22	
Pyrene	ND	0.10	EPA 8270E/SIM	6-27-22	6-27-22	
Butylbenzylphthalate	ND	1.0	EPA 8270E	6-27-22	6-27-22	
bis-2-Ethylhexyladipate	ND	5.0	EPA 8270E	6-27-22	6-27-22	
3,3'-Dichlorobenzidine	ND	5.0	EPA 8270E	6-27-22	6-27-22	
Benzo[a]anthracene	ND	0.010	EPA 8270E/SIM	6-27-22	6-27-22	
Chrysene	ND	0.010	EPA 8270E/SIM	6-27-22	6-27-22	
bis(2-Ethylhexyl)phthalate	ND	5.0	EPA 8270E	6-27-22	6-27-22	
Di-n-octylphthalate	ND	1.0	EPA 8270E	6-27-22	6-27-22	
Benzo[b]fluoranthene	ND	0.010	EPA 8270E/SIM	6-27-22	6-27-22	
Benzo(j,k)fluoranthene	ND	0.010	EPA 8270E/SIM	6-27-22	6-27-22	
Benzo[a]pyrene	ND	0.010	EPA 8270E/SIM	6-27-22	6-27-22	
Indeno[1,2,3-cd]pyrene	ND	0.010	EPA 8270E/SIM	6-27-22	6-27-22	
Dibenz[a,h]anthracene	ND	0.010	EPA 8270E/SIM	6-27-22	6-27-22	
Benzo[g,h,i]perylene	ND	0.010	EPA 8270E/SIM	6-27-22	6-27-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
2-Fluorophenol	40	10 - 81				
Phenol-d6	31	10 - 86				
Nitrobenzene-d5	59	27 - 105				
2-Fluorobiphenyl	60	33 - 100				
2,4,6-Tribromophenol	85	25 - 124				
Terphenyl-d14	66	40 - 116				



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 Project: 6694-002-05 T700

**SEMIVOLATILE ORGANICS EPA 8270E/SIM
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD	RPD	Flags
					Recovery	Limits	Limit			
SPIKE BLANKS										
Laboratory ID:	SB0627W1									
	SB	SBD	SB	SBD	SB	SBD				
Phenol	14.7	16.3	40.0	40.0	37	41	16 - 53	10	33	
2-Chlorophenol	25.5	28.4	40.0	40.0	64	71	42 - 90	11	34	
1,4-Dichlorobenzene	11.3	12.5	20.0	20.0	57	63	32 - 83	10	34	
n-Nitroso-di-n-propylamine	13.5	15.6	20.0	20.0	68	78	41 - 99	14	32	
1,2,4-Trichlorobenzene	12.2	13.8	20.0	20.0	61	69	35 - 91	12	35	
4-Chloro-3-methylphenol	29.9	32.0	40.0	40.0	75	80	55 - 98	7	22	
Acenaphthene	13.2	15.0	20.0	20.0	66	75	40 - 96	13	23	
4-Nitrophenol	21.5	22.8	40.0	40.0	54	57	20 - 77	6	28	
2,4-Dinitrotoluene	14.0	15.6	20.0	20.0	70	78	50 - 102	11	22	
Pentachlorophenol	36.2	39.0	40.0	40.0	91	98	46 - 129	7	26	
Pyrene	14.3	15.5	20.0	20.0	72	78	52 - 105	8	20	
<i>Surrogate:</i>										
2-Fluorophenol					39	43	10 - 81			
Phenol-d6					29	34	10 - 86			
Nitrobenzene-d5					53	62	27 - 105			
2-Fluorobiphenyl					55	63	33 - 100			
2,4,6-Tribromophenol					80	82	25 - 124			
Terphenyl-d14					61	65	40 - 116			



Date of Report: July 7, 2022
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 Project: 6694-002-05 T700

**TOTAL METALS
 EPA 200.8/200.7
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0628WH1					
Iron	ND	50	EPA 200.7	6-28-22	6-28-22	
Magnesium	ND	1000	EPA 200.7	6-28-22	6-28-22	
Manganese	ND	10	EPA 200.7	6-28-22	6-28-22	
METHOD BLANK						
Laboratory ID:	MB0706WM1					
Arsenic	ND	3.3	EPA 200.8	7-6-22	7-6-22	
Chromium	ND	11	EPA 200.8	7-6-22	7-6-22	
Lead	ND	1.1	EPA 200.8	7-6-22	7-6-22	
Nickel	ND	22	EPA 200.8	7-6-22	7-6-22	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	06-153-02							
	ORIG	DUP						
Iron	162	166	NA	NA	NA	NA	2	20
Magnesium	7020	7070	NA	NA	NA	NA	1	20
Manganese	30.9	23.9	NA	NA	NA	NA	26	20
DUPLICATE								
Laboratory ID:	06-223-03							
Arsenic	4.58	4.47	NA	NA	NA	NA	2	20
Chromium	ND	ND	NA	NA	NA	NA	NA	20
Lead	ND	ND	NA	NA	NA	NA	NA	20
Nickel	ND	ND	NA	NA	NA	NA	NA	20

MATRIX SPIKES

Laboratory ID:	06-153-02									
	MS	MSD	MS	MSD	MS	MSD				
Iron	20800	21000	20000	20000	162	103	104	75-125	1	20
Magnesium	27500	27800	20000	20000	7020	102	104	75-125	1	20
Manganese	526	520	500	500	309	43	42	75-125	1	20
MATRIX SPIKES										
Laboratory ID:	06-223-03									
Arsenic	124	122	111	111	4.58	107	105	75-125	2	20
Chromium	120	120	111	111	ND	108	108	75-125	0	20
Lead	113	112	111	111	ND	102	101	75-125	1	20
Nickel	125	125	111	111	15.0	99	99	75-125	0	20



OnSite Environmental, Inc. 14648 NE 95th Street, Redmond, WA 98052 (425) 883-3881

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: July 7, 2022
 Samples Submitted: June 22, 2022
 Laboratory Reference: 2206-223
 Project: 6694-002-05 T700

**DISSOLVED METALS
 EPA 200.8/200.7
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0624F1					
Calcium	ND	1100	EPA 200.7	6-24-22	6-28-22	
Iron	ND	56	EPA 200.7	6-24-22	6-28-22	
Magnesium	ND	1100	EPA 200.7	6-24-22	6-28-22	
Manganese	ND	11	EPA 200.7	6-24-22	6-28-22	
Potassium	ND	1100	EPA 200.7	6-24-22	6-28-22	
Sodium	ND	1100	EPA 200.7	6-24-22	6-28-22	
METHOD BLANK						
Laboratory ID:	MB0624F1					
Arsenic	ND	3.0	EPA 200.8	6-24-22	7-6-22	
Chromium	ND	10	EPA 200.8	6-24-22	7-6-22	
Lead	ND	1.0	EPA 200.8	6-24-22	7-6-22	
Nickel	ND	20	EPA 200.8	6-24-22	7-6-22	



Date of Report: July 7, 2022
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**DISSOLVED METALS
 EPA 200.8/200.7
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result		Spike Level		Source	Percent	Recovery	RPD		Flags
					Result	Recovery	Limits	RPD	Limit	
DUPLICATE										
Laboratory ID:	06-223-03									
	ORIG	DUP								
Calcium	23500	25300	NA	NA		NA	NA	7	20	
Iron	ND	ND	NA	NA		NA	NA	NA	20	
Magnesium	12800	13700	NA	NA		NA	NA	7	20	
Manganese	144	155	NA	NA		NA	NA	7	20	
Potassium	2330	2490	NA	NA		NA	NA	6	20	
Sodium	7970	8390	NA	NA		NA	NA	5	20	
MATRIX SPIKES										
Laboratory ID:	06-223-03									
	MS	MSD	MS	MSD		MS	MSD			
Calcium	44300	44300	22200	22200	23500	94	94	75-125	0	20
Iron	22500	22300	22200	22200	ND	102	101	75-125	1	20
Magnesium	33900	33600	22200	22200	12800	95	94	75-125	1	20
Manganese	670	664	556	556	144	95	93	75-125	1	20
Potassium	25800	25500	22200	22200	2330	106	105	75-125	1	20
Sodium	31400	31200	22200	22200	7970	106	105	75-125	1	20
Laboratory ID:	06-223-02									
Arsenic	85.0	85.0	80.0	80.0	ND	106	106	75-125	0	20
Chromium	82.8	81.8	80.0	80.0	ND	104	102	75-125	1	20
Lead	80.8	80.8	80.0	80.0	ND	101	101	75-125	0	20
Nickel	83.4	82.6	80.0	80.0	ND	104	103	75-125	1	20



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**TOTAL ALKALINITY
 SM 2320B
 QUALITY CONTROL**

Matrix: Water
 Units: mg CaCO₃/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0701W1					
Total Alkalinity	ND	2.0	SM 2320B	7-1-22	7-1-22	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	06-306-06							
	ORIG	DUP						
Total Alkalinity	82.0	82.0	NA	NA	NA	0	10	

SPIKE BLANK								
Laboratory ID:	SB0701W1							
	SB	SB		SB				
Total Alkalinity	94.0	100	NA	94	89-110	NA	NA	



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 Project: 6694-002-05 T700

**BICARBONATE
 SM 2320B
 QUALITY CONTROL**

Matrix: Water
 Units: mg CaCO₃/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0701W1					
Bicarbonate	ND	2.0	SM 2320B	7-1-22	7-1-22	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	06-306-06							
	ORIG	DUP						
Bicarbonate	82.0	82.0	NA	NA	NA	0	10	

SPIKE BLANK								
Laboratory ID:	SB0701W1							
	SB	SB		SB				
Bicarbonate	94.0	100	NA	94	89-110	NA	NA	



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**TOTAL ORGANIC CARBON
 SM 5310B
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0630W1					
Total Organic Carbon	ND	1.0	SM 5310B	6-30-22	6-30-22	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	06-292-03							
	ORIG	DUP						
Total Organic Carbon	23.8	23.8	NA	NA	NA	0	12	

MATRIX SPIKE								
Laboratory ID:	06-292-03							
	MS	MS		MS				
Total Organic Carbon	33.4	10.0	23.8	96	80-120	NA	NA	

SPIKE BLANK								
Laboratory ID:	SB0630W1							
	SB	SB		SB				
Total Organic Carbon	10.1	10.0	NA	101	80-118	NA	NA	



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**TOTAL DISSOLVED SOLIDS
 SM 2540C
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0624W1					
Total Dissolved Solids	ND	13	SM 2540C	6-24-22	6-27-22	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	06-200-01							
	ORIG	DUP						
Total Dissolved Solids	303	283	NA	NA	NA	7	23	

SPIKE BLANK								
Laboratory ID:	SB0624W1							
	SB	SB		SB				
Total Dissolved Solids	463	500	NA	93	89-110	NA	NA	



Date of Report: July 7, 2022
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 Laboratory Reference: 2206-223
 Project: 6694-002-05 T700

**CHLORIDE
 SM 4500-Cl E
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0627W2					
Chloride	ND	2.0	SM 4500-Cl E	6-27-22	6-27-22	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	06-162-01							
	ORIG	DUP						
Chloride	26.8	27.2	NA	NA	NA	1	11	

MATRIX SPIKE								
Laboratory ID:	06-162-01							
	MS	MS		MS				
Chloride	80.6	50.0	26.8	108	90-121	NA	NA	

SPIKE BLANK								
Laboratory ID:	SB0627W2							
	SB	SB		SB				
Chloride	56.9	50.0	NA	114	90-119	NA	NA	



Date of Report: July 7, 2022
 Samples Submitted: June 22, 2022
 Laboratory Reference: 2206-223
 Project: 6694-002-05 T700

**NITRATE (as Nitrogen)
 EPA 353.2
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L-N

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0624W1					
Nitrate	ND	0.050	EPA 353.2	6-24-22	6-24-22	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	06-247-01							
	ORIG	DUP						
Nitrate	ND	ND	NA	NA	NA	NA	10	

MATRIX SPIKE								
Laboratory ID:	06-247-01							
	MS	MS		MS				
Nitrate	2.18	2.00	ND	109	88-125	NA	NA	

SPIKE BLANK								
Laboratory ID:	SB0624W1							
	SB	SB		SB				
Nitrate	1.97	2.00	NA	99	90-120	NA	NA	



Date of Report: July 7, 2022
 Samples Submitted: June 22, 2022
 Laboratory Reference: 2206-223
 Project: 6694-002-05 T700

**SULFATE
 ASTM D516-11
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0628W1					
Sulfate	ND	5.0	ASTM D516-11	6-28-22	6-28-22	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	06-268-01							
	ORIG	DUP						
Sulfate	14.4	14.6	NA	NA	NA	1	10	

MATRIX SPIKE								
Laboratory ID:	06-268-01							
	MS	MS		MS				
Sulfate	22.3	10.0	14.4	79	72-128	NA	NA	

SPIKE BLANK								
Laboratory ID:	SB0628W1							
	SB	SB		SB				
Sulfate	10.4	10.0	NA	104	85-114	NA	NA	



Date of Report: July 7, 2022
 Samples Submitted: June 22, 2022
 Laboratory Reference: 2206-223
 Project: 6694-002-05 T700

**AMMONIA (as Nitrogen)
 SM 4500-NH₃ D
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0630W1					
Ammonia	ND	0.050	SM 4500-NH3 D	6-30-22	6-30-22	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	06-200-02							
	ORIG	DUP						
Ammonia	ND	ND	NA	NA	NA	NA	15	

MATRIX SPIKE								
Laboratory ID:	06-200-02							
	MS	MS		MS				
Ammonia	4.45	5.00	ND	89	87-110	NA	NA	

SPIKE BLANK								
Laboratory ID:	SB0630W1							
	SB	SB		SB				
Ammonia	4.56	5.00	NA	91	88-110	NA	NA	





Data Qualifiers and Abbreviations

- A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.
 - B - The analyte indicated was also found in the blank sample.
 - C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.
 - E - The value reported exceeds the quantitation range and is an estimate.
 - F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.
 - H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.
 - I - Compound recovery is outside of the control limits.
 - J - The value reported was below the practical quantitation limit. The value is an estimate.
 - K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.
 - L - The RPD is outside of the control limits.
 - M - Hydrocarbons in the gasoline range are impacting the diesel range result.
 - M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.
 - N - Hydrocarbons in the lube oil range are impacting the diesel range result.
 - N1 - Hydrocarbons in diesel range are impacting lube oil range results.
 - O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.
 - P - The RPD of the detected concentrations between the two columns is greater than 40.
 - Q - Surrogate recovery is outside of the control limits.
 - S - Surrogate recovery data is not available due to the necessary dilution of the sample.
 - T - The sample chromatogram is not similar to a typical _____.
 - U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
 - U1 - The practical quantitation limit is elevated due to interferences present in the sample.
 - V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.
 - W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.
 - X - Sample extract treated with a mercury cleanup procedure.
 - X1 - Sample extract treated with a sulfuric acid/silica gel cleanup procedure.
 - Y - The calibration verification for this analyte exceeded the 20% drift specified in methods 8260 & 8270, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.
 - Z -
- ND - Not Detected at PQL
 PQL - Practical Quantitation Limit
 RPD - Relative Percent Difference



Chain of Custody

Company Information					Turnaround Request		Laboratory Number: 06-223																				
Company: CoEngineer					(Check One)		(other) <input type="checkbox"/> <input type="checkbox"/> Same Day <input type="checkbox"/> 1 Day <input type="checkbox"/> 2 Days <input type="checkbox"/> 3 Days <input checked="" type="checkbox"/> Standard (7 Days) (TPH analysis 5 Days) <input type="checkbox"/>																				
Project Number: 6694-002-05																											
Project Name: Go EIA																											
Project Manager: Garrt Legre																											
Sampled by: WS																											
Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	NWTPH-HCID	NWTPH-GvBTEX	NWTPH-Gx	NWTPH-Dx	Volatiles 8260B	Halogenated Volatiles 8260B	Semivolatiles 8270D/SIM (with low-level PAHs)	PAHs 8270D/SIM (low-level)	PCBs 8082	Organochlorine Pesticides 8081A	Organophosphorus Pesticides 8270D/SIM	Chlorinated Acid Herbicides 8151A	Total RCRA / MTCA Metals (circle one)	TCLP Metals	HEM (oil and grease) 1664	T/D As, Cr, Fe, Mn, Ni, Pb	NH ₃ , TOC, TDS	Alk ^b : calc, diss Ca, diss Na, diss K	Cl, NO ₃ , SO ₄	T/D Mg	T/D As, Fe, Mn, Pb	% Moisture
1	SWS-1-20220621	6/21/22	1218	W	7							X									X	X	X	X	X		
2	Swp-1-20220621	I	1202	I	5																	X					X
3	MW-3-20220621	I	1415	I	10					X											X	X	X	X	X		

Signature	Company	Date	Time	Comments/Special Instructions
Relinquished				Revised by GRL 6/23/22
Received				
Relinquished				
Received	<i>Nichelle Spina</i>	05E	6/22/22 11:52	
Relinquished				
Received				
Reviewed/Date	Reviewed/Date	Chromatograms with final report <input type="checkbox"/>		



14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

July 11, 2022

Garrett Leque
GeoEngineers, Inc.
554 West Bakerview Road
Bellingham, WA 98226

Re: Analytical Data for Project 6694-002-05 T1200
Laboratory Reference No. 2206-247

Dear Garrett:

Enclosed are the analytical results and associated quality control data for samples submitted on June 23, 2022.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

A handwritten signature in black ink, appearing to read "DB", with a horizontal line extending to the right.

David Baumeister
Project Manager

Enclosures



OnSite Environmental, Inc. 14648 NE 95th Street, Redmond, WA 98052 (425) 883-3881

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: July 11, 2022
Samples Submitted: June 23, 2022
Laboratory Reference: 2206-247
Project: 6694-002-05 T1200

Case Narrative

Samples were collected on June 22, 2022 and received by the laboratory on June 23, 2022. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.



Date of Report: July 11, 2022
Samples Submitted: June 23, 2022
Laboratory Reference: 2206-247
Project: 6694-002-05 T1200

ANALYTICAL REPORT FOR SAMPLES

Client ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
MW-8-20220622	06-247-01	Water	6-22-22	6-23-22	

DRAFT



Date of Report: July 11, 2022
 Samples Submitted: June 23, 2022
 Laboratory Reference: 2206-247
 Project: 6694-002-05 T1200

TOTAL METALS
EPA 200.8/200.7

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-8-20220622					
Laboratory ID:	06-247-01					
Arsenic	ND	3.3	EPA 200.8	7-6-22	7-6-22	
Chromium	ND	11	EPA 200.8	7-6-22	7-6-22	
Iron	1400	50	EPA 200.7	6-28-22	6-28-22	
Magnesium	35000	1000	EPA 200.7	6-28-22	6-28-22	
Manganese	1900	10	EPA 200.7	6-28-22	6-28-22	
Nickel	ND	22	EPA 200.8	7-6-22	7-6-22	



Date of Report: July 11, 2022
 Samples Submitted: June 23, 2022
 Laboratory Reference: 2206-247
 Project: 6694-002-05 T1200

DISSOLVED METALS
EPA 200.8/200.7

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-8-20220622					
Laboratory ID:	06-247-01					
Arsenic	ND	3.0	EPA 200.8		7-6-22	
Calcium	34000	1100	EPA 200.7		6-28-22	
Chromium	ND	10	EPA 200.8		7-6-22	
Iron	190	56	EPA 200.7		6-28-22	
Magnesium	35000	1100	EPA 200.7		6-28-22	
Manganese	1800	11	EPA 200.7		6-28-22	
Nickel	ND	20	EPA 200.8		7-6-22	
Potassium	4100	1100	EPA 200.7		6-28-22	
Sodium	9200	1100	EPA 200.7		6-28-22	



Date of Report: July 11, 2022
 Samples Submitted: June 23, 2022
 Laboratory Reference: 2206-247
 Project: 6694-002-05 T1200

TOTAL ALKALINITY
SM 2320B

Matrix: Water
 Units: mg CaCO₃/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-8-20220622					
Laboratory ID:	06-247-01					
Total Alkalinity	210	2.0	SM 2320B	7-1-22	7-1-22	



Date of Report: July 11, 2022
 Samples Submitted: June 23, 2022
 Laboratory Reference: 2206-247
 Project: 6694-002-05 T1200

**BICARBONATE
 SM 2320B**

Matrix: Water
 Units: mg CaCO₃/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-8-20220622					
Laboratory ID:	06-247-01					
Bicarbonate	210	2.0	SM 2320B	7-1-22	7-1-22	



Date of Report: July 11, 2022
Samples Submitted: June 23, 2022
Laboratory Reference: 2206-247
Project: 6694-002-05 T1200

**TOTAL ORGANIC CARBON
SM 5310B**

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-8-20220622					
Laboratory ID:	06-247-01					
Total Organic Carbon	1.6	1.0	SM 5310B	6-30-22	6-30-22	



Date of Report: July 11, 2022
Samples Submitted: June 23, 2022
Laboratory Reference: 2206-247
Project: 6694-002-05 T1200

**TOTAL DISSOLVED SOLIDS
SM 2540C**

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-8-20220622					
Laboratory ID:	06-247-01					
Total Dissolved Solids	290	13	SM 2540C	6-24-22	6-27-22	



Date of Report: July 11, 2022
Samples Submitted: June 23, 2022
Laboratory Reference: 2206-247
Project: 6694-002-05 T1200

CHLORIDE
SM 4500-Cl E

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-8-20220622					
Laboratory ID:	06-247-01					
Chloride	3.0	2.0	SM 4500-Cl E	6-27-22	6-27-22	



Date of Report: July 11, 2022
Samples Submitted: June 23, 2022
Laboratory Reference: 2206-247
Project: 6694-002-05 T1200

NITRATE (as Nitrogen)
EPA 353.2

Matrix: Water
Units: mg/L-N

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-8-20220622					
Laboratory ID:	06-247-01					
Nitrate	ND	0.050	EPA 353.2	6-24-22	6-24-22	



Date of Report: July 11, 2022
Samples Submitted: June 23, 2022
Laboratory Reference: 2206-247
Project: 6694-002-05 T1200

SULFATE
ASTM D516-11

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-8-20220622					
Laboratory ID:	06-247-01					
Sulfate	57	25	ASTM D516-11	7-7-22	7-7-02	



Date of Report: July 11, 2022
 Samples Submitted: June 23, 2022
 Laboratory Reference: 2206-247
 Project: 6694-002-05 T1200

AMMONIA (as Nitrogen)
SM 4500-NH₃ D

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-8-20220622					
Laboratory ID:	06-247-01					
Ammonia	ND	0.050	SM 4500-NH3 D	7-8-22	7-8-22	



Date of Report: July 11, 2022
 Samples Submitted: June 23, 2022
 Laboratory Reference: 2206-247
 Project: 6694-002-05 T1200

**TOTAL METALS
 EPA 200.8/200.7
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0628WH1					
Iron	ND	50	EPA 200.7	6-28-22	6-28-22	
Magnesium	ND	1000	EPA 200.7	6-28-22	6-28-22	
Manganese	ND	10	EPA 200.7	6-28-22	6-28-22	
METHOD BLANK						
Laboratory ID:	MB0706WM1					
Arsenic	ND	3.3	EPA 200.8	7-6-22	7-6-22	
Chromium	ND	11	EPA 200.8	7-6-22	7-6-22	
Lead	ND	1.1	EPA 200.8	7-6-22	7-6-22	
Nickel	ND	22	EPA 200.8	7-6-22	7-6-22	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	06-153-02							
	ORIG	DUP						
Iron	162	166	NA	NA	NA	NA	2	20
Magnesium	7020	7070	NA	NA	NA	NA	1	20
Manganese	30.9	23.9	NA	NA	NA	NA	26	20
DUPLICATE								
Laboratory ID:	06-223-03							
Arsenic	4.58	4.47	NA	NA	NA	NA	2	20
Chromium	ND	ND	NA	NA	NA	NA	NA	20
Lead	ND	ND	NA	NA	NA	NA	NA	20
Nickel	ND	ND	NA	NA	NA	NA	NA	20

MATRIX SPIKES

Laboratory ID:	06-153-02									
	MS	MSD	MS	MSD	MS	MSD				
Iron	20800	21000	20000	20000	162	103	104	75-125	1	20
Magnesium	27500	27800	20000	20000	7020	102	104	75-125	1	20
Manganese	526	520	500	500	309	43	42	75-125	1	20
MATRIX SPIKES										
Laboratory ID:	06-223-03									
Arsenic	124	122	111	111	4.58	107	105	75-125	2	20
Chromium	120	120	111	111	ND	108	108	75-125	0	20
Lead	113	112	111	111	ND	102	101	75-125	1	20
Nickel	125	125	111	111	15.0	99	99	75-125	0	20



Date of Report: July 11, 2022
 Samples Submitted: June 23, 2022
 Laboratory Reference: 2206-247
 Project: 6694-002-05 T1200

**DISSOLVED METALS
 EPA 200.8/200.7
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0628D1					
Calcium	ND	1100	EPA 200.7		6-28-22	
Iron	ND	56	EPA 200.7		6-28-22	
Magnesium	ND	1100	EPA 200.7		6-28-22	
Manganese	ND	11	EPA 200.7		6-28-22	
Potassium	ND	1100	EPA 200.7		6-28-22	
Sodium	ND	1100	EPA 200.7		6-28-22	
Laboratory ID:	MB0624F1					
Arsenic	ND	3.0	EPA 200.8	6-24-22	7-6-22	
Chromium	ND	10	EPA 200.8	6-24-22	7-6-22	
Nickel	ND	20	EPA 200.8	6-24-22	7-6-22	



Date of Report: July 11, 2022
 Samples Submitted: June 23, 2022
 Laboratory Reference: 2206-247
 Project: 6694-002-05 T1200

**DISSOLVED METALS
 EPA 200.8/200.7
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result		Spike Level		Source	Percent	Recovery	RPD		Flags
					Result	Recovery	Limits	RPD	Limit	
DUPLICATE										
Laboratory ID:	06-223-03									
	ORIG	DUP								
Calcium	23500	25300	NA	NA		NA	NA	7	20	
Iron	ND	ND	NA	NA		NA	NA	NA	20	
Magnesium	12800	13700	NA	NA		NA	NA	7	20	
Manganese	144	155	NA	NA		NA	NA	7	20	
Potassium	2330	2490	NA	NA		NA	NA	6	20	
Sodium	7970	8390	NA	NA		NA	NA	5	20	
Laboratory ID: 06-223-02										
Arsenic	ND	ND	NA	NA		NA	NA	NA	20	
Chromium	ND	ND	NA	NA		NA	NA	NA	20	
Nickel	ND	ND	NA	NA		NA	NA	NA	20	
MATRIX SPIKES										
Laboratory ID:	06-223-03									
	MS	MSD	MS	MSD		MS	MSD			
Calcium	44300	44300	22200	22200	23500	94	94	75-125	0	20
Iron	22500	22300	22200	22200	ND	102	101	75-125	1	20
Magnesium	33900	33600	22200	22200	12800	95	94	75-125	1	20
Manganese	670	664	556	556	144	95	93	75-125	1	20
Potassium	25800	25500	22200	22200	2330	106	105	75-125	1	20
Sodium	31400	31200	22200	22200	7970	106	105	75-125	1	20
Laboratory ID: 06-223-02										
Arsenic	85.0	85.0	80.0	80.0	ND	106	106	75-125	0	20
Chromium	82.8	81.8	80.0	80.0	ND	104	102	75-125	1	20
Nickel	83.4	82.6	80.0	80.0	ND	104	103	75-125	1	20



Date of Report: July 11, 2022
 Samples Submitted: June 23, 2022
 Laboratory Reference: 2206-247
 Project: 6694-002-05 T1200

**TOTAL ALKALINITY
 SM 2320B
 QUALITY CONTROL**

Matrix: Water
 Units: mg CaCO₃/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0701W1					
Total Alkalinity	ND	2.0	SM 2320B	7-1-22	7-1-22	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	06-306-06							
	ORIG	DUP						
Total Alkalinity	82.0	82.0	NA	NA	NA	0	10	

SPIKE BLANK								
Laboratory ID:	SB0701W1							
	SB	SB		SB				
Total Alkalinity	94.0	100	NA	94	89-110	NA	NA	



Date of Report: July 11, 2022
 Samples Submitted: June 23, 2022
 Laboratory Reference: 2206-247
 Project: 6694-002-05 T1200

**BICARBONATE
 SM 2320B
 QUALITY CONTROL**

Matrix: Water
 Units: mg CaCO₃/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0701W1					
Bicarbonate	ND	2.0	SM 2320B	7-1-22	7-1-22	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	06-306-06							
	ORIG	DUP						
Bicarbonate	82.0	82.0	NA	NA	NA	0	10	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANK								
Laboratory ID:	SB0701W1							
	SB	SB		SB				
Bicarbonate	94.0	100	NA	94	89-110	NA	NA	



Date of Report: July 11, 2022
 Samples Submitted: June 23, 2022
 Laboratory Reference: 2206-247
 Project: 6694-002-05 T1200

**TOTAL ORGANIC CARBON
 SM 5310B
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0630W1					
Total Organic Carbon	ND	1.0	SM 5310B	6-30-22	6-30-22	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	06-292-03							
	ORIG	DUP						
Total Organic Carbon	23.8	23.8	NA	NA	NA	0	12	

MATRIX SPIKE								
Laboratory ID:	06-292-03							
	MS	MS		MS				
Total Organic Carbon	33.4	10.0	23.8	96	80-120	NA	NA	

SPIKE BLANK								
Laboratory ID:	SB0630W1							
	SB	SB		SB				
Total Organic Carbon	10.1	10.0	NA	101	80-118	NA	NA	



Date of Report: July 11, 2022
 Samples Submitted: June 23, 2022
 Laboratory Reference: 2206-247
 Project: 6694-002-05 T1200

**TOTAL DISSOLVED SOLIDS
 SM 2540C
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0624W1					
Total Dissolved Solids	ND	13	SM 2540C	6-24-22	6-27-22	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	06-200-01							
	ORIG	DUP						
Total Dissolved Solids	303	283	NA	NA	NA	7	23	

SPIKE BLANK								
Laboratory ID:	SB0624W1							
	SB	SB		SB				
Total Dissolved Solids	463	500	NA	93	89-110	NA	NA	



Date of Report: July 11, 2022
 Samples Submitted: June 23, 2022
 Laboratory Reference: 2206-247
 Project: 6694-002-05 T1200

**CHLORIDE
 SM 4500-Cl E
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0627W2					
Chloride	ND	2.0	SM 4500-Cl E	6-27-22	6-27-22	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	06-162-01							
	ORIG	DUP						
Chloride	26.8	27.2	NA	NA	NA	1	11	

MATRIX SPIKE								
Laboratory ID:	06-162-01							
	MS	MS		MS				
Chloride	80.6	50.0	26.8	108	90-121	NA	NA	

SPIKE BLANK								
Laboratory ID:	SB0627W2							
	SB	SB		SB				
Chloride	56.9	50.0	NA	114	90-119	NA	NA	



Date of Report: July 11, 2022
 Samples Submitted: June 23, 2022
 Laboratory Reference: 2206-247
 Project: 6694-002-05 T1200

**NITRATE (as Nitrogen)
 EPA 353.2
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L-N

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0624W1					
Nitrate	ND	0.050	EPA 353.2	6-24-22	6-24-22	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	06-247-01							
	ORIG	DUP						
Nitrate	ND	ND	NA	NA	NA	NA	10	

MATRIX SPIKE								
Laboratory ID:	06-247-01							
	MS	MS		MS				
Nitrate	2.18	2.00	ND	109	88-125	NA	NA	

SPIKE BLANK								
Laboratory ID:	SB0624W1							
	SB	SB		SB				
Nitrate	1.97	2.00	NA	99	90-120	NA	NA	



Date of Report: July 11, 2022
 Samples Submitted: June 23, 2022
 Laboratory Reference: 2206-247
 Project: 6694-002-05 T1200

**SULFATE
 ASTM D516-11
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0707W1					
Sulfate	ND	5.0	ASTM D516-11	7-7-22	7-7-02	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	06-306-06							
	ORIG	DUP						
Sulfate	12.7	12.6	NA	NA	NA	1	10	

MATRIX SPIKE								
Laboratory ID:	06-306-06							
	MS	MS		MS				
Sulfate	21.9	10.0	12.7	92	72-128	NA	NA	

SPIKE BLANK								
Laboratory ID:	SB0707W1							
	SB	SB		SB				
Sulfate	10.4	10.0	NA	104	85-114	NA	NA	



Date of Report: July 11, 2022
 Samples Submitted: June 23, 2022
 Laboratory Reference: 2206-247
 Project: 6694-002-05 T1200

**AMMONIA (as Nitrogen)
 SM 4500-NH₃ D
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0708W1					
Ammonia	ND	0.050	SM 4500-NH3 D	7-8-22	7-8-22	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	06-292-03							
	ORIG	DUP						
Ammonia	2.83	2.86	NA	NA	NA	1	15	

MATRIX SPIKE								
Laboratory ID:	06-292-03							
	MS	MS		MS				
Ammonia	23.3	20.0	2.83	102	87-110	NA	NA	

SPIKE BLANK								
Laboratory ID:	SB0708W1							
	SB	SB		SB				
Ammonia	4.44	5.00	NA	89	88-110	NA	NA	





Data Qualifiers and Abbreviations

- A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.
- B - The analyte indicated was also found in the blank sample.
- C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.
- E - The value reported exceeds the quantitation range and is an estimate.
- F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.
- H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.
- I - Compound recovery is outside of the control limits.
- J - The value reported was below the practical quantitation limit. The value is an estimate.
- K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.
- L - The RPD is outside of the control limits.
- M - Hydrocarbons in the gasoline range are impacting the diesel range result.
- M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.
- N - Hydrocarbons in the lube oil range are impacting the diesel range result.
- N1 - Hydrocarbons in diesel range are impacting lube oil range results.
- O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.
- P - The RPD of the detected concentrations between the two columns is greater than 40.
- Q - Surrogate recovery is outside of the control limits.
- S - Surrogate recovery data is not available due to the necessary dilution of the sample.
- T - The sample chromatogram is not similar to a typical _____.
- U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
- U1 - The practical quantitation limit is elevated due to interferences present in the sample.
- V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.
- W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.
- X - Sample extract treated with a mercury cleanup procedure.
- X1 - Sample extract treated with a sulfuric acid/silica gel cleanup procedure.
- Y - The calibration verification for this analyte exceeded the 20% drift specified in methods 8260 & 8270, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.

Z -

ND - Not Detected at PQL
 PQL - Practical Quantitation Limit
 RPD - Relative Percent Difference



Chain of Custody

Company: **GEI**
 Project Number: **6614-002-05 T1200**
 Project Name: **Go East**
 Project Manager: **Garrett Legge**
 Sampled by: **Craig Lund**

Turnaround Request (in working days)
 (Check One)
 Same Day 1 Day
 2 Days 3 Days
 Standard (7 Days)
 (other)

Laboratory Number: **06-247**

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX (8021) 8260	NWTPH-Gx	NWTPH-Dx (Acid / SG Clean-up)	Volatiles 8260	Halogenated Volatiles 8260	EDB EPA 8011 (Waters Only)	Semivolatiles 8270/SIM (with low-level PAHs)	PAHs 8270/SIM (low-level)	PCBs 8082	Organochlorine Pesticides 8081	Organophosphorus Pesticides 8270/SIM	Chlorinated Acid Herbicides 8151	Total RCRA Metals	Total MTCA Metals	PCP Metals Dis. Ca, V, Ni, HEM (oil and grease) 1664	Leachate Indicators (Among, etc, etc)	Graben Parameters *	As, Fe, Mn, Pb (total to baseline)	As, Cr, Fe, Mn, Ni, Mg - Total / Dis. % Moisture
1	MW-8-20220622	6/22/22	1340	Water	6																X	X	X	X	X

Signature	Company	Date	Time	Comments/Special Instructions
<i>Craig Lund</i>	GEI	6/22/22	14:30	Please contact Garrett L. before
<i>J. Swackhamer</i>	ALPHA	6/23/22	0930	Running Sample
<i>J. Swackhamer</i>	ALPHA	6/23/22	1313	* Alkalinity, Bicarbonate, chloride, Nitrate, Sulfate.
<i>Nichelle Blinn</i>	OSB	6/23/22	1313	
				Data Package: Standard <input type="checkbox"/> Level III <input type="checkbox"/> Level IV <input type="checkbox"/>
Reviewed/Date	Reviewed/Date			Chromatograms with final report <input type="checkbox"/> Electronic Data Deliverables (EDDs) <input type="checkbox"/>



14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

July 11, 2022

Garrett Leque
GeoEngineers, Inc.
554 West Bakerview Road
Bellingham, WA 98226

Re: Analytical Data for Project 6694-002-05 T700
Laboratory Reference No. 2206-258

Dear Garrett:

Enclosed are the analytical results and associated quality control data for samples submitted on June 24, 2022.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

A handwritten signature in black ink, appearing to read "DB", with a horizontal line extending to the right.

David Baumeister
Project Manager

Enclosures



OnSite Environmental, Inc. 14648 NE 95th Street, Redmond, WA 98052 (425) 883-3881

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: July 11, 2022
Samples Submitted: June 24, 2022
Laboratory Reference: 2206-258
Project: 6694-002-00 T700

Case Narrative

Samples were collected on June 23, 2022 and received by the laboratory on June 24, 2022. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

Organochlorine Pesticides by EPA 8081B Analysis

The Heptachlor RPD result (30%) was above the quality control limit of 16%. Due to the fact the sample was non-detect for this analyte and all other QC was within quality control limits, no further action was performed.

The Aldrin RPD result (36%) was above the quality control limit of 15%. Due to the fact the sample was non-detect for this analyte and all other QC was within quality control limits, no further action was performed.

Any other QA/QC issues associated with this extraction and analysis will be indicated with a footnote reference and discussed in detail on the Data Qualifier page.



Date of Report: July 11, 2022
Samples Submitted: June 24, 2022
Laboratory Reference: 2206-258
Project: 6694-002-00 T700

ANALYTICAL REPORT FOR SAMPLES

Client ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
MW-9-20220623	06-258-01	Water	6-23-22	6-24-22	
MW-10-20220623	06-258-02	Water	6-23-22	6-24-22	



Date of Report: July 11, 2022
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 Project: 6694-002-00 T700

**GASOLINE RANGE ORGANICS
 NWTPH-Gx**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-9-20220623					
Laboratory ID:	06-258-01					
Gasoline	ND	100	NWTPH-Gx	6-28-22	6-28-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	89	65-122				
Client ID:	MW-10-20220623					
Laboratory ID:	06-258-02					
Gasoline	ND	100	NWTPH-Gx	6-28-22	6-28-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	84	65-122				



Date of Report: July 11, 2022
 Samples Submitted: June 24, 2022
 Laboratory Reference: 2206-258
 Project: 6694-002-00 T700

**DIESEL AND HEAVY OIL RANGE ORGANICS
 NWTPH-Dx**

Matrix: Water
 Units: mg/L (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-9-20220623					
Laboratory ID:	06-258-01					
Diesel Range Organics	0.21	0.10	NWTPH-Dx	6-28-22	6-29-22	
Lube Oil Range Organics	0.31	0.20	NWTPH-Dx	6-28-22	6-29-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	93	50-150				
Client ID:	MW-10-20220623					
Laboratory ID:	06-258-02					
Diesel Range Organics	ND	0.13	NWTPH-Dx	6-28-22	6-29-22	
Lube Oil Range Organics	0.22	0.21	NWTPH-Dx	6-28-22	6-29-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	96	50-150				



Date of Report: July 11, 2022
 Samples Submitted: June 24, 2022
 Laboratory Reference: 2206-258
 Project: 6694-002-00 T700

VOLATILE ORGANICS EPA 8260D

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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-9-20220623					
Laboratory ID:	06-258-01					
Dichlorodifluoromethane	ND	0.20	EPA 8260D	6-27-22	6-27-22	
Chloromethane	ND	1.4	EPA 8260D	6-27-22	6-27-22	
Vinyl Chloride	ND	0.20	EPA 8260D	6-27-22	6-27-22	
Bromomethane	ND	2.3	EPA 8260D	6-27-22	6-27-22	
Chloroethane	ND	1.0	EPA 8260D	6-27-22	6-27-22	
Trichlorofluoromethane	ND	0.20	EPA 8260D	6-27-22	6-27-22	
1,1-Dichloroethene	ND	0.20	EPA 8260D	6-27-22	6-27-22	
Acetone	ND	10	EPA 8260D	6-27-22	6-27-22	
Iodomethane	ND	7.7	EPA 8260D	6-27-22	6-27-22	
Carbon Disulfide	ND	0.20	EPA 8260D	6-27-22	6-27-22	
Methylene Chloride	ND	1.0	EPA 8260D	6-27-22	6-27-22	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	6-27-22	6-27-22	
Methyl t-Butyl Ether	ND	0.20	EPA 8260D	6-27-22	6-27-22	
1,1-Dichloroethane	ND	0.20	EPA 8260D	6-27-22	6-27-22	
Vinyl Acetate	ND	1.0	EPA 8260D	6-27-22	6-27-22	
2,2-Dichloropropane	ND	0.20	EPA 8260D	6-27-22	6-27-22	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	6-27-22	6-27-22	
2-Butanone	ND	5.0	EPA 8260D	6-27-22	6-27-22	
Bromochloromethane	ND	0.20	EPA 8260D	6-27-22	6-27-22	
Chloroform	ND	0.20	EPA 8260D	6-27-22	6-27-22	
1,1,1-Trichloroethane	ND	0.20	EPA 8260D	6-27-22	6-27-22	
Carbon Tetrachloride	ND	0.20	EPA 8260D	6-27-22	6-27-22	
1,1-Dichloropropene	ND	0.20	EPA 8260D	6-27-22	6-27-22	
Benzene	ND	0.20	EPA 8260D	6-27-22	6-27-22	
1,2-Dichloroethane	ND	0.20	EPA 8260D	6-27-22	6-27-22	
Trichloroethene	ND	0.20	EPA 8260D	6-27-22	6-27-22	
1,2-Dichloropropane	ND	0.20	EPA 8260D	6-27-22	6-27-22	
Dibromomethane	ND	0.20	EPA 8260D	6-27-22	6-27-22	
Bromodichloromethane	ND	0.20	EPA 8260D	6-27-22	6-27-22	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260D	6-27-22	6-27-22	
Methyl Isobutyl Ketone	ND	2.0	EPA 8260D	6-27-22	6-27-22	
Toluene	ND	1.0	EPA 8260D	6-27-22	6-27-22	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260D	6-27-22	6-27-22	



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Date of Report: July 11, 2022
 Samples Submitted: June 24, 2022
 Laboratory Reference: 2206-258
 Project: 6694-002-00 T700

VOLATILE ORGANICS EPA 8260D

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-9-20220623					
Laboratory ID:	06-258-01					
1,1,2-Trichloroethane	ND	0.20	EPA 8260D	6-27-22	6-27-22	
Tetrachloroethene	ND	0.20	EPA 8260D	6-27-22	6-27-22	
1,3-Dichloropropane	ND	0.20	EPA 8260D	6-27-22	6-27-22	
2-Hexanone	ND	2.0	EPA 8260D	6-27-22	6-27-22	
Dibromochloromethane	ND	0.20	EPA 8260D	6-27-22	6-27-22	
1,2-Dibromoethane	ND	0.20	EPA 8260D	6-27-22	6-27-22	
Chlorobenzene	ND	0.20	EPA 8260D	6-27-22	6-27-22	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260D	6-27-22	6-27-22	
Ethylbenzene	ND	0.20	EPA 8260D	6-27-22	6-27-22	
m,p-Xylene	ND	0.40	EPA 8260D	6-27-22	6-27-22	
o-Xylene	ND	0.20	EPA 8260D	6-27-22	6-27-22	
Styrene	ND	0.20	EPA 8260D	6-27-22	6-27-22	
Bromoform	ND	1.0	EPA 8260D	6-27-22	6-27-22	
Isopropylbenzene	ND	0.20	EPA 8260D	6-27-22	6-27-22	
Bromobenzene	ND	0.20	EPA 8260D	6-27-22	6-27-22	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260D	6-27-22	6-27-22	
1,2,3-Trichloropropane	ND	0.20	EPA 8260D	6-27-22	6-27-22	
n-Propylbenzene	ND	0.20	EPA 8260D	6-27-22	6-27-22	
2-Chlorotoluene	ND	0.20	EPA 8260D	6-27-22	6-27-22	
4-Chlorotoluene	ND	0.20	EPA 8260D	6-27-22	6-27-22	
1,3,5-Trimethylbenzene	ND	0.20	EPA 8260D	6-27-22	6-27-22	
tert-Butylbenzene	ND	0.20	EPA 8260D	6-27-22	6-27-22	
1,2,4-Trimethylbenzene	ND	0.20	EPA 8260D	6-27-22	6-27-22	
sec-Butylbenzene	ND	0.20	EPA 8260D	6-27-22	6-27-22	
1,3-Dichlorobenzene	ND	0.20	EPA 8260D	6-27-22	6-27-22	
p-Isopropyltoluene	ND	0.20	EPA 8260D	6-27-22	6-27-22	
1,4-Dichlorobenzene	ND	0.20	EPA 8260D	6-27-22	6-27-22	
1,2-Dichlorobenzene	ND	0.20	EPA 8260D	6-27-22	6-27-22	
n-Butylbenzene	ND	0.20	EPA 8260D	6-27-22	6-27-22	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260D	6-27-22	6-27-22	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260D	6-27-22	6-27-22	
Hexachlorobutadiene	ND	1.0	EPA 8260D	6-27-22	6-27-22	
Naphthalene	ND	1.0	EPA 8260D	6-27-22	6-27-22	
1,2,3-Trichlorobenzene	ND	1.0	EPA 8260D	6-27-22	6-27-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>101</i>	<i>75-127</i>				
<i>Toluene-d8</i>	<i>118</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>99</i>	<i>78-125</i>				



Date of Report: July 11, 2022
 Samples Submitted: June 24, 2022
 Laboratory Reference: 2206-258
 Project: 6694-002-00 T700

VOLATILE ORGANICS EPA 8260D

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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-10-20220623					
Laboratory ID:	06-258-02					
Dichlorodifluoromethane	ND	0.20	EPA 8260D	6-27-22	6-27-22	
Chloromethane	ND	1.4	EPA 8260D	6-27-22	6-27-22	
Vinyl Chloride	ND	0.20	EPA 8260D	6-27-22	6-27-22	
Bromomethane	ND	2.3	EPA 8260D	6-27-22	6-27-22	
Chloroethane	ND	1.0	EPA 8260D	6-27-22	6-27-22	
Trichlorofluoromethane	ND	0.20	EPA 8260D	6-27-22	6-27-22	
1,1-Dichloroethene	ND	0.20	EPA 8260D	6-27-22	6-27-22	
Acetone	ND	10	EPA 8260D	6-27-22	6-27-22	
Iodomethane	ND	7.7	EPA 8260D	6-27-22	6-27-22	
Carbon Disulfide	ND	0.20	EPA 8260D	6-27-22	6-27-22	
Methylene Chloride	ND	1.0	EPA 8260D	6-27-22	6-27-22	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	6-27-22	6-27-22	
Methyl t-Butyl Ether	ND	0.20	EPA 8260D	6-27-22	6-27-22	
1,1-Dichloroethane	ND	0.20	EPA 8260D	6-27-22	6-27-22	
Vinyl Acetate	ND	1.0	EPA 8260D	6-27-22	6-27-22	
2,2-Dichloropropane	ND	0.20	EPA 8260D	6-27-22	6-27-22	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	6-27-22	6-27-22	
2-Butanone	ND	5.0	EPA 8260D	6-27-22	6-27-22	
Bromochloromethane	ND	0.20	EPA 8260D	6-27-22	6-27-22	
Chloroform	ND	0.20	EPA 8260D	6-27-22	6-27-22	
1,1,1-Trichloroethane	ND	0.20	EPA 8260D	6-27-22	6-27-22	
Carbon Tetrachloride	ND	0.20	EPA 8260D	6-27-22	6-27-22	
1,1-Dichloropropene	ND	0.20	EPA 8260D	6-27-22	6-27-22	
Benzene	ND	0.20	EPA 8260D	6-27-22	6-27-22	
1,2-Dichloroethane	ND	0.20	EPA 8260D	6-27-22	6-27-22	
Trichloroethene	ND	0.20	EPA 8260D	6-27-22	6-27-22	
1,2-Dichloropropane	ND	0.20	EPA 8260D	6-27-22	6-27-22	
Dibromomethane	ND	0.20	EPA 8260D	6-27-22	6-27-22	
Bromodichloromethane	ND	0.20	EPA 8260D	6-27-22	6-27-22	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260D	6-27-22	6-27-22	
Methyl Isobutyl Ketone	ND	2.0	EPA 8260D	6-27-22	6-27-22	
Toluene	ND	1.0	EPA 8260D	6-27-22	6-27-22	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260D	6-27-22	6-27-22	



Date of Report: July 11, 2022
 Samples Submitted: June 24, 2022
 Laboratory Reference: 2206-258
 Project: 6694-002-00 T700

VOLATILE ORGANICS EPA 8260D

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-10-20220623					
Laboratory ID:	06-258-02					
1,1,2-Trichloroethane	ND	0.20	EPA 8260D	6-27-22	6-27-22	
Tetrachloroethene	ND	0.20	EPA 8260D	6-27-22	6-27-22	
1,3-Dichloropropane	ND	0.20	EPA 8260D	6-27-22	6-27-22	
2-Hexanone	ND	2.0	EPA 8260D	6-27-22	6-27-22	
Dibromochloromethane	ND	0.20	EPA 8260D	6-27-22	6-27-22	
1,2-Dibromoethane	ND	0.20	EPA 8260D	6-27-22	6-27-22	
Chlorobenzene	ND	0.20	EPA 8260D	6-27-22	6-27-22	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260D	6-27-22	6-27-22	
Ethylbenzene	0.21	0.20	EPA 8260D	6-27-22	6-27-22	
m,p-Xylene	ND	0.40	EPA 8260D	6-27-22	6-27-22	
o-Xylene	ND	0.20	EPA 8260D	6-27-22	6-27-22	
Styrene	ND	0.20	EPA 8260D	6-27-22	6-27-22	
Bromoform	ND	1.0	EPA 8260D	6-27-22	6-27-22	
Isopropylbenzene	ND	0.20	EPA 8260D	6-27-22	6-27-22	
Bromobenzene	ND	0.20	EPA 8260D	6-27-22	6-27-22	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260D	6-27-22	6-27-22	
1,2,3-Trichloropropane	ND	0.20	EPA 8260D	6-27-22	6-27-22	
n-Propylbenzene	ND	0.20	EPA 8260D	6-27-22	6-27-22	
2-Chlorotoluene	ND	0.20	EPA 8260D	6-27-22	6-27-22	
4-Chlorotoluene	ND	0.20	EPA 8260D	6-27-22	6-27-22	
1,3,5-Trimethylbenzene	ND	0.20	EPA 8260D	6-27-22	6-27-22	
tert-Butylbenzene	ND	0.20	EPA 8260D	6-27-22	6-27-22	
1,2,4-Trimethylbenzene	ND	0.20	EPA 8260D	6-27-22	6-27-22	
sec-Butylbenzene	ND	0.20	EPA 8260D	6-27-22	6-27-22	
1,3-Dichlorobenzene	ND	0.20	EPA 8260D	6-27-22	6-27-22	
p-Isopropyltoluene	ND	0.20	EPA 8260D	6-27-22	6-27-22	
1,4-Dichlorobenzene	ND	0.20	EPA 8260D	6-27-22	6-27-22	
1,2-Dichlorobenzene	ND	0.20	EPA 8260D	6-27-22	6-27-22	
n-Butylbenzene	ND	0.20	EPA 8260D	6-27-22	6-27-22	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260D	6-27-22	6-27-22	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260D	6-27-22	6-27-22	
Hexachlorobutadiene	ND	1.0	EPA 8260D	6-27-22	6-27-22	
Naphthalene	ND	1.0	EPA 8260D	6-27-22	6-27-22	
1,2,3-Trichlorobenzene	ND	1.0	EPA 8260D	6-27-22	6-27-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	99	75-127				
<i>Toluene-d8</i>	88	80-127				
<i>4-Bromofluorobenzene</i>	101	78-125				



Date of Report: July 11, 2022
 Samples Submitted: June 24, 2022
 Laboratory Reference: 2206-258
 Project: 6694-002-00 T700

SEMIVOLATILE ORGANICS EPA 8270E/SIM
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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-9-20220623					
Laboratory ID:	06-258-01					
n-Nitrosodimethylamine	ND	0.98	EPA 8270E	6-27-22	6-27-22	
Pyridine	ND	0.98	EPA 8270E	6-27-22	6-27-22	
Phenol	ND	0.98	EPA 8270E	6-27-22	6-27-22	
Aniline	ND	4.9	EPA 8270E	6-27-22	6-27-22	
bis(2-Chloroethyl)ether	ND	0.98	EPA 8270E	6-27-22	6-27-22	
2-Chlorophenol	ND	0.98	EPA 8270E	6-27-22	6-27-22	
1,3-Dichlorobenzene	ND	0.98	EPA 8270E	6-27-22	6-27-22	
1,4-Dichlorobenzene	ND	0.98	EPA 8270E	6-27-22	6-27-22	
Benzyl alcohol	ND	0.98	EPA 8270E	6-27-22	6-27-22	
1,2-Dichlorobenzene	ND	0.98	EPA 8270E	6-27-22	6-27-22	
2-Methylphenol (o-Cresol)	ND	0.98	EPA 8270E	6-27-22	6-27-22	
bis(2-Chloroisopropyl)ether	ND	0.98	EPA 8270E	6-27-22	6-27-22	
(3+4)-Methylphenol (m,p-Cresol)	ND	0.98	EPA 8270E	6-27-22	6-27-22	
n-Nitroso-di-n-propylamine	ND	0.98	EPA 8270E	6-27-22	6-27-22	
Hexachloroethane	ND	0.98	EPA 8270E	6-27-22	6-27-22	
Nitrobenzene	ND	0.98	EPA 8270E	6-27-22	6-27-22	
Isophorone	ND	0.98	EPA 8270E	6-27-22	6-27-22	
2-Nitrophenol	ND	0.98	EPA 8270E	6-27-22	6-27-22	
2,4-Dimethylphenol	ND	0.98	EPA 8270E	6-27-22	6-27-22	
bis(2-Chloroethoxy)methane	ND	0.98	EPA 8270E	6-27-22	6-27-22	
2,4-Dichlorophenol	ND	0.98	EPA 8270E	6-27-22	6-27-22	
1,2,4-Trichlorobenzene	ND	0.98	EPA 8270E	6-27-22	6-27-22	
Naphthalene	ND	0.098	EPA 8270E/SIM	6-27-22	6-27-22	
4-Chloroaniline	ND	0.98	EPA 8270E	6-27-22	6-27-22	
Hexachlorobutadiene	ND	0.98	EPA 8270E	6-27-22	6-27-22	
4-Chloro-3-methylphenol	ND	0.98	EPA 8270E	6-27-22	6-27-22	
2-Methylnaphthalene	ND	0.098	EPA 8270E/SIM	6-27-22	6-27-22	
1-Methylnaphthalene	ND	0.098	EPA 8270E/SIM	6-27-22	6-27-22	
Hexachlorocyclopentadiene	ND	1.4	EPA 8270E	6-27-22	6-27-22	
2,4,6-Trichlorophenol	ND	0.98	EPA 8270E	6-27-22	6-27-22	
2,3-Dichloroaniline	ND	0.98	EPA 8270E	6-27-22	6-27-22	
2,4,5-Trichlorophenol	ND	0.98	EPA 8270E	6-27-22	6-27-22	
2-Chloronaphthalene	ND	0.98	EPA 8270E	6-27-22	6-27-22	
2-Nitroaniline	ND	0.98	EPA 8270E	6-27-22	6-27-22	
1,4-Dinitrobenzene	ND	0.98	EPA 8270E	6-27-22	6-27-22	
Dimethylphthalate	ND	4.9	EPA 8270E	6-27-22	6-27-22	
1,3-Dinitrobenzene	ND	0.98	EPA 8270E	6-27-22	6-27-22	
2,6-Dinitrotoluene	ND	0.98	EPA 8270E	6-27-22	6-27-22	
1,2-Dinitrobenzene	ND	0.98	EPA 8270E	6-27-22	6-27-22	
Acenaphthylene	ND	0.098	EPA 8270E/SIM	6-27-22	6-27-22	
3-Nitroaniline	ND	0.98	EPA 8270E	6-27-22	6-27-22	



Date of Report: July 11, 2022
 Samples Submitted: June 24, 2022
 Laboratory Reference: 2206-258
 Project: 6694-002-00 T700

SEMIVOLATILE ORGANICS EPA 8270E/SIM
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-9-20220623					
Laboratory ID:	06-258-01					
2,4-Dinitrophenol	ND	6.9	EPA 8270E	6-27-22	6-27-22	
Acenaphthene	0.36	0.098	EPA 8270E/SIM	6-27-22	6-27-22	
4-Nitrophenol	ND	4.9	EPA 8270E	6-27-22	6-27-22	
2,4-Dinitrotoluene	ND	0.98	EPA 8270E	6-27-22	6-27-22	
Dibenzofuran	ND	0.98	EPA 8270E	6-27-22	6-27-22	
2,3,5,6-Tetrachlorophenol	ND	0.98	EPA 8270E	6-27-22	6-27-22	
2,3,4,6-Tetrachlorophenol	ND	0.98	EPA 8270E	6-27-22	6-27-22	
Diethylphthalate	ND	0.98	EPA 8270E	6-27-22	6-27-22	
4-Chlorophenyl-phenylether	ND	0.98	EPA 8270E	6-27-22	6-27-22	
4-Nitroaniline	ND	0.98	EPA 8270E	6-27-22	6-27-22	
Fluorene	ND	0.098	EPA 8270E/SIM	6-27-22	6-27-22	
4,6-Dinitro-2-methylphenol	ND	6.9	EPA 8270E	6-27-22	6-27-22	
n-Nitrosodiphenylamine	ND	0.98	EPA 8270E	6-27-22	6-27-22	
1,2-Diphenylhydrazine	ND	0.98	EPA 8270E	6-27-22	6-27-22	
4-Bromophenyl-phenylether	ND	0.98	EPA 8270E	6-27-22	6-27-22	
Hexachlorobenzene	ND	0.98	EPA 8270E	6-27-22	6-27-22	
Pentachlorophenol	ND	6.9	EPA 8270E	6-27-22	6-27-22	
Phenanthrene	ND	0.098	EPA 8270E/SIM	6-27-22	6-27-22	
Anthracene	ND	0.098	EPA 8270E/SIM	6-27-22	6-27-22	
Carbazole	ND	0.98	EPA 8270E	6-27-22	6-27-22	
Di-n-butylphthalate	ND	4.9	EPA 8270E	6-27-22	6-27-22	
Fluoranthene	ND	0.098	EPA 8270E/SIM	6-27-22	6-27-22	
Pyrene	ND	0.098	EPA 8270E/SIM	6-27-22	6-27-22	
Butylbenzylphthalate	ND	0.98	EPA 8270E	6-27-22	6-27-22	
bis-2-Ethylhexyladipate	ND	4.9	EPA 8270E	6-27-22	6-27-22	
3,3'-Dichlorobenzidine	ND	4.9	EPA 8270E	6-27-22	6-27-22	
Benzo[a]anthracene	ND	0.0098	EPA 8270E/SIM	6-27-22	6-27-22	
Chrysene	ND	0.0098	EPA 8270E/SIM	6-27-22	6-27-22	
bis(2-Ethylhexyl)phthalate	ND	4.9	EPA 8270E	6-27-22	6-27-22	
Di-n-octylphthalate	ND	0.98	EPA 8270E	6-27-22	6-27-22	
Benzo[b]fluoranthene	ND	0.0098	EPA 8270E/SIM	6-27-22	6-27-22	
Benzo(j,k)fluoranthene	ND	0.0098	EPA 8270E/SIM	6-27-22	6-27-22	
Benzo[a]pyrene	ND	0.0098	EPA 8270E/SIM	6-27-22	6-27-22	
Indeno[1,2,3-cd]pyrene	ND	0.0098	EPA 8270E/SIM	6-27-22	6-27-22	
Dibenz[a,h]anthracene	ND	0.0098	EPA 8270E/SIM	6-27-22	6-27-22	
Benzo[g,h,i]perylene	ND	0.0098	EPA 8270E/SIM	6-27-22	6-27-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
2-Fluorophenol	35	10 - 81				
Phenol-d6	26	10 - 86				
Nitrobenzene-d5	59	27 - 105				
2-Fluorobiphenyl	64	33 - 100				
2,4,6-Tribromophenol	77	25 - 124				
Terphenyl-d14	63	40 - 116				



Date of Report: July 11, 2022
 Samples Submitted: June 24, 2022
 Laboratory Reference: 2206-258
 Project: 6694-002-00 T700

SEMIVOLATILE ORGANICS EPA 8270E/SIM
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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-10-20220623					
Laboratory ID:	06-258-02					
n-Nitrosodimethylamine	ND	1.0	EPA 8270E	6-27-22	6-27-22	
Pyridine	ND	1.0	EPA 8270E	6-27-22	6-27-22	
Phenol	ND	1.0	EPA 8270E	6-27-22	6-27-22	
Aniline	ND	5.0	EPA 8270E	6-27-22	6-27-22	
bis(2-Chloroethyl)ether	ND	1.0	EPA 8270E	6-27-22	6-27-22	
2-Chlorophenol	ND	1.0	EPA 8270E	6-27-22	6-27-22	
1,3-Dichlorobenzene	ND	1.0	EPA 8270E	6-27-22	6-27-22	
1,4-Dichlorobenzene	ND	1.0	EPA 8270E	6-27-22	6-27-22	
Benzyl alcohol	ND	1.0	EPA 8270E	6-27-22	6-27-22	
1,2-Dichlorobenzene	ND	1.0	EPA 8270E	6-27-22	6-27-22	
2-Methylphenol (o-Cresol)	ND	1.0	EPA 8270E	6-27-22	6-27-22	
bis(2-Chloroisopropyl)ether	ND	1.0	EPA 8270E	6-27-22	6-27-22	
(3+4)-Methylphenol (m,p-Cresol)	ND	1.0	EPA 8270E	6-27-22	6-27-22	
n-Nitroso-di-n-propylamine	ND	1.0	EPA 8270E	6-27-22	6-27-22	
Hexachloroethane	ND	1.0	EPA 8270E	6-27-22	6-27-22	
Nitrobenzene	ND	1.0	EPA 8270E	6-27-22	6-27-22	
Isophorone	ND	1.0	EPA 8270E	6-27-22	6-27-22	
2-Nitrophenol	ND	1.0	EPA 8270E	6-27-22	6-27-22	
2,4-Dimethylphenol	ND	1.0	EPA 8270E	6-27-22	6-27-22	
bis(2-Chloroethoxy)methane	ND	1.0	EPA 8270E	6-27-22	6-27-22	
2,4-Dichlorophenol	ND	1.0	EPA 8270E	6-27-22	6-27-22	
1,2,4-Trichlorobenzene	ND	1.0	EPA 8270E	6-27-22	6-27-22	
Naphthalene	ND	0.10	EPA 8270E/SIM	6-27-22	6-27-22	
4-Chloroaniline	ND	1.0	EPA 8270E	6-27-22	6-27-22	
Hexachlorobutadiene	ND	1.0	EPA 8270E	6-27-22	6-27-22	
4-Chloro-3-methylphenol	ND	1.0	EPA 8270E	6-27-22	6-27-22	
2-Methylnaphthalene	ND	0.10	EPA 8270E/SIM	6-27-22	6-27-22	
1-Methylnaphthalene	ND	0.10	EPA 8270E/SIM	6-27-22	6-27-22	
Hexachlorocyclopentadiene	ND	1.4	EPA 8270E	6-27-22	6-27-22	
2,4,6-Trichlorophenol	ND	1.0	EPA 8270E	6-27-22	6-27-22	
2,3-Dichloroaniline	ND	1.0	EPA 8270E	6-27-22	6-27-22	
2,4,5-Trichlorophenol	ND	1.0	EPA 8270E	6-27-22	6-27-22	
2-Chloronaphthalene	ND	1.0	EPA 8270E	6-27-22	6-27-22	
2-Nitroaniline	ND	1.0	EPA 8270E	6-27-22	6-27-22	
1,4-Dinitrobenzene	ND	1.0	EPA 8270E	6-27-22	6-27-22	
Dimethylphthalate	ND	5.0	EPA 8270E	6-27-22	6-27-22	
1,3-Dinitrobenzene	ND	1.0	EPA 8270E	6-27-22	6-27-22	
2,6-Dinitrotoluene	ND	1.0	EPA 8270E	6-27-22	6-27-22	
1,2-Dinitrobenzene	ND	1.0	EPA 8270E	6-27-22	6-27-22	
Acenaphthylene	ND	0.10	EPA 8270E/SIM	6-27-22	6-27-22	
3-Nitroaniline	ND	1.0	EPA 8270E	6-27-22	6-27-22	



Date of Report: July 11, 2022
 Samples Submitted: June 24, 2022
 Laboratory Reference: 2206-258
 Project: 6694-002-00 T700

SEMIVOLATILE ORGANICS EPA 8270E/SIM
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-10-20220623					
Laboratory ID:	06-258-02					
2,4-Dinitrophenol	ND	7.1	EPA 8270E	6-27-22	6-27-22	
Acenaphthene	ND	0.10	EPA 8270E/SIM	6-27-22	6-27-22	
4-Nitrophenol	ND	5.0	EPA 8270E	6-27-22	6-27-22	
2,4-Dinitrotoluene	ND	1.0	EPA 8270E	6-27-22	6-27-22	
Dibenzofuran	ND	1.0	EPA 8270E	6-27-22	6-27-22	
2,3,5,6-Tetrachlorophenol	ND	1.0	EPA 8270E	6-27-22	6-27-22	
2,3,4,6-Tetrachlorophenol	ND	1.0	EPA 8270E	6-27-22	6-27-22	
Diethylphthalate	ND	1.0	EPA 8270E	6-27-22	6-27-22	
4-Chlorophenyl-phenylether	ND	1.0	EPA 8270E	6-27-22	6-27-22	
4-Nitroaniline	ND	1.0	EPA 8270E	6-27-22	6-27-22	
Fluorene	ND	0.10	EPA 8270E/SIM	6-27-22	6-27-22	
4,6-Dinitro-2-methylphenol	ND	7.0	EPA 8270E	6-27-22	6-27-22	
n-Nitrosodiphenylamine	ND	1.0	EPA 8270E	6-27-22	6-27-22	
1,2-Diphenylhydrazine	ND	1.0	EPA 8270E	6-27-22	6-27-22	
4-Bromophenyl-phenylether	ND	1.0	EPA 8270E	6-27-22	6-27-22	
Hexachlorobenzene	ND	1.0	EPA 8270E	6-27-22	6-27-22	
Pentachlorophenol	ND	7.0	EPA 8270E	6-27-22	6-27-22	
Phenanthrene	ND	0.10	EPA 8270E/SIM	6-27-22	6-27-22	
Anthracene	ND	0.10	EPA 8270E/SIM	6-27-22	6-27-22	
Carbazole	ND	1.0	EPA 8270E	6-27-22	6-27-22	
Di-n-butylphthalate	ND	5.0	EPA 8270E	6-27-22	6-27-22	
Fluoranthene	ND	0.10	EPA 8270E/SIM	6-27-22	6-27-22	
Pyrene	ND	0.10	EPA 8270E/SIM	6-27-22	6-27-22	
Butylbenzylphthalate	ND	1.0	EPA 8270E	6-27-22	6-27-22	
bis(2-Ethylhexyl)adipate	ND	5.0	EPA 8270E	6-27-22	6-27-22	
3,3'-Dichlorobenzidine	ND	5.0	EPA 8270E	6-27-22	6-27-22	
Benzo[a]anthracene	ND	0.010	EPA 8270E/SIM	6-27-22	6-27-22	
Chrysene	ND	0.010	EPA 8270E/SIM	6-27-22	6-27-22	
bis(2-Ethylhexyl)phthalate	ND	5.0	EPA 8270E	6-27-22	6-27-22	
Di-n-octylphthalate	ND	1.0	EPA 8270E	6-27-22	6-27-22	
Benzo[b]fluoranthene	ND	0.010	EPA 8270E/SIM	6-27-22	6-27-22	
Benzo(j,k)fluoranthene	0.016	0.010	EPA 8270E/SIM	6-27-22	6-27-22	
Benzo[a]pyrene	ND	0.010	EPA 8270E/SIM	6-27-22	6-27-22	
Indeno[1,2,3-cd]pyrene	ND	0.010	EPA 8270E/SIM	6-27-22	6-27-22	
Dibenz[a,h]anthracene	ND	0.010	EPA 8270E/SIM	6-27-22	6-27-22	
Benzo[g,h,i]perylene	ND	0.010	EPA 8270E/SIM	6-27-22	6-27-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
2-Fluorophenol	35	10 - 81				
Phenol-d6	26	10 - 86				
Nitrobenzene-d5	60	27 - 105				
2-Fluorobiphenyl	63	33 - 100				
2,4,6-Tribromophenol	78	25 - 124				
Terphenyl-d14	63	40 - 116				



Date of Report: July 11, 2022
 Samples Submitted: June 24, 2022
 Laboratory Reference: 2206-258
 Project: 6694-002-00 T700

PCBs EPA 8082A

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-9-20220623					
Laboratory ID:	06-258-01					
Aroclor 1016	ND	0.048	EPA 8082A	6-27-22	6-28-22	
Aroclor 1221	ND	0.048	EPA 8082A	6-27-22	6-28-22	
Aroclor 1232	ND	0.048	EPA 8082A	6-27-22	6-28-22	
Aroclor 1242	ND	0.048	EPA 8082A	6-27-22	6-28-22	
Aroclor 1248	ND	0.048	EPA 8082A	6-27-22	6-28-22	
Aroclor 1254	ND	0.048	EPA 8082A	6-27-22	6-28-22	
Aroclor 1260	ND	0.048	EPA 8082A	6-27-22	6-28-22	
Aroclor 1262	ND	0.048	EPA 8082A	6-27-22	6-28-22	
Aroclor 1268	ND	0.048	EPA 8082A	6-27-22	6-28-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
DCB	72	49-133				
Client ID:	MW-10-20220623					
Laboratory ID:	06-258-02					
Aroclor 1016	ND	0.049	EPA 8082A	6-27-22	6-28-22	
Aroclor 1221	ND	0.049	EPA 8082A	6-27-22	6-28-22	
Aroclor 1232	ND	0.049	EPA 8082A	6-27-22	6-28-22	
Aroclor 1242	ND	0.049	EPA 8082A	6-27-22	6-28-22	
Aroclor 1248	ND	0.049	EPA 8082A	6-27-22	6-28-22	
Aroclor 1254	ND	0.049	EPA 8082A	6-27-22	6-28-22	
Aroclor 1260	ND	0.049	EPA 8082A	6-27-22	6-28-22	
Aroclor 1262	ND	0.049	EPA 8082A	6-27-22	6-28-22	
Aroclor 1268	ND	0.049	EPA 8082A	6-27-22	6-28-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
DCB	70	49-133				



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 Project: 6694-002-00 T700

**ORGANOCHLORINE
 PESTICIDES EPA 8081B**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-9-20220623					
Laboratory ID:	06-258-01					
alpha-BHC	ND	0.0048	EPA 8081B	6-27-22	6-27-22	
gamma-BHC	ND	0.0048	EPA 8081B	6-27-22	6-27-22	
beta-BHC	ND	0.0048	EPA 8081B	6-27-22	6-27-22	
delta-BHC	ND	0.0048	EPA 8081B	6-27-22	6-27-22	
Heptachlor	ND	0.0048	EPA 8081B	6-27-22	6-27-22	
Aldrin	ND	0.0019	EPA 8081B	6-27-22	6-27-22	
Heptachlor epoxide	ND	0.0029	EPA 8081B	6-27-22	6-27-22	
gamma-Chlordane	ND	0.0048	EPA 8081B	6-27-22	6-27-22	
alpha-Chlordane	ND	0.0048	EPA 8081B	6-27-22	6-27-22	
4,4'-DDE	ND	0.0048	EPA 8081B	6-27-22	6-27-22	
Endosulfan I	ND	0.0048	EPA 8081B	6-27-22	6-27-22	
Dieldrin	ND	0.0048	EPA 8081B	6-27-22	6-27-22	
Endrin	ND	0.0048	EPA 8081B	6-27-22	6-27-22	
4,4'-DDD	ND	0.0048	EPA 8081B	6-27-22	6-27-22	
Endosulfan II	ND	0.0048	EPA 8081B	6-27-22	6-27-22	
4,4'-DDT	ND	0.0048	EPA 8081B	6-27-22	6-27-22	
Endrin aldehyde	ND	0.0048	EPA 8081B	6-27-22	6-27-22	
Methoxychlor	ND	0.0095	EPA 8081B	6-27-22	6-27-22	
Endosulfan sulfate	ND	0.0048	EPA 8081B	6-27-22	6-27-22	
Endrin ketone	ND	0.019	EPA 8081B	6-27-22	6-27-22	
Toxaphene	ND	0.048	EPA 8081B	6-27-22	6-27-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control limits</i>				
<i>Tetrachloro-m-xylene</i>	60	21-110				
<i>Decachlorobiphenyl</i>	85	42-113				



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**ORGANOCHLORINE
 PESTICIDES EPA 8081B**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-10-20220623					
Laboratory ID:	06-258-02					
alpha-BHC	ND	0.0049	EPA 8081B	6-27-22	6-27-22	
gamma-BHC	ND	0.0049	EPA 8081B	6-27-22	6-27-22	
beta-BHC	ND	0.0049	EPA 8081B	6-27-22	6-27-22	
delta-BHC	ND	0.0049	EPA 8081B	6-27-22	6-27-22	
Heptachlor	ND	0.0049	EPA 8081B	6-27-22	6-27-22	
Aldrin	ND	0.0019	EPA 8081B	6-27-22	6-27-22	
Heptachlor epoxide	ND	0.0029	EPA 8081B	6-27-22	6-27-22	
gamma-Chlordane	ND	0.0049	EPA 8081B	6-27-22	6-27-22	
alpha-Chlordane	ND	0.0049	EPA 8081B	6-27-22	6-27-22	
4,4'-DDE	ND	0.0049	EPA 8081B	6-27-22	6-27-22	
Endosulfan I	ND	0.0049	EPA 8081B	6-27-22	6-27-22	
Dieldrin	ND	0.0049	EPA 8081B	6-27-22	6-27-22	
Endrin	ND	0.0049	EPA 8081B	6-27-22	6-27-22	
4,4'-DDD	ND	0.0049	EPA 8081B	6-27-22	6-27-22	
Endosulfan II	ND	0.0049	EPA 8081B	6-27-22	6-27-22	
4,4'-DDT	ND	0.0049	EPA 8081B	6-27-22	6-27-22	
Endrin aldehyde	ND	0.0049	EPA 8081B	6-27-22	6-27-22	
Methoxychlor	ND	0.0097	EPA 8081B	6-27-22	6-27-22	
Endosulfan sulfate	ND	0.0049	EPA 8081B	6-27-22	6-27-22	
Endrin ketone	ND	0.019	EPA 8081B	6-27-22	6-27-22	
Toxaphene	ND	0.049	EPA 8081B	6-27-22	6-27-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control limits</i>				
<i>Tetrachloro-m-xylene</i>	61	21-110				
<i>Decachlorobiphenyl</i>	83	42-113				



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TOTAL METALS
EPA 200.8/200.7/7470A

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-9-20220623					
Laboratory ID:	06-258-01					
Arsenic	3.9	3.3	EPA 200.8	7-6-22	7-6-22	
Cadmium	ND	4.4	EPA 200.8	7-6-22	7-6-22	
Chromium	ND	11	EPA 200.8	7-6-22	7-6-22	
Copper	ND	11	EPA 200.8	7-6-22	7-6-22	
Iron	8600	50	EPA 200.7	6-28-22	6-28-22	
Lead	ND	1.1	EPA 200.8	7-6-22	7-6-22	
Magnesium	27000	1000	EPA 200.7	6-28-22	6-28-22	
Manganese	1800	10	EPA 200.7	6-28-22	6-28-22	
Mercury	ND	0.025	EPA 7470A	7-1-22	7-1-22	
Nickel	ND	22	EPA 200.8	7-6-22	7-6-22	
Selenium	ND	5.6	EPA 200.8	7-6-22	7-6-22	

Client ID:	MW-10-20220623					
Laboratory ID:	06-258-02					
Arsenic	ND	3.3	EPA 200.8	7-6-22	7-6-22	
Cadmium	ND	4.4	EPA 200.8	7-6-22	7-6-22	
Chromium	ND	11	EPA 200.8	7-6-22	7-6-22	
Copper	ND	11	EPA 200.8	7-6-22	7-6-22	
Iron	1300	50	EPA 200.7	6-28-22	6-28-22	
Lead	ND	1.1	EPA 200.8	7-6-22	7-6-22	
Magnesium	21000	1000	EPA 200.7	6-28-22	6-28-22	
Manganese	450	10	EPA 200.7	6-28-22	6-28-22	
Mercury	ND	0.025	EPA 7470A	7-1-22	7-1-22	
Nickel	ND	22	EPA 200.8	7-6-22	7-6-22	
Selenium	ND	5.6	EPA 200.8	7-6-22	7-6-22	



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DISSOLVED METALS
EPA 200.8/200.7/7470A

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-9-20220623					
Laboratory ID:	06-258-01					
Arsenic	ND	3.0	EPA 200.8	6-24-22	7-6-22	
Cadmium	ND	4.0	EPA 200.8	6-24-22	7-6-22	
Calcium	110000	10000	EPA 200.7	6-24-22	6-29-22	
Chromium	ND	10	EPA 200.8	6-24-22	7-6-22	
Copper	ND	10	EPA 200.8	6-24-22	7-6-22	
Iron	3100	56	EPA 200.7	6-24-22	6-29-22	
Lead	ND	1.0	EPA 200.8	6-24-22	7-6-22	
Magnesium	26000	1100	EPA 200.7	6-24-22	6-29-22	
Manganese	1700	11	EPA 200.7	6-24-22	6-29-22	
Mercury	ND	0.025	EPA 7470A	6-24-22	7-5-22	
Nickel	ND	20	EPA 200.8	6-24-22	7-6-22	
Potassium	5900	1100	EPA 200.7	6-24-22	6-29-22	
Selenium	ND	5.0	EPA 200.8	6-24-22	7-6-22	
Sodium	14000	1100	EPA 200.7	6-24-22	6-29-22	
Client ID:	MW-10-20220623					
Laboratory ID:	06-258-02					
Arsenic	ND	3.0	EPA 200.8		7-6-22	
Cadmium	ND	4.0	EPA 200.8		7-6-22	
Calcium	78000	10000	EPA 200.7		6-29-22	
Chromium	ND	10	EPA 200.8		7-6-22	
Copper	ND	10	EPA 200.8		7-6-22	
Iron	930	56	EPA 200.7		6-29-22	
Lead	ND	1.0	EPA 200.8		7-6-22	
Magnesium	22000	1100	EPA 200.7		6-29-22	
Manganese	450	11	EPA 200.7		6-29-22	
Mercury	ND	0.025	EPA 7470A		7-5-22	
Nickel	ND	20	EPA 200.8		7-6-22	
Potassium	3300	1100	EPA 200.7		6-29-22	
Selenium	ND	5.0	EPA 200.8		7-6-22	
Sodium	9900	1100	EPA 200.7		6-29-22	



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**TOTAL ALKALINITY
 SM 2320B**

Matrix: Water
 Units: mg CaCO₃/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-9-20220623					
Laboratory ID:	06-258-01					
Total Alkalinity	410	2.0	SM 2320B	7-1-22	7-1-22	

Client ID:	MW-10-20220623					
Laboratory ID:	06-258-02					
Total Alkalinity	250	2.0	SM 2320B	7-1-22	7-1-22	



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**BICARBONATE
 SM 2320B**

Matrix: Water
 Units: mg CaCO₃/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-9-20220623					
Laboratory ID:	06-258-01					
Bicarbonate	410	2.0	SM 2320B	7-1-22	7-1-22	
Client ID:	MW-10-20220623					
Laboratory ID:	06-258-02					
Bicarbonate	250	2.0	SM 2320B	7-1-22	7-1-22	



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**TOTAL DISSOLVED SOLIDS
 SM 2540C**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-9-20220623					
Laboratory ID:	06-258-01					
Total Dissolved Solids	470	13	SM 2540C	6-30-22	7-5-22	

Client ID:	MW-10-20220623					
Laboratory ID:	06-258-02					
Total Dissolved Solids	330	13	SM 2540C	6-30-22	7-5-22	



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CHLORIDE
SM 4500-Cl E

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-9-20220623					
Laboratory ID:	06-258-01					
Chloride	5.7	2.0	SM 4500-Cl E	6-27-22	6-27-22	

Client ID:	MW-10-20220623					
Laboratory ID:	06-258-02					
Chloride	3.7	2.0	SM 4500-Cl E	6-27-22	6-27-22	



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NITRATE (as Nitrogen)
EPA 353.2

Matrix: Water
 Units: mg/L-N

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-9-20220623					
Laboratory ID:	06-258-01					
Nitrate	ND	0.050	EPA 353.2	6-29-22	6-29-22	
Client ID:	MW-10-20220623					
Laboratory ID:	06-258-02					
Nitrate	0.074	0.050	EPA 353.2	6-29-22	6-29-22	



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SULFATE
ASTM D516-11

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-9-20220623					
Laboratory ID:	06-258-01					
Sulfate	20	5.0	ASTM D516-11	6-28-22	6-28-22	
Client ID:	MW-10-20220623					
Laboratory ID:	06-258-02					
Sulfate	35	10	ASTM D516-11	6-28-22	6-28-22	



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AMMONIA (as Nitrogen)
SM 4500-NH₃ D

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-9-20220623					
Laboratory ID:	06-258-01					
Ammonia	1.4	0.050	SM 4500-NH3 D	7-8-22	7-8-22	
Client ID:	MW-10-20220623					
Laboratory ID:	06-258-02					
Ammonia	0.088	0.050	SM 4500-NH3 D	7-8-22	7-8-22	



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**TOTAL ORGANIC CARBON
 SM 5310B**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-9-20220623					
Laboratory ID:	06-258-01					
Total Organic Carbon	10.0	1.0	SM 5310B	6-30-22	6-30-22	
Client ID:	MW-10-20220623					
Laboratory ID:	06-258-02					
Total Organic Carbon	7.4	1.0	SM 5310B	6-30-22	6-30-22	



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**GASOLINE RANGE ORGANICS
 NWTPH-Gx
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0628W1					
Gasoline	ND	100	NWTPH-Gx	6-28-22	6-28-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
Fluorobenzene	88	65-122				

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	06-258-01							
	ORIG	DUP						
Gasoline	ND	ND	NA	NA	NA	NA	30	
<i>Surrogate:</i>								
Fluorobenzene				89	89	65-122		



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**DIESEL AND HEAVY OIL RANGE ORGANICS
 NWTPH-Dx
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0628W1					
Diesel Range Organics	ND	0.10	NWTPH-Dx	6-28-22	6-28-22	
Lube Oil Range Organics	ND	0.16	NWTPH-Dx	6-28-22	6-28-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	75	50-150				

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	06-263-01							
	ORIG	DUP						
Diesel Range	ND	ND	NA	NA	NA	NA	NA	NA
Lube Oil Range Organics	0.296	0.238	NA	NA	NA	NA	22	NA
<i>Surrogate:</i>								
<i>o-Terphenyl</i>				77	74	50-150		



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**VOLATILE ORGANICS EPA 8260D
 QUALITY CONTROL**

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Matrix: Water

Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0627W1					
Dichlorodifluoromethane	ND	0.20	EPA 8260D	6-27-22	6-27-22	
Chloromethane	ND	1.4	EPA 8260D	6-27-22	6-27-22	
Vinyl Chloride	ND	0.20	EPA 8260D	6-27-22	6-27-22	
Bromomethane	ND	2.3	EPA 8260D	6-27-22	6-27-22	
Chloroethane	ND	1.0	EPA 8260D	6-27-22	6-27-22	
Trichlorofluoromethane	ND	0.20	EPA 8260D	6-27-22	6-27-22	
1,1-Dichloroethene	ND	0.20	EPA 8260D	6-27-22	6-27-22	
Acetone	ND	10	EPA 8260D	6-27-22	6-27-22	
Iodomethane	ND	7.7	EPA 8260D	6-27-22	6-27-22	
Carbon Disulfide	ND	0.20	EPA 8260D	6-27-22	6-27-22	
Methylene Chloride	ND	1.0	EPA 8260D	6-27-22	6-27-22	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	6-27-22	6-27-22	
Methyl t-Butyl Ether	ND	0.20	EPA 8260D	6-27-22	6-27-22	
1,1-Dichloroethane	ND	0.20	EPA 8260D	6-27-22	6-27-22	
Vinyl Acetate	ND	1.0	EPA 8260D	6-27-22	6-27-22	
2,2-Dichloropropane	ND	0.20	EPA 8260D	6-27-22	6-27-22	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	6-27-22	6-27-22	
2-Butanone	ND	5.0	EPA 8260D	6-27-22	6-27-22	
Bromochloromethane	ND	0.20	EPA 8260D	6-27-22	6-27-22	
Chloroform	ND	0.20	EPA 8260D	6-27-22	6-27-22	
1,1,1-Trichloroethane	ND	0.20	EPA 8260D	6-27-22	6-27-22	
Carbon Tetrachloride	ND	0.20	EPA 8260D	6-27-22	6-27-22	
1,1-Dichloropropene	ND	0.20	EPA 8260D	6-27-22	6-27-22	
Benzene	ND	0.20	EPA 8260D	6-27-22	6-27-22	
1,2-Dichloroethane	ND	0.20	EPA 8260D	6-27-22	6-27-22	
Trichloroethene	ND	0.20	EPA 8260D	6-27-22	6-27-22	
1,2-Dichloropropane	ND	0.20	EPA 8260D	6-27-22	6-27-22	
Dibromomethane	ND	0.20	EPA 8260D	6-27-22	6-27-22	
Bromodichloromethane	ND	0.20	EPA 8260D	6-27-22	6-27-22	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260D	6-27-22	6-27-22	
Methyl Isobutyl Ketone	ND	2.0	EPA 8260D	6-27-22	6-27-22	
Toluene	ND	1.0	EPA 8260D	6-27-22	6-27-22	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260D	6-27-22	6-27-22	



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**VOLATILE ORGANICS EPA 8260D
 QUALITY CONTROL**

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0627W1					
1,1,2-Trichloroethane	ND	0.20	EPA 8260D	6-27-22	6-27-22	
Tetrachloroethene	ND	0.20	EPA 8260D	6-27-22	6-27-22	
1,3-Dichloropropane	ND	0.20	EPA 8260D	6-27-22	6-27-22	
2-Hexanone	ND	2.0	EPA 8260D	6-27-22	6-27-22	
Dibromochloromethane	ND	0.20	EPA 8260D	6-27-22	6-27-22	
1,2-Dibromoethane	ND	0.20	EPA 8260D	6-27-22	6-27-22	
Chlorobenzene	ND	0.20	EPA 8260D	6-27-22	6-27-22	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260D	6-27-22	6-27-22	
Ethylbenzene	ND	0.20	EPA 8260D	6-27-22	6-27-22	
m,p-Xylene	ND	0.40	EPA 8260D	6-27-22	6-27-22	
o-Xylene	ND	0.20	EPA 8260D	6-27-22	6-27-22	
Styrene	ND	0.20	EPA 8260D	6-27-22	6-27-22	
Bromoform	ND	1.0	EPA 8260D	6-27-22	6-27-22	
Isopropylbenzene	ND	0.20	EPA 8260D	6-27-22	6-27-22	
Bromobenzene	ND	0.20	EPA 8260D	6-27-22	6-27-22	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260D	6-27-22	6-27-22	
1,2,3-Trichloropropane	ND	0.20	EPA 8260D	6-27-22	6-27-22	
n-Propylbenzene	ND	0.20	EPA 8260D	6-27-22	6-27-22	
2-Chlorotoluene	ND	0.20	EPA 8260D	6-27-22	6-27-22	
4-Chlorotoluene	ND	0.20	EPA 8260D	6-27-22	6-27-22	
1,3,5-Trimethylbenzene	ND	0.20	EPA 8260D	6-27-22	6-27-22	
tert-Butylbenzene	ND	0.20	EPA 8260D	6-27-22	6-27-22	
1,2,4-Trimethylbenzene	ND	0.20	EPA 8260D	6-27-22	6-27-22	
sec-Butylbenzene	ND	0.20	EPA 8260D	6-27-22	6-27-22	
1,3-Dichlorobenzene	ND	0.20	EPA 8260D	6-27-22	6-27-22	
p-Isopropyltoluene	ND	0.20	EPA 8260D	6-27-22	6-27-22	
1,4-Dichlorobenzene	ND	0.20	EPA 8260D	6-27-22	6-27-22	
1,2-Dichlorobenzene	ND	0.20	EPA 8260D	6-27-22	6-27-22	
n-Butylbenzene	ND	0.20	EPA 8260D	6-27-22	6-27-22	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260D	6-27-22	6-27-22	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260D	6-27-22	6-27-22	
Hexachlorobutadiene	ND	1.0	EPA 8260D	6-27-22	6-27-22	
Naphthalene	ND	1.0	EPA 8260D	6-27-22	6-27-22	
1,2,3-Trichlorobenzene	ND	1.0	EPA 8260D	6-27-22	6-27-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>100</i>	<i>75-127</i>				
<i>Toluene-d8</i>	<i>98</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>98</i>	<i>78-125</i>				



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**VOLATILE ORGANICS EPA 8260D
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD		Flags
					Recovery	Limits	RPD	Limit		
SPIKE BLANKS										
Laboratory ID:	SB0627W1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	11.7	10.7	10.0	10.0	117	107	78-125	9	19	
Benzene	10.0	9.15	10.0	10.0	100	92	80-121	9	16	
Trichloroethene	10.4	9.93	10.0	10.0	104	99	80-122	5	18	
Toluene	10.1	9.24	10.0	10.0	101	92	80-120	9	18	
Chlorobenzene	11.2	10.5	10.0	10.0	112	105	80-120	6	17	
<i>Surrogate:</i>										
Dibromofluoromethane					100	97	75-127			
Toluene-d8					100	98	80-127			
4-Bromofluorobenzene					100	102	78-125			



Date of Report: July 11, 2022
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 Project: 6694-002-00 T700

**SEMIVOLATILE ORGANICS EPA 8270E/SIM
 QUALITY CONTROL**

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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0627W1					
n-Nitrosodimethylamine	ND	1.0	EPA 8270E	6-27-22	6-27-22	
Pyridine	ND	1.0	EPA 8270E	6-27-22	6-27-22	
Phenol	ND	1.0	EPA 8270E	6-27-22	6-27-22	
Aniline	ND	5.0	EPA 8270E	6-27-22	6-27-22	
bis(2-Chloroethyl)ether	ND	1.0	EPA 8270E	6-27-22	6-27-22	
2-Chlorophenol	ND	1.0	EPA 8270E	6-27-22	6-27-22	
1,3-Dichlorobenzene	ND	1.0	EPA 8270E	6-27-22	6-27-22	
1,4-Dichlorobenzene	ND	1.0	EPA 8270E	6-27-22	6-27-22	
Benzyl alcohol	ND	1.0	EPA 8270E	6-27-22	6-27-22	
1,2-Dichlorobenzene	ND	1.0	EPA 8270E	6-27-22	6-27-22	
2-Methylphenol (o-Cresol)	ND	1.0	EPA 8270E	6-27-22	6-27-22	
bis(2-Chloroisopropyl)ether	ND	1.0	EPA 8270E	6-27-22	6-27-22	
(3+4)-Methylphenol (m,p-Cresol)	ND	1.0	EPA 8270E	6-27-22	6-27-22	
n-Nitroso-di-n-propylamine	ND	1.0	EPA 8270E	6-27-22	6-27-22	
Hexachloroethane	ND	1.0	EPA 8270E	6-27-22	6-27-22	
Nitrobenzene	ND	1.0	EPA 8270E	6-27-22	6-27-22	
Isophorone	ND	1.0	EPA 8270E	6-27-22	6-27-22	
2-Nitrophenol	ND	1.0	EPA 8270E	6-27-22	6-27-22	
2,4-Dimethylphenol	ND	1.0	EPA 8270E	6-27-22	6-27-22	
bis(2-Chloroethoxy)methane	ND	1.0	EPA 8270E	6-27-22	6-27-22	
2,4-Dichlorophenol	ND	1.0	EPA 8270E	6-27-22	6-27-22	
1,2,4-Trichlorobenzene	ND	1.0	EPA 8270E	6-27-22	6-27-22	
Naphthalene	ND	0.10	EPA 8270E/SIM	6-27-22	6-27-22	
4-Chloroaniline	ND	1.0	EPA 8270E	6-27-22	6-27-22	
Hexachlorobutadiene	ND	1.0	EPA 8270E	6-27-22	6-27-22	
4-Chloro-3-methylphenol	ND	1.0	EPA 8270E	6-27-22	6-27-22	
2-Methylnaphthalene	ND	0.10	EPA 8270E/SIM	6-27-22	6-27-22	
1-Methylnaphthalene	ND	0.10	EPA 8270E/SIM	6-27-22	6-27-22	
Hexachlorocyclopentadiene	ND	1.4	EPA 8270E	6-27-22	6-27-22	
2,4,6-Trichlorophenol	ND	1.0	EPA 8270E	6-27-22	6-27-22	
2,3-Dichloroaniline	ND	1.0	EPA 8270E	6-27-22	6-27-22	
2,4,5-Trichlorophenol	ND	1.0	EPA 8270E	6-27-22	6-27-22	
2-Chloronaphthalene	ND	1.0	EPA 8270E	6-27-22	6-27-22	
2-Nitroaniline	ND	1.0	EPA 8270E	6-27-22	6-27-22	
1,4-Dinitrobenzene	ND	1.0	EPA 8270E	6-27-22	6-27-22	
Dimethylphthalate	ND	5.0	EPA 8270E	6-27-22	6-27-22	
1,3-Dinitrobenzene	ND	1.0	EPA 8270E	6-27-22	6-27-22	
2,6-Dinitrotoluene	ND	1.0	EPA 8270E	6-27-22	6-27-22	
1,2-Dinitrobenzene	ND	1.0	EPA 8270E	6-27-22	6-27-22	
Acenaphthylene	ND	0.10	EPA 8270E/SIM	6-27-22	6-27-22	
3-Nitroaniline	ND	1.0	EPA 8270E	6-27-22	6-27-22	



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**SEMIVOLATILE ORGANICS EPA 8270E/SIM
 QUALITY CONTROL**

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0627W1					
2,4-Dinitrophenol	ND	7.1	EPA 8270E	6-27-22	6-27-22	
Acenaphthene	ND	0.10	EPA 8270E/SIM	6-27-22	6-27-22	
4-Nitrophenol	ND	5.0	EPA 8270E	6-27-22	6-27-22	
2,4-Dinitrotoluene	ND	1.0	EPA 8270E	6-27-22	6-27-22	
Dibenzofuran	ND	1.0	EPA 8270E	6-27-22	6-27-22	
2,3,5,6-Tetrachlorophenol	ND	1.0	EPA 8270E	6-27-22	6-27-22	
2,3,4,6-Tetrachlorophenol	ND	1.0	EPA 8270E	6-27-22	6-27-22	
Diethylphthalate	ND	1.0	EPA 8270E	6-27-22	6-27-22	
4-Chlorophenyl-phenylether	ND	1.0	EPA 8270E	6-27-22	6-27-22	
4-Nitroaniline	ND	1.0	EPA 8270E	6-27-22	6-27-22	
Fluorene	ND	0.10	EPA 8270E/SIM	6-27-22	6-27-22	
4,6-Dinitro-2-methylphenol	ND	7.0	EPA 8270E	6-27-22	6-27-22	
n-Nitrosodiphenylamine	ND	1.0	EPA 8270E	6-27-22	6-27-22	
1,2-Diphenylhydrazine	ND	1.0	EPA 8270E	6-27-22	6-27-22	
4-Bromophenyl-phenylether	ND	1.0	EPA 8270E	6-27-22	6-27-22	
Hexachlorobenzene	ND	1.0	EPA 8270E	6-27-22	6-27-22	
Pentachlorophenol	ND	7.0	EPA 8270E	6-27-22	6-27-22	
Phenanthrene	ND	0.10	EPA 8270E/SIM	6-27-22	6-27-22	
Anthracene	ND	0.10	EPA 8270E/SIM	6-27-22	6-27-22	
Carbazole	ND	1.0	EPA 8270E	6-27-22	6-27-22	
Di-n-butylphthalate	ND	5.0	EPA 8270E	6-27-22	6-27-22	
Fluoranthene	ND	0.10	EPA 8270E/SIM	6-27-22	6-27-22	
Pyrene	ND	0.10	EPA 8270E/SIM	6-27-22	6-27-22	
Butylbenzylphthalate	ND	1.0	EPA 8270E	6-27-22	6-27-22	
bis-2-Ethylhexyladipate	ND	5.0	EPA 8270E	6-27-22	6-27-22	
3,3'-Dichlorobenzidine	ND	5.0	EPA 8270E	6-27-22	6-27-22	
Benzo[a]anthracene	ND	0.010	EPA 8270E/SIM	6-27-22	6-27-22	
Chrysene	ND	0.010	EPA 8270E/SIM	6-27-22	6-27-22	
bis(2-Ethylhexyl)phthalate	ND	5.0	EPA 8270E	6-27-22	6-27-22	
Di-n-octylphthalate	ND	1.0	EPA 8270E	6-27-22	6-27-22	
Benzo[b]fluoranthene	ND	0.010	EPA 8270E/SIM	6-27-22	6-27-22	
Benzo(j,k)fluoranthene	ND	0.010	EPA 8270E/SIM	6-27-22	6-27-22	
Benzo[a]pyrene	ND	0.010	EPA 8270E/SIM	6-27-22	6-27-22	
Indeno[1,2,3-cd]pyrene	ND	0.010	EPA 8270E/SIM	6-27-22	6-27-22	
Dibenz[a,h]anthracene	ND	0.010	EPA 8270E/SIM	6-27-22	6-27-22	
Benzo[g,h,i]perylene	ND	0.010	EPA 8270E/SIM	6-27-22	6-27-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
2-Fluorophenol	40	10 - 81				
Phenol-d6	31	10 - 86				
Nitrobenzene-d5	59	27 - 105				
2-Fluorobiphenyl	60	33 - 100				
2,4,6-Tribromophenol	85	25 - 124				
Terphenyl-d14	66	40 - 116				



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**SEMIVOLATILE ORGANICS EPA 8270E/SIM
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB0627W1									
	SB	SBD	SB	SBD	SB	SBD				
Phenol	14.7	16.3	40.0	40.0	37	41	16 - 53	10	33	
2-Chlorophenol	25.5	28.4	40.0	40.0	64	71	42 - 90	11	34	
1,4-Dichlorobenzene	11.3	12.5	20.0	20.0	57	63	32 - 83	10	34	
n-Nitroso-di-n-propylamine	13.5	15.6	20.0	20.0	68	78	41 - 99	14	32	
1,2,4-Trichlorobenzene	12.2	13.8	20.0	20.0	61	69	35 - 91	12	35	
4-Chloro-3-methylphenol	29.9	32.0	40.0	40.0	75	80	55 - 98	7	22	
Acenaphthene	13.2	15.0	20.0	20.0	66	75	40 - 96	13	23	
4-Nitrophenol	21.5	22.8	40.0	40.0	54	57	20 - 77	6	28	
2,4-Dinitrotoluene	14.0	15.6	20.0	20.0	70	78	50 - 102	11	22	
Pentachlorophenol	36.2	39.0	40.0	40.0	91	98	46 - 129	7	26	
Pyrene	14.3	15.5	20.0	20.0	72	78	52 - 105	8	20	
<i>Surrogate:</i>										
2-Fluorophenol					39	43	10 - 81			
Phenol-d6					29	34	10 - 86			
Nitrobenzene-d5					53	62	27 - 105			
2-Fluorobiphenyl					55	63	33 - 100			
2,4,6-Tribromophenol					80	82	25 - 124			
Terphenyl-d14					61	65	40 - 116			



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**PCBs EPA 8082A
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0627W1					
Aroclor 1016	ND	0.050	EPA 8082A	6-27-22	6-27-22	
Aroclor 1221	ND	0.050	EPA 8082A	6-27-22	6-27-22	
Aroclor 1232	ND	0.050	EPA 8082A	6-27-22	6-27-22	
Aroclor 1242	ND	0.050	EPA 8082A	6-27-22	6-27-22	
Aroclor 1248	ND	0.050	EPA 8082A	6-27-22	6-27-22	
Aroclor 1254	ND	0.050	EPA 8082A	6-27-22	6-27-22	
Aroclor 1260	ND	0.050	EPA 8082A	6-27-22	6-27-22	
Aroclor 1262	ND	0.050	EPA 8082A	6-27-22	6-27-22	
Aroclor 1268	ND	0.050	EPA 8082A	6-27-22	6-27-22	
Surrogate:	Percent Recovery	Control Limits				
DCB	110	49-133				

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS								
Laboratory ID:	SB0627W2							
	SB	SBD	SB	SBD	SB	SBD		
Aroclor 1260	0.449	0.433	0.500	0.500	N/A	90	87	67-120 4 15
Surrogate:								
DCB					98	100	49-133	



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**ORGANOCHLORINE
 PESTICIDES EPA 8081B
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0627W1					
alpha-BHC	ND	0.0050	EPA 8081B	6-27-22	6-27-22	
gamma-BHC	ND	0.0050	EPA 8081B	6-27-22	6-27-22	
beta-BHC	ND	0.0050	EPA 8081B	6-27-22	6-27-22	
delta-BHC	ND	0.0050	EPA 8081B	6-27-22	6-27-22	
Heptachlor	ND	0.0050	EPA 8081B	6-27-22	6-27-22	
Aldrin	ND	0.0020	EPA 8081B	6-27-22	6-27-22	
Heptachlor epoxide	ND	0.0030	EPA 8081B	6-27-22	6-27-22	
gamma-Chlordane	ND	0.0050	EPA 8081B	6-27-22	6-27-22	
alpha-Chlordane	ND	0.0050	EPA 8081B	6-27-22	6-27-22	
4,4'-DDE	ND	0.0050	EPA 8081B	6-27-22	6-27-22	
Endosulfan I	ND	0.0050	EPA 8081B	6-27-22	6-27-22	
Dieldrin	ND	0.0050	EPA 8081B	6-27-22	6-27-22	
Endrin	ND	0.0050	EPA 8081B	6-27-22	6-27-22	
4,4'-DDD	ND	0.0050	EPA 8081B	6-27-22	6-27-22	
Endosulfan II	ND	0.0050	EPA 8081B	6-27-22	6-27-22	
4,4'-DDT	ND	0.0050	EPA 8081B	6-27-22	6-27-22	
Endrin aldehyde	ND	0.0050	EPA 8081B	6-27-22	6-27-22	
Methoxychlor	ND	0.010	EPA 8081B	6-27-22	6-27-22	
Endosulfan sulfate	ND	0.0050	EPA 8081B	6-27-22	6-27-22	
Endrin ketone	ND	0.020	EPA 8081B	6-27-22	6-27-22	
Toxaphene	ND	0.050	EPA 8081B	6-27-22	6-27-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control limits</i>				
<i>Tetrachloro-m-xylene</i>	<i>77</i>	<i>21-110</i>				
<i>Decachlorobiphenyl</i>	<i>100</i>	<i>42-113</i>				



Date of Report: July 11, 2022
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**ORGANOCHLORINE
 PESTICIDES EPA 8081B
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS											
Laboratory ID:	SB0627W1										
	SB	SBD	SB	SBD		SB	SBD				
alpha-BHC	0.0939	0.0886	0.100	0.100	N/A	94	89	50-113	6	19	
gamma-BHC	0.0966	0.0962	0.100	0.100	N/A	97	96	50-114	0	15	
beta-BHC	0.0909	0.0905	0.100	0.100	N/A	91	91	45-110	0	15	
delta-BHC	0.0955	0.0934	0.100	0.100	N/A	96	93	40-113	2	15	
Heptachlor	0.0739	0.0999	0.100	0.100	N/A	74	100	41-107	30	16	L
Aldrin	0.0593	0.0856	0.100	0.100	N/A	59	86	39-105	36	15	L
Heptachlor epoxide	0.0952	0.0948	0.100	0.100	N/A	95	95	53-106	0	15	
gamma-Chlordane	0.0847	0.0882	0.100	0.100	N/A	85	88	46-110	4	15	
alpha-Chlordane	0.0858	0.0898	0.100	0.100	N/A	86	90	46-110	5	15	
4,4'-DDE	0.0848	0.0900	0.100	0.100	N/A	85	90	39-129	6	15	
Endosulfan I	0.0964	0.0966	0.100	0.100	N/A	96	97	51-109	0	15	
Dieldrin	0.103	0.102	0.100	0.100	N/A	103	102	55-112	1	15	
Endrin	0.115	0.113	0.100	0.100	N/A	115	113	54-119	2	16	
4,4'-DDD	0.100	0.0949	0.100	0.100	N/A	100	95	52-142	5	15	
Endosulfan II	0.0924	0.0853	0.100	0.100	N/A	92	85	49-115	8	15	
4,4'-DDT	0.115	0.109	0.100	0.100	N/A	115	109	52-136	5	15	
Endrin aldehyde	0.0935	0.0895	0.100	0.100	N/A	94	90	39-128	4	15	
Methoxychlor	0.105	0.0994	0.100	0.100	N/A	105	99	56-156	5	19	
Endosulfan sulfate	0.100	0.0998	0.100	0.100	N/A	100	100	44-120	0	15	
Endrin ketone	0.104	0.102	0.100	0.100	N/A	104	102	45-122	2	15	
<i>Surrogate:</i>											
<i>Tetrachloro-m-xylene</i>						51	78	21-110			
<i>Decachlorobiphenyl</i>						91	94	42-113			



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TOTAL METALS
EPA 200.8/200.7/7470A
QUALITY CONTROL

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0628WH1					
Iron	ND	50	EPA 200.7	6-28-22	6-28-22	
Magnesium	ND	1000	EPA 200.7	6-28-22	6-28-22	
Manganese	ND	10	EPA 200.7	6-28-22	6-28-22	
Laboratory ID:	MB0706WM1					
Arsenic	ND	3.3	EPA 200.8	7-6-22	7-6-22	
Cadmium	ND	4.4	EPA 200.8	7-6-22	7-6-22	
Chromium	ND	11	EPA 200.8	7-6-22	7-6-22	
Copper	ND	11	EPA 200.8	7-6-22	7-6-22	
Lead	ND	1.1	EPA 200.8	7-6-22	7-6-22	
Nickel	ND	22	EPA 200.8	7-6-22	7-6-22	
Selenium	ND	5.6	EPA 200.8	7-6-22	7-6-22	
Laboratory ID:	MB0701W1					
Mercury	ND	0.025	EPA 7470A	7-1-22	7-1-22	



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TOTAL METALS
EPA 200.8/200.7/7470A
QUALITY CONTROL

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result		Spike Level		Source	Percent	Recovery	RPD		Flags
					Result	Recovery	Limits	RPD	Limit	
DUPLICATE										
Laboratory ID:	06-153-02									
	ORIG	DUP								
Iron	162	166	NA	NA		NA	NA	2	20	
Magnesium	7020	7070	NA	NA		NA	NA	1	20	
Manganese	30.9	23.9	NA	NA		NA	NA	26	20	C
Laboratory ID:	06-223-03									
Arsenic	4.58	4.47	NA	NA		NA	NA	2	20	
Cadmium	ND	ND	NA	NA		NA	NA	NA	20	
Chromium	ND	ND	NA	NA		NA	NA	NA	20	
Copper	ND	ND	NA	NA		NA	NA	NA	20	
Lead	ND	ND	NA	NA		NA	NA	NA	20	
Nickel	ND	ND	NA	NA		NA	NA	NA	20	
Selenium	ND	ND	NA	NA		NA	NA	NA	20	
Laboratory ID:	06-263-01									
Mercury	ND	ND	NA	NA		NA	NA	NA	20	
MATRIX SPIKES										
Laboratory ID:	06-153-02									
	MS	MSD	MS	MSD		MS	MSD			
Iron	20800	21000	20000	20000	162	103	104	75-125	1	20
Magnesium	27500	27800	20000	20000	7020	102	104	75-125	1	20
Manganese	526	520	500	500	309	43	42	75-125	1	20
Laboratory ID:	06-223-03									
Arsenic	124	122	111	111	4.58	107	105	75-125	2	20
Cadmium	117	115	111	111	ND	106	104	75-125	2	20
Chromium	120	120	111	111	ND	108	108	75-125	0	20
Copper	116	116	111	111	ND	105	104	75-125	1	20
Lead	113	112	111	111	ND	102	101	75-125	1	20
Nickel	125	125	111	111	15.0	99	99	75-125	0	20
Selenium	110	108	111	111	ND	99	98	75-125	2	20
Laboratory ID:	06-263-01									
Mercury	6.30	6.25	6.25	6.25	ND	101	100	75-125	1	20



Date of Report: July 11, 2022
 Samples Submitted: June 24, 2022
 Laboratory Reference: 2206-258
 Project: 6694-002-00 T700

**DISSOLVED METALS
 EPA 200.8/200.7/7470A
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0624F1					
Calcium	ND	1100	EPA 200.7	6-24-22	6-29-22	
Iron	ND	56	EPA 200.7	6-24-22	6-29-22	
Magnesium	ND	1100	EPA 200.7	6-24-22	6-29-22	
Manganese	ND	11	EPA 200.7	6-24-22	6-29-22	
Potassium	ND	1100	EPA 200.7	6-24-22	6-29-22	
Sodium	ND	1100	EPA 200.7	6-24-22	6-29-22	
METHOD BLANK						
Laboratory ID:	MB0624F1					
Arsenic	ND	3.0	EPA 200.8	6-24-22	7-6-22	
Cadmium	ND	4.0	EPA 200.8	6-24-22	7-6-22	
Chromium	ND	10	EPA 200.8	6-24-22	7-6-22	
Copper	ND	10	EPA 200.8	6-24-22	7-6-22	
Lead	ND	1.0	EPA 200.8	6-24-22	7-6-22	
Nickel	ND	20	EPA 200.8	6-24-22	7-6-22	
Selenium	ND	5.0	EPA 200.8	6-24-22	7-6-22	
METHOD BLANK						
Laboratory ID:	MB0624F1					
Mercury	ND	0.025	EPA 7470A	6-24-22	7-5-22	



Date of Report: July 11, 2022
 Samples Submitted: June 24, 2022
 Laboratory Reference: 2206-258
 Project: 6694-002-00 T700

DISSOLVED METALS
EPA 200.8/200.7/7470A
QUALITY CONTROL

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result		Spike Level		Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE										
Laboratory ID:	06-268-01									
	ORIG	DUP								
Calcium	28500	28400	NA	NA		NA	NA	0	20	
Iron	ND	ND	NA	NA		NA	NA	NA	20	
Magnesium	14300	14300	NA	NA		NA	NA	0	20	
Manganese	256	256	NA	NA		NA	NA	0	20	
Potassium	2300	2360	NA	NA		NA	NA	3	20	
Sodium	7750	7770	NA	NA		NA	NA	0	20	
Laboratory ID:	06-223-02									
Arsenic	ND	ND	NA	NA		NA	NA	NA	20	
Cadmium	ND	ND	NA	NA		NA	NA	NA	20	
Chromium	ND	ND	NA	NA		NA	NA	NA	20	
Copper	ND	ND	NA	NA		NA	NA	NA	20	
Lead	ND	ND	NA	NA		NA	NA	NA	20	
Nickel	ND	ND	NA	NA		NA	NA	NA	20	
Selenium	ND	ND	NA	NA		NA	NA	NA	20	
Laboratory ID:	06-263-01									
Mercury	ND	ND	NA	NA		NA	NA	NA	20	
MATRIX SPIKES										
Laboratory ID:	06-268-01									
	MS	MSD	MS	MSD		MS	MSD			
Calcium	49300	50300	22200	22200	28500	94	98	75-125	2	20
Iron	22800	22800	22200	22200	ND	103	103	75-125	0	20
Magnesium	34900	34900	22200	22200	14300	93	93	75-125	0	20
Manganese	780	781	556	556	256	94	94	75-125	0	20
Potassium	25200	25400	22200	22200	2300	103	104	75-125	1	20
Sodium	31100	31200	22200	22200	7750	105	106	75-125	0	20
Laboratory ID:	06-223-02									
Arsenic	85.0	85.0	80.0	80.0	ND	106	106	75-125	0	20
Cadmium	84.6	83.0	80.0	80.0	ND	106	104	75-125	2	20
Chromium	82.8	81.8	80.0	80.0	ND	104	102	75-125	1	20
Copper	81.0	78.8	80.0	80.0	ND	101	99	75-125	3	20
Lead	80.8	80.8	80.0	80.0	ND	101	101	75-125	0	20
Nickel	83.4	82.6	80.0	80.0	ND	104	103	75-125	1	20
Selenium	77.2	76.2	80.0	80.0	ND	97	95	75-125	1	20
Laboratory ID:	06-263-01									
Mercury	6.08	6.08	6.25	6.25	ND	97	97	75-125	0	20



Date of Report: July 11, 2022
 Samples Submitted: June 24, 2022
 Laboratory Reference: 2206-258
 Project: 6694-002-00 T700

**TOTAL ALKALINITY
 SM 2320B
 QUALITY CONTROL**

Matrix: Water
 Units: mg CaCO₃/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0701W1					
Total Alkalinity	ND	2.0	SM 2320B	7-1-22	7-1-22	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	06-306-06							
	ORIG	DUP						
Total Alkalinity	82.0	82.0	NA	NA	NA	0	10	

SPIKE BLANK								
Laboratory ID:	SB0701W1							
	SB	SB		SB				
Total Alkalinity	94.0	100	NA	94	89-110	NA	NA	



Date of Report: July 11, 2022
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**BICARBONATE
 SM 2320B
 QUALITY CONTROL**

Matrix: Water
 Units: mg CaCO₃/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0701W1					
Bicarbonate	ND	2.0	SM 2320B	7-1-22	7-1-22	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	06-306-06							
	ORIG	DUP						
Bicarbonate	82.0	82.0	NA	NA	NA	0	10	

SPIKE BLANK								
Laboratory ID:	SB0701W1							
	SB	SB		SB				
Bicarbonate	94.0	100	NA	94	89-110	NA	NA	



Date of Report: July 11, 2022
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**TOTAL DISSOLVED SOLIDS
 SM 2540C
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0630W1					
Total Dissolved Solids	ND	13	SM 2540C	6-30-22	7-5-22	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	06-258-01							
	ORIG	DUP						
Total Dissolved Solids	473	467	NA	NA	NA	1	23	

SPIKE BLANK								
Laboratory ID:	SB0630W1							
	SB	SB		SB				
Total Dissolved Solids	455	500	NA	91	89-110	NA	NA	



Date of Report: July 11, 2022
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 Laboratory Reference: 2206-258
 Project: 6694-002-00 T700

**CHLORIDE
 SM 4500-Cl E
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0627W2					
Chloride	ND	2.0	SM 4500-Cl E	6-27-22	6-27-22	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	06-162-01							
	ORIG	DUP						
Chloride	26.8	27.2	NA	NA	NA	1	11	

MATRIX SPIKE								
Laboratory ID:	06-162-01							
	MS	MS		MS				
Chloride	80.6	50.0	26.8	108	90-121	NA	NA	

SPIKE BLANK								
Laboratory ID:	SB0627W2							
	SB	SB		SB				
Chloride	56.9	50.0	NA	114	90-119	NA	NA	



Date of Report: July 11, 2022
 Samples Submitted: June 24, 2022
 Laboratory Reference: 2206-258
 Project: 6694-002-00 T700

**NITRATE (as Nitrogen)
 EPA 353.2
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L-N

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0629W1					
Nitrate	ND	0.050	EPA 353.2	6-29-22	6-29-22	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	06-292-03							
	ORIG	DUP						
Nitrate	0.136	0.102	NA	NA	NA	29	10	C

MATRIX SPIKE								
Laboratory ID:	06-292-03							
	MS	MS		MS				
Nitrate	2.11	2.00	0.136	99	88-125	NA	NA	

SPIKE BLANK								
Laboratory ID:	SB0629W1							
	SB	SB		SB		0.3333		
Nitrate	2.23	2.00	NA	112	90-120	NA	NA	



Date of Report: July 11, 2022
 Samples Submitted: June 24, 2022
 Laboratory Reference: 2206-258
 Project: 6694-002-00 T700

**SULFATE
 ASTM D516-11
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0628W1					
Sulfate	ND	5.0	ASTM D516-11	6-28-22	6-28-22	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	06-268-01							
	ORIG	DUP						
Sulfate	14.4	14.6	NA	NA	NA	1	10	

MATRIX SPIKE								
Laboratory ID:	06-268-01							
	MS	MS		MS				
Sulfate	22.3	10.0	14.4	79	72-128	NA	NA	

SPIKE BLANK								
Laboratory ID:	SB0628W1							
	SB	SB		SB				
Sulfate	10.4	10.0	NA	104	85-114	NA	NA	



Date of Report: July 11, 2022
 Samples Submitted: June 24, 2022
 Laboratory Reference: 2206-258
 Project: 6694-002-00 T700

AMMONIA (as Nitrogen)
SM 4500-NH₃ D
QUALITY CONTROL

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0708W1					
Ammonia	ND	0.050	SM 4500-NH3 D	7-8-22	7-8-22	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	06-292-03							
	ORIG	DUP						
Ammonia	2.83	2.86	NA	NA	NA	1	15	

MATRIX SPIKE								
Laboratory ID:	06-292-03							
	MS	MS		MS				
Ammonia	23.3	20.0	2.83	102	87-110	NA	NA	

SPIKE BLANK								
Laboratory ID:	SB0708W1							
	SB	SB		SB				
Ammonia	4.44	5.00	NA	89	88-110	NA	NA	



Date of Report: July 11, 2022
 Samples Submitted: June 24, 2022
 Laboratory Reference: 2206-258
 Project: 6694-002-00 T700

**TOTAL ORGANIC CARBON
 SM 5310B
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0630W1					
Total Organic Carbon	ND	1.0	SM 5310B	6-30-22	6-30-22	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	06-292-03							
	ORIG	DUP						
Total Organic Carbon	23.8	23.8	NA	NA	NA	0	12	

MATRIX SPIKE								
Laboratory ID:	06-292-03							
	MS	MS		MS				
Total Organic Carbon	33.4	10.0	23.8	96	80-120	NA	NA	

SPIKE BLANK								
Laboratory ID:	SB0630W1							
	SB	SB		SB				
Total Organic Carbon	10.1	10.0	NA	101	80-118	NA	NA	





Data Qualifiers and Abbreviations

- A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.
- B - The analyte indicated was also found in the blank sample.
- C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.
- E - The value reported exceeds the quantitation range and is an estimate.
- F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.
- H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.
- I - Compound recovery is outside of the control limits.
- J - The value reported was below the practical quantitation limit. The value is an estimate.
- K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.
- L - The RPD is outside of the control limits.
- M - Hydrocarbons in the gasoline range are impacting the diesel range result.
- M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.
- N - Hydrocarbons in the lube oil range are impacting the diesel range result.
- N1 - Hydrocarbons in diesel range are impacting lube oil range results.
- O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.
- P - The RPD of the detected concentrations between the two columns is greater than 40.
- Q - Surrogate recovery is outside of the control limits.
- S - Surrogate recovery data is not available due to the necessary dilution of the sample.
- T - The sample chromatogram is not similar to a typical _____.
- U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
- U1 - The practical quantitation limit is elevated due to interferences present in the sample.
- V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.
- W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.
- X - Sample extract treated with a mercury cleanup procedure.
- X1 - Sample extract treated with a sulfuric acid/silica gel cleanup procedure.
- Y - The calibration verification for this analyte exceeded the 20% drift specified in methods 8260 & 8270, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.

Z -

ND - Not Detected at PQL
 PQL - Practical Quantitation Limit
 RPD - Relative Percent Difference





OnSite Environmental Inc

David Baumeister
14648 NE 95th Street
Redmond, WA 98052

RE: 06-258

Work Order Number: 2206450

July 08, 2022

Attention David Baumeister:

Fremont Analytical, Inc. received 2 sample(s) on 6/27/2022 for the analyses presented in the following report.

Herbicides by EPA Method 8151A (GC/MS)

This report consists of the following:

- Case Narrative
- Analytical Results
- Applicable Quality Control Summary Reports
- Chain of Custody

All analyses were performed consistent with the Quality Assurance program of Fremont Analytical, Inc. Please contact the laboratory if you should have any questions about the results.

Thank you for using Fremont Analytical.

Sincerely,

Brianna Barnes
Project Manager

CLIENT: OnSite Environmental Inc
Project: 06-258
Work Order: 2206450

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received
2206450-001	MW-9-20220623	06/23/2022 11:30 AM	06/27/2022 1:24 PM
2206450-002	MW-10-20220623	06/23/2022 1:00 PM	06/27/2022 1:24 PM

DRAFT

Note: If no "Time Collected" is supplied, a default of 12:00AM is assigned

CLIENT: OnSite Environmental Inc
Project: 06-258

I. SAMPLE RECEIPT:

Samples receipt information is recorded on the attached Sample Receipt Checklist.

II. GENERAL REPORTING COMMENTS:

Results are reported on a wet weight basis unless dry-weight correction is denoted in the units field on the analytical report ("mg/kg-dry" or "ug/kg-dry").

Matrix Spike (MS) and MS Duplicate (MSD) samples are tested from an analytical batch of "like" matrix to check for possible matrix effect. The MS and MSD will provide site specific matrix data only for those samples which are spiked by the laboratory. The sample chosen for spike purposes may or may not have been a sample submitted in this sample delivery group. The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The LCS and the MB are processed with the samples and the MS/MSD to ensure method criteria are achieved throughout the entire analytical process.

III. ANALYSES AND EXCEPTIONS:

Exceptions associated with this report will be footnoted in the analytical results page(s) or the quality control summary page(s) and/or noted below.

DRAFT

Qualifiers:

- * - Flagged value is not within established control limits
- B - Analyte detected in the associated Method Blank
- D - Dilution was required
- E - Value above quantitation range
- H - Holding times for preparation or analysis exceeded
- I - Analyte with an internal standard that does not meet established acceptance criteria
- J - Analyte detected below Reporting Limit
- N - Tentatively Identified Compound (TIC)
- Q - Analyte with an initial or continuing calibration that does not meet established acceptance criteria
- S - Spike recovery outside accepted recovery limits
- ND - Not detected at the Reporting Limit
- R - High relative percent difference observed

Acronyms:

- %Rec - Percent Recovery
- CCB - Continued Calibration Blank
- CCV - Continued Calibration Verification
- DF - Dilution Factor
- DUP - Sample Duplicate
- HEM - Hexane Extractable Material
- ICV - Initial Calibration Verification
- LCS/LCSD - Laboratory Control Sample / Laboratory Control Sample Duplicate
- MCL - Maximum Contaminant Level
- MB or MBLANK - Method Blank
- MDL - Method Detection Limit
- MS/MSD - Matrix Spike / Matrix Spike Duplicate
- PDS - Post Digestion Spike
- Ref Val - Reference Value
- REP - Sample Replicate
- RL - Reporting Limit
- RPD - Relative Percent Difference
- SD - Serial Dilution
- SGT - Silica Gel Treatment
- SPK - Spike
- Surr - Surrogate



Client: OnSite Environmental Inc
Project: 06-258
Lab ID: 2206450-001
Client Sample ID: MW-9-20220623

Collection Date: 6/23/2022 11:30:00 AM
Matrix: Water

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Herbicides by EPA Method 8151A (GC/MS)

Batch ID: 36990 Analyst: OK

Dicamba	ND	1.00		µg/L	1	7/6/2022 8:52:11 PM
2,4-D	ND	1.00		µg/L	1	7/6/2022 8:52:11 PM
2,4-DP	ND	1.00		µg/L	1	7/6/2022 8:52:11 PM
2,4,5-TP (Silvex)	ND	1.00		µg/L	1	7/6/2022 8:52:11 PM
2,4,5-T	ND	1.00		µg/L	1	7/6/2022 8:52:11 PM
Dinoseb	ND	1.00		µg/L	1	7/6/2022 8:52:11 PM
Dalapon	ND	2.00		µg/L	1	7/6/2022 8:52:11 PM
2,4-DB	ND	1.00		µg/L	1	7/6/2022 8:52:11 PM
MCPP	ND	5.01		µg/L	1	7/6/2022 8:52:11 PM
MCPA	ND	5.01		µg/L	1	7/6/2022 8:52:11 PM
Picloram	ND	1.00		µg/L	1	7/6/2022 8:52:11 PM
Bentazon	ND	1.00		µg/L	1	7/6/2022 8:52:11 PM
Chloramben	ND	1.00		µg/L	1	7/6/2022 8:52:11 PM
Acifluorfen	ND	5.01		µg/L	1	7/6/2022 8:52:11 PM
3,5-Dichlorobenzoic acid	ND	1.00		µg/L	1	7/6/2022 8:52:11 PM
4-Nitrophenol	ND	1.00		µg/L	1	7/6/2022 8:52:11 PM
Dacthal (DCPA)	ND	2.00		µg/L	1	7/6/2022 8:52:11 PM
Surr: 2,4-Dichlorophenylacetic acid	118	65.7 - 136		%Rec	1	7/6/2022 8:52:11 PM



Client: OnSite Environmental Inc

Collection Date: 6/23/2022 1:00:00 PM

Project: 06-258

Lab ID: 2206450-002

Matrix: Water

Client Sample ID: MW-10-20220623

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Herbicides by EPA Method 8151A (GC/MS)

Batch ID: 36990

Analyst: OK

Dicamba	ND	0.998		µg/L	1	7/6/2022 9:33:54 PM
2,4-D	ND	0.998		µg/L	1	7/6/2022 9:33:54 PM
2,4-DP	ND	0.998		µg/L	1	7/6/2022 9:33:54 PM
2,4,5-TP (Silvex)	ND	0.998		µg/L	1	7/6/2022 9:33:54 PM
2,4,5-T	ND	0.998		µg/L	1	7/6/2022 9:33:54 PM
Dinoseb	ND	0.998		µg/L	1	7/6/2022 9:33:54 PM
Dalapon	ND	2.00		µg/L	1	7/6/2022 9:33:54 PM
2,4-DB	ND	0.998		µg/L	1	7/6/2022 9:33:54 PM
MCPP	ND	4.99		µg/L	1	7/6/2022 9:33:54 PM
MCPA	ND	4.99		µg/L	1	7/6/2022 9:33:54 PM
Picloram	ND	0.998		µg/L	1	7/6/2022 9:33:54 PM
Bentazon	ND	0.998		µg/L	1	7/6/2022 9:33:54 PM
Chloramben	ND	0.998		µg/L	1	7/6/2022 9:33:54 PM
Acifluorfen	ND	4.99		µg/L	1	7/6/2022 9:33:54 PM
3,5-Dichlorobenzoic acid	ND	0.998		µg/L	1	7/6/2022 9:33:54 PM
4-Nitrophenol	ND	0.998		µg/L	1	7/6/2022 9:33:54 PM
Dacthal (DCPA)	ND	2.00		µg/L	1	7/6/2022 9:33:54 PM
Surr: 2,4-Dichlorophenylacetic acid	114	65.7 - 136		%Rec	1	7/6/2022 9:33:54 PM

Work Order: 2206450
 CLIENT: OnSite Environmental Inc
 Project: 06-258

QC SUMMARY REPORT
Herbicides by EPA Method 8151A (GC/MS)

Sample ID: MB-36990	SampType: MBLK	Units: µg/L	Prep Date: 6/30/2022	RunNo: 76651							
Client ID: MBLKW	Batch ID: 36990		Analysis Date: 7/6/2022	SeqNo: 1573111							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Dicamba	ND	0.997									
2,4-D	ND	0.997									
2,4-DP	ND	0.997									
2,4,5-TP (Silvex)	ND	0.997									
2,4,5-T	ND	0.997									
Dinoseb	ND	0.997									
Dalapon	ND	1.99									
2,4-DB	ND	0.997									
MCPP	ND	4.98									
MCPA	ND	4.98									
Picloram	ND	0.997									
Bentazon	ND	0.997									
Chloramben	ND	0.997									
Acifluorfen	ND	4.98									
3,5-Dichlorobenzoic acid	ND	0.997									
4-Nitrophenol	ND	0.997									
Dacthal (DCPA)	ND	1.99									
Surr: 2,4-Dichlorophenylacetic acid	19.2		19.94		96.5	65.7	136				

Sample ID: LCS-36990	SampType: LCS	Units: µg/L	Prep Date: 6/30/2022	RunNo: 76651							
Client ID: LCSW	Batch ID: 36990		Analysis Date: 7/6/2022	SeqNo: 1573112							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Dicamba	5.03	0.996	3.984	0	126	16.6	148				
2,4-D	5.99	0.996	3.984	0	150	50.4	150				S
2,4-DP	5.66	0.996	3.984	0	142	53	135				S
2,4,5-TP (Silvex)	5.80	0.996	3.984	0	146	53.6	140				S
2,4,5-T	5.98	0.996	3.984	0	150	50	141				S
Dinoseb	4.60	0.996	3.984	0	115	5	119				
Dalapon	16.0	1.99	19.92	0	80.5	5.65	97.2				
2,4-DB	5.58	0.996	3.984	0	140	54.9	141				

Work Order: 2206450
 CLIENT: OnSite Environmental Inc
 Project: 06-258

QC SUMMARY REPORT
Herbicides by EPA Method 8151A (GC/MS)

Sample ID: LCS-36990	SampType: LCS	Units: µg/L			Prep Date: 6/30/2022	RunNo: 76651					
Client ID: LCSW	Batch ID: 36990				Analysis Date: 7/6/2022	SeqNo: 1573112					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
MCPP	21.8	4.98	19.92	0	109	28.7	166				
MCPA	22.1	4.98	19.92	0	111	20.7	176				
Picloram	4.53	0.996	3.984	0	114	9.72	120				
Bentazon	5.29	0.996	3.984	0	133	41.2	141				
Chloramben	3.23	0.996	3.984	0	81.0	5	109				
Acifluorfen	4.74	4.98	3.984	0	119	7.62	139				
3,5-Dichlorobenzoic acid	5.11	0.996	3.984	0	128	52.4	120				S
4-Nitrophenol	2.35	0.996	3.984	0	58.9	5	107				
Dacthal (DCPA)	2.51	1.99	3.984	0	62.9	5	65.4				
Surr: 2,4-Dichlorophenylacetic acid	22.4		19.92		112	65.7	136				

NOTES:

S - Outlying spike recovery observed (high bias). Detections will be qualified with a *. A duplicate analysis recovered within range.

Sample ID: LCS-36990	SampType: LCS	Units: µg/L			Prep Date: 6/30/2022	RunNo: 76651					
Client ID: LCSW02	Batch ID: 36990				Analysis Date: 7/6/2022	SeqNo: 1573113					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dicamba	4.58	0.995	3.979	0	115	16.6	148	5.032	9.38	30	
2,4-D	5.42	0.995	3.979	0	136	50.4	150	5.990	10.1	30	
2,4-DP	5.11	0.995	3.979	0	129	53	135	5.663	10.2	30	
2,4,5-TP (Silvex)	5.27	0.995	3.979	0	132	53.6	140	5.801	9.65	30	
2,4,5-T	5.45	0.995	3.979	0	137	50	141	5.983	9.34	30	
Dinoseb	4.39	0.995	3.979	0	110	5	119	4.598	4.73	30	
Dalapon	15.1	1.99	19.89	0	75.9	5.65	97.2	16.04	6.13	30	
2,4-DB	5.09	0.995	3.979	0	128	54.9	141	5.580	9.20	30	
MCPP	20.0	4.97	19.89	0	101	28.7	166	21.81	8.44	30	
MCPA	20.4	4.97	19.89	0	102	20.7	176	22.12	8.20	30	
Picloram	4.13	0.995	3.979	0	104	9.72	120	4.533	9.21	30	
Bentazon	4.77	0.995	3.979	0	120	41.2	141	5.294	10.4	30	
Chloramben	2.31	0.995	3.979	0	58.0	5	109	3.225	33.1	30	
Acifluorfen	4.55	4.97	3.979	0	114	7.62	139	4.744	4.20	30	
3,5-Dichlorobenzoic acid	4.62	0.995	3.979	0	116	52.4	120	5.108	10.1	30	

Work Order: 2206450
 CLIENT: OnSite Environmental Inc
 Project: 06-258

QC SUMMARY REPORT
Herbicides by EPA Method 8151A (GC/MS)

Sample ID: LCSD-36990	SampType: LCSD	Units: µg/L				Prep Date: 6/30/2022	RunNo: 76651				
Client ID: LCSW02	Batch ID: 36990					Analysis Date: 7/6/2022	SeqNo: 1573113				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
4-Nitrophenol	2.38	0.995	3.979	0	59.7	5	107	2.346	1.26	30	
Dacthal (DCPA)	2.40	1.99	3.979	0	60.3	5	65.4	2.506	4.29	30	
Surr: 2,4-Dichlorophenylacetic acid	20.4		19.89		102	65.7	136		0		

Sample ID: 2206450-001AMS	SampType: MS	Units: µg/L				Prep Date: 6/30/2022	RunNo: 76651				
Client ID: MW-9-20220623	Batch ID: 36990					Analysis Date: 7/6/2022	SeqNo: 1573115				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dicamba	4.76	1.00	4.006	0	119	31	142				
2,4-D	5.86	1.00	4.006	0	146	50.3	149				
2,4-DP	5.60	1.00	4.006	0	140	49.9	143				
2,4,5-TP (Silvex)	5.86	1.00	4.006	0	146	47.7	141				S
2,4,5-T	6.15	1.00	4.006	0	153	34.4	139				S
Dinoseb	5.40	1.00	4.006	0	135	27.3	117				S
Dalapon	14.3	2.00	20.03	0	71.6	14.2	113				
2,4-DB	5.94	1.00	4.006	0	148	31.3	147				S
MCPP	21.1	5.01	20.03	0	105	30.5	177				
MCPA	21.3	5.01	20.03	0	106	36.8	163				
Picloram	4.75	1.00	4.006	0	119	18.8	115				S
Bentazon	5.50	1.00	4.006	0	137	11.9	176				
Chloramben	3.03	1.00	4.006	0	75.7	5	112				
Acifluorfen	5.64	5.01	4.006	0	141	28.1	146				
3,5-Dichlorobenzoic acid	4.81	1.00	4.006	0	120	36.2	146				
4-Nitrophenol	1.76	1.00	4.006	0	44.0	5	116				
Dacthal (DCPA)	2.32	2.00	4.006	0	57.9	5	84.6				
Surr: 2,4-Dichlorophenylacetic acid	21.4		20.03		107	65.7	136				

NOTES:

S - Outlying spike recoveries were associated with this sample.

Client Name: ONSITE	Work Order Number: 2206450
Logged by: Elisabeth Samoray	Date Received: 6/27/2022 1:24:00 PM

Chain of Custody

1. Is Chain of Custody complete? Yes No Not Present
2. How was the sample delivered? Client

Log In

3. Coolers are present? Yes No NA
4. Shipping container/cooler in good condition? Yes No
5. Custody Seals present on shipping container/cooler?
(Refer to comments for Custody Seals not intact) Yes No Not Present
6. Was an attempt made to cool the samples? Yes No NA
7. Were all items received at a temperature of >2°C to 6°C * Yes No NA
8. Sample(s) in proper container(s)? Yes No
9. Sufficient sample volume for indicated test(s)? Yes No
10. Are samples properly preserved? Yes No
11. Was preservative added to bottles? Yes No NA
12. Is there headspace in the VOA vials? Yes No NA
13. Did all samples containers arrive in good condition(unbroken)? Yes No
14. Does paperwork match bottle labels? Yes No
15. Are matrices correctly identified on Chain of Custody? Yes No
16. Is it clear what analyses were requested? Yes No
17. Were all holding times able to be met? Yes No

Special Handling (if applicable)

18. Was client notified of all discrepancies with this order? Yes No NA

Person Notified:	<input type="text"/>	Date:	<input type="text"/>
By Whom:	<input type="text"/>	Via:	<input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:	<input type="text"/>		
Client Instructions:	<input type="text"/>		

19. Additional remarks:

Item Information

Item #	Temp °C
Sample 1	5.9

* Note: DoD/ELAP and TNI require items to be received at 4°C +/- 2°C



14648 NE 95th Street, Redmond, WA 98052 · (425) 883-3881

2206450

Laboratory: Fremont Analytical

Turnaround Request

Project Manager: David Baumeister

Attention: Chelsea Ward

1 Day 2 Day 3 Day

email: dbaumeister@onsite-env.com

3600 Fremont Avenue N, Seattle, WA 98103

Standard

Project Number: 6694-002-00

Phone Number: (206) 352-3790

Other: _____

Project Name: _____

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	# of Cont.	Requested Analyses
	MW-9-20220623	6/23/22	11:30	W	1	Chlorinated Acid Herbicides 8151
	MW-10-20220623	6/23/22	13:00	W	1	Chlorinated Acid Herbicides 8151

Signature	Company	Date	Time	Comments/Special Instructions
Relinquished by:	OSE	6/27/22	12:25	EDDs
Received by: Van	Spdy	6/27/22	12:25	
Relinquished by: Van	Spdy	6/27/22	13:15	
Received by: Yeys Chen	Fremont Analytical	6/27/22	13:24	
Relinquished by:				
Received by:				



Analytical Laboratory Testing Services
 14648 NE 95th Street • Redmond, WA 98052
 Phone: (425) 883-3881 • www.onsite-env.com

Chain of Custody

Company: **LFEI**

Project Number: **6694-002-00**

Project Name: **C10-East**

Project Manager: **Garrett L.**

Sampled by: **Woodrow D. Spelsted / Crazy Lund.**

Turnaround Request (in working days)

(Check One)

Same Day 1 Day

2 Days 3 Days

Standard (7 Days)

_____ (other)

Laboratory Number: **06-258**

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX (8021 <input type="checkbox"/> 8260 <input type="checkbox"/>)	NWTPH-Gx	NWTPH-Dx (Acid/BB Clean-up)	Volatiles 8260 D	Halogenated Volatiles 8260	EDB EPA 8011 (Waters Only)	Semivolatiles 8270/SIM (with low-level PAHs)	PAHs 8270/SIM (low-level)	PCBs 8082A	Organochlorine Pesticides 8081 B	Organophosphorus Pesticides 8270/SIM	Chlorinated Acid Herbicides 8151	Total PORA Metals	Total MPCA Metals	HEM (oil and grease) 1664	Total metals	Alkalinity, bicarbonate, chloride Nitrate, sulfate	Leachate Indicators - Ammonia, TOC, TDS	Creachem parameters
1	MW-9-20220623	6/23/22	1130	Water	2			X	X	X			X		X	X	X	X	X	X	X	X	X	X	X
2	MW-10-20220623		1300		2			X	X	X			X		X	X	X	X	X	X	X	X	X	X	X

Signature	Company	Date	Time	Comments/Special Instructions
<i>[Signature]</i>	LFEI	6/23/22	1430	One of H2O2 500mL bottles is field filtered but forgot to label
<i>[Signature]</i>	ALPHA	6/24/22	0930	Total and Dissolved Metals (As, Cd, Cr, Cu, Fe, Pb, Mn, Hg, Ni, Se)
<i>[Signature]</i>	ALPHA	6/24/22	1015	
<i>[Signature]</i>	OSB	6/24/22	1015	Please reach out to Garrett L. before anything else
				Data Package: Standard <input type="checkbox"/> Level III <input type="checkbox"/> Level IV <input type="checkbox"/>
				Chromatograms with final report <input type="checkbox"/> Electronic Data Deliverables (EDDs) <input type="checkbox"/>



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July 11, 2022

Garrett Leque
GeoEngineers, Inc.
554 West Bakerview Road
Bellingham, WA 98226

Re: Analytical Data for Project 6694-002-05 T700
Laboratory Reference No. 2206-268

Dear Garrett:

Enclosed are the analytical results and associated quality control data for samples submitted on June 24, 2022.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

A handwritten signature in black ink, appearing to read "DB", with a horizontal line extending to the right.

David Baumeister
Project Manager

Enclosures



OnSite Environmental, Inc. 14648 NE 95th Street, Redmond, WA 98052 (425) 883-3881

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: July 11, 2022
Samples Submitted: June 24, 2022
Laboratory Reference: 2206-268
Project: 6694-002-00 T700

Case Narrative

Samples were collected on June 24, 2022 and received by the laboratory on June 24, 2022. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.



Date of Report: July 11, 2022
Samples Submitted: June 24, 2022
Laboratory Reference: 2206-268
Project: 6694-002-00 T700

ANALYTICAL REPORT FOR SAMPLES

Client ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
MW-5-20220624	06-268-01	Water	6-24-22	6-24-22	

DRAFT



Date of Report: July 11, 2022
 Samples Submitted: June 24, 2022
 Laboratory Reference: 2206-268
 Project: 6694-002-00 T700

**DIESEL AND HEAVY OIL RANGE ORGANICS
 NWTPH-Dx**

Matrix: Water
 Units: mg/L (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-5-20220624					
Laboratory ID:	06-268-01					
Diesel Range Organics	ND	0.13	NWTPH-Dx	6-28-22	6-29-22	
Lube Oil Range Organics	ND	0.21	NWTPH-Dx	6-28-22	6-29-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	84	50-150				



Date of Report: July 11, 2022
 Samples Submitted: June 24, 2022
 Laboratory Reference: 2206-268
 Project: 6694-002-00 T700

VOLATILE ORGANICS EPA 8260D
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-5-20220624					
Laboratory ID:	06-268-01					
Dichlorodifluoromethane	ND	0.20	EPA 8260D	6-27-22	6-27-22	
Chloromethane	ND	1.4	EPA 8260D	6-27-22	6-27-22	
Vinyl Chloride	ND	0.20	EPA 8260D	6-27-22	6-27-22	
Bromomethane	ND	2.3	EPA 8260D	6-27-22	6-27-22	
Chloroethane	ND	1.0	EPA 8260D	6-27-22	6-27-22	
Trichlorofluoromethane	ND	0.20	EPA 8260D	6-27-22	6-27-22	
1,1-Dichloroethene	ND	0.20	EPA 8260D	6-27-22	6-27-22	
Acetone	ND	10	EPA 8260D	6-27-22	6-27-22	
Iodomethane	ND	7.7	EPA 8260D	6-27-22	6-27-22	
Carbon Disulfide	ND	0.20	EPA 8260D	6-27-22	6-27-22	
Methylene Chloride	ND	1.0	EPA 8260D	6-27-22	6-27-22	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	6-27-22	6-27-22	
Methyl t-Butyl Ether	ND	0.20	EPA 8260D	6-27-22	6-27-22	
1,1-Dichloroethane	ND	0.20	EPA 8260D	6-27-22	6-27-22	
Vinyl Acetate	ND	1.0	EPA 8260D	6-27-22	6-27-22	
2,2-Dichloropropane	ND	0.20	EPA 8260D	6-27-22	6-27-22	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	6-27-22	6-27-22	
2-Butanone	ND	5.0	EPA 8260D	6-27-22	6-27-22	
Bromochloromethane	ND	0.20	EPA 8260D	6-27-22	6-27-22	
Chloroform	ND	0.20	EPA 8260D	6-27-22	6-27-22	
1,1,1-Trichloroethane	ND	0.20	EPA 8260D	6-27-22	6-27-22	
Carbon Tetrachloride	ND	0.20	EPA 8260D	6-27-22	6-27-22	
1,1-Dichloropropene	ND	0.20	EPA 8260D	6-27-22	6-27-22	
Benzene	ND	0.20	EPA 8260D	6-27-22	6-27-22	
1,2-Dichloroethane	ND	0.20	EPA 8260D	6-27-22	6-27-22	
Trichloroethene	ND	0.20	EPA 8260D	6-27-22	6-27-22	
1,2-Dichloropropane	ND	0.20	EPA 8260D	6-27-22	6-27-22	
Dibromomethane	ND	0.20	EPA 8260D	6-27-22	6-27-22	
Bromodichloromethane	ND	0.20	EPA 8260D	6-27-22	6-27-22	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260D	6-27-22	6-27-22	
Methyl Isobutyl Ketone	ND	2.0	EPA 8260D	6-27-22	6-27-22	
Toluene	ND	1.0	EPA 8260D	6-27-22	6-27-22	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260D	6-27-22	6-27-22	



Date of Report: July 11, 2022
 Samples Submitted: June 24, 2022
 Laboratory Reference: 2206-268
 Project: 6694-002-00 T700

VOLATILE ORGANICS EPA 8260D

page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-5-20220624					
Laboratory ID:	06-268-01					
1,1,2-Trichloroethane	ND	0.20	EPA 8260D	6-27-22	6-27-22	
Tetrachloroethene	ND	0.20	EPA 8260D	6-27-22	6-27-22	
1,3-Dichloropropane	ND	0.20	EPA 8260D	6-27-22	6-27-22	
2-Hexanone	ND	2.0	EPA 8260D	6-27-22	6-27-22	
Dibromochloromethane	ND	0.20	EPA 8260D	6-27-22	6-27-22	
1,2-Dibromoethane	ND	0.20	EPA 8260D	6-27-22	6-27-22	
Chlorobenzene	ND	0.20	EPA 8260D	6-27-22	6-27-22	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260D	6-27-22	6-27-22	
Ethylbenzene	ND	0.20	EPA 8260D	6-27-22	6-27-22	
m,p-Xylene	ND	0.40	EPA 8260D	6-27-22	6-27-22	
o-Xylene	ND	0.20	EPA 8260D	6-27-22	6-27-22	
Styrene	ND	0.20	EPA 8260D	6-27-22	6-27-22	
Bromoform	ND	1.0	EPA 8260D	6-27-22	6-27-22	
Isopropylbenzene	ND	0.20	EPA 8260D	6-27-22	6-27-22	
Bromobenzene	ND	0.20	EPA 8260D	6-27-22	6-27-22	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260D	6-27-22	6-27-22	
1,2,3-Trichloropropane	ND	0.20	EPA 8260D	6-27-22	6-27-22	
n-Propylbenzene	ND	0.20	EPA 8260D	6-27-22	6-27-22	
2-Chlorotoluene	ND	0.20	EPA 8260D	6-27-22	6-27-22	
4-Chlorotoluene	ND	0.20	EPA 8260D	6-27-22	6-27-22	
1,3,5-Trimethylbenzene	ND	0.20	EPA 8260D	6-27-22	6-27-22	
tert-Butylbenzene	ND	0.20	EPA 8260D	6-27-22	6-27-22	
1,2,4-Trimethylbenzene	ND	0.20	EPA 8260D	6-27-22	6-27-22	
sec-Butylbenzene	ND	0.20	EPA 8260D	6-27-22	6-27-22	
1,3-Dichlorobenzene	ND	0.20	EPA 8260D	6-27-22	6-27-22	
p-Isopropyltoluene	ND	0.20	EPA 8260D	6-27-22	6-27-22	
1,4-Dichlorobenzene	ND	0.20	EPA 8260D	6-27-22	6-27-22	
1,2-Dichlorobenzene	ND	0.20	EPA 8260D	6-27-22	6-27-22	
n-Butylbenzene	ND	0.20	EPA 8260D	6-27-22	6-27-22	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260D	6-27-22	6-27-22	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260D	6-27-22	6-27-22	
Hexachlorobutadiene	ND	1.0	EPA 8260D	6-27-22	6-27-22	
Naphthalene	ND	1.0	EPA 8260D	6-27-22	6-27-22	
1,2,3-Trichlorobenzene	ND	1.0	EPA 8260D	6-27-22	6-27-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>100</i>	<i>75-127</i>				
<i>Toluene-d8</i>	<i>105</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>102</i>	<i>78-125</i>				



OnSite Environmental, Inc. 14648 NE 95th Street, Redmond, WA 98052 (425) 883-3881

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: July 11, 2022
 Samples Submitted: June 24, 2022
 Laboratory Reference: 2206-268
 Project: 6694-002-00 T700

TOTAL METALS
EPA 200.8/200.7/7470A

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-5-20220624					
Laboratory ID:	06-268-01					
Arsenic	6.5	3.3	EPA 200.8	7-6-22	7-6-22	
Cadmium	ND	4.4	EPA 200.8	7-6-22	7-6-22	
Chromium	ND	11	EPA 200.8	7-6-22	7-6-22	
Copper	ND	11	EPA 200.8	7-6-22	7-6-22	
Iron	220	50	EPA 200.7	6-28-22	6-28-22	
Lead	ND	1.1	EPA 200.8	7-6-22	7-6-22	
Magnesium	140000	1000	EPA 200.7	6-28-22	6-28-22	
Manganese	290	10	EPA 200.7	6-28-22	6-28-22	
Mercury	ND	0.025	EPA 7470A	7-1-22	7-1-22	
Nickel	ND	22	EPA 200.8	7-6-22	7-6-22	
Selenium	ND	5.6	EPA 200.8	7-6-22	7-6-22	



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 Project: 6694-002-00 T700

DISSOLVED METALS
EPA 200.8/200.7/7470A

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-5-20220624					
Laboratory ID:	06-268-01					
Arsenic	6.0	3.0	EPA 200.8		7-6-22	
Cadmium	ND	4.0	EPA 200.8		7-6-22	
Calcium	29000	1100	EPA 200.7		6-29-22	
Chromium	ND	10	EPA 200.8		7-6-22	
Copper	ND	10	EPA 200.8		7-6-22	
Iron	ND	56	EPA 200.7		6-29-22	
Lead	ND	1.0	EPA 200.8		7-6-22	
Magnesium	14000	1100	EPA 200.7		6-29-22	
Manganese	260	11	EPA 200.7		6-29-22	
Mercury	ND	0.025	EPA 7470A		7-5-22	
Nickel	ND	20	EPA 200.8		7-6-22	
Potassium	2300	1100	EPA 200.7		6-29-22	
Selenium	ND	5.0	EPA 200.8		7-6-22	
Sodium	7700	1100	EPA 200.7		6-29-22	



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TOTAL ALKALINITY
SM 2320B

Matrix: Water
Units: mg CaCO₃/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-5-20220624					
Laboratory ID:	06-268-01					
Total Alkalinity	120	2.0	SM 2320B	7-1-22	7-1-22	



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Project: 6694-002-05 T700

**BICARBONATE
SM 2320B**

Matrix: Water
Units: mg CaCO₃/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-5-20220624					
Laboratory ID:	06-268-01					
Bicarbonate	120	2.0	SM 2320B	7-1-22	7-1-22	



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**TOTAL ORGANIC CARBON
SM 5310B**

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-5-20220624					
Laboratory ID:	06-268-01					
Total Organic Carbon	ND	1.0	SM 5310B	6-30-22	6-30-22	



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**TOTAL DISSOLVED SOLIDS
 SM 2540C**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-5-20220624					
Laboratory ID:	06-268-01					
Total Dissolved Solids	170	13	SM 2540C	6-30-22	7-5-22	



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CHLORIDE
SM 4500-Cl E

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-5-20220624					
Laboratory ID:	06-268-01					
Chloride	6.4	2.0	SM 4500-Cl E	6-27-22	6-27-22	



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NITRATE (as Nitrogen)
EPA 353.2

Matrix: Water
Units: mg/L-N

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-5-20220624					
Laboratory ID:	06-268-01					
Nitrate	ND	0.050	EPA 353.2	6-24-22	6-24-22	



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SULFATE
ASTM D516-11

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-5-20220624					
Laboratory ID:	06-268-01					
Sulfate	14	5.0	ASTM D516-11	6-28-22	6-28-22	



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AMMONIA (as Nitrogen)
SM 4500-NH₃ D

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-5-20220624					
Laboratory ID:	06-268-01					
Ammonia	ND	0.050	SM 4500-NH3 D	7-8-22	7-8-22	



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**DIESEL AND HEAVY OIL RANGE ORGANICS
 NWTPH-Dx
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0628W1					
Diesel Range Organics	ND	0.10	NWTPH-Dx	6-28-22	6-28-22	
Lube Oil Range Organics	ND	0.16	NWTPH-Dx	6-28-22	6-28-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	75	50-150				

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	06-263-01							
	ORIG	DUP						
Diesel Range	ND	ND	NA	NA	NA	NA	NA	NA
Lube Oil Range Organics	0.296	0.238	NA	NA	NA	NA	22	NA
<i>Surrogate:</i>								
<i>o-Terphenyl</i>				77	74	50-150		



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VOLATILE ORGANICS EPA 8260D
QUALITY CONTROL
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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0627W1					
Dichlorodifluoromethane	ND	0.20	EPA 8260D	6-27-22	6-27-22	
Chloromethane	ND	1.4	EPA 8260D	6-27-22	6-27-22	
Vinyl Chloride	ND	0.20	EPA 8260D	6-27-22	6-27-22	
Bromomethane	ND	2.3	EPA 8260D	6-27-22	6-27-22	
Chloroethane	ND	1.0	EPA 8260D	6-27-22	6-27-22	
Trichlorofluoromethane	ND	0.20	EPA 8260D	6-27-22	6-27-22	
1,1-Dichloroethene	ND	0.20	EPA 8260D	6-27-22	6-27-22	
Acetone	ND	10	EPA 8260D	6-27-22	6-27-22	
Iodomethane	ND	7.7	EPA 8260D	6-27-22	6-27-22	
Carbon Disulfide	ND	0.20	EPA 8260D	6-27-22	6-27-22	
Methylene Chloride	ND	1.0	EPA 8260D	6-27-22	6-27-22	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	6-27-22	6-27-22	
Methyl t-Butyl Ether	ND	0.20	EPA 8260D	6-27-22	6-27-22	
1,1-Dichloroethane	ND	0.20	EPA 8260D	6-27-22	6-27-22	
Vinyl Acetate	ND	1.0	EPA 8260D	6-27-22	6-27-22	
2,2-Dichloropropane	ND	0.20	EPA 8260D	6-27-22	6-27-22	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	6-27-22	6-27-22	
2-Butanone	ND	5.0	EPA 8260D	6-27-22	6-27-22	
Bromochloromethane	ND	0.20	EPA 8260D	6-27-22	6-27-22	
Chloroform	ND	0.20	EPA 8260D	6-27-22	6-27-22	
1,1,1-Trichloroethane	ND	0.20	EPA 8260D	6-27-22	6-27-22	
Carbon Tetrachloride	ND	0.20	EPA 8260D	6-27-22	6-27-22	
1,1-Dichloropropene	ND	0.20	EPA 8260D	6-27-22	6-27-22	
Benzene	ND	0.20	EPA 8260D	6-27-22	6-27-22	
1,2-Dichloroethane	ND	0.20	EPA 8260D	6-27-22	6-27-22	
Trichloroethene	ND	0.20	EPA 8260D	6-27-22	6-27-22	
1,2-Dichloropropane	ND	0.20	EPA 8260D	6-27-22	6-27-22	
Dibromomethane	ND	0.20	EPA 8260D	6-27-22	6-27-22	
Bromodichloromethane	ND	0.20	EPA 8260D	6-27-22	6-27-22	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260D	6-27-22	6-27-22	
Methyl Isobutyl Ketone	ND	2.0	EPA 8260D	6-27-22	6-27-22	
Toluene	ND	1.0	EPA 8260D	6-27-22	6-27-22	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260D	6-27-22	6-27-22	



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**VOLATILE ORGANICS EPA 8260D
 QUALITY CONTROL**

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0627W1					
1,1,2-Trichloroethane	ND	0.20	EPA 8260D	6-27-22	6-27-22	
Tetrachloroethene	ND	0.20	EPA 8260D	6-27-22	6-27-22	
1,3-Dichloropropane	ND	0.20	EPA 8260D	6-27-22	6-27-22	
2-Hexanone	ND	2.0	EPA 8260D	6-27-22	6-27-22	
Dibromochloromethane	ND	0.20	EPA 8260D	6-27-22	6-27-22	
1,2-Dibromoethane	ND	0.20	EPA 8260D	6-27-22	6-27-22	
Chlorobenzene	ND	0.20	EPA 8260D	6-27-22	6-27-22	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260D	6-27-22	6-27-22	
Ethylbenzene	ND	0.20	EPA 8260D	6-27-22	6-27-22	
m,p-Xylene	ND	0.40	EPA 8260D	6-27-22	6-27-22	
o-Xylene	ND	0.20	EPA 8260D	6-27-22	6-27-22	
Styrene	ND	0.20	EPA 8260D	6-27-22	6-27-22	
Bromoform	ND	1.0	EPA 8260D	6-27-22	6-27-22	
Isopropylbenzene	ND	0.20	EPA 8260D	6-27-22	6-27-22	
Bromobenzene	ND	0.20	EPA 8260D	6-27-22	6-27-22	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260D	6-27-22	6-27-22	
1,2,3-Trichloropropane	ND	0.20	EPA 8260D	6-27-22	6-27-22	
n-Propylbenzene	ND	0.20	EPA 8260D	6-27-22	6-27-22	
2-Chlorotoluene	ND	0.20	EPA 8260D	6-27-22	6-27-22	
4-Chlorotoluene	ND	0.20	EPA 8260D	6-27-22	6-27-22	
1,3,5-Trimethylbenzene	ND	0.20	EPA 8260D	6-27-22	6-27-22	
tert-Butylbenzene	ND	0.20	EPA 8260D	6-27-22	6-27-22	
1,2,4-Trimethylbenzene	ND	0.20	EPA 8260D	6-27-22	6-27-22	
sec-Butylbenzene	ND	0.20	EPA 8260D	6-27-22	6-27-22	
1,3-Dichlorobenzene	ND	0.20	EPA 8260D	6-27-22	6-27-22	
p-Isopropyltoluene	ND	0.20	EPA 8260D	6-27-22	6-27-22	
1,4-Dichlorobenzene	ND	0.20	EPA 8260D	6-27-22	6-27-22	
1,2-Dichlorobenzene	ND	0.20	EPA 8260D	6-27-22	6-27-22	
n-Butylbenzene	ND	0.20	EPA 8260D	6-27-22	6-27-22	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260D	6-27-22	6-27-22	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260D	6-27-22	6-27-22	
Hexachlorobutadiene	ND	1.0	EPA 8260D	6-27-22	6-27-22	
Naphthalene	ND	1.0	EPA 8260D	6-27-22	6-27-22	
1,2,3-Trichlorobenzene	ND	1.0	EPA 8260D	6-27-22	6-27-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>100</i>	<i>75-127</i>				
<i>Toluene-d8</i>	<i>98</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>98</i>	<i>78-125</i>				



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**VOLATILE ORGANICS EPA 8260D
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD		Flags
					Recovery	Limits	RPD	Limit		
SPIKE BLANKS										
Laboratory ID:	SB0627W1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	11.7	10.7	10.0	10.0	117	107	78-125	9	19	
Benzene	10.0	9.15	10.0	10.0	100	92	80-121	9	16	
Trichloroethene	10.4	9.93	10.0	10.0	104	99	80-122	5	18	
Toluene	10.1	9.24	10.0	10.0	101	92	80-120	9	18	
Chlorobenzene	11.2	10.5	10.0	10.0	112	105	80-120	6	17	
<i>Surrogate:</i>										
Dibromofluoromethane					100	97	75-127			
Toluene-d8					100	98	80-127			
4-Bromofluorobenzene					100	102	78-125			



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TOTAL METALS
EPA 200.8/200.7/7470A
QUALITY CONTROL

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0628WH1					
Iron	ND	50	EPA 200.7	6-28-22	6-28-22	
Magnesium	ND	1000	EPA 200.7	6-28-22	6-28-22	
Manganese	ND	10	EPA 200.7	6-28-22	6-28-22	
METHOD BLANK						
Laboratory ID:	MB0706WM1					
Arsenic	ND	3.3	EPA 200.8	7-6-22	7-6-22	
Cadmium	ND	4.4	EPA 200.8	7-6-22	7-6-22	
Chromium	ND	11	EPA 200.8	7-6-22	7-6-22	
Copper	ND	11	EPA 200.8	7-6-22	7-6-22	
Lead	ND	1.1	EPA 200.8	7-6-22	7-6-22	
Nickel	ND	22	EPA 200.8	7-6-22	7-6-22	
Selenium	ND	5.6	EPA 200.8	7-6-22	7-6-22	
METHOD BLANK						
Laboratory ID:	MB0701W1					
Mercury	ND	0.025	EPA 7470A	7-1-22	7-1-22	



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TOTAL METALS
EPA 200.8/200.7/7470A
QUALITY CONTROL

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result		Spike Level		Source	Percent	Recovery	RPD		Flags
					Result	Recovery	Limits	RPD	Limit	
DUPLICATE										
Laboratory ID:	06-153-02									
	ORIG	DUP								
Iron	162	166	NA	NA		NA	NA	2	20	
Magnesium	7020	7070	NA	NA		NA	NA	1	20	
Manganese	30.9	23.9	NA	NA		NA	NA	26	20	C
Laboratory ID:	06-223-03									
Arsenic	4.58	4.47	NA	NA		NA	NA	2	20	
Cadmium	ND	ND	NA	NA		NA	NA	NA	20	
Chromium	ND	ND	NA	NA		NA	NA	NA	20	
Copper	ND	ND	NA	NA		NA	NA	NA	20	
Lead	ND	ND	NA	NA		NA	NA	NA	20	
Nickel	ND	ND	NA	NA		NA	NA	NA	20	
Selenium	ND	ND	NA	NA		NA	NA	NA	20	
Laboratory ID:	06-263-01									
Mercury	ND	ND	NA	NA		NA	NA	NA	20	
MATRIX SPIKES										
Laboratory ID:	06-153-02									
	MS	MSD	MS	MSD		MS	MSD			
Iron	20800	21000	20000	20000	162	103	104	75-125	1	20
Magnesium	27500	27800	20000	20000	7020	102	104	75-125	1	20
Manganese	526	520	500	500	309	43	42	75-125	1	20
Laboratory ID:	06-223-03									
Arsenic	124	122	111	111	4.58	107	105	75-125	2	20
Cadmium	117	115	111	111	ND	106	104	75-125	2	20
Chromium	120	120	111	111	ND	108	108	75-125	0	20
Copper	116	116	111	111	ND	105	104	75-125	1	20
Lead	113	112	111	111	ND	102	101	75-125	1	20
Nickel	125	125	111	111	15.0	99	99	75-125	0	20
Selenium	110	108	111	111	ND	99	98	75-125	2	20
Laboratory ID:	06-263-01									
Mercury	6.30	6.25	6.25	6.25	ND	101	100	75-125	1	20



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**DISSOLVED METALS
 EPA 200.8/200.7/7470A
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0624F1					
Calcium	ND	1100	EPA 200.7	6-24-22	6-29-22	
Iron	ND	56	EPA 200.7	6-24-22	6-29-22	
Magnesium	ND	1100	EPA 200.7	6-24-22	6-29-22	
Manganese	ND	11	EPA 200.7	6-24-22	6-29-22	
Potassium	ND	1100	EPA 200.7	6-24-22	6-29-22	
Sodium	ND	1100	EPA 200.7	6-24-22	6-29-22	
METHOD BLANK						
Laboratory ID:	MB0624F1					
Arsenic	ND	3.0	EPA 200.8	6-24-22	7-6-22	
Cadmium	ND	4.0	EPA 200.8	6-24-22	7-6-22	
Chromium	ND	10	EPA 200.8	6-24-22	7-6-22	
Copper	ND	10	EPA 200.8	6-24-22	7-6-22	
Lead	ND	1.0	EPA 200.8	6-24-22	7-6-22	
Nickel	ND	20	EPA 200.8	6-24-22	7-6-22	
Selenium	ND	5.0	EPA 200.8	6-24-22	7-6-22	
METHOD BLANK						
Laboratory ID:	MB0624F1					
Mercury	ND	0.025	EPA 7470A	6-24-22	7-5-22	



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DISSOLVED METALS
EPA 200.8/200.7/7470A
QUALITY CONTROL

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result		Spike Level		Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE										
Laboratory ID:	06-268-01									
	ORIG	DUP								
Calcium	28500	28400	NA	NA		NA	NA	0	20	
Iron	ND	ND	NA	NA		NA	NA	NA	20	
Magnesium	14300	14300	NA	NA		NA	NA	0	20	
Manganese	256	256	NA	NA		NA	NA	0	20	
Potassium	2300	2360	NA	NA		NA	NA	3	20	
Sodium	7750	7770	NA	NA		NA	NA	0	20	
Laboratory ID:	06-223-02									
Arsenic	ND	ND	NA	NA		NA	NA	NA	20	
Cadmium	ND	ND	NA	NA		NA	NA	NA	20	
Chromium	ND	ND	NA	NA		NA	NA	NA	20	
Copper	ND	ND	NA	NA		NA	NA	NA	20	
Lead	ND	ND	NA	NA		NA	NA	NA	20	
Nickel	ND	ND	NA	NA		NA	NA	NA	20	
Selenium	ND	ND	NA	NA		NA	NA	NA	20	
Laboratory ID:	06-263-01									
Mercury	ND	ND	NA	NA		NA	NA	NA	20	
MATRIX SPIKES										
Laboratory ID:	06-268-01									
	MS	MSD	MS	MSD		MS	MSD			
Calcium	49300	50300	22200	22200	28500	94	98	75-125	2	20
Iron	22800	22800	22200	22200	ND	103	103	75-125	0	20
Magnesium	34900	34900	22200	22200	14300	93	93	75-125	0	20
Manganese	780	781	556	556	256	94	94	75-125	0	20
Potassium	25200	25400	22200	22200	2300	103	104	75-125	1	20
Sodium	31100	31200	22200	22200	7750	105	106	75-125	0	20
Laboratory ID:	06-223-02									
Arsenic	85.0	85.0	80.0	80.0	ND	106	106	75-125	0	20
Cadmium	84.6	83.0	80.0	80.0	ND	106	104	75-125	2	20
Chromium	82.8	81.8	80.0	80.0	ND	104	102	75-125	1	20
Copper	81.0	78.8	80.0	80.0	ND	101	99	75-125	3	20
Lead	80.8	80.8	80.0	80.0	ND	101	101	75-125	0	20
Nickel	83.4	82.6	80.0	80.0	ND	104	103	75-125	1	20
Selenium	77.2	76.2	80.0	80.0	ND	97	95	75-125	1	20
Laboratory ID:	06-263-01									
Mercury	6.08	6.08	6.25	6.25	ND	97	97	75-125	0	20



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 Project: 6694-002-00 T700

**TOTAL ALKALINITY
 SM 2320B
 QUALITY CONTROL**

Matrix: Water
 Units: mg CaCO₃/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0701W1					
Total Alkalinity	ND	2.0	SM 2320B	7-1-22	7-1-22	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	06-306-06							
	ORIG	DUP						
Total Alkalinity	82.0	82.0	NA	NA	NA	0	10	

SPIKE BLANK								
Laboratory ID:	SB0701W1							
	SB	SB		SB				
Total Alkalinity	94.0	100	NA	94	89-110	NA	NA	



Date of Report: July 11, 2022
 Samples Submitted: June 24, 2022
 Laboratory Reference: 2206-268
 Project: 6694-002-00 T700

**BICARBONATE
 SM 2320B
 QUALITY CONTROL**

Matrix: Water
 Units: mg CaCO₃/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0701W1					
Bicarbonate	ND	2.0	SM 2320B	7-1-22	7-1-22	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	06-306-06							
	ORIG	DUP						
Bicarbonate	82.0	82.0	NA	NA	NA	0	10	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANK								
Laboratory ID:	SB0701W1							
	SB	SB		SB				
Bicarbonate	94.0	100	NA	94	89-110	NA	NA	



Date of Report: July 11, 2022
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 Project: 6694-002-00 T700

**TOTAL ORGANIC CARBON
 SM 5310B
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0630W1					
Total Organic Carbon	ND	1.0	SM 5310B	6-30-22	6-30-22	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	06-292-03							
	ORIG	DUP						
Total Organic Carbon	23.8	23.8	NA	NA	NA	0	12	

MATRIX SPIKE								
Laboratory ID:	06-292-03							
	MS	MS		MS				
Total Organic Carbon	33.4	10.0	23.8	96	80-120	NA	NA	

SPIKE BLANK								
Laboratory ID:	SB0630W1							
	SB	SB		SB				
Total Organic Carbon	10.1	10.0	NA	101	80-118	NA	NA	



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**TOTAL DISSOLVED SOLIDS
 SM 2540C
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0630W1					
Total Dissolved Solids	ND	13	SM 2540C	6-30-22	7-5-22	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	06-258-01							
	ORIG	DUP						
Total Dissolved Solids	473	467	NA	NA	NA	1	23	

SPIKE BLANK								
Laboratory ID:	SB0630W1							
	SB	SB		SB				
Total Dissolved Solids	455	500	NA	91	89-110	NA	NA	



Date of Report: July 11, 2022
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 Laboratory Reference: 2206-268
 Project: 6694-002-00 T700

**CHLORIDE
 SM 4500-Cl E
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0627W2					
Chloride	ND	2.0	SM 4500-Cl E	6-27-22	6-27-22	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	06-162-01							
	ORIG	DUP						
Chloride	26.8	27.2	NA	NA	NA	1	11	

MATRIX SPIKE								
Laboratory ID:	06-162-01							
	MS	MS		MS				
Chloride	80.6	50.0	26.8	108	90-121	NA	NA	

SPIKE BLANK								
Laboratory ID:	SB0627W2							
	SB	SB		SB				
Chloride	56.9	50.0	NA	114	90-119	NA	NA	



Date of Report: July 11, 2022
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 Project: 6694-002-00 T700

**NITRATE (as Nitrogen)
 EPA 353.2
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L-N

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0624W1					
Nitrate	ND	0.050	EPA 353.2	6-24-22	6-24-22	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	06-247-01							
	ORIG	DUP						
Nitrate	ND	ND	NA	NA	NA	NA	10	

MATRIX SPIKE								
Laboratory ID:	06-247-01							
	MS	MS		MS				
Nitrate	2.18	2.00	ND	109	88-125	NA	NA	

SPIKE BLANK								
Laboratory ID:	SB0624W1							
	SB	SB		SB				
Nitrate	1.97	2.00	NA	99	90-120	NA	NA	



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 Project: 6694-002-00 T700

**SULFATE
 ASTM D516-11
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0628W1					
Sulfate	ND	5.0	ASTM D516-11	6-28-22	6-28-22	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	06-268-01							
	ORIG	DUP						
Sulfate	14.4	14.6	NA	NA	NA	1	10	

MATRIX SPIKE								
Laboratory ID:	06-268-01							
	MS	MS		MS				
Sulfate	22.3	10.0	14.4	79	72-128	NA	NA	

SPIKE BLANK								
Laboratory ID:	SB0628W1							
	SB	SB		SB				
Sulfate	10.4	10.0	NA	104	85-114	NA	NA	



Date of Report: July 11, 2022
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 Laboratory Reference: 2206-268
 Project: 6694-002-00 T700

AMMONIA (as Nitrogen)
SM 4500-NH₃ D
QUALITY CONTROL

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0708W1					
Ammonia	ND	0.050	SM 4500-NH3 D	7-8-22	7-8-22	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	06-292-03							
	ORIG	DUP						
Ammonia	2.83	2.86	NA	NA	NA	1	15	

MATRIX SPIKE								
Laboratory ID:	06-292-03							
	MS	MS		MS				
Ammonia	23.3	20.0	2.83	102	87-110	NA	NA	

SPIKE BLANK								
Laboratory ID:	SB0708W1							
	SB	SB		SB				
Ammonia	4.44	5.00	NA	89	88-110	NA	NA	





Data Qualifiers and Abbreviations

- A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.
- B - The analyte indicated was also found in the blank sample.
- C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.
- E - The value reported exceeds the quantitation range and is an estimate.
- F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.
- H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.
- I - Compound recovery is outside of the control limits.
- J - The value reported was below the practical quantitation limit. The value is an estimate.
- K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.
- L - The RPD is outside of the control limits.
- M - Hydrocarbons in the gasoline range are impacting the diesel range result.
- M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.
- N - Hydrocarbons in the lube oil range are impacting the diesel range result.
- N1 - Hydrocarbons in diesel range are impacting lube oil range results.
- O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.
- P - The RPD of the detected concentrations between the two columns is greater than 40.
- Q - Surrogate recovery is outside of the control limits.
- S - Surrogate recovery data is not available due to the necessary dilution of the sample.
- T - The sample chromatogram is not similar to a typical _____.
- U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
- U1 - The practical quantitation limit is elevated due to interferences present in the sample.
- V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.
- W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.
- X - Sample extract treated with a mercury cleanup procedure.
- X1 - Sample extract treated with a sulfuric acid/silica gel cleanup procedure.
- Y - The calibration verification for this analyte exceeded the 20% drift specified in methods 8260 & 8270, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.

Z -

ND - Not Detected at PQL
 PQL - Practical Quantitation Limit
 RPD - Relative Percent Difference





Analytical Laboratory Testing Services
 14648 NE 95th Street • Redmond, WA 98052
 Phone: (425) 883-3881 • www.onsite-env.com

Chain of Custody

Company: **GEI**

Project Number: **6694-002-05 T1200**

Project Name: **Go East**

Project Manager: **Gullata L.**

Sampled by: **Diana Craig Lund**

Turnaround Request (in working days)

(Check One)

Same Day 1 Day

2 Days 3 Days

Standard (7 Days)

_____ (other)

Laboratory Number: **06-268**

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	NWTPH-HClD	NWTPH-Gx/BTEX (8021 <input type="checkbox"/> 8260 <input type="checkbox"/>)	NWTPH-Gx	NWTPH-Dx (Acid / SG Clean-up <input type="checkbox"/>)	Volatiles 8260	Halogenated Volatiles 8260	EDB EPA 8011 (Waters Only)	Semivolatiles 8270/SIM (with low-level PAHs)	PAHs 8270/SIM (low-level)	PCBs 8082	Organochlorine Pesticides 8081	Organophosphorus Pesticides 8270/SIM	Chlorinated Acid Herbicides 8151	Total RCRA Metals	Total Heavy Metals mg + Mn	TEHP Metals	DISSOLVED Metals - Co, Mn, Ni, Pb	HEM (oil and grease) 1664	Total As, Cd, Cr, Cu, Fe, Hg, Ni, Pb, Se, Zn	DISSOLVED Pb, Mn, Nitrate, Sulfate	Lead/Cadmium Percentages *	Leachate As, Cd, Cr, Cu, Fe, Hg, Ni, Pb, Se, Zn + TDS	% Moisture
1	MW-5-20220624	6/24/22	1430	ADVA	11				X	X										X	X	X	X	X	X	X	X	X

	Signature	Company	Date	Time	Comments/Special Instructions
Relinquished	<i>Craig Lund</i>	GEI	6/24/22	1450	Also call Gullata prior to testing * Alkalinity, bicarbonate, chloride, NITRATE, SULFATE
Received	<i>Nichelle Blum</i>	OSB	6/24/22	1450	
Relinquished					
Received					
Relinquished					
Received					
Reviewed/Date		Reviewed/Date			Data Package: Standard <input type="checkbox"/> Level III <input type="checkbox"/> Level IV <input type="checkbox"/> Chromatograms with final report <input type="checkbox"/> Electronic Data Deliverables (EDDs) <input type="checkbox"/>



**OnSite
Environmental Inc.**

14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

July 15, 2022

Garrett Leque
GeoEngineers, Inc.
554 West Bakerview Road
Bellingham, WA 98226

Re: Analytical Data for Project 6694-002-05 T700
Laboratory Reference No. 2206-304

Dear Garrett:

Enclosed are the analytical results and associated quality control data for samples submitted on June 29, 2022.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

David Baumeister
Project Manager

Enclosures



OnSite Environmental, Inc. 14648 NE 95th Street, Redmond, WA 98052 (425) 883-3881

This report pertains to the samples analyzed in accordance with the chain of custody,
and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: July 15, 2022
Samples Submitted: June 29, 2022
Laboratory Reference: 2206-304
Project: 6694-002-00 T700

Case Narrative

Samples were collected on June 28, 2022 and received by the laboratory on June 29, 2022. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.



Date of Report: July 15, 2022
Samples Submitted: June 29, 2022
Laboratory Reference: 2206-304
Project: 6694-002-00 T700

ANALYTICAL REPORT FOR SAMPLES

Client ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
MW-2-20220628	06-304-01	Soil	6-28-22	6-29-22	

DRAFT



Date of Report: July 15, 2022
 Samples Submitted: June 29, 2022
 Laboratory Reference: 2206-304
 Project: 6694-002-00 T700

TOTAL METALS
EPA 200.8/200.7

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-2-20220628					
Laboratory ID:	06-304-01					
Arsenic	5.3	3.3	EPA 200.8	7-6-22	7-7-22	
Chromium	ND	11	EPA 200.8	7-6-22	7-7-22	
Iron	690	50	EPA 200.7	7-7-22	7-7-22	
Magnesium	16000	1000	EPA 200.7	7-7-22	7-7-22	
Manganese	250	10	EPA 200.7	7-7-22	7-7-22	
Nickel	ND	22	EPA 200.8	7-6-22	7-7-22	



Date of Report: July 15, 2022
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 Project: 6694-002-00 T700

DISSOLVED METALS
EPA 200.8/200.7

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-2-20220628					
Laboratory ID:	06-304-01					
Arsenic	4.3	3.0	EPA 200.8		7-7-22	
Calcium	24000	1100	EPA 200.7		7-5-22	
Chromium	ND	10	EPA 200.8		7-7-22	
Iron	ND	56	EPA 200.7		7-5-22	
Magnesium	15000	1100	EPA 200.7		7-5-22	
Manganese	220	11	EPA 200.7		7-5-22	
Nickel	ND	20	EPA 200.8		7-7-22	
Potassium	2500	1100	EPA 200.7		7-5-22	
Sodium	6800	1100	EPA 200.7		7-5-22	



Date of Report: July 15, 2022
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Laboratory Reference: 2206-304
Project: 6694-002-00 T700

TOTAL ALKALINITY
SM 2320B

Matrix: Water
Units: mg CaCO₃/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-2-20220628					
Laboratory ID:	06-304-01					
Total Alkalinity	110	2.0	SM 2320B	7-1-22	7-1-22	



Date of Report: July 15, 2022
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**BICARBONATE
SM 2320B**

Matrix: Water
Units: mg CaCO₃/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-2-20220628					
Laboratory ID:	06-304-01					
Bicarbonate	110	2.0	SM 2320B	7-1-22	7-1-22	



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CHLORIDE
SM 4500-Cl E

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-2-20220628					
Laboratory ID:	06-304-01					
Chloride	4.0	2.0	SM 4500-Cl E	7-11-22	7-11-22	



Date of Report: July 15, 2022
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Project: 6694-002-00 T700

NITRATE (as Nitrogen)
EPA 353.2

Matrix: Water
Units: mg/L-N

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-2-20220628					
Laboratory ID:	06-304-01					
Nitrate	ND	0.050	EPA 353.2	6-29-22	6-29-22	



Date of Report: July 15, 2022
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 Laboratory Reference: 2206-304
 Project: 6694-002-00 T700

SULFATE
ASTM D516-11

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-2-20220628					
Laboratory ID:	06-304-01					
Sulfate	12	5.0	ASTM D516-11	7-7-22	7-7-02	



Date of Report: July 15, 2022
 Samples Submitted: June 29, 2022
 Laboratory Reference: 2206-304
 Project: 6694-002-00 T700

AMMONIA (as Nitrogen)
SM 4500-NH₃ D

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-2-20220628					
Laboratory ID:	06-304-01					
Ammonia	0.094	0.050	SM 4500-NH3 D	7-8-22	7-8-22	



Date of Report: July 15, 2022
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Laboratory Reference: 2206-304
Project: 6694-002-00 T700

**TOTAL ORGANIC CARBON
SM 5310B**

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-2-20220628					
Laboratory ID:	06-304-01					
Total Organic Carbon	ND	1.0	SM 5310B	6-30-22	6-30-22	



Date of Report: July 15, 2022
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Laboratory Reference: 2206-304
Project: 6694-002-00 T700

**TOTAL DISSOLVED SOLIDS
SM 2540C**

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-2-20220628					
Laboratory ID:	06-304-01					
Total Dissolved Solids	150	13	SM 2540C	7-5-22	7-7-22	



Date of Report: July 15, 2022
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 Project: 6694-002-00 T700

**TOTAL METALS
 EPA 200.8/200.7
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0707WH2					
Iron	ND	50	EPA 200.7	7-7-22	7-7-22	
Magnesium	ND	1000	EPA 200.7	7-7-22	7-7-22	
Manganese	ND	10	EPA 200.7	7-7-22	7-7-22	
METHOD BLANK						
Laboratory ID:	MB0706WM1					
Arsenic	ND	3.3	EPA 200.8	7-6-22	7-6-22	
Chromium	ND	11	EPA 200.8	7-6-22	7-6-22	
Nickel	ND	22	EPA 200.8	7-6-22	7-6-22	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	06-305-01							
	ORIG	DUP						
Iron	581	580	NA	NA	NA	NA	0	20
Magnesium	8590	8780	NA	NA	NA	NA	2	20
Manganese	286	292	NA	NA	NA	NA	2	20
DUPLICATE								
Laboratory ID:	06-223-03							
Arsenic	4.58	4.47	NA	NA	NA	NA	2	20
Chromium	ND	ND	NA	NA	NA	NA	NA	20
Nickel	ND	ND	NA	NA	NA	NA	NA	20

MATRIX SPIKES

Laboratory ID:	06-305-01									
	MS	MSD	MS	MSD	MS	MSD				
Iron	22900	22300	20000	20000	581	112	109	75-125	3	20
Magnesium	31500	30900	20000	20000	8590	115	112	75-125	2	20
Manganese	842	827	500	500	286	111	108	75-125	2	20
MATRIX SPIKES										
Laboratory ID:	06-223-03									
Arsenic	124	122	111	111	4.58	107	105	75-125	2	20
Chromium	120	120	111	111	ND	108	108	75-125	0	20
Nickel	125	125	111	111	15.0	99	99	75-125	0	20



Date of Report: July 15, 2022
 Samples Submitted: June 29, 2022
 Laboratory Reference: 2206-304
 Project: 6694-002-00 T700

DISSOLVED METALS
EPA 200.8/200.7
QUALITY CONTROL

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0705D1					
Calcium	ND	1100	EPA 200.7	6-27-22	7-7-22	
Iron	ND	56	EPA 200.7	6-27-22	7-7-22	
Magnesium	ND	1100	EPA 200.7	6-27-22	7-7-22	
Manganese	ND	11	EPA 200.7	6-27-22	7-7-22	
Potassium	ND	1100	EPA 200.7	6-27-22	7-7-22	
Sodium	ND	1100	EPA 200.7	6-27-22	7-7-22	

Laboratory ID:	MB0627F1					
Arsenic	ND	3.0	EPA 200.8		7-7-22	
Chromium	ND	10	EPA 200.8		7-7-22	
Nickel	ND	20	EPA 200.8		7-7-22	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	06-334-08							
	ORIG	DUP						
Calcium	19800	20000	NA	NA	NA	NA	1	20
Iron	942	953	NA	NA	NA	NA	1	20
Magnesium	11200	11300	NA	NA	NA	NA	1	20
Manganese	292	295	NA	NA	NA	NA	1	20
Potassium	10600	10700	NA	NA	NA	NA	1	20
Sodium	70600	69200	NA	NA	NA	NA	2	20

Laboratory ID:	06-304-01							
Arsenic	4.30	4.64	NA	NA	NA	NA	8	20
Chromium	ND	ND	NA	NA	NA	NA	NA	20
Nickel	ND	ND	NA	NA	NA	NA	NA	20

MATRIX SPIKES										
Laboratory ID:	06-334-08									
	MS	MSD	MS	MSD	MS	MSD	MS	MSD	RPD	RPD Limit
Calcium	43200	43000	22200	22200	19800	106	105	75-125	1	20
Iron	24600	24600	22200	22200	942	107	107	75-125	0	20
Magnesium	33500	33400	22200	22200	11200	101	100	75-125	0	20
Manganese	842	842	556	556	292	99	99	75-125	0	20
Potassium	33900	33900	22200	22200	10600	105	105	75-125	0	20
Sodium	88000	88200	22200	22200	70600	79	80	75-125	0	20

Laboratory ID:	06-304-01									
Arsenic	91.6	93.0	80.0	80.0	4.30	109	111	75-125	2	20
Chromium	78.2	79.2	80.0	80.0	ND	98	99	75-125	1	20
Nickel	77.6	78.4	80.0	80.0	ND	97	98	75-125	1	20



OnSite Environmental, Inc. 14648 NE 95th Street, Redmond, WA 98052 (425) 883-3881

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Date of Report: July 15, 2022
 Samples Submitted: June 29, 2022
 Laboratory Reference: 2206-304
 Project: 6694-002-00 T700

**TOTAL ALKALINITY
 SM 2320B
 QUALITY CONTROL**

Matrix: Water
 Units: mg CaCO₃/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0701W1					
Total Alkalinity	ND	2.0	SM 2320B	7-1-22	7-1-22	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	06-306-06							
	ORIG	DUP						
Total Alkalinity	82.0	82.0	NA	NA	NA	0	10	

SPIKE BLANK								
Laboratory ID:	SB0701W1							
	SB	SB		SB				
Total Alkalinity	94.0	100	NA	94	89-110	NA	NA	



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**BICARBONATE
 SM 2320B
 QUALITY CONTROL**

Matrix: Water
 Units: mg CaCO₃/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0701W1					
Bicarbonate	ND	2.0	SM 2320B	7-1-22	7-1-22	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	06-306-06							
	ORIG	DUP						
Bicarbonate	82.0	82.0	NA	NA	NA	0	10	

SPIKE BLANK								
Laboratory ID:	SB0701W1							
	SB	SB		SB				
Bicarbonate	94.0	100	NA	94	89-110	NA	NA	



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**CHLORIDE
 SM 4500-Cl E
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0711W1					
Chloride	ND	2.0	SM 4500-Cl E	7-11-22	7-11-22	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	06-306-06							
	ORIG	DUP						
Chloride	4.16	4.17	NA	NA	NA	0	11	

MATRIX SPIKE								
Laboratory ID:	06-306-06							
	MS	MS		MS				
Chloride	58.9	50.0	4.16	109	90-121	NA	NA	

SPIKE BLANK								
Laboratory ID:	SB0711W1							
	SB	SB		SB				
Chloride	54.4	50.0	NA	109	90-119	NA	NA	



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**NITRATE (as Nitrogen)
 EPA 353.2
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L-N

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0629W1					
Nitrate	ND	0.050	EPA 353.2	6-29-22	6-29-22	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	06-292-03							
	ORIG	DUP						
Nitrate	0.136	0.102	NA	NA	NA	29	10	C

MATRIX SPIKE								
Laboratory ID:	06-292-03							
	MS	MS		MS				
Nitrate	2.11	2.00	0.136	99	88-125	NA	NA	

SPIKE BLANK								
Laboratory ID:	SB0629W1							
	SB	SB		SB		0.3333		
Nitrate	2.23	2.00	NA	112	90-120	NA	NA	



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**SULFATE
 ASTM D516-11
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0707W1					
Sulfate	ND	5.0	ASTM D516-11	7-7-22	7-7-02	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	06-306-06							
	ORIG	DUP						
Sulfate	12.7	12.6	NA	NA	NA	1	10	

MATRIX SPIKE								
Laboratory ID:	06-306-06							
	MS	MS		MS				
Sulfate	21.9	10.0	12.7	92	72-128	NA	NA	

SPIKE BLANK								
Laboratory ID:	SB0707W1							
	SB	SB		SB				
Sulfate	10.4	10.0	NA	104	85-114	NA	NA	



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AMMONIA (as Nitrogen)
SM 4500-NH₃ D
QUALITY CONTROL

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0708W1					
Ammonia	ND	0.050	SM 4500-NH3 D	7-8-22	7-8-22	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	06-292-03							
	ORIG	DUP						
Ammonia	2.83	2.86	NA	NA	NA	1	15	

MATRIX SPIKE								
Laboratory ID:	06-292-03							
	MS	MS		MS				
Ammonia	23.3	20.0	2.83	102	87-110	NA	NA	

SPIKE BLANK								
Laboratory ID:	SB0708W1							
	SB	SB		SB				
Ammonia	4.44	5.00	NA	89	88-110	NA	NA	



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**TOTAL ORGANIC CARBON
 SM 5310B
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0630W1					
Total Organic Carbon	ND	1.0	SM 5310B	6-30-22	6-30-22	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	06-292-03							
	ORIG	DUP						
Total Organic Carbon	23.8	23.8	NA	NA	NA	0	12	

MATRIX SPIKE								
Laboratory ID:	06-292-03							
	MS	MS		MS				
Total Organic Carbon	33.4	10.0	23.8	96	80-120	NA	NA	

SPIKE BLANK								
Laboratory ID:	SB0630W1							
	SB	SB		SB				
Total Organic Carbon	10.1	10.0	NA	101	80-118	NA	NA	



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 Laboratory Reference: 2206-304
 Project: 6694-002-00 T700

**TOTAL DISSOLVED SOLIDS
 SM 2540C
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0705W1					
Total Dissolved Solids	ND	13	SM 2540C	7-5-22	7-7-22	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	06-306-06							
	ORIG	DUP						
Total Dissolved Solids	128	125	NA	NA	NA	NA	2	23

SPIKE BLANK								
Laboratory ID:	SB0705W1							
	SB	SB		SB				
Total Dissolved Solids	448	500	NA	90	89-110	NA	NA	





Data Qualifiers and Abbreviations

- A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.
- B - The analyte indicated was also found in the blank sample.
- C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.
- E - The value reported exceeds the quantitation range and is an estimate.
- F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.
- H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.
- I - Compound recovery is outside of the control limits.
- J - The value reported was below the practical quantitation limit. The value is an estimate.
- K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.
- L - The RPD is outside of the control limits.
- M - Hydrocarbons in the gasoline range are impacting the diesel range result.
- M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.
- N - Hydrocarbons in the lube oil range are impacting the diesel range result.
- N1 - Hydrocarbons in diesel range are impacting lube oil range results.
- O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.
- P - The RPD of the detected concentrations between the two columns is greater than 40.
- Q - Surrogate recovery is outside of the control limits.
- S - Surrogate recovery data is not available due to the necessary dilution of the sample.
- T - The sample chromatogram is not similar to a typical _____.
- U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
- U1 - The practical quantitation limit is elevated due to interferences present in the sample.
- V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.
- W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.
- X - Sample extract treated with a mercury cleanup procedure.
- X1 - Sample extract treated with a sulfuric acid/silica gel cleanup procedure.
- Y - The calibration verification for this analyte exceeded the 20% drift specified in methods 8260 & 8270, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.

Z -

ND - Not Detected at PQL
 PQL - Practical Quantitation Limit
 RPD - Relative Percent Difference





Analytical Laboratory Testing Services
 14648 NE 95th Street • Redmond, WA 98052
 Phone: (425) 883-3881 • www.onsite-env.com

Chain of Custody

Company: 110-East CUEJ

Project Number: 66941-005-02

Project Name: 110-East

Project Manager: Warren Legue

Sampled by: WDS

Turnaround Request (in working days)

(Check One)

Same Day 1 Day

2 Days 3 Days

Standard (7 Days)

_____ (other)

Laboratory Number: **06-304**

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX (8021 <input type="checkbox"/> 8260 <input type="checkbox"/>)	NWTPH-Gx	NWTPH-Dx (Acid / SG Clean-up <input type="checkbox"/>)	Volatiles 8260	Halogenated Volatiles 8260	EDB EPA 8011 (Waters Only)	Semivolatiles 8270/SIM (with low-level PAHs)	PAHs 8270/SIM (low-level)	PCBs 8082	Organochlorine Pesticides 8081	Organophosphorus Pesticides 8270/SIM	Chlorinated Acid Herbicides 8151	Total PCRA Metals <u>of Dissolved*</u>	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664	Geochem Parameters <u>X</u>	Leachate Parameters <u>X</u>	Flow Cell for before <u>X</u>	Moisture <u>X</u>
1	MW-2-20220628	6/28/22	12:45	water	6															X			X	X	X	

	Signature	Company	Date	Time	Comments/Special Instructions
Relinquished	<i>WDS</i>	CUEJ	6/28/22	1330	* Total and Dissolved = As, Cr, Fe, Mn, Ni) ** Leachate parameters = Ammonia, TOC, TDS Geochem parameters = Alkalinity, bicarbonate, Dissolved calcium, chloride total and Dissolved magnesium manganese, nitrate, Dissolved phosphorus, dissolved sodium, sulfate
Received	<i>Joshua</i>	Alpha	6/29/22	9:28	
Relinquished	<i>Joshua</i>	Alpha	6/29/22	10:05	
Received	<i>[Signature]</i>	<i>[Signature]</i>	6/29/22	1005	
Relinquished	<i>[Signature]</i>				
Received					
Reviewed/Date		Reviewed/Date			Data Package: Standard <input type="checkbox"/> Level III <input type="checkbox"/> Level IV <input type="checkbox"/> Chromatograms with final report <input type="checkbox"/> Electronic Data Deliverables (EDDs) <input type="checkbox"/>



14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

July 15, 2022

Garrett Leque
GeoEngineers, Inc.
554 West Bakerview Road
Bellingham, WA 98226

Re: Analytical Data for Project 6694-002-05 T700
Laboratory Reference No. 2206-305

Dear Garrett:

Enclosed are the analytical results and associated quality control data for samples submitted on June 29, 2022.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

A handwritten signature in black ink, appearing to read "DB", with a horizontal line extending to the right.

David Baumeister
Project Manager

Enclosures



Date of Report: July 15, 2022
Samples Submitted: June 29, 2022
Laboratory Reference: 2206-305
Project: 6694-002-00 T700

Case Narrative

Samples were collected on June 28, 2022 and received by the laboratory on June 29, 2022. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.



Date of Report: July 15, 2022
Samples Submitted: June 29, 2022
Laboratory Reference: 2206-305
Project: 6694-002-00 T700

ANALYTICAL REPORT FOR SAMPLES

Client ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
220628-MW-1	06-305-01	Water	6-28-22	6-29-22	

DRAFT



Date of Report: July 15, 2022
 Samples Submitted: June 29, 2022
 Laboratory Reference: 2206-305
 Project: 6694-002-00 T700

GASOLINE RANGE ORGANICS
NWTPH-Gx

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	220628-MW-1					
Laboratory ID:	06-305-01					
Gasoline	ND	100	NWTPH-Gx	6-30-22	6-30-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
Fluorobenzene	89	65-122				



Date of Report: July 15, 2022
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DIESEL AND HEAVY OIL RANGE ORGANICS
NWTPH-Dx

Matrix: Water
 Units: mg/L (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	220628-MW-1					
Laboratory ID:	06-305-01					
Diesel Range Organics	ND	0.10	NWTPH-Dx	6-30-22	7-1-22	
Lube Oil Range Organics	ND	0.20	NWTPH-Dx	6-30-22	7-1-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	82	50-150				



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VOLATILE ORGANICS EPA 8260D

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Matrix: Water

Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	220628-MW-1					
Laboratory ID:	06-305-01					
Dichlorodifluoromethane	ND	0.20	EPA 8260D	7-5-22	7-5-22	
Chloromethane	ND	1.0	EPA 8260D	7-5-22	7-5-22	
Vinyl Chloride	ND	0.20	EPA 8260D	7-5-22	7-5-22	
Bromomethane	ND	1.0	EPA 8260D	7-5-22	7-5-22	
Chloroethane	ND	1.0	EPA 8260D	7-5-22	7-5-22	
Trichlorofluoromethane	ND	0.20	EPA 8260D	7-5-22	7-5-22	
1,1-Dichloroethene	ND	0.20	EPA 8260D	7-5-22	7-5-22	
Acetone	ND	5.0	EPA 8260D	7-5-22	7-5-22	
Iodomethane	ND	5.0	EPA 8260D	7-5-22	7-5-22	
Carbon Disulfide	ND	0.20	EPA 8260D	7-5-22	7-5-22	
Methylene Chloride	ND	1.0	EPA 8260D	7-5-22	7-5-22	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	7-5-22	7-5-22	
Methyl t-Butyl Ether	ND	0.20	EPA 8260D	7-5-22	7-5-22	
1,1-Dichloroethane	ND	0.20	EPA 8260D	7-5-22	7-5-22	
Vinyl Acetate	ND	1.0	EPA 8260D	7-5-22	7-5-22	
2,2-Dichloropropane	ND	0.20	EPA 8260D	7-5-22	7-5-22	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	7-5-22	7-5-22	
2-Butanone	ND	5.0	EPA 8260D	7-5-22	7-5-22	
Bromochloromethane	ND	0.20	EPA 8260D	7-5-22	7-5-22	
Chloroform	ND	0.20	EPA 8260D	7-5-22	7-5-22	
1,1,1-Trichloroethane	ND	0.20	EPA 8260D	7-5-22	7-5-22	
Carbon Tetrachloride	ND	0.20	EPA 8260D	7-5-22	7-5-22	
1,1-Dichloropropene	ND	0.20	EPA 8260D	7-5-22	7-5-22	
Benzene	ND	0.20	EPA 8260D	7-5-22	7-5-22	
1,2-Dichloroethane	ND	0.20	EPA 8260D	7-5-22	7-5-22	
Trichloroethene	ND	0.20	EPA 8260D	7-5-22	7-5-22	
1,2-Dichloropropane	ND	0.20	EPA 8260D	7-5-22	7-5-22	
Dibromomethane	ND	0.20	EPA 8260D	7-5-22	7-5-22	
Bromodichloromethane	ND	0.20	EPA 8260D	7-5-22	7-5-22	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260D	7-5-22	7-5-22	
Methyl Isobutyl Ketone	ND	2.0	EPA 8260D	7-5-22	7-5-22	
Toluene	ND	1.0	EPA 8260D	7-5-22	7-5-22	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260D	7-5-22	7-5-22	



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VOLATILE ORGANICS EPA 8260D

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	220628-MW-1					
Laboratory ID:	06-305-01					
1,1,2-Trichloroethane	ND	0.20	EPA 8260D	7-5-22	7-5-22	
Tetrachloroethene	ND	0.20	EPA 8260D	7-5-22	7-5-22	
1,3-Dichloropropane	ND	0.20	EPA 8260D	7-5-22	7-5-22	
2-Hexanone	ND	2.0	EPA 8260D	7-5-22	7-5-22	
Dibromochloromethane	ND	0.20	EPA 8260D	7-5-22	7-5-22	
1,2-Dibromoethane	ND	0.20	EPA 8260D	7-5-22	7-5-22	
Chlorobenzene	ND	0.20	EPA 8260D	7-5-22	7-5-22	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260D	7-5-22	7-5-22	
Ethylbenzene	ND	0.20	EPA 8260D	7-5-22	7-5-22	
m,p-Xylene	ND	0.40	EPA 8260D	7-5-22	7-5-22	
o-Xylene	ND	0.20	EPA 8260D	7-5-22	7-5-22	
Styrene	ND	0.20	EPA 8260D	7-5-22	7-5-22	
Bromoform	ND	1.0	EPA 8260D	7-5-22	7-5-22	
Isopropylbenzene	ND	0.20	EPA 8260D	7-5-22	7-5-22	
Bromobenzene	ND	0.20	EPA 8260D	7-5-22	7-5-22	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260D	7-5-22	7-5-22	
1,2,3-Trichloropropane	ND	0.20	EPA 8260D	7-5-22	7-5-22	
n-Propylbenzene	ND	0.20	EPA 8260D	7-5-22	7-5-22	
2-Chlorotoluene	ND	0.20	EPA 8260D	7-5-22	7-5-22	
4-Chlorotoluene	ND	0.20	EPA 8260D	7-5-22	7-5-22	
1,3,5-Trimethylbenzene	ND	0.20	EPA 8260D	7-5-22	7-5-22	
tert-Butylbenzene	ND	0.20	EPA 8260D	7-5-22	7-5-22	
1,2,4-Trimethylbenzene	ND	0.20	EPA 8260D	7-5-22	7-5-22	
sec-Butylbenzene	ND	0.20	EPA 8260D	7-5-22	7-5-22	
1,3-Dichlorobenzene	ND	0.20	EPA 8260D	7-5-22	7-5-22	
p-Isopropyltoluene	ND	0.20	EPA 8260D	7-5-22	7-5-22	
1,4-Dichlorobenzene	ND	0.20	EPA 8260D	7-5-22	7-5-22	
1,2-Dichlorobenzene	ND	0.20	EPA 8260D	7-5-22	7-5-22	
n-Butylbenzene	ND	0.20	EPA 8260D	7-5-22	7-5-22	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260D	7-5-22	7-5-22	
1,2,4-Trichlorobenzene	ND	1.0	EPA 8260D	7-5-22	7-5-22	
Hexachlorobutadiene	ND	1.0	EPA 8260D	7-5-22	7-5-22	
Naphthalene	ND	1.0	EPA 8260D	7-5-22	7-5-22	
1,2,3-Trichlorobenzene	ND	1.0	EPA 8260D	7-5-22	7-5-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>107</i>	<i>75-127</i>				
<i>Toluene-d8</i>	<i>99</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>100</i>	<i>78-125</i>				



Date of Report: July 15, 2022
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 Project: 6694-002-00 T700

SEMIVOLATILE ORGANICS EPA 8270E/SIM
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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	220628-MW-1					
Laboratory ID:	06-305-01					
n-Nitrosodimethylamine	ND	0.95	EPA 8270E	7-1-22	7-1-22	
Pyridine	ND	0.95	EPA 8270E	7-1-22	7-1-22	
Phenol	ND	0.95	EPA 8270E	7-1-22	7-1-22	
Aniline	ND	4.8	EPA 8270E	7-1-22	7-1-22	
bis(2-Chloroethyl)ether	ND	0.95	EPA 8270E	7-1-22	7-1-22	
2-Chlorophenol	ND	0.95	EPA 8270E	7-1-22	7-1-22	
1,3-Dichlorobenzene	ND	0.95	EPA 8270E	7-1-22	7-1-22	
1,4-Dichlorobenzene	ND	0.95	EPA 8270E	7-1-22	7-1-22	
Benzyl alcohol	ND	0.95	EPA 8270E	7-1-22	7-1-22	
1,2-Dichlorobenzene	ND	0.95	EPA 8270E	7-1-22	7-1-22	
2-Methylphenol (o-Cresol)	ND	0.95	EPA 8270E	7-1-22	7-1-22	
bis(2-Chloroisopropyl)ether	ND	0.95	EPA 8270E	7-1-22	7-1-22	
(3+4)-Methylphenol (m,p-Cresol)	ND	0.95	EPA 8270E	7-1-22	7-1-22	
n-Nitroso-di-n-propylamine	ND	0.95	EPA 8270E	7-1-22	7-1-22	
Hexachloroethane	ND	0.95	EPA 8270E	7-1-22	7-1-22	
Nitrobenzene	ND	0.95	EPA 8270E	7-1-22	7-1-22	
Isophorone	ND	0.95	EPA 8270E	7-1-22	7-1-22	
2-Nitrophenol	ND	0.95	EPA 8270E	7-1-22	7-1-22	
2,4-Dimethylphenol	ND	0.95	EPA 8270E	7-1-22	7-1-22	
bis(2-Chloroethoxy)methane	ND	0.95	EPA 8270E	7-1-22	7-1-22	
2,4-Dichlorophenol	ND	0.95	EPA 8270E	7-1-22	7-1-22	
1,2,4-Trichlorobenzene	ND	0.95	EPA 8270E	7-1-22	7-1-22	
Naphthalene	ND	0.095	EPA 8270E/SIM	7-1-22	7-1-22	
4-Chloroaniline	ND	0.95	EPA 8270E	7-1-22	7-1-22	
Hexachlorobutadiene	ND	0.95	EPA 8270E	7-1-22	7-1-22	
4-Chloro-3-methylphenol	ND	0.95	EPA 8270E	7-1-22	7-1-22	
2-Methylnaphthalene	ND	0.095	EPA 8270E/SIM	7-1-22	7-1-22	
1-Methylnaphthalene	ND	0.095	EPA 8270E/SIM	7-1-22	7-1-22	
Hexachlorocyclopentadiene	ND	1.5	EPA 8270E	7-1-22	7-1-22	
2,4,6-Trichlorophenol	ND	0.95	EPA 8270E	7-1-22	7-1-22	
2,3-Dichloroaniline	ND	0.95	EPA 8270E	7-1-22	7-1-22	
2,4,5-Trichlorophenol	ND	0.95	EPA 8270E	7-1-22	7-1-22	
2-Chloronaphthalene	ND	0.95	EPA 8270E	7-1-22	7-1-22	
2-Nitroaniline	ND	0.95	EPA 8270E	7-1-22	7-1-22	
1,4-Dinitrobenzene	ND	0.95	EPA 8270E	7-1-22	7-1-22	
Dimethylphthalate	ND	4.8	EPA 8270E	7-1-22	7-1-22	
1,3-Dinitrobenzene	ND	0.95	EPA 8270E	7-1-22	7-1-22	
2,6-Dinitrotoluene	ND	0.95	EPA 8270E	7-1-22	7-1-22	
1,2-Dinitrobenzene	ND	0.95	EPA 8270E	7-1-22	7-1-22	
Acenaphthylene	ND	0.095	EPA 8270E/SIM	7-1-22	7-1-22	
3-Nitroaniline	ND	0.95	EPA 8270E	7-1-22	7-1-22	



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SEMIVOLATILE ORGANICS EPA 8270E/SIM
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	220628-MW-1					
Laboratory ID:	06-305-01					
2,4-Dinitrophenol	ND	6.3	EPA 8270E	7-1-22	7-1-22	
Acenaphthene	ND	0.095	EPA 8270E/SIM	7-1-22	7-1-22	
4-Nitrophenol	ND	4.8	EPA 8270E	7-1-22	7-1-22	
2,4-Dinitrotoluene	ND	0.95	EPA 8270E	7-1-22	7-1-22	
Dibenzofuran	ND	0.95	EPA 8270E	7-1-22	7-1-22	
2,3,5,6-Tetrachlorophenol	ND	0.95	EPA 8270E	7-1-22	7-1-22	
2,3,4,6-Tetrachlorophenol	ND	0.95	EPA 8270E	7-1-22	7-1-22	
Diethylphthalate	ND	0.95	EPA 8270E	7-1-22	7-1-22	
4-Chlorophenyl-phenylether	ND	0.95	EPA 8270E	7-1-22	7-1-22	
4-Nitroaniline	ND	0.95	EPA 8270E	7-1-22	7-1-22	
Fluorene	ND	0.095	EPA 8270E/SIM	7-1-22	7-1-22	
4,6-Dinitro-2-methylphenol	ND	6.5	EPA 8270E	7-1-22	7-1-22	
n-Nitrosodiphenylamine	ND	0.95	EPA 8270E	7-1-22	7-1-22	
1,2-Diphenylhydrazine	ND	0.95	EPA 8270E	7-1-22	7-1-22	
4-Bromophenyl-phenylether	ND	0.95	EPA 8270E	7-1-22	7-1-22	
Hexachlorobenzene	ND	0.95	EPA 8270E	7-1-22	7-1-22	
Pentachlorophenol	ND	6.7	EPA 8270E	7-1-22	7-1-22	
Phenanthrene	ND	0.095	EPA 8270E/SIM	7-1-22	7-1-22	
Anthracene	ND	0.095	EPA 8270E/SIM	7-1-22	7-1-22	
Carbazole	ND	0.95	EPA 8270E	7-1-22	7-1-22	
Di-n-butylphthalate	ND	4.8	EPA 8270E	7-1-22	7-1-22	
Fluoranthene	ND	0.095	EPA 8270E/SIM	7-1-22	7-1-22	
Pyrene	ND	0.095	EPA 8270E/SIM	7-1-22	7-1-22	
Butylbenzylphthalate	ND	0.95	EPA 8270E	7-1-22	7-1-22	
bis(2-Ethylhexyl)adipate	ND	4.8	EPA 8270E	7-1-22	7-1-22	
3,3'-Dichlorobenzidine	ND	4.8	EPA 8270E	7-1-22	7-1-22	
Benzo[a]anthracene	ND	0.0095	EPA 8270E/SIM	7-1-22	7-1-22	
Chrysene	ND	0.0095	EPA 8270E/SIM	7-1-22	7-1-22	
bis(2-Ethylhexyl)phthalate	ND	4.8	EPA 8270E	7-1-22	7-1-22	
Di-n-octylphthalate	ND	0.95	EPA 8270E	7-1-22	7-1-22	
Benzo[b]fluoranthene	ND	0.0095	EPA 8270E/SIM	7-1-22	7-1-22	
Benzo(j,k)fluoranthene	ND	0.0095	EPA 8270E/SIM	7-1-22	7-1-22	
Benzo[a]pyrene	ND	0.0095	EPA 8270E/SIM	7-1-22	7-1-22	
Indeno[1,2,3-cd]pyrene	ND	0.0095	EPA 8270E/SIM	7-1-22	7-1-22	
Dibenz[a,h]anthracene	ND	0.0095	EPA 8270E/SIM	7-1-22	7-1-22	
Benzo[g,h,i]perylene	ND	0.0095	EPA 8270E/SIM	7-1-22	7-1-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
2-Fluorophenol	40	10 - 81				
Phenol-d6	29	10 - 86				
Nitrobenzene-d5	63	27 - 105				
2-Fluorobiphenyl	65	33 - 100				
2,4,6-Tribromophenol	82	25 - 124				
Terphenyl-d14	66	40 - 116				



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PCBs EPA 8082A

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	220628-MW-1					
Laboratory ID:	06-305-01					
Aroclor 1016	ND	0.048	EPA 8082A	6-30-22	6-30-22	
Aroclor 1221	ND	0.048	EPA 8082A	6-30-22	6-30-22	
Aroclor 1232	ND	0.048	EPA 8082A	6-30-22	6-30-22	
Aroclor 1242	ND	0.048	EPA 8082A	6-30-22	6-30-22	
Aroclor 1248	ND	0.048	EPA 8082A	6-30-22	6-30-22	
Aroclor 1254	ND	0.048	EPA 8082A	6-30-22	6-30-22	
Aroclor 1260	ND	0.048	EPA 8082A	6-30-22	6-30-22	
Aroclor 1262	ND	0.048	EPA 8082A	6-30-22	6-30-22	
Aroclor 1268	ND	0.048	EPA 8082A	6-30-22	6-30-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>DCB</i>	92	49-133				



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**ORGANOCHLORINE
 PESTICIDES EPA 8081B**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	220628-MW-1					
Laboratory ID:	06-305-01					
alpha-BHC	ND	0.0048	EPA 8081B	6-30-22	6-30-22	
gamma-BHC	ND	0.0048	EPA 8081B	6-30-22	6-30-22	
beta-BHC	ND	0.0048	EPA 8081B	6-30-22	6-30-22	
delta-BHC	ND	0.0048	EPA 8081B	6-30-22	6-30-22	
Heptachlor	ND	0.0048	EPA 8081B	6-30-22	6-30-22	
Aldrin	ND	0.0019	EPA 8081B	6-30-22	6-30-22	
Heptachlor epoxide	ND	0.0029	EPA 8081B	6-30-22	6-30-22	
gamma-Chlordane	ND	0.0048	EPA 8081B	6-30-22	6-30-22	
alpha-Chlordane	ND	0.0048	EPA 8081B	6-30-22	6-30-22	
4,4'-DDE	ND	0.0048	EPA 8081B	6-30-22	6-30-22	
Endosulfan I	ND	0.0048	EPA 8081B	6-30-22	6-30-22	
Dieldrin	ND	0.0048	EPA 8081B	6-30-22	6-30-22	
Endrin	ND	0.0048	EPA 8081B	6-30-22	6-30-22	
4,4'-DDD	ND	0.0048	EPA 8081B	6-30-22	6-30-22	
Endosulfan II	ND	0.0048	EPA 8081B	6-30-22	6-30-22	
4,4'-DDT	ND	0.0048	EPA 8081B	6-30-22	6-30-22	
Endrin aldehyde	ND	0.0048	EPA 8081B	6-30-22	6-30-22	
Methoxychlor	ND	0.0095	EPA 8081B	6-30-22	6-30-22	
Endosulfan sulfate	ND	0.0048	EPA 8081B	6-30-22	6-30-22	
Endrin ketone	ND	0.019	EPA 8081B	6-30-22	6-30-22	
Toxaphene	ND	0.048	EPA 8081B	6-30-22	6-30-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control limits</i>				
<i>Tetrachloro-m-xylene</i>	62	21-110				
<i>Decachlorobiphenyl</i>	76	42-113				



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TOTAL METALS
EPA 200.8/200.7/7470A

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	220628-MW-1					
Laboratory ID:	06-305-01					
Arsenic	5.7	3.3	EPA 200.8	7-6-22	7-7-22	
Cadmium	ND	4.4	EPA 200.8	7-6-22	7-7-22	
Chromium	ND	11	EPA 200.8	7-6-22	7-7-22	
Copper	ND	11	EPA 200.8	7-6-22	7-7-22	
Iron	580	50	EPA 200.7	7-7-22	7-7-22	
Lead	ND	1.1	EPA 200.8	7-6-22	7-7-22	
Magnesium	8600	1000	EPA 200.7	7-7-22	7-7-22	
Manganese	290	10	EPA 200.7	7-7-22	7-7-22	
Mercury	ND	0.025	EPA 7470A	7-1-22	7-1-22	
Nickel	ND	22	EPA 200.8	7-6-22	7-7-22	
Selenium	ND	5.6	EPA 200.8	7-6-22	7-7-22	



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DISSOLVED METALS
EPA 200.8/200.7/7470A

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	220628-MW-1					
Laboratory ID:	06-305-01					
Arsenic	5.4	3.0	EPA 200.8		7-7-22	
Cadmium	ND	4.0	EPA 200.8		7-7-22	
Calcium	21000	1100	EPA 200.7		7-6-22	
Chromium	ND	10	EPA 200.8		7-7-22	
Copper	ND	10	EPA 200.8		7-7-22	
Iron	220	56	EPA 200.7		7-6-22	
Lead	ND	1.0	EPA 200.8		7-7-22	
Magnesium	9900	1100	EPA 200.7		7-6-22	
Manganese	330	11	EPA 200.7		7-6-22	
Mercury	ND	0.025	EPA 7470A		7-8-22	
Nickel	ND	20	EPA 200.8		7-7-22	
Potassium	2800	1100	EPA 200.7		7-6-22	
Selenium	ND	5.0	EPA 200.8		7-7-22	
Sodium	6100	1100	EPA 200.7		7-6-22	



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CHLORIDE
SM 4500-Cl E

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	220628-MW-1					
Laboratory ID:	06-305-01					
Chloride	3.0	2.0	SM 4500-Cl E	7-11-22	7-11-22	



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NITRATE (as Nitrogen)
EPA 353.2

Matrix: Water
Units: mg/L-N

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	220628-MW-1					
Laboratory ID:	06-305-01					
Nitrate	ND	0.050	EPA 353.2	6-29-22	6-29-22	



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SULFATE
ASTM D516-11

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	220628-MW-1					
Laboratory ID:	06-305-01					
Sulfate	ND	5.0	ASTM D516-11	7-7-22	7-7-02	



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AMMONIA (as Nitrogen)
SM 4500-NH₃ D

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	220628-MW-1					
Laboratory ID:	06-305-01					
Ammonia	0.18	0.050	SM 4500-NH3 D	7-8-22	7-8-22	



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**TOTAL ORGANIC CARBON
SM 5310B**

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	220628-MW-1					
Laboratory ID:	06-305-01					
Total Organic Carbon	ND	1.0	SM 5310B	7-12-22	7-12-22	



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**TOTAL DISSOLVED SOLIDS
 SM 2540C**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	220628-MW-1					
Laboratory ID:	06-305-01					
Total Dissolved Solids	130	13	SM 2540C	7-5-22	7-7-22	



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TOTAL ALKALINITY
SM 2320B

Matrix: Water
 Units: mg CaCO₃/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	220628-MW-1					
Laboratory ID:	06-305-01					
Total Alkalinity	92	2.0	SM 2320B	7-1-22	7-1-22	



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**BICARBONATE
SM 2320B**

Matrix: Water
Units: mg CaCO₃/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	220628-MW-1					
Laboratory ID:	06-305-01					
Bicarbonate	92	2.0	SM 2320B	7-1-22	7-1-22	



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**GASOLINE RANGE ORGANICS
 NWTPH-Gx
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0630W1					
Gasoline	ND	100	NWTPH-Gx	6-30-22	6-30-22	
Surrogate:	<i>Percent Recovery</i>		<i>Control Limits</i>			
Fluorobenzene	87	65-122				

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	06-253-06							
	ORIG	DUP						
Gasoline	ND	ND	NA	NA	NA	NA	30	
Surrogate:								
Fluorobenzene				88	89	65-122		



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**DIESEL AND HEAVY OIL RANGE ORGANICS
 NWTPH-Dx
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0630W1					
Diesel Range Organics	ND	0.067	NWTPH-Dx	6-30-22	6-30-22	
Lube Oil Range Organics	ND	0.13	NWTPH-Dx	6-30-22	6-30-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	101	50-150				

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	SB0630W1							
	ORIG	DUP						
Diesel Fuel #2	0.443	0.418	NA	NA	NA	NA	6	NA
<i>Surrogate:</i>								
<i>o-Terphenyl</i>				107	106	50-150		



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**VOLATILE ORGANICS EPA 8260D
 QUALITY CONTROL**

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Matrix: Water

Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0705W1					
Dichlorodifluoromethane	ND	0.20	EPA 8260D	7-5-22	7-5-22	
Chloromethane	ND	1.0	EPA 8260D	7-5-22	7-5-22	
Vinyl Chloride	ND	0.20	EPA 8260D	7-5-22	7-5-22	
Bromomethane	ND	1.0	EPA 8260D	7-5-22	7-5-22	
Chloroethane	ND	1.0	EPA 8260D	7-5-22	7-5-22	
Trichlorofluoromethane	ND	0.20	EPA 8260D	7-5-22	7-5-22	
1,1-Dichloroethene	ND	0.20	EPA 8260D	7-5-22	7-5-22	
Acetone	ND	5.0	EPA 8260D	7-5-22	7-5-22	
Iodomethane	ND	5.0	EPA 8260D	7-5-22	7-5-22	
Carbon Disulfide	ND	0.20	EPA 8260D	7-5-22	7-5-22	
Methylene Chloride	ND	1.0	EPA 8260D	7-5-22	7-5-22	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	7-5-22	7-5-22	
Methyl t-Butyl Ether	ND	0.20	EPA 8260D	7-5-22	7-5-22	
1,1-Dichloroethane	ND	0.20	EPA 8260D	7-5-22	7-5-22	
Vinyl Acetate	ND	1.0	EPA 8260D	7-5-22	7-5-22	
2,2-Dichloropropane	ND	0.20	EPA 8260D	7-5-22	7-5-22	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	7-5-22	7-5-22	
2-Butanone	ND	5.0	EPA 8260D	7-5-22	7-5-22	
Bromochloromethane	ND	0.20	EPA 8260D	7-5-22	7-5-22	
Chloroform	ND	0.20	EPA 8260D	7-5-22	7-5-22	
1,1,1-Trichloroethane	ND	0.20	EPA 8260D	7-5-22	7-5-22	
Carbon Tetrachloride	ND	0.20	EPA 8260D	7-5-22	7-5-22	
1,1-Dichloropropene	ND	0.20	EPA 8260D	7-5-22	7-5-22	
Benzene	ND	0.20	EPA 8260D	7-5-22	7-5-22	
1,2-Dichloroethane	ND	0.20	EPA 8260D	7-5-22	7-5-22	
Trichloroethene	ND	0.20	EPA 8260D	7-5-22	7-5-22	
1,2-Dichloropropane	ND	0.20	EPA 8260D	7-5-22	7-5-22	
Dibromomethane	ND	0.20	EPA 8260D	7-5-22	7-5-22	
Bromodichloromethane	ND	0.20	EPA 8260D	7-5-22	7-5-22	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260D	7-5-22	7-5-22	
Methyl Isobutyl Ketone	ND	2.0	EPA 8260D	7-5-22	7-5-22	
Toluene	ND	1.0	EPA 8260D	7-5-22	7-5-22	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260D	7-5-22	7-5-22	



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**VOLATILE ORGANICS EPA 8260D
 QUALITY CONTROL**

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0705W1					
1,1,2-Trichloroethane	ND	0.20	EPA 8260D	7-5-22	7-5-22	
Tetrachloroethene	ND	0.20	EPA 8260D	7-5-22	7-5-22	
1,3-Dichloropropane	ND	0.20	EPA 8260D	7-5-22	7-5-22	
2-Hexanone	ND	2.0	EPA 8260D	7-5-22	7-5-22	
Dibromochloromethane	ND	0.20	EPA 8260D	7-5-22	7-5-22	
1,2-Dibromoethane	ND	0.20	EPA 8260D	7-5-22	7-5-22	
Chlorobenzene	ND	0.20	EPA 8260D	7-5-22	7-5-22	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260D	7-5-22	7-5-22	
Ethylbenzene	ND	0.20	EPA 8260D	7-5-22	7-5-22	
m,p-Xylene	ND	0.40	EPA 8260D	7-5-22	7-5-22	
o-Xylene	ND	0.20	EPA 8260D	7-5-22	7-5-22	
Styrene	ND	0.20	EPA 8260D	7-5-22	7-5-22	
Bromoform	ND	1.0	EPA 8260D	7-5-22	7-5-22	
Isopropylbenzene	ND	0.20	EPA 8260D	7-5-22	7-5-22	
Bromobenzene	ND	0.20	EPA 8260D	7-5-22	7-5-22	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260D	7-5-22	7-5-22	
1,2,3-Trichloropropane	ND	0.20	EPA 8260D	7-5-22	7-5-22	
n-Propylbenzene	ND	0.20	EPA 8260D	7-5-22	7-5-22	
2-Chlorotoluene	ND	0.20	EPA 8260D	7-5-22	7-5-22	
4-Chlorotoluene	ND	0.20	EPA 8260D	7-5-22	7-5-22	
1,3,5-Trimethylbenzene	ND	0.20	EPA 8260D	7-5-22	7-5-22	
tert-Butylbenzene	ND	0.20	EPA 8260D	7-5-22	7-5-22	
1,2,4-Trimethylbenzene	ND	0.20	EPA 8260D	7-5-22	7-5-22	
sec-Butylbenzene	ND	0.20	EPA 8260D	7-5-22	7-5-22	
1,3-Dichlorobenzene	ND	0.20	EPA 8260D	7-5-22	7-5-22	
p-Isopropyltoluene	ND	0.20	EPA 8260D	7-5-22	7-5-22	
1,4-Dichlorobenzene	ND	0.20	EPA 8260D	7-5-22	7-5-22	
1,2-Dichlorobenzene	ND	0.20	EPA 8260D	7-5-22	7-5-22	
n-Butylbenzene	ND	0.20	EPA 8260D	7-5-22	7-5-22	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260D	7-5-22	7-5-22	
1,2,4-Trichlorobenzene	ND	1.0	EPA 8260D	7-5-22	7-5-22	
Hexachlorobutadiene	ND	1.0	EPA 8260D	7-5-22	7-5-22	
Naphthalene	ND	1.0	EPA 8260D	7-5-22	7-5-22	
1,2,3-Trichlorobenzene	ND	1.0	EPA 8260D	7-5-22	7-5-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>104</i>	<i>75-127</i>				
<i>Toluene-d8</i>	<i>99</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>100</i>	<i>78-125</i>				



Date of Report: July 15, 2022
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 Project: 6694-002-00 T700

**VOLATILE ORGANICS EPA 8260D
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L

Analyte	Result		Spike Level		Source	Percent	Recovery	RPD		
					Result	Recovery	Limits	RPD	Limit	Flags
MATRIX SPIKES										
Laboratory ID:	06-306-06									
	MS	MSD	MS	MSD		MS	MSD			
1,1-Dichloroethene	51.0	48.9	50.0	50.0	ND	102	98	76-124	4	15
Benzene	51.9	51.3	50.0	50.0	ND	104	103	74-122	1	16
Trichloroethene	186	182	50.0	50.0	128	116	108	79-129	2	17
Toluene	52.6	52.6	50.0	50.0	ND	105	105	80-120	0	19
Chlorobenzene	53.8	54.1	50.0	50.0	ND	108	108	78-120	1	16
<i>Surrogate:</i>										
Dibromofluoromethane						102	102	75-127		
Toluene-d8						100	101	80-127		
4-Bromofluorobenzene						102	102	78-125		



Date of Report: July 15, 2022
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**SEMIVOLATILE ORGANICS EPA 8270E/SIM
 QUALITY CONTROL**

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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0701W1					
n-Nitrosodimethylamine	ND	1.0	EPA 8270E	7-1-22	7-1-22	
Pyridine	ND	1.0	EPA 8270E	7-1-22	7-1-22	
Phenol	ND	1.0	EPA 8270E	7-1-22	7-1-22	
Aniline	ND	5.0	EPA 8270E	7-1-22	7-1-22	
bis(2-Chloroethyl)ether	ND	1.0	EPA 8270E	7-1-22	7-1-22	
2-Chlorophenol	ND	1.0	EPA 8270E	7-1-22	7-1-22	
1,3-Dichlorobenzene	ND	1.0	EPA 8270E	7-1-22	7-1-22	
1,4-Dichlorobenzene	ND	1.0	EPA 8270E	7-1-22	7-1-22	
Benzyl alcohol	ND	1.0	EPA 8270E	7-1-22	7-1-22	
1,2-Dichlorobenzene	ND	1.0	EPA 8270E	7-1-22	7-1-22	
2-Methylphenol (o-Cresol)	ND	1.0	EPA 8270E	7-1-22	7-1-22	
bis(2-Chloroisopropyl)ether	ND	1.0	EPA 8270E	7-1-22	7-1-22	
(3+4)-Methylphenol (m,p-Cresol)	ND	1.0	EPA 8270E	7-1-22	7-1-22	
n-Nitroso-di-n-propylamine	ND	1.0	EPA 8270E	7-1-22	7-1-22	
Hexachloroethane	ND	1.0	EPA 8270E	7-1-22	7-1-22	
Nitrobenzene	ND	1.0	EPA 8270E	7-1-22	7-1-22	
Isophorone	ND	1.0	EPA 8270E	7-1-22	7-1-22	
2-Nitrophenol	ND	1.0	EPA 8270E	7-1-22	7-1-22	
2,4-Dimethylphenol	ND	1.0	EPA 8270E	7-1-22	7-1-22	
bis(2-Chloroethoxy)methane	ND	1.0	EPA 8270E	7-1-22	7-1-22	
2,4-Dichlorophenol	ND	1.0	EPA 8270E	7-1-22	7-1-22	
1,2,4-Trichlorobenzene	ND	1.0	EPA 8270E	7-1-22	7-1-22	
Naphthalene	ND	0.10	EPA 8270E/SIM	7-1-22	7-1-22	
4-Chloroaniline	ND	1.0	EPA 8270E	7-1-22	7-1-22	
Hexachlorobutadiene	ND	1.0	EPA 8270E	7-1-22	7-1-22	
4-Chloro-3-methylphenol	ND	1.0	EPA 8270E	7-1-22	7-1-22	
2-Methylnaphthalene	ND	0.10	EPA 8270E/SIM	7-1-22	7-1-22	
1-Methylnaphthalene	ND	0.10	EPA 8270E/SIM	7-1-22	7-1-22	
Hexachlorocyclopentadiene	ND	1.6	EPA 8270E	7-1-22	7-1-22	
2,4,6-Trichlorophenol	ND	1.0	EPA 8270E	7-1-22	7-1-22	
2,3-Dichloroaniline	ND	1.0	EPA 8270E	7-1-22	7-1-22	
2,4,5-Trichlorophenol	ND	1.0	EPA 8270E	7-1-22	7-1-22	
2-Chloronaphthalene	ND	1.0	EPA 8270E	7-1-22	7-1-22	
2-Nitroaniline	ND	1.0	EPA 8270E	7-1-22	7-1-22	
1,4-Dinitrobenzene	ND	1.0	EPA 8270E	7-1-22	7-1-22	
Dimethylphthalate	ND	5.0	EPA 8270E	7-1-22	7-1-22	
1,3-Dinitrobenzene	ND	1.0	EPA 8270E	7-1-22	7-1-22	
2,6-Dinitrotoluene	ND	1.0	EPA 8270E	7-1-22	7-1-22	
1,2-Dinitrobenzene	ND	1.0	EPA 8270E	7-1-22	7-1-22	
Acenaphthylene	ND	0.10	EPA 8270E/SIM	7-1-22	7-1-22	
3-Nitroaniline	ND	1.0	EPA 8270E	7-1-22	7-1-22	



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**SEMIVOLATILE ORGANICS EPA 8270E/SIM
 QUALITY CONTROL**

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0701W1					
2,4-Dinitrophenol	ND	6.6	EPA 8270E	7-1-22	7-1-22	
Acenaphthene	ND	0.10	EPA 8270E/SIM	7-1-22	7-1-22	
4-Nitrophenol	ND	5.0	EPA 8270E	7-1-22	7-1-22	
2,4-Dinitrotoluene	ND	1.0	EPA 8270E	7-1-22	7-1-22	
Dibenzofuran	ND	1.0	EPA 8270E	7-1-22	7-1-22	
2,3,5,6-Tetrachlorophenol	ND	1.0	EPA 8270E	7-1-22	7-1-22	
2,3,4,6-Tetrachlorophenol	ND	1.0	EPA 8270E	7-1-22	7-1-22	
Diethylphthalate	ND	1.0	EPA 8270E	7-1-22	7-1-22	
4-Chlorophenyl-phenylether	ND	1.0	EPA 8270E	7-1-22	7-1-22	
4-Nitroaniline	ND	1.0	EPA 8270E	7-1-22	7-1-22	
Fluorene	ND	0.10	EPA 8270E/SIM	7-1-22	7-1-22	
4,6-Dinitro-2-methylphenol	ND	6.8	EPA 8270E	7-1-22	7-1-22	
n-Nitrosodiphenylamine	ND	1.0	EPA 8270E	7-1-22	7-1-22	
1,2-Diphenylhydrazine	ND	1.0	EPA 8270E	7-1-22	7-1-22	
4-Bromophenyl-phenylether	ND	1.0	EPA 8270E	7-1-22	7-1-22	
Hexachlorobenzene	ND	1.0	EPA 8270E	7-1-22	7-1-22	
Pentachlorophenol	ND	7.0	EPA 8270E	7-1-22	7-1-22	
Phenanthrene	ND	0.10	EPA 8270E/SIM	7-1-22	7-1-22	
Anthracene	ND	0.10	EPA 8270E/SIM	7-1-22	7-1-22	
Carbazole	ND	1.0	EPA 8270E	7-1-22	7-1-22	
Di-n-butylphthalate	ND	5.0	EPA 8270E	7-1-22	7-1-22	
Fluoranthene	ND	0.10	EPA 8270E/SIM	7-1-22	7-1-22	
Pyrene	ND	0.10	EPA 8270E/SIM	7-1-22	7-1-22	
Butylbenzylphthalate	ND	1.0	EPA 8270E	7-1-22	7-1-22	
bis-2-Ethylhexyladipate	ND	5.0	EPA 8270E	7-1-22	7-1-22	
3,3'-Dichlorobenzidine	ND	5.0	EPA 8270E	7-1-22	7-1-22	
Benzo[a]anthracene	ND	0.010	EPA 8270E/SIM	7-1-22	7-1-22	
Chrysene	ND	0.010	EPA 8270E/SIM	7-1-22	7-1-22	
bis(2-Ethylhexyl)phthalate	ND	5.0	EPA 8270E	7-1-22	7-1-22	
Di-n-octylphthalate	ND	1.0	EPA 8270E	7-1-22	7-1-22	
Benzo[b]fluoranthene	ND	0.010	EPA 8270E/SIM	7-1-22	7-1-22	
Benzo(j,k)fluoranthene	ND	0.010	EPA 8270E/SIM	7-1-22	7-1-22	
Benzo[a]pyrene	ND	0.010	EPA 8270E/SIM	7-1-22	7-1-22	
Indeno[1,2,3-cd]pyrene	ND	0.010	EPA 8270E/SIM	7-1-22	7-1-22	
Dibenz[a,h]anthracene	ND	0.010	EPA 8270E/SIM	7-1-22	7-1-22	
Benzo[g,h,i]perylene	ND	0.010	EPA 8270E/SIM	7-1-22	7-1-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
2-Fluorophenol	45	10 - 81				
Phenol-d6	34	10 - 86				
Nitrobenzene-d5	64	27 - 105				
2-Fluorobiphenyl	65	33 - 100				
2,4,6-Tribromophenol	84	25 - 124				
Terphenyl-d14	68	40 - 116				



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**SEMIVOLATILE ORGANICS EPA 8270E/SIM
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB0701W1									
	SB	SBD	SB	SBD	SB	SBD				
Phenol	15.0	14.8	40.0	40.0	38	37	16 - 53	1	33	
2-Chlorophenol	27.0	26.2	40.0	40.0	68	66	42 - 90	3	34	
1,4-Dichlorobenzene	10.7	10.2	20.0	20.0	54	51	32 - 83	5	34	
n-Nitroso-di-n-propylamine	13.8	14.4	20.0	20.0	69	72	41 - 99	4	32	
1,2,4-Trichlorobenzene	11.3	11.5	20.0	20.0	57	58	35 - 91	2	35	
4-Chloro-3-methylphenol	30.2	29.9	40.0	40.0	76	75	55 - 98	1	22	
Acenaphthene	13.1	13.8	20.0	20.0	66	69	40 - 96	5	23	
4-Nitrophenol	18.9	20.1	40.0	40.0	47	50	20 - 77	6	28	
2,4-Dinitrotoluene	13.5	14.3	20.0	20.0	68	72	50 - 102	6	22	
Pentachlorophenol	39.9	39.0	40.0	40.0	100	98	46 - 129	2	26	
Pyrene	14.8	14.9	20.0	20.0	74	75	52 - 105	1	20	
<i>Surrogate:</i>										
2-Fluorophenol					43	40	10 - 81			
Phenol-d6					32	32	10 - 86			
Nitrobenzene-d5					61	57	27 - 105			
2-Fluorobiphenyl					60	58	33 - 100			
2,4,6-Tribromophenol					84	81	25 - 124			
Terphenyl-d14					65	65	40 - 116			



Date of Report: July 15, 2022
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 Project: 6694-002-00 T700

**PCBs EPA 8082A
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0630W1					
Aroclor 1016	ND	0.050	EPA 8082A	6-30-22	6-30-22	
Aroclor 1221	ND	0.050	EPA 8082A	6-30-22	6-30-22	
Aroclor 1232	ND	0.050	EPA 8082A	6-30-22	6-30-22	
Aroclor 1242	ND	0.050	EPA 8082A	6-30-22	6-30-22	
Aroclor 1248	ND	0.050	EPA 8082A	6-30-22	6-30-22	
Aroclor 1254	ND	0.050	EPA 8082A	6-30-22	6-30-22	
Aroclor 1260	ND	0.050	EPA 8082A	6-30-22	6-30-22	
Aroclor 1262	ND	0.050	EPA 8082A	6-30-22	6-30-22	
Aroclor 1268	ND	0.050	EPA 8082A	6-30-22	6-30-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
DCB	87	49-133				

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS								
Laboratory ID:	SB0630W2							
	SB	SBD	SB	SBD	SB	SBD		
Aroclor 1260	0.453	0.473	0.500	0.500	N/A	91	95	67-120 4 15
<i>Surrogate:</i>								
DCB						94	96	49-133



Date of Report: July 15, 2022
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 Project: 6694-002-00 T700

**ORGANOCHLORINE
 PESTICIDES EPA 8081B
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0630W1					
alpha-BHC	ND	0.0050	EPA 8081B	6-30-22	6-30-22	
gamma-BHC	ND	0.0050	EPA 8081B	6-30-22	6-30-22	
beta-BHC	ND	0.0050	EPA 8081B	6-30-22	6-30-22	
delta-BHC	ND	0.0050	EPA 8081B	6-30-22	6-30-22	
Heptachlor	ND	0.0050	EPA 8081B	6-30-22	6-30-22	
Aldrin	ND	0.0020	EPA 8081B	6-30-22	6-30-22	
Heptachlor epoxide	ND	0.0030	EPA 8081B	6-30-22	6-30-22	
gamma-Chlordane	ND	0.0050	EPA 8081B	6-30-22	6-30-22	
alpha-Chlordane	ND	0.0050	EPA 8081B	6-30-22	6-30-22	
4,4'-DDE	ND	0.0050	EPA 8081B	6-30-22	6-30-22	
Endosulfan I	ND	0.0050	EPA 8081B	6-30-22	6-30-22	
Dieldrin	ND	0.0050	EPA 8081B	6-30-22	6-30-22	
Endrin	ND	0.0050	EPA 8081B	6-30-22	6-30-22	
4,4'-DDD	ND	0.0050	EPA 8081B	6-30-22	6-30-22	
Endosulfan II	ND	0.0050	EPA 8081B	6-30-22	6-30-22	
4,4'-DDT	ND	0.0050	EPA 8081B	6-30-22	6-30-22	
Endrin aldehyde	ND	0.0050	EPA 8081B	6-30-22	6-30-22	
Methoxychlor	ND	0.010	EPA 8081B	6-30-22	6-30-22	
Endosulfan sulfate	ND	0.0050	EPA 8081B	6-30-22	6-30-22	
Endrin ketone	ND	0.020	EPA 8081B	6-30-22	6-30-22	
Toxaphene	ND	0.050	EPA 8081B	6-30-22	6-30-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control limits</i>				
<i>Tetrachloro-m-xylene</i>	<i>68</i>	<i>21-110</i>				
<i>Decachlorobiphenyl</i>	<i>81</i>	<i>42-113</i>				



Date of Report: July 15, 2022
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**ORGANOCHLORINE
 PESTICIDES EPA 8081B
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS											
Laboratory ID:	SB0630W1										
	SB	SBD	SB	SBD		SB	SBD				
alpha-BHC	0.0870	0.0897	0.100	0.100	N/A	87	90	50-113	3	19	
gamma-BHC	0.0874	0.0900	0.100	0.100	N/A	87	90	50-114	3	15	
beta-BHC	0.0800	0.0836	0.100	0.100	N/A	80	84	45-110	4	15	
delta-BHC	0.0987	0.101	0.100	0.100	N/A	99	101	40-113	2	15	
Heptachlor	0.0736	0.0757	0.100	0.100	N/A	74	76	41-107	3	16	
Aldrin	0.0757	0.0779	0.100	0.100	N/A	76	78	39-105	3	15	
Heptachlor epoxide	0.0795	0.0807	0.100	0.100	N/A	80	81	53-106	1	15	
gamma-Chlordane	0.0754	0.0770	0.100	0.100	N/A	75	77	46-110	2	15	
alpha-Chlordane	0.0772	0.0786	0.100	0.100	N/A	77	79	46-110	2	15	
4,4'-DDE	0.0871	0.0894	0.100	0.100	N/A	87	89	39-129	3	15	
Endosulfan I	0.0817	0.0826	0.100	0.100	N/A	82	83	51-109	1	15	
Dieldrin	0.0876	0.0888	0.100	0.100	N/A	88	89	55-112	1	15	
Endrin	0.0976	0.0993	0.100	0.100	N/A	98	99	54-119	2	16	
4,4'-DDD	0.0949	0.0969	0.100	0.100	N/A	95	97	52-142	2	15	
Endosulfan II	0.0774	0.0804	0.100	0.100	N/A	77	80	49-115	4	15	
4,4'-DDT	0.0994	0.0868	0.100	0.100	N/A	99	87	52-136	14	15	
Endrin aldehyde	0.0872	0.0885	0.100	0.100	N/A	87	89	39-128	1	15	
Methoxychlor	0.114	0.111	0.100	0.100	N/A	114	111	56-156	3	19	
Endosulfan sulfate	0.0834	0.0842	0.100	0.100	N/A	83	84	44-120	1	15	
Endrin ketone	0.0752	0.0738	0.100	0.100	N/A	75	74	45-122	2	15	
<i>Surrogate:</i>											
<i>Tetrachloro-m-xylene</i>						67	68	21-110			
<i>Decachlorobiphenyl</i>						82	83	42-113			



Date of Report: July 15, 2022
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TOTAL METALS
EPA 200.8/200.7/7470A
QUALITY CONTROL

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0707WH2					
Iron	ND	50	EPA 200.7	7-7-22	7-7-22	
Magnesium	ND	1000	EPA 200.7	7-7-22	7-7-22	
Manganese	ND	10	EPA 200.7	7-7-22	7-7-22	
Laboratory ID:	MB0706WM1					
Arsenic	ND	3.3	EPA 200.8	7-6-22	7-6-22	
Cadmium	ND	4.4	EPA 200.8	7-6-22	7-6-22	
Chromium	ND	11	EPA 200.8	7-6-22	7-6-22	
Copper	ND	11	EPA 200.8	7-6-22	7-6-22	
Lead	ND	1.1	EPA 200.8	7-6-22	7-6-22	
Nickel	ND	22	EPA 200.8	7-6-22	7-6-22	
Selenium	ND	5.6	EPA 200.8	7-6-22	7-6-22	
Laboratory ID:	MB0701W1					
Mercury	ND	0.025	EPA 7470A	7-1-22	7-1-22	



Date of Report: July 15, 2022
 Samples Submitted: June 29, 2022
 Laboratory Reference: 2206-305
 Project: 6694-002-00 T700

TOTAL METALS
EPA 200.8/200.7/7470A
QUALITY CONTROL

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result		Spike Level		Source	Percent	Recovery	RPD		Flags
					Result	Recovery	Limits	RPD	Limit	
DUPLICATE										
Laboratory ID:	06-305-01									
	ORIG	DUP								
Iron	581	580	NA	NA		NA	NA	0	20	
Magnesium	8590	8780	NA	NA		NA	NA	2	20	
Manganese	286	292	NA	NA		NA	NA	2	20	
Laboratory ID:	06-223-03									
Arsenic	4.58	4.47	NA	NA		NA	NA	2	20	
Cadmium	ND	ND	NA	NA		NA	NA	NA	20	
Chromium	ND	ND	NA	NA		NA	NA	NA	20	
Copper	ND	ND	NA	NA		NA	NA	NA	20	
Lead	ND	ND	NA	NA		NA	NA	NA	20	
Nickel	ND	ND	NA	NA		NA	NA	NA	20	
Selenium	ND	ND	NA	NA		NA	NA	NA	20	
Laboratory ID:	06-263-01									
Mercury	ND	ND	NA	NA		NA	NA	NA	20	
MATRIX SPIKES										
Laboratory ID:	06-305-01									
	MS	MSD	MS	MSD		MS	MSD			
Iron	22900	22300	20000	20000	581	112	109	75-125	3	20
Magnesium	31500	30900	20000	20000	8590	115	112	75-125	2	20
Manganese	842	827	500	500	286	111	108	75-125	2	20
Laboratory ID:	06-223-03									
Arsenic	124	122	111	111	4.58	107	105	75-125	2	20
Cadmium	117	115	111	111	ND	106	104	75-125	2	20
Chromium	120	120	111	111	ND	108	108	75-125	0	20
Copper	116	116	111	111	ND	105	104	75-125	1	20
Lead	113	112	111	111	ND	102	101	75-125	1	20
Nickel	125	125	111	111	15.0	99	99	75-125	0	20
Selenium	110	108	111	111	ND	99	98	75-125	2	20
Laboratory ID:	06-263-01									
Mercury	6.30	6.25	6.25	6.25	ND	101	100	75-125	1	20



Date of Report: July 15, 2022
 Samples Submitted: June 29, 2022
 Laboratory Reference: 2206-305
 Project: 6694-002-00 T700

**DISSOLVED METALS
 EPA 200.8/200.7/7470A
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0706D1					
Calcium	ND	1100	EPA 200.7		7-6-22	
Iron	ND	56	EPA 200.7		7-6-22	
Magnesium	ND	1100	EPA 200.7		7-6-22	
Manganese	ND	11	EPA 200.7		7-6-22	
Potassium	ND	1100	EPA 200.7		7-6-22	
Sodium	ND	1100	EPA 200.7		7-6-22	
Laboratory ID:	MB0627F1					
Arsenic	ND	3.0	EPA 200.8	6-27-22	7-7-22	
Cadmium	ND	4.0	EPA 200.8	6-27-22	7-7-22	
Chromium	ND	10	EPA 200.8	6-27-22	7-7-22	
Copper	ND	10	EPA 200.8	6-27-22	7-7-22	
Lead	ND	1.0	EPA 200.8	6-27-22	7-7-22	
Nickel	ND	20	EPA 200.8	6-27-22	7-7-22	
Selenium	ND	5.0	EPA 200.8	6-27-22	7-7-22	
Laboratory ID:	MB0708D1					
Mercury	ND	0.025	EPA 7470A		7-8-22	



Date of Report: July 15, 2022
 Samples Submitted: June 29, 2022
 Laboratory Reference: 2206-305
 Project: 6694-002-00 T700

DISSOLVED METALS
EPA 200.8/200.7/7470A
QUALITY CONTROL

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result		Spike Level		Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE										
Laboratory ID:	06-305-01									
	ORIG	DUP								
Calcium	20500	20600	NA	NA		NA	NA	1	20	
Iron	220	221	NA	NA		NA	NA	1	20	
Magnesium	9900	9930	NA	NA		NA	NA	0	20	
Manganese	333	334	NA	NA		NA	NA	0	20	
Potassium	2840	2890	NA	NA		NA	NA	2	20	
Sodium	6090	6130	NA	NA		NA	NA	1	20	
Laboratory ID:	06-304-01									
Arsenic	4.30	4.64	NA	NA		NA	NA	8	20	
Cadmium	ND	ND	NA	NA		NA	NA	NA	20	
Chromium	ND	ND	NA	NA		NA	NA	NA	20	
Copper	ND	ND	NA	NA		NA	NA	NA	20	
Lead	ND	ND	NA	NA		NA	NA	NA	20	
Nickel	ND	ND	NA	NA		NA	NA	NA	20	
Selenium	ND	ND	NA	NA		NA	NA	NA	20	
Laboratory ID:	07-026-02									
Mercury	ND	ND	NA	NA		NA	NA	NA	20	
MATRIX SPIKES										
Laboratory ID:	06-305-01									
	MS	MSD	MS	MSD		MS	MSD			
Calcium	45700	45500	22200	22200	20500	114	113	75-125	0	20
Iron	26600	26600	22200	22200	220	119	119	75-125	0	20
Magnesium	35200	35100	22200	22200	9900	114	113	75-125	0	20
Manganese	940	939	556	556	333	109	109	75-125	0	20
Potassium	29600	29500	22200	22200	2840	121	120	75-125	0	20
Sodium	33200	33100	22200	22200	6090	122	122	75-125	0	20
Laboratory ID:	06-304-01									
Arsenic	91.6	93.0	80.0	80.0	4.30	109	111	75-125	2	20
Cadmium	87.0	87.6	80.0	80.0	ND	109	110	75-125	1	20
Chromium	78.2	79.2	80.0	80.0	ND	98	99	75-125	1	20
Copper	75.2	76.4	80.0	80.0	ND	94	96	75-125	2	20
Lead	84.4	84.8	80.0	80.0	ND	106	106	75-125	0	20
Nickel	77.6	78.4	80.0	80.0	ND	97	98	75-125	1	20
Selenium	84.4	87.2	80.0	80.0	ND	106	109	75-125	3	20
Laboratory ID:	07-026-02									
Mercury	6.23	6.15	6.25	6.25	ND	100	98	75-125	1	20



Date of Report: July 15, 2022
 Samples Submitted: June 29, 2022
 Laboratory Reference: 2206-305
 Project: 6694-002-00 T700

**CHLORIDE
 SM 4500-Cl E
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0711W1					
Chloride	ND	2.0	SM 4500-Cl E	7-11-22	7-11-22	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	06-306-06							
	ORIG	DUP						
Chloride	4.16	4.17	NA	NA	NA	0	11	

MATRIX SPIKE								
Laboratory ID:	06-306-06							
	MS	MS		MS				
Chloride	58.9	50.0	4.16	109	90-121	NA	NA	

SPIKE BLANK								
Laboratory ID:	SB0711W1							
	SB	SB		SB				
Chloride	54.4	50.0	NA	109	90-119	NA	NA	



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**NITRATE (as Nitrogen)
 EPA 353.2
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L-N

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0629W1					
Nitrate	ND	0.050	EPA 353.2	6-29-22	6-29-22	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	06-292-03							
	ORIG	DUP						
Nitrate	0.136	0.102	NA	NA	NA	29	10	C

MATRIX SPIKE								
Laboratory ID:	06-292-03							
	MS	MS		MS				
Nitrate	2.11	2.00	0.136	99	88-125	NA	NA	

SPIKE BLANK								
Laboratory ID:	SB0629W1							
	SB	SB		SB		0.3333		
Nitrate	2.23	2.00	NA	112	90-120	NA	NA	



Date of Report: July 15, 2022
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 Project: 6694-002-00 T700

**SULFATE
 ASTM D516-11
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0707W1					
Sulfate	ND	5.0	ASTM D516-11	7-7-22	7-7-02	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	06-306-06							
	ORIG	DUP						
Sulfate	12.7	12.6	NA	NA	NA	1	10	

MATRIX SPIKE								
Laboratory ID:	06-306-06							
	MS	MS		MS				
Sulfate	21.9	10.0	12.7	92	72-128	NA	NA	

SPIKE BLANK								
Laboratory ID:	SB0707W1							
	SB	SB		SB				
Sulfate	10.4	10.0	NA	104	85-114	NA	NA	



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 Project: 6694-002-00 T700

**AMMONIA (as Nitrogen)
 SM 4500-NH₃ D
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0708W1					
Ammonia	ND	0.050	SM 4500-NH3 D	7-8-22	7-8-22	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	06-292-03							
	ORIG	DUP						
Ammonia	2.83	2.86	NA	NA	NA	1	15	

MATRIX SPIKE								
Laboratory ID:	06-292-03							
	MS	MS		MS				
Ammonia	23.3	20.0	2.83	102	87-110	NA	NA	

SPIKE BLANK								
Laboratory ID:	SB0708W1							
	SB	SB		SB				
Ammonia	4.44	5.00	NA	89	88-110	NA	NA	



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 Laboratory Reference: 2206-305
 Project: 6694-002-00 T700

**TOTAL ORGANIC CARBON
 SM 5310B
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0712W1					
Total Organic Carbon	ND	1.0	SM 5310B	7-12-22	7-12-22	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	06-306-06							
	ORIG	DUP						
Total Organic Carbon	ND	ND	NA	NA	NA	NA	12	

MATRIX SPIKE								
Laboratory ID:	06-306-06							
	MS	MS		MS				
Total Organic Carbon	10.1	10.0	ND	101	80-120	NA	NA	

SPIKE BLANK								
Laboratory ID:	SB0712W1							
	SB	SB		SB				
Total Organic Carbon	9.80	10.0	NA	98	80-118	NA	NA	



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 Project: 6694-002-00 T700

**TOTAL DISSOLVED SOLIDS
 SM 2540C
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0705W1					
Total Dissolved Solids	ND	13	SM 2540C	7-5-22	7-7-22	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	06-306-06							
	ORIG	DUP						
Total Dissolved Solids	128	125	NA	NA	NA	2	23	

SPIKE BLANK								
Laboratory ID:	SB0705W1							
	SB	SB		SB				
Total Dissolved Solids	448	500	NA	90	89-110	NA	NA	



Date of Report: July 15, 2022
 Samples Submitted: June 29, 2022
 Laboratory Reference: 2206-305
 Project: 6694-002-00 T700

**TOTAL ALKALINITY
 SM 2320B
 QUALITY CONTROL**

Matrix: Water
 Units: mg CaCO₃/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0701W1					
Total Alkalinity	ND	2.0	SM 2320B	7-1-22	7-1-22	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	06-306-06							
	ORIG	DUP						
Total Alkalinity	82.0	82.0	NA	NA	NA	0	10	

SPIKE BLANK								
Laboratory ID:	SB0701W1							
	SB	SB		SB				
Total Alkalinity	94.0	100	NA	94	89-110	NA	NA	



Date of Report: July 15, 2022
 Samples Submitted: June 29, 2022
 Laboratory Reference: 2206-305
 Project: 6694-002-00 T700

**BICARBONATE
 SM 2320B
 QUALITY CONTROL**

Matrix: Water
 Units: mg CaCO₃/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0701W1					
Bicarbonate	ND	2.0	SM 2320B	7-1-22	7-1-22	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	06-306-06							
	ORIG	DUP						
Bicarbonate	82.0	82.0	NA	NA	NA	0	10	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANK								
Laboratory ID:	SB0701W1							
	SB	SB		SB				
Bicarbonate	94.0	100	NA	94	89-110	NA	NA	





Data Qualifiers and Abbreviations

- A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.
- B - The analyte indicated was also found in the blank sample.
- C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.
- E - The value reported exceeds the quantitation range and is an estimate.
- F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.
- H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.
- I - Compound recovery is outside of the control limits.
- J - The value reported was below the practical quantitation limit. The value is an estimate.
- K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.
- L - The RPD is outside of the control limits.
- M - Hydrocarbons in the gasoline range are impacting the diesel range result.
- M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.
- N - Hydrocarbons in the lube oil range are impacting the diesel range result.
- N1 - Hydrocarbons in diesel range are impacting lube oil range results.
- O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.
- P - The RPD of the detected concentrations between the two columns is greater than 40.
- Q - Surrogate recovery is outside of the control limits.
- S - Surrogate recovery data is not available due to the necessary dilution of the sample.
- T - The sample chromatogram is not similar to a typical _____.
- U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
- U1 - The practical quantitation limit is elevated due to interferences present in the sample.
- V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.
- W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.
- X - Sample extract treated with a mercury cleanup procedure.
- X1 - Sample extract treated with a sulfuric acid/silica gel cleanup procedure.
- Y - The calibration verification for this analyte exceeded the 20% drift specified in methods 8260 & 8270, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.

Z -

ND - Not Detected at PQL
 PQL - Practical Quantitation Limit
 RPD - Relative Percent Difference





OnSite Environmental Inc

David Baumeister
14648 NE 95th Street
Redmond, WA 98052

RE: 06-305

Work Order Number: 2206498

July 11, 2022

Attention David Baumeister:

Fremont Analytical, Inc. received 1 sample(s) on 6/29/2022 for the analyses presented in the following report.

Herbicides by EPA Method 8151A (GC/MS)

This report consists of the following:

- Case Narrative
- Analytical Results
- Applicable Quality Control Summary Reports
- Chain of Custody

All analyses were performed consistent with the Quality Assurance program of Fremont Analytical, Inc. Please contact the laboratory if you should have any questions about the results.

Thank you for using Fremont Analytical.

Sincerely,

Brianna Barnes
Project Manager



CLIENT: OnSite Environmental Inc
Project: 06-305
Work Order: 2206498

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received
2206498-001	220628-MW-1	06/28/2022 1:00 PM	06/29/2022 2:40 PM

DRAFT

Note: If no "Time Collected" is supplied, a default of 12:00AM is assigned

CLIENT: OnSite Environmental Inc
Project: 06-305

I. SAMPLE RECEIPT:

Samples receipt information is recorded on the attached Sample Receipt Checklist.

II. GENERAL REPORTING COMMENTS:

Results are reported on a wet weight basis unless dry-weight correction is denoted in the units field on the analytical report ("mg/kg-dry" or "ug/kg-dry").

Matrix Spike (MS) and MS Duplicate (MSD) samples are tested from an analytical batch of "like" matrix to check for possible matrix effect. The MS and MSD will provide site specific matrix data only for those samples which are spiked by the laboratory. The sample chosen for spike purposes may or may not have been a sample submitted in this sample delivery group. The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The LCS and the MB are processed with the samples and the MS/MSD to ensure method criteria are achieved throughout the entire analytical process.

III. ANALYSES AND EXCEPTIONS:

Exceptions associated with this report will be footnoted in the analytical results page(s) or the quality control summary page(s) and/or noted below.

DRAFT

Qualifiers:

- * - Flagged value is not within established control limits
- B - Analyte detected in the associated Method Blank
- D - Dilution was required
- E - Value above quantitation range
- H - Holding times for preparation or analysis exceeded
- I - Analyte with an internal standard that does not meet established acceptance criteria
- J - Analyte detected below Reporting Limit
- N - Tentatively Identified Compound (TIC)
- Q - Analyte with an initial or continuing calibration that does not meet established acceptance criteria
- S - Spike recovery outside accepted recovery limits
- ND - Not detected at the Reporting Limit
- R - High relative percent difference observed

Acronyms:

- %Rec - Percent Recovery
- CCB - Continued Calibration Blank
- CCV - Continued Calibration Verification
- DF - Dilution Factor
- DUP - Sample Duplicate
- HEM - Hexane Extractable Material
- ICV - Initial Calibration Verification
- LCS/LCSD - Laboratory Control Sample / Laboratory Control Sample Duplicate
- MCL - Maximum Contaminant Level
- MB or MBLANK - Method Blank
- MDL - Method Detection Limit
- MS/MSD - Matrix Spike / Matrix Spike Duplicate
- PDS - Post Digestion Spike
- Ref Val - Reference Value
- REP - Sample Replicate
- RL - Reporting Limit
- RPD - Relative Percent Difference
- SD - Serial Dilution
- SGT - Silica Gel Treatment
- SPK - Spike
- Surr - Surrogate



Client: OnSite Environmental Inc

Collection Date: 6/28/2022 1:00:00 PM

Project: 06-305

Lab ID: 2206498-001

Matrix: Water

Client Sample ID: 220628-MW-1

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Herbicides by EPA Method 8151A (GC/MS)

Batch ID: 36990

Analyst: OK

Dicamba	ND	1.00		µg/L	1	7/6/2022 9:54:45 PM
2,4-D	ND	1.00		µg/L	1	7/6/2022 9:54:45 PM
2,4-DP	ND	1.00		µg/L	1	7/6/2022 9:54:45 PM
2,4,5-TP (Silvex)	ND	1.00		µg/L	1	7/6/2022 9:54:45 PM
2,4,5-T	ND	1.00		µg/L	1	7/6/2022 9:54:45 PM
Dinoseb	ND	1.00		µg/L	1	7/6/2022 9:54:45 PM
Dalapon	ND	2.00		µg/L	1	7/6/2022 9:54:45 PM
2,4-DB	ND	1.00		µg/L	1	7/6/2022 9:54:45 PM
MCP	ND	5.00		µg/L	1	7/6/2022 9:54:45 PM
MCPA	ND	5.00		µg/L	1	7/6/2022 9:54:45 PM
Picloram	ND	1.00		µg/L	1	7/6/2022 9:54:45 PM
Bentazon	ND	1.00		µg/L	1	7/6/2022 9:54:45 PM
Chloramben	ND	1.00		µg/L	1	7/6/2022 9:54:45 PM
Acifluorfen	ND	5.00		µg/L	1	7/6/2022 9:54:45 PM
3,5-Dichlorobenzoic acid	ND	1.00		µg/L	1	7/6/2022 9:54:45 PM
4-Nitrophenol	ND	1.00		µg/L	1	7/6/2022 9:54:45 PM
Dacthal (DCPA)	ND	2.00		µg/L	1	7/6/2022 9:54:45 PM
Surr: 2,4-Dichlorophenylacetic acid	106	65.7 - 136		%Rec	1	7/6/2022 9:54:45 PM

Work Order: 2206498
 CLIENT: OnSite Environmental Inc
 Project: 06-305

QC SUMMARY REPORT
Herbicides by EPA Method 8151A (GC/MS)

Sample ID: MB-36990	SampType: MBLK	Units: µg/L	Prep Date: 6/30/2022	RunNo: 76651							
Client ID: MBLKW	Batch ID: 36990		Analysis Date: 7/6/2022	SeqNo: 1573111							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dicamba	ND	0.997									
2,4-D	ND	0.997									
2,4-DP	ND	0.997									
2,4,5-TP (Silvex)	ND	0.997									
2,4,5-T	ND	0.997									
Dinoseb	ND	0.997									
Dalapon	ND	1.99									
2,4-DB	ND	0.997									
MCPP	ND	4.98									
MCPA	ND	4.98									
Picloram	ND	0.997									
Bentazon	ND	0.997									
Chloramben	ND	0.997									
Acifluorfen	ND	4.98									
3,5-Dichlorobenzoic acid	ND	0.997									
4-Nitrophenol	ND	0.997									
Dacthal (DCPA)	ND	1.99									
Surr: 2,4-Dichlorophenylacetic acid	19.2		19.94		96.5	65.7	136				

Sample ID: LCS-36990	SampType: LCS	Units: µg/L	Prep Date: 6/30/2022	RunNo: 76651							
Client ID: LCSW	Batch ID: 36990		Analysis Date: 7/6/2022	SeqNo: 1573112							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dicamba	5.03	0.996	3.984	0	126	16.6	148				
2,4-D	5.99	0.996	3.984	0	150	50.4	150				
2,4-DP	5.66	0.996	3.984	0	142	53	135				S
2,4,5-TP (Silvex)	5.80	0.996	3.984	0	146	53.6	140				S
2,4,5-T	5.98	0.996	3.984	0	150	50	141				S
Dinoseb	4.60	0.996	3.984	0	115	5	119				
Dalapon	16.0	1.99	19.92	0	80.5	5.65	97.2				
2,4-DB	5.58	0.996	3.984	0	140	54.9	141				

Work Order: 2206498
 CLIENT: OnSite Environmental Inc
 Project: 06-305

QC SUMMARY REPORT
Herbicides by EPA Method 8151A (GC/MS)

Sample ID: LCS-36990	SampType: LCS	Units: µg/L			Prep Date: 6/30/2022	RunNo: 76651					
Client ID: LCSW	Batch ID: 36990				Analysis Date: 7/6/2022	SeqNo: 1573112					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
MCPP	21.8	4.98	19.92	0	109	28.7	166				
MCPA	22.1	4.98	19.92	0	111	20.7	176				
Picloram	4.53	0.996	3.984	0	114	9.72	120				
Bentazon	5.29	0.996	3.984	0	133	41.2	141				
Chloramben	3.23	0.996	3.984	0	81.0	5	109				
Acifluorfen	4.74	4.98	3.984	0	119	7.62	139				
3,5-Dichlorobenzoic acid	5.11	0.996	3.984	0	128	52.4	120				S
4-Nitrophenol	2.35	0.996	3.984	0	58.9	5	107				
Dacthal (DCPA)	2.51	1.99	3.984	0	62.9	5	65.4				
Surr: 2,4-Dichlorophenylacetic acid	22.4		19.92		112	65.7	136				

NOTES:

S - Outlying spike recovery observed (high bias). Detections will be qualified with a *. A duplicate analysis recovered within range.

Sample ID: LCS-36990	SampType: LCS	Units: µg/L			Prep Date: 6/30/2022	RunNo: 76651					
Client ID: LCSW02	Batch ID: 36990				Analysis Date: 7/6/2022	SeqNo: 1573113					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dicamba	4.58	0.995	3.979	0	115	16.6	148	5.032	9.38	30	
2,4-D	5.42	0.995	3.979	0	136	50.4	150	5.990	10.1	30	
2,4-DP	5.11	0.995	3.979	0	129	53	135	5.663	10.2	30	
2,4,5-TP (Silvex)	5.27	0.995	3.979	0	132	53.6	140	5.801	9.65	30	
2,4,5-T	5.45	0.995	3.979	0	137	50	141	5.983	9.34	30	
Dinoseb	4.39	0.995	3.979	0	110	5	119	4.598	4.73	30	
Dalapon	15.1	1.99	19.89	0	75.9	5.65	97.2	16.04	6.13	30	
2,4-DB	5.09	0.995	3.979	0	128	54.9	141	5.580	9.20	30	
MCPP	20.0	4.97	19.89	0	101	28.7	166	21.81	8.44	30	
MCPA	20.4	4.97	19.89	0	102	20.7	176	22.12	8.20	30	
Picloram	4.13	0.995	3.979	0	104	9.72	120	4.533	9.21	30	
Bentazon	4.77	0.995	3.979	0	120	41.2	141	5.294	10.4	30	
Chloramben	2.31	0.995	3.979	0	58.0	5	109	3.225	33.1	30	
Acifluorfen	4.55	4.97	3.979	0	114	7.62	139	4.744	4.20	30	
3,5-Dichlorobenzoic acid	4.62	0.995	3.979	0	116	52.4	120	5.108	10.1	30	

Work Order: 2206498
 CLIENT: OnSite Environmental Inc
 Project: 06-305

QC SUMMARY REPORT
Herbicides by EPA Method 8151A (GC/MS)

Sample ID: LCSD-36990	SampType: LCSD	Units: µg/L	Prep Date: 6/30/2022	RunNo: 76651							
Client ID: LCSW02	Batch ID: 36990		Analysis Date: 7/6/2022	SeqNo: 1573113							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
4-Nitrophenol	2.38	0.995	3.979	0	59.7	5	107	2.346	1.26	30	
Dacthal (DCPA)	2.40	1.99	3.979	0	60.3	5	65.4	2.506	4.29	30	
Surr: 2,4-Dichlorophenylacetic acid	20.4		19.89		102	65.7	136		0		

Sample ID: 2206450-001AMS	SampType: MS	Units: µg/L	Prep Date: 6/30/2022	RunNo: 76651							
Client ID: BATCH	Batch ID: 36990		Analysis Date: 7/6/2022	SeqNo: 1573115							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dicamba	4.76	1.00	4.006	0	119	31	142				
2,4-D	5.86	1.00	4.006	0	146	50.3	149				
2,4-DP	5.60	1.00	4.006	0	140	49.9	143				
2,4,5-TP (Silvex)	5.86	1.00	4.006	0	146	47.7	141				S
2,4,5-T	6.15	1.00	4.006	0	153	34.4	139				S
Dinoseb	5.40	1.00	4.006	0	135	27.3	117				S
Dalapon	14.3	2.00	20.03	0	71.6	14.2	113				
2,4-DB	5.94	1.00	4.006	0	148	31.3	147				S
MCPD	21.1	5.01	20.03	0	105	30.5	177				
MCPA	21.3	5.01	20.03	0	106	36.8	163				
Picloram	4.75	1.00	4.006	0	119	18.8	115				S
Bentazon	5.50	1.00	4.006	0	137	11.9	176				
Chloramben	3.03	1.00	4.006	0	75.7	5	112				
Acifluorfen	5.64	5.01	4.006	0	141	28.1	146				
3,5-Dichlorobenzoic acid	4.81	1.00	4.006	0	120	36.2	146				
4-Nitrophenol	1.76	1.00	4.006	0	44.0	5	116				
Dacthal (DCPA)	2.32	2.00	4.006	0	57.9	5	84.6				
Surr: 2,4-Dichlorophenylacetic acid	21.4		20.03		107	65.7	136				

NOTES:

S - Outlying spike recoveries were associated with this sample.

Client Name: ONSITE	Work Order Number: 2206498
Logged by: Elisabeth Samoray	Date Received: 6/29/2022 2:40:00 PM

Chain of Custody

1. Is Chain of Custody complete? Yes No Not Present
2. How was the sample delivered? Courier

Log In

3. Coolers are present? Yes No NA
4. Shipping container/cooler in good condition? Yes No
5. Custody Seals present on shipping container/cooler?
(Refer to comments for Custody Seals not intact) Yes No Not Present
6. Was an attempt made to cool the samples? Yes No NA
7. Were all items received at a temperature of >2°C to 6°C * Yes No NA
- Approved by client.
8. Sample(s) in proper container(s)? Yes No
9. Sufficient sample volume for indicated test(s)? Yes No
10. Are samples properly preserved? Yes No
11. Was preservative added to bottles? Yes No NA
12. Is there headspace in the VOA vials? Yes No NA
13. Did all samples containers arrive in good condition(unbroken)? Yes No
14. Does paperwork match bottle labels? Yes No
15. Are matrices correctly identified on Chain of Custody? Yes No
16. Is it clear what analyses were requested? Yes No
17. Were all holding times able to be met? Yes No

Special Handling (if applicable)

18. Was client notified of all discrepancies with this order? Yes No NA

Person Notified:	<input type="text" value="David Baumeister"/>	Date:	<input type="text" value="7/5/2022"/>
By Whom:	<input type="text" value="Elisabeth Samoray"/>	Via:	<input checked="" type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:	<input type="text" value="Samples being outside temperature range"/>		
Client Instructions:	<input type="text" value="Proceed with testing"/>		

19. Additional remarks:

Item Information

Item #	Temp °C
Sample 1	7.8

* Note: DoD/ELAP and TNI require items to be received at 4°C +/- 2°C



14648 NE 95th Street, Redmond, WA 98052 · (425) 883-3881

Laboratory: Fremont Analytical

Attention: Chelsea Ward

3600 Fremont Avenue N, Seattle, WA 98103

Phone Number: (206) 352-3790

Turnaround Request

1 Day 2 Day 3 Day

Standard

Other: _____

2206498

Laboratory Reference #: 06-305

Project Manager: David Baumeister

email: dbaumeister@onsite-env.com

Project Number: 6694-002-05

Project Name: _____

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	# of Cont.	Requested Analyses
	220628-MW-1	6/28/22	13:00	W	1	Chlorinated Acid Herbicides 8151
Signature	Company	Date	Time	Comments/Special Instructions		
Relinquished by: <i>Nicole</i>	<i>OSE</i>	<i>6/29</i>	<i>1230</i>	<h1>EDDs</h1>		
Received by: <i>J. Isaacson</i>	<i>ALPHA</i>	<i>6/29/22</i>	<i>1230</i>			
Relinquished by: <i>J. Isaacson</i>	<i>ALPHA</i>	<i>6/29/22</i>	<i>1400</i>			
Received by: <i>J.C.</i>	<i>FAI</i>	<i>6/29/22</i>	<i>1440</i>			
Relinquished by:						
Received by:						

Chain of Custody

Company: **GEI**

Project Number: **6694-002-05**

Project Name: **Go East**

Project Manager: **Garrett Leque**

Sampled by: **JDF**

Turnaround Request (in working days)

(Check One)

Same Day 1 Day

2 Days 3 Days

Standard (7 Days)

_____ (other)

Laboratory Number: 06-305

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers
1	220628-MW-1	6/28/22	1300	GW	2

Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX (802) <input type="checkbox"/> 8260 <input type="checkbox"/>	NWTPH-Gx	NWTPH-Dx (Acid / SG Clean-up) <input type="checkbox"/>	Volatiles 8260	Halogenated Volatiles 8260	EDB EPA 8011 (Waters Only)	Semivolatiles 8270/SIM (with low-level PAHs)	PAHs 8270/SIM (low-level)	PCBs 8082	Organochlorine Pesticides 8081	Organophosphorus Pesticides 8079	Chlorinated Acid Herbicides 8151	Total Metals dissolved	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664	X Cl, NO ₃ , SO ₄ , NH ₃	X Diss. Ca, K, Na	X TOC, TDS, Alk, Bicarb	% Moisture
2			X	X	X			X		X	X	X	X								

Signature	Company	Date	Time	Comments/Special Instructions
	GEI	6/28/22	1500	* Total Diss. (filtered) metals: = As, Cd, Cr, Cu, Fe, Pb, Mn, Hg, Ni, Se, ^{Zn} _{MB} , Mg Call Garrett for analyses
	Alpha	6/29/22	9:23	
	Alpha	6/29/22	10:05	
	COSE	6/29/22	1005	
Relinquished				Data Package: Standard <input type="checkbox"/> Level III <input type="checkbox"/> Level IV <input type="checkbox"/>
Reviewed/Date	Reviewed/Date			Chromatograms with final report <input type="checkbox"/> Electronic Data Deliverables (EDDs) <input type="checkbox"/>

Project: July 2022 Sediment Sampling Results
Go East Landfill Site, Everett, Washington

GEI File: 6694-002-05

Date: March 5, 2023

This report documents the results of a United States Environmental Protection Agency (USEPA)-defined Stage 2A data validation (USEPA Document 540-R-08-005; USEPA 2009) of analytical data from the analyses of sediment samples collected as part of the July 2022 sampling event, and the associated laboratory quality control (QC) samples. The samples were obtained from the Go East Landfill Site located in Everett, Washington.

OBJECTIVE AND QUALITY CONTROL ELEMENTS

GeoEngineers, Inc. (GeoEngineers) completed the data validation consistent with the USEPA Contract Laboratory Program National Functional Guidelines for Organic Superfund Data Review (USEPA 2020a) and Inorganic Superfund Data Review (USEPA 2020b) to determine if the laboratory analytical results meet the project objectives and are usable for their intended purpose. Data usability was assessed by determining if:

- The samples were analyzed using well-defined and acceptable methods that provide reporting limits below applicable regulatory criteria;
- The precision and accuracy of the data are measured by well-defined control limits to provide defensible data; and
- The quality assurance/quality control (QA/QC) procedures utilized by the laboratory meet acceptable industry practices and standards.

The data validation included review of the following QC elements:

- Data Package Completeness
- Chain-of-Custody Documentation
- Holding Times and Sample Preservation
- Method Blanks
- Surrogates
- Matrix Spikes/Matrix Spike Duplicates
- Laboratory Control Samples/Laboratory Control Sample Duplicates
- Laboratory Duplicates
- Reporting Limits

VALIDATED SAMPLE DELIVERY GROUPS

This data validation included review of the sample delivery group (SDG) listed below in Table 1.

TABLE 1: SUMMARY OF VALIDATED SAMPLE DELIVERY GROUP

2207-115	SEDB-1-20220713, SEDB-2-20220713, SEDB-3-20220713, SEDB-4-20220713, SEDB-5-20220713, SEDB-6-20220713, SEDB-7-20220713, SEDB-8-20220713

CHEMICAL ANALYSIS PERFORMED

OnSite Environmental, Inc. (OnSite) of Redmond, Washington, performed laboratory analysis on the sediment samples using one or more of the following methods:

- Petroleum Hydrocarbons (NWTPH-Dx) by Method NWTPH-Dx;
- Low-level Polycyclic Aromatic Hydrocarbons (PAHs) by Method EPA 8270E/Selective Ion Monitoring (SIM);
- Organochlorine Pesticides by Method EPA 8081B;
- Total Metals by Methods EPA 6010D or EPA 7471B; and
- Total Solids by Method SM2540G

DATA VALIDATION SUMMARY

The results for each of the QC elements are summarized below.

Data Package Completeness

OnSite provided the required deliverables for the data validation according to the National Functional Guidelines. The laboratory followed adequate corrective action processes and the identified anomalies were discussed in the relevant laboratory case narrative.

Chain-of-Custody Documentation

Chain-of-custody (COC) forms were provided with the laboratory analytical reports. The COCs were accurate and complete when submitted to the laboratory. The forms were appropriately signed and dated by both field collectors and laboratory personnel upon receipt.

Holding Times and Sample Preservation

The sample holding time is defined as the time that elapses between sample collection and sample analysis. Maximum holding time criteria exist for each analysis to help ensure that the analyte concentrations found at the time of analysis reflect the concentration present at the time of sample collection. Established holding times were met for each analysis. The sample coolers arrived at the laboratory within the appropriate temperatures of between two and six degrees Celsius.

Method Blanks

Method blanks are analyzed to ensure that laboratory procedures and reagents do not introduce measurable concentrations of the analytes of interest. A method blank was analyzed with each batch of samples, at a frequency of 1 per 20 samples. For each sample batch, method blanks for the applicable methods were analyzed at the required frequency. None of the analytes of interest were detected above the reporting limits in the method blanks.

Surrogate Recoveries

A surrogate compound is a compound that is chemically similar to the organic analytes of interest, but unlikely to be found in an environmental sample. Surrogates are used for organic analyses and are added to the samples, standards, and blanks to serve as an accuracy and specificity check of each analysis. The surrogates are added to the samples at a known concentration and percent recoveries are calculated following analysis. The surrogate percent recoveries for field samples were within the laboratory control limits, with the following exception:

SDG 2207-115: (PAHs) The percent recovery for surrogate 2-Fluorobiphenyl was less than the control limits in Sample SEDB-8-20220713; however, the sample was spiked with five additional surrogates and in each case the percent recoveries were within their respective control limits. No action was required for this outlier.

Matrix Spikes/Matrix Spike Duplicates

Since the actual analyte concentration in an environmental sample is not known, the accuracy of a particular analysis is usually inferred by performing a matrix spike (MS) analysis on one sample from the associated batch, known as the parent sample. One aliquot of the sample is analyzed in the normal manner and then a second aliquot of the sample is spiked with a known amount of analyte concentration and analyzed. From these analyses, a percent recovery is calculated. Matrix spike duplicate (MSD) analyses are generally performed for organic analyses as a precision check and analyzed in the same sequence as a matrix spike. Using the result values from the MS and MSD, the relative percent difference (RPD) is calculated. The percent recovery control limits for MS and MSD analyses are specified in the laboratory documents, as are the RPD control limits for MS/MSD sample sets.

For inorganic methods, the matrix spike is followed by a post-digestion spike sample if an element percent recovery was outside the control limits in the matrix spike. The percent recovery control limits for matrix spikes are 75% to 125%.

One MS/MSD analysis should be performed for every analytical batch or every 20 field samples, whichever is more frequent. The frequency requirements were met for each analysis and the percent recovery and RPD values were within the proper control limits, with the following exception:

SDG 2207-115: (Total Metals) The laboratory performed an MS/MSD sample set on Sample SEDB-8-20220713. The percent recovery for total iron was greater than the control limits in the MS digested on 7/20/2022; however, the percent recovery for this target analyte was within the control limits in the corresponding MSD. No action was required for this outlier.

Laboratory Control Samples/Laboratory Control Sample Duplicates

A Laboratory Control Sample (LCS) is a blank sample that is spiked with a known amount of analyte and then analyzed. An LCS is similar to an MS, but without the possibility of matrix interference. Given that matrix interference is not an issue, control limits for accuracy and precision in the LCS and its duplicate (LCSD) are usually more rigorous than for MS/MSD analyses. Additionally, data qualification based on LCS/LCSD analyses would apply to each sample in the associated batch, instead of just the parent sample. The percent recovery control limits for LCS and LCSD analyses are specified in the laboratory documents, as are the RPD control limits for LCS/LCSD sample sets.

One LCS/LCSD analysis should be performed for every analytical batch or every 20 field samples, whichever is more frequent. The frequency requirements were met for each analysis and the percent recovery and RPD values were within the proper control limits.

Laboratory Duplicates

Internal laboratory duplicate analyses are performed to monitor the precision of the analyses. Two separate aliquots of a sample are analyzed as distinct samples in the laboratory and the RPD between the two results is calculated. Duplicate analyses should be performed once per analytical batch. If one or more of the samples used has a concentration less than five times the reporting limit for that sample, the absolute difference is used instead of the RPD. For organic analyses, the RPD control limits are specified in the laboratory documents. For inorganic analyses, the RPD control limit for water samples is 20 percent. Laboratory duplicates were analyzed at the proper frequency and the specified acceptance criteria were met.

Reporting Limits

The contract required quantitation limits (CRQL) were met by the laboratory for the target analytes throughout this sampling event, with some exceptions where the CRQL was elevated due to required sample dilution.

OVERALL ASSESSMENT

As was determined by this data validation, the laboratory followed the specified analytical methods. Accuracy was acceptable, as demonstrated by the surrogates, LCS/LCSD, and MS/MSD percent recovery values, with the exception noted above. Precision was also acceptable, as demonstrated by the LCS/LCSD, MS/MSD, and laboratory duplicate RPD values.

No analytical results were qualified. The data are acceptable for the intended use.

REFERENCES

GeoEngineers, Inc., "Interim Action Work Plan, Go East Corp Landfill Site, Everett, Washington, Ecology Agreed Order No. DE 18121 – prepared for Washington State Department of Ecology on Behalf of PG&E, LLC. GEI File No. 6694-002-03, April 23, 2020.

U.S. Environmental Protection Agency (USEPA). "Guidance for Labeling Externally Validated Laboratory Analytical Data for Superfund Use," EPA-540-R-08-005. January 2009.

U.S. Environmental Protection Agency (USEPA) 2020a. Contract Laboratory Program National Functional Guidelines for Organic Superfund Methods Data Review, EPA-540-R-20-005. November 2020.

U.S. Environmental Protection Agency (USEPA) 2020b. Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Methods Data Review, EPA-542-R-20-006. November 2020.

DRAFT



**OnSite
Environmental Inc.**

14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

July 27, 2022

Garrett Leque
GeoEngineers, Inc.
1101 Fawcett Avenue South, Suite 200
Tacoma, WA 98402

Re: Analytical Data for Project 6440-035-05
Laboratory Reference No. 2207-115

Dear Garrett:

Enclosed are the analytical results and associated quality control data for samples submitted on July 14, 2022.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

David Baumeister
Project Manager

Enclosures



Date of Report: July 27, 2022
Samples Submitted: July 14, 2022
Laboratory Reference: 2207-115
Project: 6440-035-05

Case Narrative

Samples were collected on July 13, 2022 and received by the laboratory on July 14, 2022. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

Semivolatiles EPA 8270E/SIM Analysis

Sample SEDB-8-20220713 had one surrogate recovery outside of control limits. This is within allowance of our standard operating procedure as long as the recovery is above 10%.

Total Metals EPA 6010D/7471B Analysis

Due to the high concentration of Iron in the QC sample, the amount spiked was insufficient for meaningful MS/MSD recovery data. The Spike Blank recovery was 106%.

Please note that any other QA/QC issues associated with these extractions and analyses will be indicated with a footnote reference and discussed in detail on the Data Qualifier page.



Date of Report: July 27, 2022
Samples Submitted: July 14, 2022
Laboratory Reference: 2207-115
Project: 6440-035-05

ANALYTICAL REPORT FOR SAMPLES

Client ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
SEDB-1-20220713	07-115-01	Sediment	7-13-22	7-14-22	
SEDB-2-20220713	07-115-02	Sediment	7-13-22	7-14-22	
SEDB-3-20220713	07-115-03	Sediment	7-13-22	7-14-22	
SEDB-4-20220713	07-115-04	Sediment	7-13-22	7-14-22	
SEDB-5-20220713	07-115-05	Sediment	7-13-22	7-14-22	
SEDB-6-20220713	07-115-06	Sediment	7-13-22	7-14-22	
SEDB-7-20220713	07-115-07	Sediment	7-13-22	7-14-22	
SEDB-8-20220713	07-115-08	Sediment	7-13-22	7-14-22	



Date of Report: July 27, 2022
 Samples Submitted: July 14, 2022
 Laboratory Reference: 2207-115
 Project: 6440-035-05

**DIESEL AND HEAVY OIL RANGE ORGANICS
 NWTPH-Dx**

Matrix: Sediment
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SEDB-1-20220713					
Laboratory ID:	07-115-01					
Diesel Range Organics	ND	51	NWTPH-Dx	7-18-22	7-19-22	
Lube Oil Range Organics	ND	100	NWTPH-Dx	7-18-22	7-19-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	82	50-150				
Client ID:	SEDB-2-20220713					
Laboratory ID:	07-115-02					
Diesel Range Organics	ND	59	NWTPH-Dx	7-18-22	7-18-22	
Lube Oil Range Organics	ND	120	NWTPH-Dx	7-18-22	7-18-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	68	50-150				
Client ID:	SEDB-3-20220713					
Laboratory ID:	07-115-03					
Diesel Range Organics	ND	34	NWTPH-Dx	7-18-22	7-19-22	
Lube Oil Range Organics	ND	68	NWTPH-Dx	7-18-22	7-19-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	70	50-150				
Client ID:	SEDB-4-20220713					
Laboratory ID:	07-115-04					
Diesel Range Organics	ND	33	NWTPH-Dx	7-18-22	7-18-22	
Lube Oil Range Organics	ND	65	NWTPH-Dx	7-18-22	7-18-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	67	50-150				
Client ID:	SEDB-5-20220713					
Laboratory ID:	07-115-05					
Diesel Range Organics	ND	30	NWTPH-Dx	7-18-22	7-19-22	
Lube Oil Range Organics	ND	61	NWTPH-Dx	7-18-22	7-19-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	82	50-150				
Client ID:	SEDB-6-20220713					
Laboratory ID:	07-115-06					
Diesel Range Organics	ND	31	NWTPH-Dx	7-18-22	7-18-22	
Lube Oil Range Organics	ND	62	NWTPH-Dx	7-18-22	7-18-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	65	50-150				



Date of Report: July 27, 2022
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 Laboratory Reference: 2207-115
 Project: 6440-035-05

**DIESEL AND HEAVY OIL RANGE ORGANICS
 NWTPH-Dx**

Matrix: Sediment
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SEDB-7-20220713					
Laboratory ID:	07-115-07					
Diesel Range Organics	ND	31	NWTPH-Dx	7-18-22	7-18-22	
Lube Oil Range Organics	ND	61	NWTPH-Dx	7-18-22	7-18-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	70	50-150				
Client ID:	SEDB-8-20220713					
Laboratory ID:	07-115-08					
Diesel Range Organics	ND	31	NWTPH-Dx	7-18-22	7-18-22	
Lube Oil Range Organics	ND	63	NWTPH-Dx	7-18-22	7-18-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	68	50-150				



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 Project: 6440-035-05

PAHs EPA 8270E/SIM

Matrix: Sediment
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SEDB-1-20220713					
Laboratory ID:	07-115-01					
Naphthalene	ND	0.0082	EPA 8270E/SIM	7-18-22	7-19-22	
2-Methylnaphthalene	ND	0.0082	EPA 8270E/SIM	7-18-22	7-19-22	
1-Methylnaphthalene	ND	0.0082	EPA 8270E/SIM	7-18-22	7-19-22	
Acenaphthylene	ND	0.0082	EPA 8270E/SIM	7-18-22	7-19-22	
Acenaphthene	ND	0.0082	EPA 8270E/SIM	7-18-22	7-19-22	
Fluorene	ND	0.0082	EPA 8270E/SIM	7-18-22	7-19-22	
Phenanthrene	ND	0.0082	EPA 8270E/SIM	7-18-22	7-19-22	
Anthracene	ND	0.0082	EPA 8270E/SIM	7-18-22	7-19-22	
Fluoranthene	ND	0.0082	EPA 8270E/SIM	7-18-22	7-19-22	
Pyrene	ND	0.0082	EPA 8270E/SIM	7-18-22	7-19-22	
Benzo[a]anthracene	ND	0.0082	EPA 8270E/SIM	7-18-22	7-19-22	
Chrysene	ND	0.0082	EPA 8270E/SIM	7-18-22	7-19-22	
Benzo[b]fluoranthene	ND	0.0082	EPA 8270E/SIM	7-18-22	7-19-22	
Benzo(j,k)fluoranthene	ND	0.0082	EPA 8270E/SIM	7-18-22	7-19-22	
Benzo[a]pyrene	ND	0.0082	EPA 8270E/SIM	7-18-22	7-19-22	
Indeno[1,2,3-cd]pyrene	ND	0.0082	EPA 8270E/SIM	7-18-22	7-19-22	
Dibenz[a,h]anthracene	ND	0.0082	EPA 8270E/SIM	7-18-22	7-19-22	
Benzo[g,h,i]perylene	ND	0.0082	EPA 8270E/SIM	7-18-22	7-19-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
2-Fluorophenol	46	22 - 111				
Phenol-d6	53	31 - 117				
Nitrobenzene-d5	50	29 - 111				
2-Fluorobiphenyl	47	39 - 109				
2,4,6-Tribromophenol	62	36 - 127				
Terphenyl-d14	43	39 - 116				



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 Project: 6440-035-05

PAHs EPA 8270E/SIM

Matrix: Sediment
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SEDB-2-20220713					
Laboratory ID:	07-115-02					
Naphthalene	ND	0.0094	EPA 8270E/SIM	7-18-22	7-19-22	
2-Methylnaphthalene	ND	0.0094	EPA 8270E/SIM	7-18-22	7-19-22	
1-Methylnaphthalene	ND	0.0094	EPA 8270E/SIM	7-18-22	7-19-22	
Acenaphthylene	ND	0.0094	EPA 8270E/SIM	7-18-22	7-19-22	
Acenaphthene	ND	0.0094	EPA 8270E/SIM	7-18-22	7-19-22	
Fluorene	ND	0.0094	EPA 8270E/SIM	7-18-22	7-19-22	
Phenanthrene	ND	0.0094	EPA 8270E/SIM	7-18-22	7-19-22	
Anthracene	ND	0.0094	EPA 8270E/SIM	7-18-22	7-19-22	
Fluoranthene	ND	0.0094	EPA 8270E/SIM	7-18-22	7-19-22	
Pyrene	ND	0.0094	EPA 8270E/SIM	7-18-22	7-19-22	
Benzo[a]anthracene	ND	0.0094	EPA 8270E/SIM	7-18-22	7-19-22	
Chrysene	ND	0.0094	EPA 8270E/SIM	7-18-22	7-19-22	
Benzo[b]fluoranthene	ND	0.0094	EPA 8270E/SIM	7-18-22	7-19-22	
Benzo(j,k)fluoranthene	ND	0.0094	EPA 8270E/SIM	7-18-22	7-19-22	
Benzo[a]pyrene	ND	0.0094	EPA 8270E/SIM	7-18-22	7-19-22	
Indeno[1,2,3-cd]pyrene	ND	0.0094	EPA 8270E/SIM	7-18-22	7-19-22	
Dibenz[a,h]anthracene	ND	0.0094	EPA 8270E/SIM	7-18-22	7-19-22	
Benzo[g,h,i]perylene	ND	0.0094	EPA 8270E/SIM	7-18-22	7-19-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
2-Fluorophenol	45	22 - 111				
Phenol-d6	59	31 - 117				
Nitrobenzene-d5	46	29 - 111				
2-Fluorobiphenyl	42	39 - 109				
2,4,6-Tribromophenol	78	36 - 127				
Terphenyl-d14	48	39 - 116				



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 Project: 6440-035-05

PAHs EPA 8270E/SIM

Matrix: Sediment
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SEDB-3-20220713					
Laboratory ID:	07-115-03					
Naphthalene	ND	0.0054	EPA 8270E/SIM	7-18-22	7-19-22	
2-Methylnaphthalene	ND	0.0054	EPA 8270E/SIM	7-18-22	7-19-22	
1-Methylnaphthalene	ND	0.0054	EPA 8270E/SIM	7-18-22	7-19-22	
Acenaphthylene	ND	0.0054	EPA 8270E/SIM	7-18-22	7-19-22	
Acenaphthene	ND	0.0054	EPA 8270E/SIM	7-18-22	7-19-22	
Fluorene	ND	0.0054	EPA 8270E/SIM	7-18-22	7-19-22	
Phenanthrene	ND	0.0054	EPA 8270E/SIM	7-18-22	7-19-22	
Anthracene	ND	0.0054	EPA 8270E/SIM	7-18-22	7-19-22	
Fluoranthene	ND	0.0054	EPA 8270E/SIM	7-18-22	7-19-22	
Pyrene	ND	0.0054	EPA 8270E/SIM	7-18-22	7-19-22	
Benzo[a]anthracene	ND	0.0054	EPA 8270E/SIM	7-18-22	7-19-22	
Chrysene	ND	0.0054	EPA 8270E/SIM	7-18-22	7-19-22	
Benzo[b]fluoranthene	ND	0.0054	EPA 8270E/SIM	7-18-22	7-19-22	
Benzo(j,k)fluoranthene	ND	0.0054	EPA 8270E/SIM	7-18-22	7-19-22	
Benzo[a]pyrene	ND	0.0054	EPA 8270E/SIM	7-18-22	7-19-22	
Indeno[1,2,3-cd]pyrene	ND	0.0054	EPA 8270E/SIM	7-18-22	7-19-22	
Dibenz[a,h]anthracene	ND	0.0054	EPA 8270E/SIM	7-18-22	7-19-22	
Benzo[g,h,i]perylene	ND	0.0054	EPA 8270E/SIM	7-18-22	7-19-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
2-Fluorophenol	52	22 - 111				
Phenol-d6	59	31 - 117				
Nitrobenzene-d5	57	29 - 111				
2-Fluorobiphenyl	57	39 - 109				
2,4,6-Tribromophenol	74	36 - 127				
Terphenyl-d14	56	39 - 116				



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 Project: 6440-035-05

PAHs EPA 8270E/SIM

Matrix: Sediment
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SEDB-4-20220713					
Laboratory ID:	07-115-04					
Naphthalene	ND	0.0052	EPA 8270E/SIM	7-18-22	7-19-22	
2-Methylnaphthalene	ND	0.0052	EPA 8270E/SIM	7-18-22	7-19-22	
1-Methylnaphthalene	ND	0.0052	EPA 8270E/SIM	7-18-22	7-19-22	
Acenaphthylene	ND	0.0052	EPA 8270E/SIM	7-18-22	7-19-22	
Acenaphthene	ND	0.0052	EPA 8270E/SIM	7-18-22	7-19-22	
Fluorene	ND	0.0052	EPA 8270E/SIM	7-18-22	7-19-22	
Phenanthrene	ND	0.0052	EPA 8270E/SIM	7-18-22	7-19-22	
Anthracene	ND	0.0052	EPA 8270E/SIM	7-18-22	7-19-22	
Fluoranthene	ND	0.0052	EPA 8270E/SIM	7-18-22	7-19-22	
Pyrene	ND	0.0052	EPA 8270E/SIM	7-18-22	7-19-22	
Benzo[a]anthracene	ND	0.0052	EPA 8270E/SIM	7-18-22	7-19-22	
Chrysene	ND	0.0052	EPA 8270E/SIM	7-18-22	7-19-22	
Benzo[b]fluoranthene	ND	0.0052	EPA 8270E/SIM	7-18-22	7-19-22	
Benzo[j,k]fluoranthene	ND	0.0052	EPA 8270E/SIM	7-18-22	7-19-22	
Benzo[a]pyrene	ND	0.0052	EPA 8270E/SIM	7-18-22	7-19-22	
Indeno[1,2,3-cd]pyrene	ND	0.0052	EPA 8270E/SIM	7-18-22	7-19-22	
Dibenz[a,h]anthracene	ND	0.0052	EPA 8270E/SIM	7-18-22	7-19-22	
Benzo[g,h,i]perylene	ND	0.0052	EPA 8270E/SIM	7-18-22	7-19-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
2-Fluorophenol	46	22 - 111				
Phenol-d6	55	31 - 117				
Nitrobenzene-d5	51	29 - 111				
2-Fluorobiphenyl	53	39 - 109				
2,4,6-Tribromophenol	76	36 - 127				
Terphenyl-d14	59	39 - 116				



Date of Report: July 27, 2022
 Samples Submitted: July 14, 2022
 Laboratory Reference: 2207-115
 Project: 6440-035-05

PAHs EPA 8270E/SIM

Matrix: Sediment
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SEDB-5-20220713					
Laboratory ID:	07-115-05					
Naphthalene	ND	0.0049	EPA 8270E/SIM	7-18-22	7-19-22	
2-Methylnaphthalene	ND	0.0049	EPA 8270E/SIM	7-18-22	7-19-22	
1-Methylnaphthalene	ND	0.0049	EPA 8270E/SIM	7-18-22	7-19-22	
Acenaphthylene	ND	0.0049	EPA 8270E/SIM	7-18-22	7-19-22	
Acenaphthene	ND	0.0049	EPA 8270E/SIM	7-18-22	7-19-22	
Fluorene	ND	0.0049	EPA 8270E/SIM	7-18-22	7-19-22	
Phenanthrene	ND	0.0049	EPA 8270E/SIM	7-18-22	7-19-22	
Anthracene	ND	0.0049	EPA 8270E/SIM	7-18-22	7-19-22	
Fluoranthene	ND	0.0049	EPA 8270E/SIM	7-18-22	7-19-22	
Pyrene	ND	0.0049	EPA 8270E/SIM	7-18-22	7-19-22	
Benzo[a]anthracene	ND	0.0049	EPA 8270E/SIM	7-18-22	7-19-22	
Chrysene	ND	0.0049	EPA 8270E/SIM	7-18-22	7-19-22	
Benzo[b]fluoranthene	ND	0.0049	EPA 8270E/SIM	7-18-22	7-19-22	
Benzo(j,k)fluoranthene	ND	0.0049	EPA 8270E/SIM	7-18-22	7-19-22	
Benzo[a]pyrene	ND	0.0049	EPA 8270E/SIM	7-18-22	7-19-22	
Indeno[1,2,3-cd]pyrene	ND	0.0049	EPA 8270E/SIM	7-18-22	7-19-22	
Dibenz[a,h]anthracene	ND	0.0049	EPA 8270E/SIM	7-18-22	7-19-22	
Benzo[g,h,i]perylene	ND	0.0049	EPA 8270E/SIM	7-18-22	7-19-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
2-Fluorophenol	54	22 - 111				
Phenol-d6	63	31 - 117				
Nitrobenzene-d5	57	29 - 111				
2-Fluorobiphenyl	61	39 - 109				
2,4,6-Tribromophenol	82	36 - 127				
Terphenyl-d14	67	39 - 116				



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 Project: 6440-035-05

PAHs EPA 8270E/SIM

Matrix: Sediment
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SEDB-6-20220713					
Laboratory ID:	07-115-06					
Naphthalene	ND	0.0049	EPA 8270E/SIM	7-18-22	7-19-22	
2-Methylnaphthalene	ND	0.0049	EPA 8270E/SIM	7-18-22	7-19-22	
1-Methylnaphthalene	ND	0.0049	EPA 8270E/SIM	7-18-22	7-19-22	
Acenaphthylene	ND	0.0049	EPA 8270E/SIM	7-18-22	7-19-22	
Acenaphthene	ND	0.0049	EPA 8270E/SIM	7-18-22	7-19-22	
Fluorene	ND	0.0049	EPA 8270E/SIM	7-18-22	7-19-22	
Phenanthrene	ND	0.0049	EPA 8270E/SIM	7-18-22	7-19-22	
Anthracene	ND	0.0049	EPA 8270E/SIM	7-18-22	7-19-22	
Fluoranthene	ND	0.0049	EPA 8270E/SIM	7-18-22	7-19-22	
Pyrene	ND	0.0049	EPA 8270E/SIM	7-18-22	7-19-22	
Benzo[a]anthracene	ND	0.0049	EPA 8270E/SIM	7-18-22	7-19-22	
Chrysene	ND	0.0049	EPA 8270E/SIM	7-18-22	7-19-22	
Benzo[b]fluoranthene	ND	0.0049	EPA 8270E/SIM	7-18-22	7-19-22	
Benzo(j,k)fluoranthene	ND	0.0049	EPA 8270E/SIM	7-18-22	7-19-22	
Benzo[a]pyrene	ND	0.0049	EPA 8270E/SIM	7-18-22	7-19-22	
Indeno[1,2,3-cd]pyrene	ND	0.0049	EPA 8270E/SIM	7-18-22	7-19-22	
Dibenz[a,h]anthracene	ND	0.0049	EPA 8270E/SIM	7-18-22	7-19-22	
Benzo[g,h,i]perylene	ND	0.0049	EPA 8270E/SIM	7-18-22	7-19-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
2-Fluorophenol	61	22 - 111				
Phenol-d6	69	31 - 117				
Nitrobenzene-d5	67	29 - 111				
2-Fluorobiphenyl	72	39 - 109				
2,4,6-Tribromophenol	86	36 - 127				
Terphenyl-d14	73	39 - 116				



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 Project: 6440-035-05

PAHs EPA 8270E/SIM

Matrix: Sediment
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SEDB-7-20220713					
Laboratory ID:	07-115-07					
Naphthalene	ND	0.0049	EPA 8270E/SIM	7-18-22	7-19-22	
2-Methylnaphthalene	ND	0.0049	EPA 8270E/SIM	7-18-22	7-19-22	
1-Methylnaphthalene	ND	0.0049	EPA 8270E/SIM	7-18-22	7-19-22	
Acenaphthylene	ND	0.0049	EPA 8270E/SIM	7-18-22	7-19-22	
Acenaphthene	ND	0.0049	EPA 8270E/SIM	7-18-22	7-19-22	
Fluorene	ND	0.0049	EPA 8270E/SIM	7-18-22	7-19-22	
Phenanthrene	ND	0.0049	EPA 8270E/SIM	7-18-22	7-19-22	
Anthracene	ND	0.0049	EPA 8270E/SIM	7-18-22	7-19-22	
Fluoranthene	ND	0.0049	EPA 8270E/SIM	7-18-22	7-19-22	
Pyrene	ND	0.0049	EPA 8270E/SIM	7-18-22	7-19-22	
Benzo[a]anthracene	ND	0.0049	EPA 8270E/SIM	7-18-22	7-19-22	
Chrysene	ND	0.0049	EPA 8270E/SIM	7-18-22	7-19-22	
Benzo[b]fluoranthene	ND	0.0049	EPA 8270E/SIM	7-18-22	7-19-22	
Benzo(j,k)fluoranthene	ND	0.0049	EPA 8270E/SIM	7-18-22	7-19-22	
Benzo[a]pyrene	ND	0.0049	EPA 8270E/SIM	7-18-22	7-19-22	
Indeno[1,2,3-cd]pyrene	ND	0.0049	EPA 8270E/SIM	7-18-22	7-19-22	
Dibenz[a,h]anthracene	ND	0.0049	EPA 8270E/SIM	7-18-22	7-19-22	
Benzo[g,h,i]perylene	ND	0.0049	EPA 8270E/SIM	7-18-22	7-19-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
2-Fluorophenol	48	22 - 111				
Phenol-d6	56	31 - 117				
Nitrobenzene-d5	53	29 - 111				
2-Fluorobiphenyl	58	39 - 109				
2,4,6-Tribromophenol	78	36 - 127				
Terphenyl-d14	62	39 - 116				



Date of Report: July 27, 2022
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 Laboratory Reference: 2207-115
 Project: 6440-035-05

PAHs EPA 8270E/SIM

Matrix: Sediment
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SEDB-8-20220713					
Laboratory ID:	07-115-08					
Naphthalene	ND	0.0050	EPA 8270E/SIM	7-18-22	7-19-22	
2-Methylnaphthalene	ND	0.0050	EPA 8270E/SIM	7-18-22	7-19-22	
1-Methylnaphthalene	ND	0.0050	EPA 8270E/SIM	7-18-22	7-19-22	
Acenaphthylene	ND	0.0050	EPA 8270E/SIM	7-18-22	7-19-22	
Acenaphthene	ND	0.0050	EPA 8270E/SIM	7-18-22	7-19-22	
Fluorene	ND	0.0050	EPA 8270E/SIM	7-18-22	7-19-22	
Phenanthrene	ND	0.0050	EPA 8270E/SIM	7-18-22	7-19-22	
Anthracene	ND	0.0050	EPA 8270E/SIM	7-18-22	7-19-22	
Fluoranthene	ND	0.0050	EPA 8270E/SIM	7-18-22	7-19-22	
Pyrene	ND	0.0050	EPA 8270E/SIM	7-18-22	7-19-22	
Benzo[a]anthracene	ND	0.0050	EPA 8270E/SIM	7-18-22	7-19-22	
Chrysene	ND	0.0050	EPA 8270E/SIM	7-18-22	7-19-22	
Benzo[b]fluoranthene	ND	0.0050	EPA 8270E/SIM	7-18-22	7-19-22	
Benzo(j,k)fluoranthene	ND	0.0050	EPA 8270E/SIM	7-18-22	7-19-22	
Benzo[a]pyrene	ND	0.0050	EPA 8270E/SIM	7-18-22	7-19-22	
Indeno[1,2,3-cd]pyrene	ND	0.0050	EPA 8270E/SIM	7-18-22	7-19-22	
Dibenz[a,h]anthracene	ND	0.0050	EPA 8270E/SIM	7-18-22	7-19-22	
Benzo[g,h,i]perylene	ND	0.0050	EPA 8270E/SIM	7-18-22	7-19-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
2-Fluorophenol	27	22 - 111				
Phenol-d6	34	31 - 117				
Nitrobenzene-d5	29	29 - 111				
2-Fluorobiphenyl	37	39 - 109				Q
2,4,6-Tribromophenol	52	36 - 127				
Terphenyl-d14	45	39 - 116				



Date of Report: July 27, 2022
 Samples Submitted: July 14, 2022
 Laboratory Reference: 2207-115
 Project: 6440-035-05

**ORGANOCHLORINE
 PESTICIDES EPA 8081B**

Matrix: Sediment
 Units: ug/Kg (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SEDB-1-20220713					
Laboratory ID:	07-115-01					
alpha-BHC	ND	10	EPA 8081B	7-19-22	7-19-22	
gamma-BHC	ND	10	EPA 8081B	7-19-22	7-19-22	
beta-BHC	ND	10	EPA 8081B	7-19-22	7-19-22	
delta-BHC	ND	10	EPA 8081B	7-19-22	7-19-22	
Heptachlor	ND	10	EPA 8081B	7-19-22	7-19-22	
Aldrin	ND	10	EPA 8081B	7-19-22	7-19-22	
Heptachlor epoxide	ND	10	EPA 8081B	7-19-22	7-19-22	
gamma-Chlordane	ND	21	EPA 8081B	7-19-22	7-19-22	
alpha-Chlordane	ND	21	EPA 8081B	7-19-22	7-19-22	
4,4'-DDE	ND	21	EPA 8081B	7-19-22	7-19-22	
Endosulfan I	ND	10	EPA 8081B	7-19-22	7-19-22	
Dieldrin	ND	21	EPA 8081B	7-19-22	7-19-22	
Endrin	ND	21	EPA 8081B	7-19-22	7-19-22	
4,4'-DDD	ND	21	EPA 8081B	7-19-22	7-19-22	
Endosulfan II	ND	21	EPA 8081B	7-19-22	7-19-22	
4,4'-DDT	ND	84	EPA 8081B	7-19-22	7-22-22	
Endrin aldehyde	ND	21	EPA 8081B	7-19-22	7-19-22	
Methoxychlor	ND	84	EPA 8081B	7-19-22	7-22-22	
Endosulfan sulfate	ND	21	EPA 8081B	7-19-22	7-19-22	
Endrin ketone	ND	21	EPA 8081B	7-19-22	7-19-22	
Toxaphene	ND	100	EPA 8081B	7-19-22	7-19-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control limits</i>				
<i>Tetrachloro-m-xylene</i>	50	35-110				
<i>Decachlorobiphenyl</i>	53	32-122				



Date of Report: July 27, 2022
 Samples Submitted: July 14, 2022
 Laboratory Reference: 2207-115
 Project: 6440-035-05

**ORGANOCHLORINE
 PESTICIDES EPA 8081B**

Matrix: Sediment
 Units: ug/Kg (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SEDB-2-20220713					
Laboratory ID:	07-115-02					
alpha-BHC	ND	12	EPA 8081B	7-19-22	7-19-22	
gamma-BHC	ND	12	EPA 8081B	7-19-22	7-19-22	
beta-BHC	ND	12	EPA 8081B	7-19-22	7-19-22	
delta-BHC	ND	12	EPA 8081B	7-19-22	7-19-22	
Heptachlor	ND	12	EPA 8081B	7-19-22	7-19-22	
Aldrin	ND	12	EPA 8081B	7-19-22	7-19-22	
Heptachlor epoxide	ND	12	EPA 8081B	7-19-22	7-19-22	
gamma-Chlordane	ND	23	EPA 8081B	7-19-22	7-19-22	
alpha-Chlordane	ND	23	EPA 8081B	7-19-22	7-19-22	
4,4'-DDE	ND	23	EPA 8081B	7-19-22	7-19-22	
Endosulfan I	ND	12	EPA 8081B	7-19-22	7-19-22	
Dieldrin	ND	23	EPA 8081B	7-19-22	7-19-22	
Endrin	ND	23	EPA 8081B	7-19-22	7-19-22	
4,4'-DDD	ND	23	EPA 8081B	7-19-22	7-19-22	
Endosulfan II	ND	23	EPA 8081B	7-19-22	7-19-22	
4,4'-DDT	ND	92	EPA 8081B	7-19-22	7-22-22	
Endrin aldehyde	ND	23	EPA 8081B	7-19-22	7-19-22	
Methoxychlor	ND	92	EPA 8081B	7-19-22	7-22-22	
Endosulfan sulfate	ND	23	EPA 8081B	7-19-22	7-19-22	
Endrin ketone	ND	23	EPA 8081B	7-19-22	7-19-22	
Toxaphene	ND	120	EPA 8081B	7-19-22	7-19-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control limits</i>				
<i>Tetrachloro-m-xylene</i>	56	35-110				
<i>Decachlorobiphenyl</i>	59	32-122				



Date of Report: July 27, 2022
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 Project: 6440-035-05

**ORGANOCHLORINE
 PESTICIDES EPA 8081B**

Matrix: Sediment
 Units: ug/Kg (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SEDB-3-20220713					
Laboratory ID:	07-115-03					
alpha-BHC	ND	6.8	EPA 8081B	7-19-22	7-19-22	
gamma-BHC	ND	6.8	EPA 8081B	7-19-22	7-19-22	
beta-BHC	ND	6.8	EPA 8081B	7-19-22	7-19-22	
delta-BHC	ND	6.8	EPA 8081B	7-19-22	7-19-22	
Heptachlor	37	6.8	EPA 8081B	7-19-22	7-19-22	
Aldrin	ND	6.8	EPA 8081B	7-19-22	7-19-22	
Heptachlor epoxide	ND	6.8	EPA 8081B	7-19-22	7-19-22	
gamma-Chlordane	ND	14	EPA 8081B	7-19-22	7-19-22	
alpha-Chlordane	ND	14	EPA 8081B	7-19-22	7-19-22	
4,4'-DDE	ND	14	EPA 8081B	7-19-22	7-19-22	
Endosulfan I	ND	6.8	EPA 8081B	7-19-22	7-19-22	
Dieldrin	ND	14	EPA 8081B	7-19-22	7-19-22	
Endrin	ND	14	EPA 8081B	7-19-22	7-19-22	
4,4'-DDD	ND	14	EPA 8081B	7-19-22	7-19-22	
Endosulfan II	ND	14	EPA 8081B	7-19-22	7-19-22	
4,4'-DDT	ND	56	EPA 8081B	7-19-22	7-22-22	
Endrin aldehyde	ND	14	EPA 8081B	7-19-22	7-19-22	
Methoxychlor	ND	56	EPA 8081B	7-19-22	7-22-22	
Endosulfan sulfate	ND	14	EPA 8081B	7-19-22	7-19-22	
Endrin ketone	ND	14	EPA 8081B	7-19-22	7-19-22	
Toxaphene	ND	68	EPA 8081B	7-19-22	7-19-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control limits</i>				
<i>Tetrachloro-m-xylene</i>	55	35-110				
<i>Decachlorobiphenyl</i>	58	32-122				



Date of Report: July 27, 2022
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 Project: 6440-035-05

**ORGANOCHLORINE
 PESTICIDES EPA 8081B**

Matrix: Sediment
 Units: ug/Kg (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SEDB-4-20220713					
Laboratory ID:	07-115-04					
alpha-BHC	ND	6.5	EPA 8081B	7-19-22	7-19-22	
gamma-BHC	ND	6.5	EPA 8081B	7-19-22	7-19-22	
beta-BHC	ND	6.5	EPA 8081B	7-19-22	7-19-22	
delta-BHC	ND	6.5	EPA 8081B	7-19-22	7-19-22	
Heptachlor	ND	6.5	EPA 8081B	7-19-22	7-19-22	
Aldrin	ND	6.5	EPA 8081B	7-19-22	7-19-22	
Heptachlor epoxide	ND	6.5	EPA 8081B	7-19-22	7-19-22	
gamma-Chlordane	ND	13	EPA 8081B	7-19-22	7-19-22	
alpha-Chlordane	ND	13	EPA 8081B	7-19-22	7-19-22	
4,4'-DDE	ND	13	EPA 8081B	7-19-22	7-19-22	
Endosulfan I	ND	6.5	EPA 8081B	7-19-22	7-19-22	
Dieldrin	ND	13	EPA 8081B	7-19-22	7-19-22	
Endrin	ND	13	EPA 8081B	7-19-22	7-19-22	
4,4'-DDD	ND	13	EPA 8081B	7-19-22	7-19-22	
Endosulfan II	ND	13	EPA 8081B	7-19-22	7-19-22	
4,4'-DDT	ND	13	EPA 8081B	7-19-22	7-19-22	
Endrin aldehyde	ND	13	EPA 8081B	7-19-22	7-19-22	
Methoxychlor	ND	13	EPA 8081B	7-19-22	7-19-22	
Endosulfan sulfate	ND	13	EPA 8081B	7-19-22	7-19-22	
Endrin ketone	ND	13	EPA 8081B	7-19-22	7-19-22	
Toxaphene	ND	65	EPA 8081B	7-19-22	7-19-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control limits</i>				
<i>Tetrachloro-m-xylene</i>	70	35-110				
<i>Decachlorobiphenyl</i>	81	32-122				



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 Project: 6440-035-05

**ORGANOCHLORINE
 PESTICIDES EPA 8081B**

Matrix: Sediment
 Units: ug/Kg (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SEDB-5-20220713					
Laboratory ID:	07-115-05					
alpha-BHC	ND	6.1	EPA 8081B	7-19-22	7-19-22	
gamma-BHC	ND	6.1	EPA 8081B	7-19-22	7-19-22	
beta-BHC	ND	6.1	EPA 8081B	7-19-22	7-19-22	
delta-BHC	ND	6.1	EPA 8081B	7-19-22	7-19-22	
Heptachlor	ND	6.1	EPA 8081B	7-19-22	7-19-22	
Aldrin	ND	6.1	EPA 8081B	7-19-22	7-19-22	
Heptachlor epoxide	ND	6.1	EPA 8081B	7-19-22	7-19-22	
gamma-Chlordane	ND	12	EPA 8081B	7-19-22	7-19-22	
alpha-Chlordane	ND	12	EPA 8081B	7-19-22	7-19-22	
4,4'-DDE	ND	12	EPA 8081B	7-19-22	7-19-22	
Endosulfan I	ND	6.1	EPA 8081B	7-19-22	7-19-22	
Dieldrin	ND	12	EPA 8081B	7-19-22	7-19-22	
Endrin	ND	12	EPA 8081B	7-19-22	7-19-22	
4,4'-DDD	ND	12	EPA 8081B	7-19-22	7-19-22	
Endosulfan II	ND	12	EPA 8081B	7-19-22	7-19-22	
4,4'-DDT	ND	12	EPA 8081B	7-19-22	7-19-22	
Endrin aldehyde	ND	12	EPA 8081B	7-19-22	7-19-22	
Methoxychlor	ND	12	EPA 8081B	7-19-22	7-19-22	
Endosulfan sulfate	ND	12	EPA 8081B	7-19-22	7-19-22	
Endrin ketone	ND	12	EPA 8081B	7-19-22	7-19-22	
Toxaphene	ND	61	EPA 8081B	7-19-22	7-19-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control limits</i>				
<i>Tetrachloro-m-xylene</i>	70	35-110				
<i>Decachlorobiphenyl</i>	82	32-122				



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 Project: 6440-035-05

**ORGANOCHLORINE
 PESTICIDES EPA 8081B**

Matrix: Sediment
 Units: ug/Kg (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SEDB-6-20220713					
Laboratory ID:	07-115-06					
alpha-BHC	ND	6.2	EPA 8081B	7-19-22	7-19-22	
gamma-BHC	ND	6.2	EPA 8081B	7-19-22	7-19-22	
beta-BHC	ND	6.2	EPA 8081B	7-19-22	7-19-22	
delta-BHC	ND	6.2	EPA 8081B	7-19-22	7-19-22	
Heptachlor	ND	6.2	EPA 8081B	7-19-22	7-19-22	
Aldrin	ND	6.2	EPA 8081B	7-19-22	7-19-22	
Heptachlor epoxide	ND	6.2	EPA 8081B	7-19-22	7-19-22	
gamma-Chlordane	ND	12	EPA 8081B	7-19-22	7-19-22	
alpha-Chlordane	ND	12	EPA 8081B	7-19-22	7-19-22	
4,4'-DDE	ND	12	EPA 8081B	7-19-22	7-19-22	
Endosulfan I	ND	6.2	EPA 8081B	7-19-22	7-19-22	
Dieldrin	ND	12	EPA 8081B	7-19-22	7-19-22	
Endrin	ND	12	EPA 8081B	7-19-22	7-19-22	
4,4'-DDD	ND	12	EPA 8081B	7-19-22	7-19-22	
Endosulfan II	ND	12	EPA 8081B	7-19-22	7-19-22	
4,4'-DDT	ND	12	EPA 8081B	7-19-22	7-19-22	
Endrin aldehyde	ND	12	EPA 8081B	7-19-22	7-19-22	
Methoxychlor	ND	12	EPA 8081B	7-19-22	7-19-22	
Endosulfan sulfate	ND	12	EPA 8081B	7-19-22	7-19-22	
Endrin ketone	ND	12	EPA 8081B	7-19-22	7-19-22	
Toxaphene	ND	62	EPA 8081B	7-19-22	7-19-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control limits</i>				
<i>Tetrachloro-m-xylene</i>	62	35-110				
<i>Decachlorobiphenyl</i>	72	32-122				



Date of Report: July 27, 2022
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 Project: 6440-035-05

**ORGANOCHLORINE
 PESTICIDES EPA 8081B**

Matrix: Sediment
 Units: ug/Kg (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SEDB-7-20220713					
Laboratory ID:	07-115-07					
alpha-BHC	ND	6.1	EPA 8081B	7-19-22	7-19-22	
gamma-BHC	ND	6.1	EPA 8081B	7-19-22	7-19-22	
beta-BHC	ND	6.1	EPA 8081B	7-19-22	7-19-22	
delta-BHC	ND	6.1	EPA 8081B	7-19-22	7-19-22	
Heptachlor	ND	6.1	EPA 8081B	7-19-22	7-19-22	
Aldrin	ND	6.1	EPA 8081B	7-19-22	7-19-22	
Heptachlor epoxide	ND	6.1	EPA 8081B	7-19-22	7-19-22	
gamma-Chlordane	ND	12	EPA 8081B	7-19-22	7-19-22	
alpha-Chlordane	ND	12	EPA 8081B	7-19-22	7-19-22	
4,4'-DDE	ND	12	EPA 8081B	7-19-22	7-19-22	
Endosulfan I	ND	6.1	EPA 8081B	7-19-22	7-19-22	
Dieldrin	ND	12	EPA 8081B	7-19-22	7-19-22	
Endrin	ND	12	EPA 8081B	7-19-22	7-19-22	
4,4'-DDD	ND	12	EPA 8081B	7-19-22	7-19-22	
Endosulfan II	ND	12	EPA 8081B	7-19-22	7-19-22	
4,4'-DDT	ND	12	EPA 8081B	7-19-22	7-19-22	
Endrin aldehyde	ND	12	EPA 8081B	7-19-22	7-19-22	
Methoxychlor	ND	12	EPA 8081B	7-19-22	7-19-22	
Endosulfan sulfate	ND	12	EPA 8081B	7-19-22	7-19-22	
Endrin ketone	ND	12	EPA 8081B	7-19-22	7-19-22	
Toxaphene	ND	61	EPA 8081B	7-19-22	7-19-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control limits</i>				
<i>Tetrachloro-m-xylene</i>	70	35-110				
<i>Decachlorobiphenyl</i>	80	32-122				



Date of Report: July 27, 2022
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 Project: 6440-035-05

**ORGANOCHLORINE
 PESTICIDES EPA 8081B**

Matrix: Sediment
 Units: ug/Kg (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SEDB-8-20220713					
Laboratory ID:	07-115-08					
alpha-BHC	ND	6.3	EPA 8081B	7-19-22	7-19-22	
gamma-BHC	ND	6.3	EPA 8081B	7-19-22	7-19-22	
beta-BHC	ND	6.3	EPA 8081B	7-19-22	7-19-22	
delta-BHC	ND	6.3	EPA 8081B	7-19-22	7-19-22	
Heptachlor	ND	6.3	EPA 8081B	7-19-22	7-19-22	
Aldrin	ND	6.3	EPA 8081B	7-19-22	7-19-22	
Heptachlor epoxide	ND	6.3	EPA 8081B	7-19-22	7-19-22	
gamma-Chlordane	ND	13	EPA 8081B	7-19-22	7-19-22	
alpha-Chlordane	ND	13	EPA 8081B	7-19-22	7-19-22	
4,4'-DDE	ND	13	EPA 8081B	7-19-22	7-19-22	
Endosulfan I	ND	6.3	EPA 8081B	7-19-22	7-19-22	
Dieldrin	ND	13	EPA 8081B	7-19-22	7-19-22	
Endrin	ND	13	EPA 8081B	7-19-22	7-19-22	
4,4'-DDD	ND	13	EPA 8081B	7-19-22	7-19-22	
Endosulfan II	ND	13	EPA 8081B	7-19-22	7-19-22	
4,4'-DDT	ND	13	EPA 8081B	7-19-22	7-19-22	
Endrin aldehyde	ND	13	EPA 8081B	7-19-22	7-19-22	
Methoxychlor	ND	13	EPA 8081B	7-19-22	7-19-22	
Endosulfan sulfate	ND	13	EPA 8081B	7-19-22	7-19-22	
Endrin ketone	ND	13	EPA 8081B	7-19-22	7-19-22	
Toxaphene	ND	63	EPA 8081B	7-19-22	7-19-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control limits</i>				
<i>Tetrachloro-m-xylene</i>	<i>74</i>	<i>35-110</i>				
<i>Decachlorobiphenyl</i>	<i>84</i>	<i>32-122</i>				



Date of Report: July 27, 2022
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 Project: 6440-035-05

**TOTAL METALS
 EPA 6010D/7471B**

Matrix: Sediment
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SEDB-1-20220713					
Laboratory ID:	07-115-01					
Arsenic	ND	10	EPA 6010D	7-20-22	7-21-22	
Cadmium	ND	1.0	EPA 6010D	7-20-22	7-21-22	
Chromium	39	1.0	EPA 6010D	7-20-22	7-21-22	
Copper	10	2.1	EPA 6010D	7-20-22	7-21-22	
Iron	16000	1000	EPA 6010D	7-20-22	7-21-22	
Lead	22	10	EPA 6010D	7-20-22	7-21-22	
Manganese	210	1.0	EPA 6010D	7-20-22	7-21-22	
Mercury	ND	0.51	EPA 7471B	7-19-22	7-19-22	
Nickel	43	5.1	EPA 6010D	7-20-22	7-21-22	
Selenium	ND	10	EPA 6010D	7-20-22	7-21-22	
Zinc	35	5.1	EPA 6010D	7-20-22	7-21-22	

Client ID:	SEDB-2-20220713					
Laboratory ID:	07-115-02					
Arsenic	ND	12	EPA 6010D	7-20-22	7-21-22	
Cadmium	ND	1.2	EPA 6010D	7-20-22	7-21-22	
Chromium	25	1.2	EPA 6010D	7-20-22	7-21-22	
Copper	9.6	2.3	EPA 6010D	7-20-22	7-21-22	
Iron	11000	1200	EPA 6010D	7-20-22	7-21-22	
Lead	ND	12	EPA 6010D	7-20-22	7-21-22	
Manganese	140	1.2	EPA 6010D	7-20-22	7-21-22	
Mercury	ND	0.59	EPA 7471B	7-19-22	7-19-22	
Nickel	35	5.9	EPA 6010D	7-20-22	7-21-22	
Selenium	ND	12	EPA 6010D	7-20-22	7-21-22	
Zinc	28	5.9	EPA 6010D	7-20-22	7-21-22	



Date of Report: July 27, 2022
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**TOTAL METALS
 EPA 6010D/7471B**

Matrix: Sediment
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SEDB-3-20220713					
Laboratory ID:	07-115-03					
Arsenic	ND	14	EPA 6010D	7-20-22	7-21-22	
Cadmium	ND	0.68	EPA 6010D	7-20-22	7-21-22	
Chromium	34	0.68	EPA 6010D	7-20-22	7-21-22	
Copper	11	1.4	EPA 6010D	7-20-22	7-21-22	
Iron	17000	1400	EPA 6010D	7-20-22	7-21-22	
Lead	ND	6.8	EPA 6010D	7-20-22	7-21-22	
Manganese	200	0.68	EPA 6010D	7-20-22	7-21-22	
Mercury	ND	0.34	EPA 7471B	7-19-22	7-19-22	
Nickel	48	3.4	EPA 6010D	7-20-22	7-21-22	
Selenium	ND	14	EPA 6010D	7-20-22	7-21-22	
Zinc	32	3.4	EPA 6010D	7-20-22	7-21-22	

Client ID:	SEDB-4-20220713					
Laboratory ID:	07-115-04					
Arsenic	ND	13	EPA 6010D	7-20-22	7-21-22	
Cadmium	ND	0.65	EPA 6010D	7-20-22	7-21-22	
Chromium	29	0.65	EPA 6010D	7-20-22	7-21-22	
Copper	11	1.3	EPA 6010D	7-20-22	7-21-22	
Iron	16000	1300	EPA 6010D	7-20-22	7-21-22	
Lead	ND	6.5	EPA 6010D	7-20-22	7-21-22	
Manganese	250	0.65	EPA 6010D	7-20-22	7-21-22	
Mercury	ND	0.33	EPA 7471B	7-19-22	7-19-22	
Nickel	43	3.3	EPA 6010D	7-20-22	7-21-22	
Selenium	ND	13	EPA 6010D	7-20-22	7-21-22	
Zinc	41	3.3	EPA 6010D	7-20-22	7-21-22	



Date of Report: July 27, 2022
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 Project: 6440-035-05

**TOTAL METALS
 EPA 6010D/7471B**

Matrix: Sediment
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SEDB-5-20220713					
Laboratory ID:	07-115-05					
Arsenic	ND	12	EPA 6010D	7-20-22	7-21-22	
Cadmium	ND	0.61	EPA 6010D	7-20-22	7-21-22	
Chromium	25	0.61	EPA 6010D	7-20-22	7-21-22	
Copper	9.5	1.2	EPA 6010D	7-20-22	7-21-22	
Iron	16000	1200	EPA 6010D	7-20-22	7-21-22	
Lead	ND	6.1	EPA 6010D	7-20-22	7-21-22	
Manganese	250	0.61	EPA 6010D	7-20-22	7-21-22	
Mercury	ND	0.30	EPA 7471B	7-19-22	7-19-22	
Nickel	39	3.0	EPA 6010D	7-20-22	7-21-22	
Selenium	ND	12	EPA 6010D	7-20-22	7-21-22	
Zinc	38	3.0	EPA 6010D	7-20-22	7-21-22	

Client ID:	SEDB-6-20220713					
Laboratory ID:	07-115-06					
Arsenic	ND	12	EPA 6010D	7-20-22	7-21-22	
Cadmium	ND	0.62	EPA 6010D	7-20-22	7-21-22	
Chromium	27	0.62	EPA 6010D	7-20-22	7-21-22	
Copper	8.8	1.2	EPA 6010D	7-20-22	7-21-22	
Iron	20000	1200	EPA 6010D	7-20-22	7-21-22	
Lead	ND	6.2	EPA 6010D	7-20-22	7-21-22	
Manganese	210	0.62	EPA 6010D	7-20-22	7-21-22	
Mercury	ND	0.31	EPA 7471B	7-19-22	7-19-22	
Nickel	44	3.1	EPA 6010D	7-20-22	7-21-22	
Selenium	ND	12	EPA 6010D	7-20-22	7-21-22	
Zinc	35	3.1	EPA 6010D	7-20-22	7-21-22	



Date of Report: July 27, 2022
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 Laboratory Reference: 2207-115
 Project: 6440-035-05

**TOTAL METALS
 EPA 6010D/7471B**

Matrix: Sediment
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SEDB-7-20220713					
Laboratory ID:	07-115-07					
Arsenic	ND	12	EPA 6010D	7-20-22	7-21-22	
Cadmium	ND	0.61	EPA 6010D	7-20-22	7-21-22	
Chromium	26	0.61	EPA 6010D	7-20-22	7-21-22	
Copper	9.2	1.2	EPA 6010D	7-20-22	7-21-22	
Iron	15000	1200	EPA 6010D	7-20-22	7-21-22	
Lead	ND	6.1	EPA 6010D	7-20-22	7-21-22	
Manganese	230	0.61	EPA 6010D	7-20-22	7-21-22	
Mercury	ND	0.31	EPA 7471B	7-19-22	7-19-22	
Nickel	42	3.1	EPA 6010D	7-20-22	7-21-22	
Selenium	ND	12	EPA 6010D	7-20-22	7-21-22	
Zinc	37	3.1	EPA 6010D	7-20-22	7-21-22	

Client ID:	SEDB-8-20220713					
Laboratory ID:	07-115-08					
Arsenic	ND	13	EPA 6010D	7-20-22	7-21-22	
Cadmium	ND	0.63	EPA 6010D	7-20-22	7-21-22	
Chromium	25	0.63	EPA 6010D	7-20-22	7-21-22	
Copper	9.6	1.3	EPA 6010D	7-20-22	7-21-22	
Iron	15000	1300	EPA 6010D	7-20-22	7-21-22	
Lead	ND	6.3	EPA 6010D	7-20-22	7-21-22	
Manganese	230	0.63	EPA 6010D	7-20-22	7-21-22	
Mercury	ND	0.31	EPA 7471B	7-19-22	7-19-22	
Nickel	40	3.1	EPA 6010D	7-20-22	7-21-22	
Selenium	ND	13	EPA 6010D	7-20-22	7-21-22	
Zinc	40	3.1	EPA 6010D	7-20-22	7-21-22	



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 Project: 6440-035-05

**TOTAL SOLIDS
 SM 2540G**

Matrix: Sediment
 Units: % Solids

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SEDB-1-20220713					
Laboratory ID:	07-115-01					
Total Solids	49	0.50	SM 2540G	7-18-22	7-19-22	
Client ID:	SEDB-2-20220713					
Laboratory ID:	07-115-02					
Total Solids	43	0.50	SM 2540G	7-18-22	7-19-22	
Client ID:	SEDB-3-20220713					
Laboratory ID:	07-115-03					
Total Solids	74	0.50	SM 2540G	7-18-22	7-19-22	
Client ID:	SEDB-4-20220713					
Laboratory ID:	07-115-04					
Total Solids	77	0.50	SM 2540G	7-18-22	7-19-22	
Client ID:	SEDB-5-20220713					
Laboratory ID:	07-115-05					
Total Solids	82	0.50	SM 2540G	7-18-22	7-19-22	
Client ID:	SEDB-6-20220713					
Laboratory ID:	07-115-06					
Total Solids	81	0.50	SM 2540G	7-18-22	7-19-22	
Client ID:	SEDB-7-20220713					
Laboratory ID:	07-115-07					
Total Solids	82	0.50	SM 2540G	7-18-22	7-19-22	



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**TOTAL SOLIDS
 SM 2540G**

Matrix: Sediment
 Units: % Solids

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SEDB-8-20220713					
Laboratory ID:	07-115-08					
Total Solids	80	0.50	SM 2540G	7-18-22	7-19-22	



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**DIESEL AND HEAVY OIL RANGE ORGANICS
 NWTPH-Dx
 QUALITY CONTROL**

Matrix: Solid
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0718S1					
Diesel Range Organics	ND	25	NWTPH-Dx	7-18-22	7-18-22	
Lube Oil Range Organics	ND	50	NWTPH-Dx	7-18-22	7-18-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	73	50-150				

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	SB0718S1							
	ORIG	DUP						
Diesel Fuel #2	73.7	68.5	NA	NA	NA	NA	7	NA
<i>Surrogate:</i>								
<i>o-Terphenyl</i>				73	67	50-150		



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 Project: 6440-035-05

**PAHs EPA 8270E/SIM
 QUALITY CONTROL**

Matrix: Solid
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0718S1					
Naphthalene	ND	0.0040	EPA 8270E/SIM	7-18-22	7-19-22	
2-Methylnaphthalene	ND	0.0040	EPA 8270E/SIM	7-18-22	7-19-22	
1-Methylnaphthalene	ND	0.0040	EPA 8270E/SIM	7-18-22	7-19-22	
Acenaphthylene	ND	0.0040	EPA 8270E/SIM	7-18-22	7-19-22	
Acenaphthene	ND	0.0040	EPA 8270E/SIM	7-18-22	7-19-22	
Fluorene	ND	0.0040	EPA 8270E/SIM	7-18-22	7-19-22	
Phenanthrene	ND	0.0040	EPA 8270E/SIM	7-18-22	7-19-22	
Anthracene	ND	0.0040	EPA 8270E/SIM	7-18-22	7-19-22	
Fluoranthene	ND	0.0040	EPA 8270E/SIM	7-18-22	7-19-22	
Pyrene	ND	0.0040	EPA 8270E/SIM	7-18-22	7-19-22	
Benzo[a]anthracene	ND	0.0040	EPA 8270E/SIM	7-18-22	7-19-22	
Chrysene	ND	0.0040	EPA 8270E/SIM	7-18-22	7-19-22	
Benzo[b]fluoranthene	ND	0.0040	EPA 8270E/SIM	7-18-22	7-19-22	
Benzo(j,k)fluoranthene	ND	0.0040	EPA 8270E/SIM	7-18-22	7-19-22	
Benzo[a]pyrene	ND	0.0040	EPA 8270E/SIM	7-18-22	7-19-22	
Indeno[1,2,3-cd]pyrene	ND	0.0040	EPA 8270E/SIM	7-18-22	7-19-22	
Dibenz[a,h]anthracene	ND	0.0040	EPA 8270E/SIM	7-18-22	7-19-22	
Benzo[g,h,i]perylene	ND	0.0040	EPA 8270E/SIM	7-18-22	7-19-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
2-Fluorophenol	60	22 - 111				
Phenol-d6	67	31 - 117				
Nitrobenzene-d5	64	29 - 111				
2-Fluorobiphenyl	74	39 - 109				
2,4,6-Tribromophenol	89	36 - 127				
Terphenyl-d14	74	39 - 116				



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**PAHs EPA 8270E/SIM
 QUALITY CONTROL**

Matrix: Solid
 Units: mg/Kg

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB0718S1									
	SB	SBD	SB	SBD	SB	SBD				
Phenol	1.02	1.05	1.33	1.33	77	79	42 - 109	3	24	
2-Chlorophenol	0.961	0.981	1.33	1.33	72	74	47 - 105	2	26	
1,4-Dichlorobenzene	0.484	0.503	0.667	0.667	73	75	42 - 102	4	31	
n-Nitroso-di-n-propylamine	0.480	0.547	0.667	0.667	72	82	45 - 111	13	24	
1,2,4-Trichlorobenzene	0.505	0.511	0.667	0.667	76	77	47 - 106	1	26	
4-Chloro-3-methylphenol	1.07	1.12	1.33	1.33	80	84	57 - 111	5	20	
Acenaphthene	0.523	0.559	0.667	0.667	78	84	48 - 101	7	20	
4-Nitrophenol	1.25	1.37	1.33	1.33	94	103	53 - 138	9	20	
2,4-Dinitrotoluene	0.510	0.561	0.667	0.667	76	84	53 - 111	10	20	
Pentachlorophenol	1.25	1.32	1.33	1.33	94	99	38 - 134	5	24	
Pyrene	0.538	0.554	0.667	0.667	81	83	53 - 113	3	20	
<i>Surrogate:</i>										
2-Fluorophenol					61	62	22 - 111			
Phenol-d6					67	69	31 - 117			
Nitrobenzene-d5					63	67	29 - 111			
2-Fluorobiphenyl					71	74	39 - 109			
2,4,6-Tribromophenol					85	89	36 - 127			
Terphenyl-d14					71	74	39 - 116			



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**ORGANOCHLORINE
 PESTICIDES EPA 8081B
 QUALITY CONTROL**

Matrix: Solid
 Units: ug/Kg (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0719S1					
alpha-BHC	ND	5.0	EPA 8081B	7-19-22	7-19-22	
gamma-BHC	ND	5.0	EPA 8081B	7-19-22	7-19-22	
beta-BHC	ND	5.0	EPA 8081B	7-19-22	7-19-22	
delta-BHC	ND	5.0	EPA 8081B	7-19-22	7-19-22	
Heptachlor	ND	5.0	EPA 8081B	7-19-22	7-19-22	
Aldrin	ND	5.0	EPA 8081B	7-19-22	7-19-22	
Heptachlor epoxide	ND	5.0	EPA 8081B	7-19-22	7-19-22	
gamma-Chlordane	ND	10	EPA 8081B	7-19-22	7-19-22	
alpha-Chlordane	ND	10	EPA 8081B	7-19-22	7-19-22	
4,4'-DDE	ND	10	EPA 8081B	7-19-22	7-19-22	
Endosulfan I	ND	5.0	EPA 8081B	7-19-22	7-19-22	
Dieldrin	ND	10	EPA 8081B	7-19-22	7-19-22	
Endrin	ND	10	EPA 8081B	7-19-22	7-19-22	
4,4'-DDD	ND	10	EPA 8081B	7-19-22	7-19-22	
Endosulfan II	ND	10	EPA 8081B	7-19-22	7-19-22	
4,4'-DDT	ND	10	EPA 8081B	7-19-22	7-19-22	
Endrin aldehyde	ND	10	EPA 8081B	7-19-22	7-19-22	
Methoxychlor	ND	10	EPA 8081B	7-19-22	7-19-22	
Endosulfan sulfate	ND	10	EPA 8081B	7-19-22	7-19-22	
Endrin ketone	ND	10	EPA 8081B	7-19-22	7-19-22	
Toxaphene	ND	50	EPA 8081B	7-19-22	7-19-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control limits</i>				
<i>Tetrachloro-m-xylene</i>	<i>110</i>	<i>35-110</i>				
<i>Decachlorobiphenyl</i>	<i>104</i>	<i>32-122</i>				



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**ORGANOCHLORINE
 PESTICIDES EPA 8081B
 QUALITY CONTROL**

Matrix: Solid
 Units: ug/Kg (ppb)

Analyte	Result		Spike Level		Source	Percent		Recovery	RPD	RPD	Flags
	SB	SBD	SB	SBD	Result	Recovery	Limits	Limit			
SPIKE BLANKS											
Laboratory ID:	SB0719S1										
	SB	SBD	SB	SBD		SB	SBD				
alpha-BHC	88.6	89.7	100	100	N/A	89	90	48-113	1	15	
gamma-BHC	91.6	93.3	100	100	N/A	92	93	51-112	2	15	
beta-BHC	89.3	85.4	100	100	N/A	89	85	52-108	4	15	
delta-BHC	105	107	100	100	N/A	105	107	51-110	2	15	
Heptachlor	85.4	87.6	100	100	N/A	85	88	49-115	3	15	
Aldrin	92.5	94.5	100	100	N/A	93	95	52-112	2	15	
Heptachlor epoxide	86.7	88.9	100	100	N/A	87	89	50-116	3	15	
gamma-Chlordane	86.9	89.6	100	100	N/A	87	90	51-110	3	15	
alpha-Chlordane	87.0	89.5	100	100	N/A	87	90	51-110	3	15	
4,4'-DDE	89.1	91.0	100	100	N/A	89	91	52-125	2	15	
Endosulfan I	88.7	91.3	100	100	N/A	89	91	50-111	3	15	
Dieldrin	92.7	95.7	100	100	N/A	93	96	55-118	3	15	
Endrin	87.8	90.8	100	100	N/A	88	91	49-122	3	15	
4,4'-DDD	101	104	100	100	N/A	101	104	51-120	3	15	
Endosulfan II	89.3	91.4	100	100	N/A	89	91	47-119	2	15	
4,4'-DDT	96.4	99.1	100	100	N/A	96	99	56-125	3	15	
Endrin aldehyde	90.0	92.9	100	100	N/A	90	93	53-112	3	15	
Methoxychlor	91.6	92.7	100	100	N/A	92	93	49-132	1	15	
Endosulfan sulfate	89.0	91.9	100	100	N/A	89	92	52-111	3	15	
Endrin ketone	78.4	81.6	100	100	N/A	78	82	49-110	4	15	
<i>Surrogate:</i>											
<i>Tetrachloro-m-xylene</i>						73	76	35-110			
<i>Decachlorobiphenyl</i>						84	89	32-122			



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**TOTAL METALS
 EPA 6010D/7471B
 QUALITY CONTROL**

Matrix: Solid
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0720SHL1					
Arsenic	ND	5.0	EPA 6010D	7-20-22	7-21-22	
Cadmium	ND	0.50	EPA 6010D	7-20-22	7-21-22	
Chromium	ND	0.50	EPA 6010D	7-20-22	7-21-22	
Copper	ND	1.0	EPA 6010D	7-20-22	7-21-22	
Iron	ND	50	EPA 6010D	7-20-22	7-21-22	
Lead	ND	5.0	EPA 6010D	7-20-22	7-21-22	
Manganese	ND	0.50	EPA 6010D	7-20-22	7-21-22	
Nickel	ND	2.5	EPA 6010D	7-20-22	7-21-22	
Selenium	ND	5.0	EPA 6010D	7-20-22	7-21-22	
Zinc	ND	2.5	EPA 6010D	7-20-22	7-21-22	
<hr/>						
Laboratory ID:	MB0719S1					
Mercury	ND	0.25	EPA 7471B	7-19-22	7-19-22	



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**TOTAL METALS
 EPA 6010D/7471B
 QUALITY CONTROL**

Matrix: Solid
 Units: mg/Kg (ppm)

Analyte	Result		Spike Level		Source	Percent	Recovery	RPD		Flags
					Result	Recovery	Limits	RPD	Limit	
DUPLICATE										
Laboratory ID:	07-115-08									
	ORIG	DUP								
Arsenic	ND	ND	NA	NA		NA	NA	NA	NA	20
Cadmium	ND	ND	NA	NA		NA	NA	NA	NA	20
Chromium	20.0	18.6	NA	NA		NA	NA	7	20	
Copper	7.65	7.40	NA	NA		NA	NA	3	20	
Iron	20.0	20.0	NA	NA		NA	NA	0	20	
Lead	ND	ND	NA	NA		NA	NA	NA	NA	20
Manganese	186	183	NA	NA		NA	NA	2	20	
Nickel	32.2	29.5	NA	NA		NA	NA	9	20	
Selenium	ND	ND	NA	NA		NA	NA	NA	NA	20
Zinc	31.8	31.2	NA	NA		NA	NA	2	20	
MATRIX SPIKES										
Laboratory ID:	07-115-08									
	MS	MSD	MS	MSD		MS	MSD			
Arsenic	99.1	105	100	100	ND	99	105	75-125	5	20
Cadmium	46.3	46.9	50.0	50.0	ND	93	94	75-125	1	20
Chromium	115	115	100	100	20.0	96	95	75-125	0	20
Copper	58.9	58.8	50.0	50.0	7.65	102	102	75-125	0	20
Iron	13000	12800	1000	1000	11600	132	115	75-125	1	20
Lead	250	254	250	250	ND	100	101	75-125	1	20
Manganese	205	207	25.0	25.0	186	78	86	75-125	1	20
Nickel	129	126	100	100	32.2	97	94	75-125	2	20
Selenium	93.3	96.7	100	100	ND	93	97	75-125	4	20
Zinc	124	126	100	100	31.8	93	94	75-125	1	20
MATRIX SPIKES										
Laboratory ID:	07-101-01									
Mercury	0.561	0.565	0.500	0.500	ND	112	113	80-120	1	20



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**TOTAL SOLIDS
 SM 2540G
 QUALITY CONTROL**

Matrix: Sediment
 Units: % Solids

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	07-115-04							
	ORIG	DUP						
Total Solids	76.8	78.6	NA	NA	NA	NA	2	20





Data Qualifiers and Abbreviations

- A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.
 - B - The analyte indicated was also found in the blank sample.
 - C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.
 - E - The value reported exceeds the quantitation range and is an estimate.
 - F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.
 - H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.
 - I - Compound recovery is outside of the control limits.
 - J - The value reported was below the practical quantitation limit. The value is an estimate.
 - K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.
 - L - The RPD is outside of the control limits.
 - M - Hydrocarbons in the gasoline range are impacting the diesel range result.
 - M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.
 - N - Hydrocarbons in the lube oil range are impacting the diesel range result.
 - N1 - Hydrocarbons in diesel range are impacting lube oil range results.
 - O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.
 - P - The RPD of the detected concentrations between the two columns is greater than 40.
 - Q - Surrogate recovery is outside of the control limits.
 - S - Surrogate recovery data is not available due to the necessary dilution of the sample.
 - T - The sample chromatogram is not similar to a typical _____.
 - U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
 - U1 - The practical quantitation limit is elevated due to interferences present in the sample.
 - V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.
 - W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.
 - X - Sample extract treated with a mercury cleanup procedure.
 - X1 - Sample extract treated with a sulfuric acid/silica gel cleanup procedure.
 - X2 - Sample extract treated with a silica gel cleanup procedure.
 - Y - The calibration verification for this analyte exceeded the 20% drift specified in methods 8260 & 8270, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.
 - Y1 - Negative effects of the matrix from this sample on the instrument caused values for this analyte in the bracketing continuing calibration verification standard (CCVs) to be outside of 20% acceptance criteria. Because of this, quantitation limits and sample concentrations should be considered estimates.
 - Z -
- ND - Not Detected at PQL
 PQL - Practical Quantitation Limit
 RPD - Relative Percent Difference





Chain of Custody

Company: GeoEngineers Project Number: 6440-035-05 Project Name: Go East Landfill – Sed Sampling Project Manager: Garrett Leque Sampled by: Katy Atakturk & Jason Edwards					Turnaround Request (in working days) (Check One) <input type="checkbox"/> Same Day <input type="checkbox"/> 1 Day <input type="checkbox"/> 2 Days <input type="checkbox"/> 3 Days <input checked="" type="checkbox"/> Standard (7 Days) (TPH analysis 5 Days) <input type="checkbox"/> (other)		Laboratory Number: 07-115																	
Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	NWT PH-HClD	NWT PH-Gk-BTEX	NWT PH-Gk	NWT PH-Dk	Volatiles 8260B	Halogenated Volatiles 8260B	Semivolatiles 8270CSIM (with low-level PAHs)	PAHs 8270CSIM (low-level)	PCBs 8082	Organochlorine Pesticides 8081A	Organophosphorus Pesticides 8270CSIM	Chlorinated Acid Herbicides 8151A	Total PCBs / MTCA Metals (picie one)	TCLP Metals	HEM (oil and grease) 1654	Metals*	Extract and hold**	% Moisture	
1	SEDB-1-20220713	7/13/22	0845	Soil	1				X				X		X							X	X	X
2	SEDB-2-20220713		0905						X				X		X							X	X	X
3	SEDB-3-20220713		0920						X				X		X							X	X	X
4	SEDB-4-20220713		1010						X				X		X							X	X	X
5	SEDB-5-20220713		1030						X				X		X							X	X	X
6	SEDB-6-20220713		1130						X				X		X							X	X	X
7	SEDB-7-20220713		1110						X				X		X							X	X	X
8	SEDB-8-20220713		1110						X				X		X							X	X	X

Signature	Company	Date	Time	C*Metals =
<i>Katy Atakturk</i>	657	7/14/22	0900	Arsenic Cadmium Chromium Copper Iron Lead Manganese Mercury Nickel Selenium Zinc
<i>Joshua Boame</i>	Alpha	7/12/22	10:35	
<i>Michelle Bohin</i>	OSE	7/14/22	11:20	

** Extract and hold extracts for 40 days for potential analysis for pentachlorophenol
 ↳ 8270

Project:	September 2022 Groundwater and Surface Water Sampling Results Go East Landfill Site, Everett, Washington
GEI File:	6694-002-05
Date:	March 5, 2023

This report documents the results of a United States Environmental Protection Agency (USEPA)-defined Stage 2A data validation (USEPA Document 540-R-08-005; USEPA 2009) of analytical data from the analyses of water samples collected as part of the September 2022 sampling event, and the associated laboratory quality control (QC) samples. The samples were obtained from the Go East Landfill Site located in Everett, Washington.

OBJECTIVE AND QUALITY CONTROL ELEMENTS

GeoEngineers, Inc. (GeoEngineers) completed the data validation consistent with the USEPA Contract Laboratory Program National Functional Guidelines for Organic Superfund Data Review (USEPA 2020a) and Inorganic Superfund Data Review (USEPA 2020b) to determine if the laboratory analytical results meet the project objectives and are usable for their intended purpose. Data usability was assessed by determining if:

- The samples were analyzed using well-defined and acceptable methods that provide reporting limits below applicable regulatory criteria;
- The precision and accuracy of the data are measured by well-defined control limits to provide defensible data; and
- The quality assurance/quality control (QA/QC) procedures utilized by the laboratory meet acceptable industry practices and standards.

The data validation included review of the following QC elements:

- Data Package Completeness
- Chain-of-Custody Documentation
- Holding Times and Sample Preservation
- Method Blanks
- Surrogates
- Matrix Spikes/Matrix Spike Duplicates
- Laboratory Control Samples/Laboratory Control Sample Duplicates
- Laboratory Duplicates
- Reporting Limits

VALIDATED SAMPLE DELIVERY GROUPS

This data validation included review of the sample delivery groups (SDGs) listed below in Table 1.

TABLE 1: SUMMARY OF VALIDATED SAMPLE DELIVERY GROUP

2209-189	Seep-1-220920
2209-190	SWS-1-220920
2209-191	MW-3-20220920, MW-8-20220920
2209-198	MW-6-20220921, MW-7-20220921
2209-199	MW-10-220921
2209-200	MW-9-220921
2209-225	MW-1-20220922, MW-2-20220922, MW-5-20220923

CHEMICAL ANALYSIS PERFORMED

OnSite Environmental, Inc. (OnSite) of Redmond, Washington, performed laboratory analysis on the water samples using one or more of the following methods:

- Gasoline-range Hydrocarbons (NWTPH-Gx) by Method NWTPH-Gx;
- Petroleum Hydrocarbons (NWTPH-Dx) by Method NWTPH-Dx;
- Volatile Organic Compounds (VOCs) by Method EPA 8260D;
- Low-level Polycyclic Aromatic Hydrocarbons (PAHs) by Method EPA 8270E/Selective Ion Monitoring (SIM);
- Organochlorine Pesticides by Method EPA 8081B;
- Total and Dissolved Metals by Methods EPA 200.7, EPA 200.8, or EPA 7470A;
- Total Alkalinity and Bicarbonate by Method SM2320B;
- Total Dissolved Solids (TDS) by Method SM2540C;
- Total Organic Carbon (TOC) by Method SM5310B;
- Chloride by Method SM4500-Cl E;

- Nitrate by Method EPA 353.2;
- Sulfate by ASTM D516-11; and
- Ammonia by Method SM4500-NH3 D

DATA VALIDATION SUMMARY

The results for each of the QC elements are summarized below.

Data Package Completeness

OnSite provided the required deliverables for the data validation according to the National Functional Guidelines. The laboratory followed adequate corrective action processes and the identified anomalies were discussed in the relevant laboratory case narrative.

Chain-of-Custody Documentation

Chain-of-custody (COC) forms were provided with the laboratory analytical reports. The COCs were accurate and complete when submitted to the laboratory. The forms were appropriately signed and dated by both field collectors and laboratory personnel upon receipt.

Holding Times and Sample Preservation

The sample holding time is defined as the time that elapses between sample collection and sample analysis. Maximum holding time criteria exist for each analysis to help ensure that the analyte concentrations found at the time of analysis reflect the concentration present at the time of sample collection. Established holding times were met for each analysis. The sample coolers arrived at the laboratory within the appropriate temperatures of between two and six degrees Celsius.

Method Blanks

Method blanks are analyzed to ensure that laboratory procedures and reagents do not introduce measurable concentrations of the analytes of interest. A method blank was analyzed with each batch of samples, at a frequency of 1 per 20 samples. For each sample batch, method blanks for the applicable methods were analyzed at the required frequency. None of the analytes of interest were detected above the reporting limits in the method blanks.

Surrogate Recoveries

A surrogate compound is a compound that is chemically similar to the organic analytes of interest, but unlikely to be found in an environmental sample. Surrogates are used for organic analyses and are added to the samples, standards, and blanks to serve as an accuracy and specificity check of each analysis. The surrogates are added to the samples at a known concentration and percent recoveries are calculated following analysis. The surrogate percent recoveries for field samples were within the laboratory control limits.

Matrix Spikes/Matrix Spike Duplicates

Since the actual analyte concentration in an environmental sample is not known, the accuracy of a particular analysis is usually inferred by performing a matrix spike (MS) analysis on one sample from the associated batch,

known as the parent sample. One aliquot of the sample is analyzed in the normal manner and then a second aliquot of the sample is spiked with a known amount of analyte concentration and analyzed. From these analyses, a percent recovery is calculated. Matrix spike duplicate (MSD) analyses are generally performed for organic analyses as a precision check and analyzed in the same sequence as a matrix spike. Using the result values from the MS and MSD, the relative percent difference (RPD) is calculated. The percent recovery control limits for MS and MSD analyses are specified in the laboratory documents, as are the RPD control limits for MS/MSD sample sets.

For inorganic methods, the matrix spike is followed by a post-digestion spike sample if an element percent recovery was outside the control limits in the matrix spike. The percent recovery control limits for matrix spikes are 75% to 125%.

One MS/MSD analysis should be performed for every analytical batch or every 20 field samples, whichever is more frequent. The frequency requirements were met for each analysis and the percent recovery and RPD values were within the proper control limits.

Laboratory Control Samples/Laboratory Control Sample Duplicates

A Laboratory Control Sample (LCS) is a blank sample that is spiked with a known amount of analyte and then analyzed. An LCS is similar to an MS, but without the possibility of matrix interference. Given that matrix interference is not an issue, control limits for accuracy and precision in the LCS and its duplicate (LCSD) are usually more rigorous than for MS/MSD analyses. Additionally, data qualification based on LCS/LCSD analyses would apply to each sample in the associated batch, instead of just the parent sample. The percent recovery control limits for LCS and LCSD analyses are specified in the laboratory documents, as are the RPD control limits for LCS/LCSD sample sets.

One LCS/LCSD analysis should be performed for every analytical batch or every 20 field samples, whichever is more frequent. The frequency requirements were met for each analysis and the percent recovery and RPD values were within the proper control limits, with the following exceptions:

SDGs 2209-199 and 2209-200: (Pesticides) The percent recoveries for delta-BHC, endosulfan sulfate, and endrin ketone were greater than the control limits in the LCSD extracted on 9/28/2022; however, the percent recoveries for these target analytes were within the control limits in the corresponding LCS. No action was required for these outliers.

Laboratory Duplicates

Internal laboratory duplicate analyses are performed to monitor the precision of the analyses. Two separate aliquots of a sample are analyzed as distinct samples in the laboratory and the RPD between the two results is calculated. Duplicate analyses should be performed once per analytical batch. If one or more of the samples used has a concentration less than five times the reporting limit for that sample, the absolute difference is used instead of the RPD. For organic analyses, the RPD control limits are specified in the laboratory documents. For inorganic analyses, the RPD control limit for water samples is 20 percent. Laboratory duplicates were analyzed at the proper frequency and the specified acceptance criteria were met.

Reporting Limits

The contract required quantitation limits (CRQL) were met by the laboratory for the target analytes throughout this sampling event, with some exceptions where the CRQL was elevated due to required sample dilution.

OVERALL ASSESSMENT

As was determined by this data validation, the laboratory followed the specified analytical methods. Accuracy was acceptable, as demonstrated by the surrogates, LCS/LCSD, and MS/MSD percent recovery values, with the exceptions noted above. Precision was also acceptable, as demonstrated by the LCS/LCSD, MS/MSD, and laboratory duplicate RPD values.

No analytical results were qualified. The data are acceptable for the intended use.

REFERENCES

- GeoEngineers, Inc., "Interim Action Work Plan, Go East Corp Landfill Site, Everett, Washington, Ecology Agreed Order No. DE 18121 - prepared for Washington State Department of Ecology on Behalf of PG&E, LLC. GEI File No. 6694-002-03, April 23, 2020.
- U.S. Environmental Protection Agency (USEPA). "Guidance for Labeling Externally Validated Laboratory Analytical Data for Superfund Use," EPA-540-R-08-005. January 2009.
- U.S. Environmental Protection Agency (USEPA) 2020a. Contract Laboratory Program National Functional Guidelines for Organic Superfund Methods Data Review, EPA-540-R-20-005. November 2020.
- U.S. Environmental Protection Agency (USEPA) 2020b. Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Methods Data Review, EPA-542-R-20-006. November 2020.



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October 5, 2022

Garrett Leque
GeoEngineers, Inc.
554 West Bakerview Road
Bellingham, WA 98226

Re: Analytical Data for Project 6694-002-05 T700
Laboratory Reference No. 2209-189

Dear Garrett:

Enclosed are the analytical results and associated quality control data for samples submitted on September 21, 2022.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

A handwritten signature in black ink, appearing to read "DB", is written over a large, light gray "DRAFT" watermark that is oriented diagonally across the page.

David Baumeister
Project Manager

Enclosures



OnSite Environmental, Inc. 14648 NE 95th Street, Redmond, WA 98052 (425) 883-3881

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: October 5, 2022
Samples Submitted: September 21, 2022
Laboratory Reference: 2209-189
Project: 6694-002-05 T700

Case Narrative

Samples were collected on September 20, 2022 and received by the laboratory on September 21, 2022. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.



Date of Report: October 5, 2022
Samples Submitted: September 21, 2022
Laboratory Reference: 2209-189
Project: 6694-002-05 T700

ANALYTICAL REPORT FOR SAMPLES

Client ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
Seep-1-220920	09-189-01	Water	9-20-22	9-21-22	

DRAFT



Date of Report: October 5, 2022
 Samples Submitted: September 21, 2022
 Laboratory Reference: 2209-189
 Project: 6694-002-05 T700

TOTAL METALS
EPA 200.8/200.7

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	Seep-1-220920					
Laboratory ID:	09-189-01					
Arsenic	ND	3.3	EPA 200.8	9-29-22	9-29-22	
Iron	2500	50	EPA 200.7	9-29-22	9-30-22	
Lead	ND	1.1	EPA 200.8	9-29-22	9-29-22	
Manganese	29	10	EPA 200.7	9-29-22	9-30-22	



Date of Report: October 5, 2022
 Samples Submitted: September 21, 2022
 Laboratory Reference: 2209-189
 Project: 6694-002-05 T700

**TOTAL ORGANIC CARBON
 SM 5310B**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	Seep-1-220920					
Laboratory ID:	09-189-01					
Total Organic Carbon	2.9	1.0	SM 5310B	9-29-22	9-29-22	



Date of Report: October 5, 2022
 Samples Submitted: September 21, 2022
 Laboratory Reference: 2209-189
 Project: 6694-002-05 T700

**TOTAL DISSOLVED SOLIDS
 SM 2540C**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	Seep-1-220920					
Laboratory ID:	09-189-01					
Total Dissolved Solids	180	13	SM 2540C	9-23-22	9-23-22	



Date of Report: October 5, 2022
 Samples Submitted: September 21, 2022
 Laboratory Reference: 2209-189
 Project: 6694-002-05 T700

AMMONIA (as Nitrogen)
SM 4500-NH₃ D

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	Seep-1-220920					
Laboratory ID:	09-189-01					
Ammonia	ND	0.050	SM 4500-NH3 D	10-3-22	10-3-22	



Date of Report: October 5, 2022
 Samples Submitted: September 21, 2022
 Laboratory Reference: 2209-189
 Project: 6694-002-05 T700

**TOTAL METALS
 EPA 200.8/200.7
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0929WH2					
Iron	ND	50	EPA 200.7	9-29-22	9-30-22	
Manganese	ND	10	EPA 200.7	9-29-22	9-30-22	
METHOD BLANK						
Laboratory ID:	MB0929WM1					
Arsenic	ND	3.3	EPA 200.8	9-29-22	9-29-22	
Lead	ND	1.1	EPA 200.8	9-29-22	9-29-22	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	09-159-07							
	ORIG	DUP						
Iron	ND	ND	NA	NA	NA	NA	20	
Manganese	31.0	30.3	NA	NA	NA	2	20	
DUPLICATE								
Laboratory ID:	09-267-10							
Arsenic	ND	ND	NA	NA	NA	NA	20	
Lead	ND	ND	NA	NA	NA	NA	20	

MATRIX SPIKES

Laboratory ID:	09-159-07									
	MS	MSD	MS	MSD		MS	MSD			
Iron	22800	22600	20000	20000	ND	114	113	75-125	1	20
Manganese	540	537	500	500	31.0	102	101	75-125	1	20
MATRIX SPIKES										
Laboratory ID:	09-267-10									
Arsenic	101	101	111	111	ND	91	91	75-125	0	20
Lead	96.7	97.3	111	111	ND	87	88	75-125	1	20



Date of Report: October 5, 2022
 Samples Submitted: September 21, 2022
 Laboratory Reference: 2209-189
 Project: 6694-002-05 T700

**TOTAL ORGANIC CARBON
 SM 5310B
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0929W1					
Total Organic Carbon	ND	1.0	SM 5310B	9-29-22	9-29-22	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	09-165-01							
	ORIG	DUP						
Total Organic Carbon	5.31	5.31	NA	NA	NA	0	12	

MATRIX SPIKE								
Laboratory ID:	09-165-01							
	MS	MS		MS				
Total Organic Carbon	15.5	10.0	5.31	102	80-120	NA	NA	

SPIKE BLANK								
Laboratory ID:	SB0929W1							
	SB	SB		SB				
Total Organic Carbon	10.5	10.0	NA	105	80-118	NA	NA	



Date of Report: October 5, 2022
 Samples Submitted: September 21, 2022
 Laboratory Reference: 2209-189
 Project: 6694-002-05 T700

**TOTAL DISSOLVED SOLIDS
 SM 2540C
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0923W1					
Total Dissolved Solids	ND	13	SM 2540C	9-23-22	9-23-22	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	09-189-01							
	ORIG	DUP						
Total Dissolved Solids	175	175	NA	NA	NA	0	23	

SPIKE BLANK								
Laboratory ID:	SB0923W1							
	SB	SB		SB				
Total Dissolved Solids	528	500	NA	106	89-120	NA	NA	



Date of Report: October 5, 2022
 Samples Submitted: September 21, 2022
 Laboratory Reference: 2209-189
 Project: 6694-002-05 T700

**AMMONIA (as Nitrogen)
 SM 4500-NH₃ D
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1003W1					
Ammonia	ND	0.050	SM 4500-NH ₃ D	10-3-22	10-3-22	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	09-165-01							
	ORIG	DUP						
Ammonia	0.513	0.551	NA	NA	NA	NA	7	15

MATRIX SPIKE								
Laboratory ID:	09-165-01							
	MS	MS		MS				
Ammonia	5.63	5.00	0.513	102	87-110	NA	NA	

SPIKE BLANK								
Laboratory ID:	SB1003W1							
	SB	SB		SB				
Ammonia	5.22	5.00	NA	104	88-110	NA	NA	





Data Qualifiers and Abbreviations

- A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.
 - B - The analyte indicated was also found in the blank sample.
 - C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.
 - E - The value reported exceeds the quantitation range and is an estimate.
 - F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.
 - H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.
 - I - Compound recovery is outside of the control limits.
 - J - The value reported was below the practical quantitation limit. The value is an estimate.
 - K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.
 - L - The RPD is outside of the control limits.
 - M - Hydrocarbons in the gasoline range are impacting the diesel range result.
 - M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.
 - N - Hydrocarbons in the lube oil range are impacting the diesel range result.
 - N1 - Hydrocarbons in diesel range are impacting lube oil range results.
 - O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.
 - P - The RPD of the detected concentrations between the two columns is greater than 40.
 - Q - Surrogate recovery is outside of the control limits.
 - S - Surrogate recovery data is not available due to the necessary dilution of the sample.
 - T - The sample chromatogram is not similar to a typical _____.
 - U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
 - U1 - The practical quantitation limit is elevated due to interferences present in the sample.
 - V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.
 - W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.
 - X - Sample extract treated with a mercury cleanup procedure.
 - X1 - Sample extract treated with a sulfuric acid/silica gel cleanup procedure.
 - X2 - Sample extract treated with a silica gel cleanup procedure.
 - Y - The calibration verification for this analyte exceeded the 20% drift specified in methods 8260 & 8270, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.
 - Y1 - Negative effects of the matrix from this sample on the instrument caused values for this analyte in the bracketing continuing calibration verification standard (CCVs) to be outside of 20% acceptance criteria. Because of this, quantitation limits and sample concentrations should be considered estimates.
 - Z -
- ND - Not Detected at PQL
 PQL - Practical Quantitation Limit
 RPD - Relative Percent Difference



Chain of Custody

Laboratory Number: **09-189**

Company: **GEI**
 Project Number: **6684-002-05**
 Project Name: **Go East**
 Project Manager: **Garrett League**
 Sampled by: **JDE**

Turnaround Request (in working days)
 (Check One)
 Same Day 1 Day
 2 Days 3 Days
 Standard (7 Days)
 (other) _____

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers
1	Scep-1-220920	9/20/22	0920	SW	4

NWTPH-HCID	NWTPH-Gx/BTEX (802) <input type="checkbox"/> 8260 <input type="checkbox"/>	NWTPH-Gx	NWTPH-DX (Acid / SG Clean-up) <input type="checkbox"/>	Volatiles 8260	Halogenated Volatiles 8260	EDB EPA 8011 (Waters Only)	Semivolatiles 8270/SIM (with low-level PAHs)	PAHs 8270/SIM (low-level)	PCBs 8082	Organochlorine Pesticides 8081	Organophosphorus Pesticides 8270/SIM	Chlorinated Acid Herbicides 8151	Total Metals <input checked="" type="checkbox"/>	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664	X TOC, TDS, NH₃	% Moisture
------------	--	----------	--	----------------	----------------------------	----------------------------	--	---------------------------	-----------	--------------------------------	--------------------------------------	----------------------------------	--	-------------------	-------------	---------------------------	-----------------------------------	------------

	Signature	Company	Date	Time	Comments/Special Instructions
Relinquished	<i>[Signature]</i>	GEI	9/20/22	1200	☆: As, Fe, Pb, Mn Total metals
Received	<i>[Signature]</i>	Alpha	9/20/22	930	
Relinquished	<i>[Signature]</i>	Alpha	9-21	1240	
Received	<i>[Signature]</i>	OSE	9/21/22	1240	
Relinquished					
Received					Data Package: Standard <input type="checkbox"/> Level III <input type="checkbox"/> Level IV <input type="checkbox"/>
Reviewed/Date		Reviewed/Date			Chromatograms with final report <input type="checkbox"/> Electronic Data Deliverables (EDDs) <input type="checkbox"/>



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October 4, 2022

Garrett Leque
GeoEngineers, Inc.
554 West Bakerview Road
Bellingham, WA 98226

Re: Analytical Data for Project 6694-002-05 T700
Laboratory Reference No. 2209-190

Dear Garrett:

Enclosed are the analytical results and associated quality control data for samples submitted on September 21, 2022.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

A handwritten signature in black ink, appearing to read "DB", with a horizontal line extending to the right.

David Baumeister
Project Manager

Enclosures



OnSite Environmental, Inc. 14648 NE 95th Street, Redmond, WA 98052 (425) 883-3881

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: October 4, 2022
Samples Submitted: September 21, 2022
Laboratory Reference: 2209-190
Project: 6694-002-00 T700

Case Narrative

Samples were collected on September 20, 2022 and received by the laboratory on September 21, 2022. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.



Date of Report: October 4, 2022
Samples Submitted: September 21, 2022
Laboratory Reference: 2209-190
Project: 6694-002-00 T700

ANALYTICAL REPORT FOR SAMPLES

Client ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
SWS-1-220920	09-190-01	Water	9-20-22	9-21-22	

DRAFT



Date of Report: October 4, 2022
 Samples Submitted: September 21, 2022
 Laboratory Reference: 2209-190
 Project: 6694-002-00 T700

DIESEL AND HEAVY OIL RANGE ORGANICS
NWTPH-Dx

Matrix: Water
 Units: mg/L (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SWS-1-220920					
Laboratory ID:	09-190-01					
Diesel Range Organics	0.19	0.15	NWTPH-Dx	9-27-22	9-27-22	
Lube Oil Range Organics	0.23	0.20	NWTPH-Dx	9-27-22	9-27-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	91	50-150				



Date of Report: October 4, 2022
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PAHs EPA 8270E/SIM

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SWS-1-220920					
Laboratory ID:	09-190-01					
Naphthalene	ND	0.098	EPA 8270E/SIM	9-22-22	9-22-22	
2-Methylnaphthalene	ND	0.098	EPA 8270E/SIM	9-22-22	9-22-22	
1-Methylnaphthalene	ND	0.098	EPA 8270E/SIM	9-22-22	9-22-22	
Acenaphthylene	ND	0.098	EPA 8270E/SIM	9-22-22	9-22-22	
Acenaphthene	0.86	0.098	EPA 8270E/SIM	9-22-22	9-22-22	
Fluorene	0.35	0.098	EPA 8270E/SIM	9-22-22	9-22-22	
Phenanthrene	ND	0.098	EPA 8270E/SIM	9-22-22	9-22-22	
Anthracene	ND	0.098	EPA 8270E/SIM	9-22-22	9-22-22	
Fluoranthene	0.16	0.098	EPA 8270E/SIM	9-22-22	9-22-22	
Pyrene	0.12	0.098	EPA 8270E/SIM	9-22-22	9-22-22	
Benzo[a]anthracene	ND	0.0098	EPA 8270E/SIM	9-22-22	9-22-22	
Chrysene	ND	0.0098	EPA 8270E/SIM	9-22-22	9-22-22	
Benzo[b]fluoranthene	ND	0.0098	EPA 8270E/SIM	9-22-22	9-22-22	
Benzo(j,k)fluoranthene	ND	0.0098	EPA 8270E/SIM	9-22-22	9-22-22	
Benzo[a]pyrene	ND	0.0098	EPA 8270E/SIM	9-22-22	9-22-22	
Indeno(1,2,3-c,d)pyrene	ND	0.0098	EPA 8270E/SIM	9-22-22	9-22-22	
Dibenz[a,h]anthracene	ND	0.0098	EPA 8270E/SIM	9-22-22	9-22-22	
Benzo[g,h,i]perylene	ND	0.0098	EPA 8270E/SIM	9-22-22	9-22-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
2-Fluorobiphenyl	46	20 - 106				
Pyrene-d10	81	19 - 104				
Terphenyl-d14	88	41 - 127				



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TOTAL METALS
EPA 200.8/200.7

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SWS-1-220920					
Laboratory ID:	09-190-01					
Arsenic	ND	3.3	EPA 200.8	9-29-22	9-29-22	
Iron	7300	50	EPA 200.7	9-29-22	9-30-22	
Magnesium	27000	1000	EPA 200.7	9-29-22	9-30-22	
Manganese	1600	10	EPA 200.7	9-29-22	9-30-22	



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**TOTAL ORGANIC CARBON
SM 5310B**

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SWS-1-220920					
Laboratory ID:	09-190-01					
Total Organic Carbon	8.7	1.0	SM 5310B	9-29-22	9-29-22	



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**TOTAL ALKALINITY
 SM 2320B**

Matrix: Water
 Units: mg CaCO₃/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SWS-1-220920					
Laboratory ID:	09-190-01					
Total Alkalinity	390	2.0	SM 2320B	9-29-22	9-29-22	



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**BICARBONATE
SM 2320B**

Matrix: Water
Units: mg CaCO₃/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SWS-1-220920					
Laboratory ID:	09-190-01					
Bicarbonate	390	2.0	SM 2320B	9-29-22	9-29-22	



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CHLORIDE
SM 4500-Cl E

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SWS-1-220920					
Laboratory ID:	09-190-01					
Chloride	6.6	2.0	SM 4500-Cl E	9-23-22	9-23-22	



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NITRATE (as Nitrogen)
EPA 353.2

Matrix: Water
Units: mg/L-N

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SWS-1-220920					
Laboratory ID:	09-190-01					
Nitrate	ND	0.050	EPA 353.2	9-21-22	9-21-22	



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SULFATE
ASTM D516-11

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SWS-1-220920					
Laboratory ID:	09-190-01					
Sulfate	ND	5.0	ASTM D516-11	9-26-22	9-26-22	



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**TOTAL DISSOLVED SOLIDS
SM 2540C**

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SWS-1-220920					
Laboratory ID:	09-190-01					
Total Dissolved Solids	430	13	SM 2540C	9-23-22	9-23-22	



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AMMONIA (as Nitrogen)
SM 4500-NH₃ D

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SWS-1-220920					
Laboratory ID:	09-190-01					
Ammonia	1.7	0.050	SM 4500-NH3 D	10-3-22	10-3-22	



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**DIESEL AND HEAVY OIL RANGE ORGANICS
 NWTPH-Dx
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0927W1					
Diesel Range Organics	ND	0.12	NWTPH-Dx	9-27-22	9-27-22	
Lube Oil Range Organics	ND	0.16	NWTPH-Dx	9-27-22	9-27-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	89	50-150				

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	SB0927W1							
	ORIG	DUP						
Diesel Fuel #2	0.425	0.371	NA	NA	NA	NA	14	NA
<i>Surrogate:</i>								
<i>o-Terphenyl</i>				103	90	50-150		



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**PAHs EPA 8270E/SIM
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0922W1					
Naphthalene	ND	0.10	EPA 8270E/SIM	9-22-22	9-22-22	
2-Methylnaphthalene	ND	0.10	EPA 8270E/SIM	9-22-22	9-22-22	
1-Methylnaphthalene	ND	0.10	EPA 8270E/SIM	9-22-22	9-22-22	
Acenaphthylene	ND	0.10	EPA 8270E/SIM	9-22-22	9-22-22	
Acenaphthene	ND	0.10	EPA 8270E/SIM	9-22-22	9-22-22	
Fluorene	ND	0.10	EPA 8270E/SIM	9-22-22	9-22-22	
Phenanthrene	ND	0.10	EPA 8270E/SIM	9-22-22	9-22-22	
Anthracene	ND	0.10	EPA 8270E/SIM	9-22-22	9-22-22	
Fluoranthene	ND	0.10	EPA 8270E/SIM	9-22-22	9-22-22	
Pyrene	ND	0.10	EPA 8270E/SIM	9-22-22	9-22-22	
Benzo[a]anthracene	ND	0.010	EPA 8270E/SIM	9-22-22	9-22-22	
Chrysene	ND	0.010	EPA 8270E/SIM	9-22-22	9-22-22	
Benzo[b]fluoranthene	ND	0.010	EPA 8270E/SIM	9-22-22	9-22-22	
Benzo(j,k)fluoranthene	ND	0.010	EPA 8270E/SIM	9-22-22	9-22-22	
Benzo[a]pyrene	ND	0.010	EPA 8270E/SIM	9-22-22	9-22-22	
Indeno(1,2,3-c,d)pyrene	ND	0.010	EPA 8270E/SIM	9-22-22	9-22-22	
Dibenz[a,h]anthracene	ND	0.010	EPA 8270E/SIM	9-22-22	9-22-22	
Benzo[g,h,i]perylene	ND	0.010	EPA 8270E/SIM	9-22-22	9-22-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
2-Fluorobiphenyl	42	20 - 106				
Pyrene-d10	58	19 - 104				
Terphenyl-d14	69	41 - 127				



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**PAHs EPA 8270E/SIM
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD	RPD	Flags
					Recovery	Limits	Limit			
SPIKE BLANKS										
Laboratory ID:	SB0922W1									
	SB	SBD	SB	SBD	SB	SBD				
Naphthalene	0.271	0.307	0.500	0.500	54	61	25 - 82	12	39	
Acenaphthylene	0.304	0.328	0.500	0.500	61	66	35 - 107	8	26	
Acenaphthene	0.265	0.291	0.500	0.500	53	58	33 - 99	9	26	
Fluorene	0.293	0.329	0.500	0.500	59	66	43 - 95	12	24	
Phenanthrene	0.311	0.338	0.500	0.500	62	68	49 - 100	8	20	
Anthracene	0.313	0.340	0.500	0.500	63	68	47 - 101	8	21	
Fluoranthene	0.332	0.368	0.500	0.500	66	74	51 - 115	10	23	
Pyrene	0.347	0.374	0.500	0.500	69	75	53 - 117	7	24	
Benzo[a]anthracene	0.385	0.419	0.500	0.500	77	84	57 - 114	8	21	
Chrysene	0.377	0.396	0.500	0.500	75	79	55 - 119	5	21	
Benzo[b]fluoranthene	0.368	0.403	0.500	0.500	74	81	56 - 125	9	26	
Benzo(j,k)fluoranthene	0.388	0.401	0.500	0.500	78	80	53 - 124	3	22	
Benzo[a]pyrene	0.344	0.368	0.500	0.500	69	74	54 - 119	7	22	
Indeno(1,2,3-c,d)pyrene	0.401	0.432	0.500	0.500	80	86	55 - 118	7	23	
Dibenz[a,h]anthracene	0.371	0.397	0.500	0.500	74	79	56 - 118	7	23	
Benzo[g,h,i]perylene	0.363	0.386	0.500	0.500	73	77	55 - 117	6	22	
<i>Surrogate:</i>										
2-Fluorobiphenyl					51	56	20 - 106			
Pyrene-d10					65	71	19 - 104			
Terphenyl-d14					76	80	41 - 127			



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**TOTAL METALS
 EPA 200.8/200.7
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0929WH2					
Iron	ND	50	EPA 200.7	9-29-22	9-30-22	
Magnesium	ND	1000	EPA 200.7	9-29-22	9-30-22	
Manganese	ND	10	EPA 200.7	9-29-22	9-30-22	

Laboratory ID:	MB0929WM1					
Arsenic	ND	3.3	EPA 200.8	9-29-22	9-29-22	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	09-159-07							
	ORIG	DUP						
Iron	ND	ND	NA	NA	NA	NA	20	
Magnesium	16200	16800	NA	NA	NA	4	20	
Manganese	31.0	30.3	NA	NA	NA	2	20	

Laboratory ID:	09-267-10							
Arsenic	ND	ND	NA	NA	NA	NA	20	

MATRIX SPIKES

Laboratory ID:	09-159-07									
	MS	MSD	MS	MSD		MS	MSD			
Iron	22800	22600	20000	20000	ND	114	113	75-125	1	20
Magnesium	36800	35800	20000	20000	16200	103	98	75-125	3	20
Manganese	540	537	500	500	31.0	102	101	75-125	1	20

Laboratory ID:	09-267-10									
Arsenic	101	101	111	111	ND	91	91	75-125	0	20



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**TOTAL ORGANIC CARBON
 SM 5310B
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0929W1					
Total Organic Carbon	ND	1.0	SM 5310B	9-29-22	9-29-22	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	09-165-01							
	ORIG	DUP						
Total Organic Carbon	5.31	5.31	NA	NA	NA	0	12	

MATRIX SPIKE								
Laboratory ID:	09-165-01							
	MS	MS		MS				
Total Organic Carbon	15.5	10.0	5.31	102	80-120	NA	NA	

SPIKE BLANK								
Laboratory ID:	SB0929W1							
	SB	SB		SB				
Total Organic Carbon	10.5	10.0	NA	105	80-118	NA	NA	



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**TOTAL ALKALINITY
 SM 2320B
 QUALITY CONTROL**

Matrix: Water
 Units: mg CaCO₃/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0929W1					
Total Alkalinity	ND	2.0	SM 2320B	9-29-22	9-29-22	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	09-190-01							
	ORIG	DUP						
Total Alkalinity	392	392	NA	NA	NA	0	10	

SPIKE BLANK								
Laboratory ID:	SB0929W1							
	SB	SB		SB				
Total Alkalinity	94.0	100	NA	94	89-110	NA	NA	



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**BICARBONATE
 SM 2320B
 QUALITY CONTROL**

Matrix: Water
 Units: mg CaCO₃/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0929W1					
Bicarbonate	ND	2.0	SM 2320B	9-29-22	9-29-22	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	09-190-01							
	ORIG	DUP						
Bicarbonate	392	392	NA	NA	NA	0	10	

SPIKE BLANK								
Laboratory ID:	SB0929W1							
	SB	SB		SB				
Bicarbonate	94.0	100	NA	94	89-110	NA	NA	



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**CHLORIDE
 SM 4500-Cl E
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0923W1					
Chloride	ND	2.0	SM 4500-Cl E	9-23-22	9-23-22	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	09-198-01							
	ORIG	DUP						
Chloride	5.20	5.75	NA	NA	NA	10	11	

MATRIX SPIKE								
Laboratory ID:	09-198-01							
	MS	MS		MS				
Chloride	54.5	50.0	5.20	99	90-121	NA	NA	

SPIKE BLANK								
Laboratory ID:	SB0923W1							
	SB	SB		SB				
Chloride	50.7	50.0	NA	101	90-119	NA	NA	



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**NITRATE (as Nitrogen)
 EPA 353.2
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L-N

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0921W2					
Nitrate	ND	0.050	EPA 353.2	9-21-22	9-21-22	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	09-042-01							
	ORIG	DUP						
Nitrate	0.0912	0.0870	NA	NA	NA	5	10	

MATRIX SPIKE								
Laboratory ID:	09-042-01							
	MS	MS		MS				
Nitrate	2.21	2.00	0.0912	106	88-125	NA	NA	

SPIKE BLANK								
Laboratory ID:	SB0921W2							
	SB	SB		SB				
Nitrate	2.21	2.00	NA	111	90-120	NA	NA	



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**SULFATE
 ASTM D516-11
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0926W1					
Sulfate	ND	5.0	ASTM D516-11	9-26-22	9-26-22	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	09-203-01							
	ORIG	DUP						
Sulfate	15.9	16.0	NA	NA	NA	1	10	

MATRIX SPIKE								
Laboratory ID:	09-203-01							
	MS	MS		MS				
Sulfate	24.2	10.0	15.9	83	72-128	NA	NA	

SPIKE BLANK								
Laboratory ID:	SB0926W1							
	SB	SB		SB				
Sulfate	9.73	10.0	NA	97	85-114	NA	NA	



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**TOTAL DISSOLVED SOLIDS
 SM 2540C
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0923W1					
Total Dissolved Solids	ND	13	SM 2540C	9-23-22	9-23-22	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	09-189-01							
	ORIG	DUP						
Total Dissolved Solids	175	175	NA	NA	NA	0	23	

SPIKE BLANK								
Laboratory ID:	SB0923W1							
	SB	SB		SB				
Total Dissolved Solids	528	500	NA	106	89-120	NA	NA	



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**AMMONIA (as Nitrogen)
 SM 4500-NH₃ D
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1003W2					
Ammonia	ND	0.050	SM 4500-NH ₃ D	10-3-22	10-3-22	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	09-190-01							
	ORIG	DUP						
Ammonia	1.71	1.54	NA	NA	NA	10	15	

MATRIX SPIKE								
Laboratory ID:	09-190-01							
	MS	MS		MS				
Ammonia	6.61	5.00	1.71	98	87-110	NA	NA	

SPIKE BLANK								
Laboratory ID:	SB1003W2							
	SB	SB		SB				
Ammonia	5.02	5.00	NA	100	88-110	NA	NA	





Data Qualifiers and Abbreviations

- A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.
 - B - The analyte indicated was also found in the blank sample.
 - C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.
 - E - The value reported exceeds the quantitation range and is an estimate.
 - F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.
 - H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.
 - I - Compound recovery is outside of the control limits.
 - J - The value reported was below the practical quantitation limit. The value is an estimate.
 - K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.
 - L - The RPD is outside of the control limits.
 - M - Hydrocarbons in the gasoline range are impacting the diesel range result.
 - M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.
 - N - Hydrocarbons in the lube oil range are impacting the diesel range result.
 - N1 - Hydrocarbons in diesel range are impacting lube oil range results.
 - O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.
 - P - The RPD of the detected concentrations between the two columns is greater than 40.
 - Q - Surrogate recovery is outside of the control limits.
 - S - Surrogate recovery data is not available due to the necessary dilution of the sample.
 - T - The sample chromatogram is not similar to a typical _____.
 - U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
 - U1 - The practical quantitation limit is elevated due to interferences present in the sample.
 - V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.
 - W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.
 - X - Sample extract treated with a mercury cleanup procedure.
 - X1 - Sample extract treated with a sulfuric acid/silica gel cleanup procedure.
 - Y - The calibration verification for this analyte exceeded the 20% drift specified in methods 8260 & 8270, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.
 - Z -
- ND - Not Detected at PQL
 PQL - Practical Quantitation Limit
 RPD - Relative Percent Difference





Analytical Laboratory Testing Services
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • www.onsite-env.com

Chain of Custody

Laboratory Number: 09-190

Company: **GEI**
Project Number: **6694-002-05**
Project Name: **Go East**
Project Manager: **Garrett League**
Sampled by: **JDE**

Turnaround Request
(in working days)
(Check One)
 Same Day 1 Day
 2 Days 3 Days
 Standard (7 Days)
 TAH analysis 5 days
(other)

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers
1	SWS-1-220920	9/20/22	1000	SW	11

NWTPH-HCID	NWTPH-Gx/BTEX (8021/8260)	NWTPH-Gx	NWTPH-Dx (Acid / SG Clean-up)	Volatiles 8260	Halogenated Volatiles 8260	EDB EPA 8011 (Waters Only)	Semivolatiles 8270/SIM (with low-level PAHs)	PAHs 8270/SIM (low-level)	PCBs 8082	Organochlorine Pesticides 8081	Organophosphorus Pesticides 8270/SIM	Chlorinated Acid Herbicides 8151	Total Metals 8081	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664	% Moisture
			X					X					X			X	

	Signature	Company	Date	Time	Comments/Special Instructions
Relinquished	<i>MM CWD</i>	GEI	9/20/22	1200	X: TOC, Alk+Bicalb, Cl, NO3, SO4, TDS, NH3 X: As, Fe, Mg, Mn (total metals)
Received	<i>Josh M</i>	Alpha	9/20/22	0930	
Relinquished	<i>Josh M</i>	Alpha	9-21	1240	
Received	<i>Nicole J</i>	CSE	9/21/22	1240	
Relinquished					
Received					Data Package: Standard <input type="checkbox"/> Level III <input type="checkbox"/> Level IV <input type="checkbox"/>
Reviewed/Date		Reviewed/Date			Chromatograms with final report <input type="checkbox"/> Electronic Data Deliverables (EDDs) <input type="checkbox"/>



14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

October 5, 2022

Garrett Leque
GeoEngineers, Inc.
554 West Bakerview Road
Bellingham, WA 98226

Re: Analytical Data for Project 6694-002-05 T700
Laboratory Reference No. 2209-191

Dear Garrett:

Enclosed are the analytical results and associated quality control data for samples submitted on September 21, 2022.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

A handwritten signature in black ink, appearing to read "DB", with a long horizontal stroke extending to the right.

David Baumeister
Project Manager

Enclosures



OnSite Environmental, Inc. 14648 NE 95th Street, Redmond, WA 98052 (425) 883-3881

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: October 5, 2022
Samples Submitted: September 21, 2022
Laboratory Reference: 2209-191
Project: 6694-002-00 T700

Case Narrative

Samples were collected on September 20, 2022 and received by the laboratory on September 21, 2022. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

DRAFT



Date of Report: October 5, 2022
Samples Submitted: September 21, 2022
Laboratory Reference: 2209-191
Project: 6694-002-00 T700

ANALYTICAL REPORT FOR SAMPLES

Client ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
MW-3-20220920	09-191-01	Water	9-20-22	9-21-22	
MW-8-20220920	09-191-02	Water	9-20-22	9-21-22	

DRAFT



Date of Report: October 5, 2022
 Samples Submitted: September 21, 2022
 Laboratory Reference: 2209-191
 Project: 6694-002-00 T700

PAHs EPA 8270E/SIM

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-8-20220920					
Laboratory ID:	09-191-02					
Naphthalene	ND	0.095	EPA 8270E/SIM	9-22-22	9-22-22	
2-Methylnaphthalene	ND	0.095	EPA 8270E/SIM	9-22-22	9-22-22	
1-Methylnaphthalene	ND	0.095	EPA 8270E/SIM	9-22-22	9-22-22	
Acenaphthylene	ND	0.095	EPA 8270E/SIM	9-22-22	9-22-22	
Acenaphthene	ND	0.095	EPA 8270E/SIM	9-22-22	9-22-22	
Fluorene	ND	0.095	EPA 8270E/SIM	9-22-22	9-22-22	
Phenanthrene	ND	0.095	EPA 8270E/SIM	9-22-22	9-22-22	
Anthracene	ND	0.095	EPA 8270E/SIM	9-22-22	9-22-22	
Fluoranthene	ND	0.095	EPA 8270E/SIM	9-22-22	9-22-22	
Pyrene	ND	0.095	EPA 8270E/SIM	9-22-22	9-22-22	
Benzo[a]anthracene	ND	0.0095	EPA 8270E/SIM	9-22-22	9-22-22	
Chrysene	ND	0.0095	EPA 8270E/SIM	9-22-22	9-22-22	
Benzo[b]fluoranthene	ND	0.0095	EPA 8270E/SIM	9-22-22	9-22-22	
Benzo(j,k)fluoranthene	ND	0.0095	EPA 8270E/SIM	9-22-22	9-22-22	
Benzo[a]pyrene	ND	0.0095	EPA 8270E/SIM	9-22-22	9-22-22	
Indeno(1,2,3-c,d)pyrene	ND	0.0095	EPA 8270E/SIM	9-22-22	9-22-22	
Dibenz[a,h]anthracene	ND	0.0095	EPA 8270E/SIM	9-22-22	9-22-22	
Benzo[g,h,i]perylene	ND	0.0095	EPA 8270E/SIM	9-22-22	9-22-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
2-Fluorobiphenyl	49	20 - 106				
Pyrene-d10	79	19 - 104				
Terphenyl-d14	74	41 - 127				



Date of Report: October 5, 2022
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 Project: 6694-002-00 T700

**TOTAL ORGANIC CARBON
 SM 5310B**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-3-20220920					
Laboratory ID:	09-191-01					
Total Organic Carbon	ND	1.0	SM 5310B	9-29-22	9-29-22	
Client ID:	MW-8-20220920					
Laboratory ID:	09-191-02					
Total Organic Carbon	1.6	1.0	SM 5310B	9-29-22	9-29-22	



Date of Report: October 5, 2022
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 Project: 6694-002-00 T700

**TOTAL ALKALINITY
 SM 2320B**

Matrix: Water
 Units: mg CaCO₃/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-3-20220920					
Laboratory ID:	09-191-01					
Total Alkalinity	110	2.0	SM 2320B	9-29-22	9-29-22	

Client ID:	MW-8-20220920					
Laboratory ID:	09-191-02					
Total Alkalinity	180	2.0	SM 2320B	9-29-22	9-29-22	



Date of Report: October 5, 2022
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 Project: 6694-002-05 T700

**BICARBONATE
 SM 2320B**

Matrix: Water
 Units: mg CaCO₃/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-3-20220920					
Laboratory ID:	09-191-01					
Bicarbonate	110	2.0	SM 2320B	9-29-22	9-29-22	
Client ID:	MW-8-20220920					
Laboratory ID:	09-191-02					
Bicarbonate	180	2.0	SM 2320B	9-29-22	9-29-22	



Date of Report: October 5, 2022
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 Project: 6694-002-00 T700

**CHLORIDE
 SM 4500-Cl E**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-3-20220920					
Laboratory ID:	09-191-01					
Chloride	6.0	2.0	SM 4500-Cl E	9-23-22	9-23-22	
Client ID:	MW-8-20220920					
Laboratory ID:	09-191-02					
Chloride	4.1	2.0	SM 4500-Cl E	9-23-22	9-23-22	



Date of Report: October 5, 2022
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 Project: 6694-002-00 T700

NITRATE (as Nitrogen)
EPA 353.2

Matrix: Water
 Units: mg/L-N

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-3-20220920					
Laboratory ID:	09-191-01					
Nitrate	ND	0.050	EPA 353.2	9-21-22	9-21-22	
Client ID:	MW-8-20220920					
Laboratory ID:	09-191-02					
Nitrate	ND	0.050	EPA 353.2	9-21-22	9-21-22	



Date of Report: October 5, 2022
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SULFATE
ASTM D516-11

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-3-20220920					
Laboratory ID:	09-191-01					
Sulfate	13	5.0	ASTM D516-11	9-26-22	9-26-22	
Client ID:	MW-8-20220920					
Laboratory ID:	09-191-02					
Sulfate	60	25	ASTM D516-11	9-26-22	9-26-22	



Date of Report: October 5, 2022
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**TOTAL DISSOLVED SOLIDS
 SM 2540C**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-3-20220920					
Laboratory ID:	09-191-01					
Total Dissolved Solids	160	13	SM 2540C	9-23-22	9-23-22	
Client ID:	MW-8-20220920					
Laboratory ID:	09-191-02					
Total Dissolved Solids	270	13	SM 2540C	9-23-22	9-23-22	



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AMMONIA (as Nitrogen)
SM 4500-NH₃ D

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-3-20220920					
Laboratory ID:	09-191-01					
Ammonia	0.050	0.050	SM 4500-NH3 D	10-5-22	10-5-22	
Client ID:	MW-8-20220920					
Laboratory ID:	09-191-02					
Ammonia	ND	0.050	SM 4500-NH3 D	10-5-22	10-5-22	



Date of Report: October 5, 2022
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 Laboratory Reference: 2209-191
 Project: 6694-002-00 T700

DISSOLVED METALS
EPA 200.8/200.7

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-3-20220920					
Laboratory ID:	09-191-01					
Arsenic	3.4	3.0	EPA 200.8		9-29-22	
Calcium	23000	1100	EPA 200.7		9-28-22	
Iron	ND	56	EPA 200.7		9-29-22	
Magnesium	14000	1100	EPA 200.7		9-29-22	
Manganese	140	11	EPA 200.7		9-28-22	
Potassium	2200	1100	EPA 200.7		9-29-22	
Sodium	7400	1100	EPA 200.7		9-28-22	

Client ID:	MW-8-20220920					
Laboratory ID:	09-191-02					
Arsenic	ND	3.0	EPA 200.8		9-29-22	
Calcium	32000	1100	EPA 200.7		9-28-22	
Iron	ND	56	EPA 200.7		9-29-22	
Magnesium	39000	1100	EPA 200.7		9-29-22	
Manganese	1300	11	EPA 200.7		9-28-22	
Potassium	3800	1100	EPA 200.7		9-29-22	
Sodium	8700	1100	EPA 200.7		9-28-22	



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 Project: 6694-002-00 T700

TOTAL METALS
EPA 200.8/200.7

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-3-20220920					
Laboratory ID:	09-191-01					
Arsenic	ND	3.3	EPA 200.8	9-29-22	9-29-22	
Iron	610	50	EPA 200.7	9-29-22	9-30-22	
Magnesium	13000	1000	EPA 200.7	9-29-22	9-30-22	
Manganese	160	10	EPA 200.7	9-29-22	9-30-22	

Client ID:	MW-8-20220920					
Laboratory ID:	09-191-02					
Arsenic	ND	3.3	EPA 200.8	9-29-22	9-29-22	
Iron	1100	50	EPA 200.7	9-29-22	9-30-22	
Magnesium	34000	1000	EPA 200.7	9-29-22	9-30-22	
Manganese	1400	10	EPA 200.7	9-29-22	9-30-22	



Date of Report: October 5, 2022
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**PAHs EPA 8270E/SIM
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0922W1					
Naphthalene	ND	0.10	EPA 8270E/SIM	9-22-22	9-22-22	
2-Methylnaphthalene	ND	0.10	EPA 8270E/SIM	9-22-22	9-22-22	
1-Methylnaphthalene	ND	0.10	EPA 8270E/SIM	9-22-22	9-22-22	
Acenaphthylene	ND	0.10	EPA 8270E/SIM	9-22-22	9-22-22	
Acenaphthene	ND	0.10	EPA 8270E/SIM	9-22-22	9-22-22	
Fluorene	ND	0.10	EPA 8270E/SIM	9-22-22	9-22-22	
Phenanthrene	ND	0.10	EPA 8270E/SIM	9-22-22	9-22-22	
Anthracene	ND	0.10	EPA 8270E/SIM	9-22-22	9-22-22	
Fluoranthene	ND	0.10	EPA 8270E/SIM	9-22-22	9-22-22	
Pyrene	ND	0.10	EPA 8270E/SIM	9-22-22	9-22-22	
Benzo[a]anthracene	ND	0.010	EPA 8270E/SIM	9-22-22	9-22-22	
Chrysene	ND	0.010	EPA 8270E/SIM	9-22-22	9-22-22	
Benzo[b]fluoranthene	ND	0.010	EPA 8270E/SIM	9-22-22	9-22-22	
Benzo(j,k)fluoranthene	ND	0.010	EPA 8270E/SIM	9-22-22	9-22-22	
Benzo[a]pyrene	ND	0.010	EPA 8270E/SIM	9-22-22	9-22-22	
Indeno(1,2,3-c,d)pyrene	ND	0.010	EPA 8270E/SIM	9-22-22	9-22-22	
Dibenz[a,h]anthracene	ND	0.010	EPA 8270E/SIM	9-22-22	9-22-22	
Benzo[g,h,i]perylene	ND	0.010	EPA 8270E/SIM	9-22-22	9-22-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>2-Fluorobiphenyl</i>	<i>42</i>	<i>20 - 106</i>				
<i>Pyrene-d10</i>	<i>58</i>	<i>19 - 104</i>				
<i>Terphenyl-d14</i>	<i>69</i>	<i>41 - 127</i>				



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**PAHs EPA 8270E/SIM
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD	RPD	Flags
					Recovery	Limits	RPD	Limit		
SPIKE BLANKS										
Laboratory ID:	SB0922W1									
	SB	SBD	SB	SBD	SB	SBD				
Naphthalene	0.271	0.307	0.500	0.500	54	61	25 - 82	12	39	
Acenaphthylene	0.304	0.328	0.500	0.500	61	66	35 - 107	8	26	
Acenaphthene	0.265	0.291	0.500	0.500	53	58	33 - 99	9	26	
Fluorene	0.293	0.329	0.500	0.500	59	66	43 - 95	12	24	
Phenanthrene	0.311	0.338	0.500	0.500	62	68	49 - 100	8	20	
Anthracene	0.313	0.340	0.500	0.500	63	68	47 - 101	8	21	
Fluoranthene	0.332	0.368	0.500	0.500	66	74	51 - 115	10	23	
Pyrene	0.347	0.374	0.500	0.500	69	75	53 - 117	7	24	
Benzo[a]anthracene	0.385	0.419	0.500	0.500	77	84	57 - 114	8	21	
Chrysene	0.377	0.396	0.500	0.500	75	79	55 - 119	5	21	
Benzo[b]fluoranthene	0.368	0.403	0.500	0.500	74	81	56 - 125	9	26	
Benzo(j,k)fluoranthene	0.388	0.401	0.500	0.500	78	80	53 - 124	3	22	
Benzo[a]pyrene	0.344	0.368	0.500	0.500	69	74	54 - 119	7	22	
Indeno(1,2,3-c,d)pyrene	0.401	0.432	0.500	0.500	80	86	55 - 118	7	23	
Dibenz[a,h]anthracene	0.371	0.397	0.500	0.500	74	79	56 - 118	7	23	
Benzo[g,h,i]perylene	0.363	0.386	0.500	0.500	73	77	55 - 117	6	22	
<i>Surrogate:</i>										
2-Fluorobiphenyl					51	56	20 - 106			
Pyrene-d10					65	71	19 - 104			
Terphenyl-d14					76	80	41 - 127			



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**TOTAL ORGANIC CARBON
 SM 5310B
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0929W1					
Total Organic Carbon	ND	1.0	SM 5310B	9-29-22	9-29-22	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	09-165-01							
	ORIG	DUP						
Total Organic Carbon	5.31	5.31	NA	NA	NA	0	12	

MATRIX SPIKE								
Laboratory ID:	09-165-01							
	MS	MS		MS				
Total Organic Carbon	15.5	10.0	5.31	102	80-120	NA	NA	

SPIKE BLANK								
Laboratory ID:	SB0929W1							
	SB	SB		SB				
Total Organic Carbon	10.5	10.0	NA	105	80-118	NA	NA	



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**TOTAL ALKALINITY
 SM 2320B
 QUALITY CONTROL**

Matrix: Water
 Units: mg CaCO₃/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0929W1					
Total Alkalinity	ND	2.0	SM 2320B	9-29-22	9-29-22	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	09-190-01							
	ORIG	DUP						
Total Alkalinity	392	392	NA	NA	NA	0	10	

SPIKE BLANK								
Laboratory ID:	SB0929W1							
	SB	SB		SB				
Total Alkalinity	94.0	100	NA	94	89-110	NA	NA	



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**BICARBONATE
 SM 2320B
 QUALITY CONTROL**

Matrix: Water
 Units: mg CaCO₃/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0929W1					
Bicarbonate	ND	2.0	SM 2320B	9-29-22	9-29-22	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	09-190-01							
	ORIG	DUP						
Bicarbonate	392	392	NA	NA	NA	0	10	

SPIKE BLANK								
Laboratory ID:	SB0929W1							
	SB	SB		SB				
Bicarbonate	94.0	100	NA	94	89-110	NA	NA	



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**CHLORIDE
 SM 4500-Cl E
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0923W1					
Chloride	ND	2.0	SM 4500-Cl E	9-23-22	9-23-22	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	09-198-01							
	ORIG	DUP						
Chloride	5.20	5.75	NA	NA	NA	10	11	

MATRIX SPIKE								
Laboratory ID:	09-198-01							
	MS	MS		MS				
Chloride	54.5	50.0	5.20	99	90-121	NA	NA	

SPIKE BLANK								
Laboratory ID:	SB0923W1							
	SB	SB		SB				
Chloride	50.7	50.0	NA	101	90-119	NA	NA	



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**NITRATE (as Nitrogen)
 EPA 353.2
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L-N

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0921W2					
Nitrate	ND	0.050	EPA 353.2	9-21-22	9-21-22	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	09-042-01							
	ORIG	DUP						
Nitrate	0.0912	0.0870	NA	NA	NA	5	10	

MATRIX SPIKE								
Laboratory ID:	09-042-01							
	MS	MS		MS				
Nitrate	2.21	2.00	0.0912	106	88-125	NA	NA	

SPIKE BLANK								
Laboratory ID:	SB0921W2							
	SB	SB		SB				
Nitrate	2.21	2.00	NA	111	90-120	NA	NA	



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 Project: 6694-002-00 T700

**SULFATE
 ASTM D516-11
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0926W1					
Sulfate	ND	5.0	ASTM D516-11	9-26-22	9-26-22	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	09-203-01							
	ORIG	DUP						
Sulfate	15.9	16.0	NA	NA	NA	1	10	

MATRIX SPIKE								
Laboratory ID:	09-203-01							
	MS	MS		MS				
Sulfate	24.2	10.0	15.9	83	72-128	NA	NA	

SPIKE BLANK								
Laboratory ID:	SB0926W1							
	SB	SB		SB				
Sulfate	9.73	10.0	NA	97	85-114	NA	NA	



Date of Report: October 5, 2022
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 Laboratory Reference: 2209-191
 Project: 6694-002-00 T700

**TOTAL DISSOLVED SOLIDS
 SM 2540C
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0923W1					
Total Dissolved Solids	ND	13	SM 2540C	9-23-22	9-23-22	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	09-189-01							
	ORIG	DUP						
Total Dissolved Solids	175	175	NA	NA	NA	0	23	

SPIKE BLANK								
Laboratory ID:	SB0923W1							
	SB	SB		SB				
Total Dissolved Solids	528	500	NA	106	89-120	NA	NA	



Date of Report: October 5, 2022
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AMMONIA (as Nitrogen)
SM 4500-NH₃ D
QUALITY CONTROL

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1005W1					
Ammonia	ND	0.050	SM 4500-NH3 D	10-5-22	10-5-22	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	09-253-01							
	ORIG	DUP						
Ammonia	ND	ND	NA	NA	NA	NA	15	

MATRIX SPIKE								
Laboratory ID:	09-253-01							
	MS	MS		MS				
Ammonia	4.92	5.00	ND	98	87-110	NA	NA	

SPIKE BLANK								
Laboratory ID:	SB1005W1							
	SB	SB		SB				
Ammonia	4.98	5.00	NA	100	88-110	NA	NA	



Date of Report: October 5, 2022
 Samples Submitted: September 21, 2022
 Laboratory Reference: 2209-191
 Project: 6694-002-00 T700

**DISSOLVED METALS
 EPA 200.8/200.7
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0928D1					
Calcium	ND	1100	EPA 200.7		9-28-22	
Manganese	ND	11	EPA 200.7		9-28-22	
Sodium	ND	1100	EPA 200.7		9-28-22	
Laboratory ID:	MB0929D1					
Arsenic	ND	3.0	EPA 200.8		9-29-22	
Laboratory ID:	MB0929D1					
Iron	ND	56	EPA 200.7		9-28-22	
Magnesium	ND	1100	EPA 200.7		9-28-22	
Potassium	ND	1100	EPA 200.7		9-29-22	



Date of Report: October 5, 2022
 Samples Submitted: September 21, 2022
 Laboratory Reference: 2209-191
 Project: 6694-002-00 T700

**DISSOLVED METALS
 EPA 200.8/200.7
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags		
DUPLICATE										
Laboratory ID:	09-191-01									
	ORIG	DUP								
Iron	ND	ND	NA	NA	NA	NA	20			
Magnesium	14300	14300	NA	NA	NA	0	20			
Potassium	2220	2220	NA	NA	NA	0	20			
Laboratory ID:	09-261-02									
	ORIG	DUP								
Calcium	16000	17200	NA	NA	NA	7	20			
Manganese	93.6	100	NA	NA	NA	7	20			
Sodium	12400	13300	NA	NA	NA	7	20			
Laboratory ID:	09-294-01									
Arsenic	ND	ND	NA	NA	NA	NA	20			
MATRIX SPIKES										
Laboratory ID:	09-191-01									
	MS	MSD	MS	MSD	MS	MSD				
Iron	24900	24800	22200	22200	ND	112	112	75-125	0	20
Magnesium	38900	38900	22200	22200	14300	111	111	75-125	0	20
Potassium	27200	27000	22200	22200	2220	113	112	75-125	1	20
Laboratory ID:	09-261-02									
	MS	MSD	MS	MSD	MS	MSD				
Calcium	34900	41600	22200	22200	16000	85	116	75-125	18	20
Manganese	697	611	556	556	93.6	109	93	75-125	13	20
Sodium	31400	37700	22200	22200	12400	86	114	75-125	18	20
Laboratory ID:	09-294-01									
Arsenic	76.6	75.8	80.0	80.0	ND	96	95	75-125	1	20



Date of Report: October 5, 2022
 Samples Submitted: September 21, 2022
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 Project: 6694-002-00 T700

**TOTAL METALS
 EPA 200.8/200.7
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0929WH2					
Iron	ND	50	EPA 200.7	9-29-22	9-30-22	
Magnesium	ND	1000	EPA 200.7	9-29-22	9-30-22	
Manganese	ND	10	EPA 200.7	9-29-22	9-30-22	
METHOD BLANK						
Laboratory ID:	MB0929WM1					
Arsenic	ND	3.3	EPA 200.8	9-29-22	9-29-22	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	09-159-07							
	ORIG	DUP						
Iron	ND	ND	NA	NA	NA	NA	20	
Magnesium	16200	16800	NA	NA	NA	4	20	
Manganese	31.0	30.3	NA	NA	NA	2	20	
DUPLICATE								
Laboratory ID:	09-267-10							
Arsenic	ND	ND	NA	NA	NA	NA	20	

MATRIX SPIKES

Laboratory ID:	09-159-07									
	MS	MSD	MS	MSD		MS	MSD			
Iron	22800	22600	20000	20000	ND	114	113	75-125	1	20
Magnesium	36800	35800	20000	20000	16200	103	98	75-125	3	20
Manganese	540	537	500	500	31.0	102	101	75-125	1	20
MATRIX SPIKES										
Laboratory ID:	09-267-10									
Arsenic	101	101	111	111	ND	91	91	75-125	0	20





Data Qualifiers and Abbreviations

- A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.
- B - The analyte indicated was also found in the blank sample.
- C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.
- E - The value reported exceeds the quantitation range and is an estimate.
- F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.
- H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.
- I - Compound recovery is outside of the control limits.
- J - The value reported was below the practical quantitation limit. The value is an estimate.
- K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.
- L - The RPD is outside of the control limits.
- M - Hydrocarbons in the gasoline range are impacting the diesel range result.
- M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.
- N - Hydrocarbons in the lube oil range are impacting the diesel range result.
- N1 - Hydrocarbons in diesel range are impacting lube oil range results.
- O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.
- P - The RPD of the detected concentrations between the two columns is greater than 40.
- Q - Surrogate recovery is outside of the control limits.
- S - Surrogate recovery data is not available due to the necessary dilution of the sample.
- T - The sample chromatogram is not similar to a typical _____.
- U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
- U1 - The practical quantitation limit is elevated due to interferences present in the sample.
- V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.
- W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.
- X - Sample extract treated with a mercury cleanup procedure.
- X1 - Sample extract treated with a sulfuric acid/silica gel cleanup procedure.
- Y - The calibration verification for this analyte exceeded the 20% drift specified in methods 8260 & 8270, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.

Z -

ND - Not Detected at PQL
 PQL - Practical Quantitation Limit
 RPD - Relative Percent Difference



Chain of Custody

Company: GeoEngineers
 Project Number: 6694-002-05
 Project Name: Go East
 Project Manager: Garrett Leque
 Sampled by: BRIAN ANDERSON

Turnaround Request (in working days)

(Check One)

Same Day 1 Day
 2 Days 3 Days
 Standard (7 Days)
 (TPH analysis 5 Days)
 _____ (other)

Laboratory Number: **09-191**

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	NWTPH-Gx	NWTPH-Dx	Volatiles 8260B	PAHs 8270D, SIM (low-level)	Organochlorine Pesticides 8081A	TOC, alk+bi-carb, Cl, NO3, SO4, TDS, NH3	TOC, TDS, NH3	T/D metals	T/D metals	☉metals	Total metals	% Moisture	
1	MW-3-20220920	9-20-22	1200	GW	6													
2	MW-8-20220920	9-20-22	1415	GW	8				P	X								

	Signature	Company	Date	Time	Comments/Special Instructions
Relinquished	<u>Brian Anderson</u>	GEENGINEERS	9-21-22	0915	TOTAL METALS: As, Fe, Mg, Mn
Received	<u>Josh Le</u>	Alpha	9-21-22	0930	DISSOLVED METALS:
Relinquished	<u>Josh Le</u>	Alpha	9-21	1210	As, Fe, Mg, Mn, Ca, K, Na
Received	<u>Nichelle</u>	OSE	9/21/22	1240	DISSOLVED
Relinquished					TOTAL METALS - FIELD FILTERED
Received					
Reviewed/Date		Reviewed/Date			Chromatograms with final report <input type="checkbox"/>



14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

October 5, 2022

Garrett Leque
GeoEngineers, Inc.
554 West Bakerview Road
Bellingham, WA 98226

Re: Analytical Data for Project 6694-002-05 T700
Laboratory Reference No. 2209-198

Dear Garrett:

Enclosed are the analytical results and associated quality control data for samples submitted on September 22, 2022.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

A handwritten signature in black ink, appearing to read "DB", is written over a large, light gray "DRAFT" watermark.

David Baumeister
Project Manager

Enclosures



OnSite Environmental, Inc. 14648 NE 95th Street, Redmond, WA 98052 (425) 883-3881

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: October 5, 2022
Samples Submitted: September 22, 2022
Laboratory Reference: 2209-198
Project: 6694-002-05 T700

Case Narrative

Samples were collected on September 21, 2022 and received by the laboratory on September 22, 2022. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.



Date of Report: October 5, 2022
Samples Submitted: September 22, 2022
Laboratory Reference: 2209-198
Project: 6694-002-05 T700

ANALYTICAL REPORT FOR SAMPLES

Client ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
MW-7-20220921	09-198-01	Water	9-21-22	9-22-22	
MW-6-20220921	09-198-02	Water	9-21-22	9-22-22	

DRAFT



Date of Report: October 5, 2022
 Samples Submitted: September 22, 2022
 Laboratory Reference: 2209-198
 Project: 6694-002-05 T700

PAHs EPA 8270E/SIM

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-7-20220921					
Laboratory ID:	09-198-01					
Naphthalene	ND	0.095	EPA 8270E/SIM	9-27-22	9-27-22	
2-Methylnaphthalene	ND	0.095	EPA 8270E/SIM	9-27-22	9-27-22	
1-Methylnaphthalene	ND	0.095	EPA 8270E/SIM	9-27-22	9-27-22	
Acenaphthylene	ND	0.095	EPA 8270E/SIM	9-27-22	9-27-22	
Acenaphthene	ND	0.095	EPA 8270E/SIM	9-27-22	9-27-22	
Fluorene	ND	0.095	EPA 8270E/SIM	9-27-22	9-27-22	
Phenanthrene	ND	0.095	EPA 8270E/SIM	9-27-22	9-27-22	
Anthracene	ND	0.095	EPA 8270E/SIM	9-27-22	9-27-22	
Fluoranthene	ND	0.095	EPA 8270E/SIM	9-27-22	9-27-22	
Pyrene	ND	0.095	EPA 8270E/SIM	9-27-22	9-27-22	
Benzo[a]anthracene	ND	0.0095	EPA 8270E/SIM	9-27-22	9-27-22	
Chrysene	ND	0.0095	EPA 8270E/SIM	9-27-22	9-27-22	
Benzo[b]fluoranthene	ND	0.0095	EPA 8270E/SIM	9-27-22	9-27-22	
Benzo(j,k)fluoranthene	ND	0.0095	EPA 8270E/SIM	9-27-22	9-27-22	
Benzo[a]pyrene	ND	0.0095	EPA 8270E/SIM	9-27-22	9-27-22	
Indeno(1,2,3-c,d)pyrene	ND	0.0095	EPA 8270E/SIM	9-27-22	9-27-22	
Dibenz[a,h]anthracene	ND	0.0095	EPA 8270E/SIM	9-27-22	9-27-22	
Benzo[g,h,i]perylene	ND	0.0095	EPA 8270E/SIM	9-27-22	9-27-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>2-Fluorobiphenyl</i>	<i>58</i>	<i>20 - 106</i>				
<i>Pyrene-d10</i>	<i>70</i>	<i>19 - 104</i>				
<i>Terphenyl-d14</i>	<i>86</i>	<i>41 - 127</i>				



Date of Report: October 5, 2022
 Samples Submitted: September 22, 2022
 Laboratory Reference: 2209-198
 Project: 6694-002-05 T700

PAHs EPA 8270E/SIM

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-6-20220921					
Laboratory ID:	09-198-02					
Naphthalene	ND	0.095	EPA 8270E/SIM	9-27-22	9-27-22	
2-Methylnaphthalene	ND	0.095	EPA 8270E/SIM	9-27-22	9-27-22	
1-Methylnaphthalene	ND	0.095	EPA 8270E/SIM	9-27-22	9-27-22	
Acenaphthylene	ND	0.095	EPA 8270E/SIM	9-27-22	9-27-22	
Acenaphthene	ND	0.095	EPA 8270E/SIM	9-27-22	9-27-22	
Fluorene	ND	0.095	EPA 8270E/SIM	9-27-22	9-27-22	
Phenanthrene	ND	0.095	EPA 8270E/SIM	9-27-22	9-27-22	
Anthracene	ND	0.095	EPA 8270E/SIM	9-27-22	9-27-22	
Fluoranthene	ND	0.095	EPA 8270E/SIM	9-27-22	9-27-22	
Pyrene	ND	0.095	EPA 8270E/SIM	9-27-22	9-27-22	
Benzo[a]anthracene	ND	0.0095	EPA 8270E/SIM	9-27-22	9-27-22	
Chrysene	ND	0.0095	EPA 8270E/SIM	9-27-22	9-27-22	
Benzo[b]fluoranthene	ND	0.0095	EPA 8270E/SIM	9-27-22	9-27-22	
Benzo(j,k)fluoranthene	ND	0.0095	EPA 8270E/SIM	9-27-22	9-27-22	
Benzo[a]pyrene	ND	0.0095	EPA 8270E/SIM	9-27-22	9-27-22	
Indeno(1,2,3-c,d)pyrene	ND	0.0095	EPA 8270E/SIM	9-27-22	9-27-22	
Dibenz[a,h]anthracene	ND	0.0095	EPA 8270E/SIM	9-27-22	9-27-22	
Benzo[g,h,i]perylene	ND	0.0095	EPA 8270E/SIM	9-27-22	9-27-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>2-Fluorobiphenyl</i>	56	20 - 106				
<i>Pyrene-d10</i>	72	19 - 104				
<i>Terphenyl-d14</i>	86	41 - 127				



Date of Report: October 5, 2022
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 Laboratory Reference: 2209-198
 Project: 6694-002-05 T700

**TOTAL ORGANIC CARBON
 SM 5310B**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-7-20220921					
Laboratory ID:	09-198-01					
Total Organic Carbon	ND	1.0	SM 5310B	9-29-22	9-29-22	
Client ID:	MW-6-20220921					
Laboratory ID:	09-198-02					
Total Organic Carbon	3.7	1.0	SM 5310B	9-29-22	9-29-22	



Date of Report: October 5, 2022
 Samples Submitted: September 22, 2022
 Laboratory Reference: 2209-198
 Project: 6694-002-05 T700

**TOTAL ALKALINITY
 SM 2320B**

Matrix: Water
 Units: mg CaCO₃/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-7-20220921					
Laboratory ID:	09-198-01					
Total Alkalinity	100	2.0	SM 2320B	9-29-22	9-29-22	
Client ID:	MW-6-20220921					
Laboratory ID:	09-198-02					
Total Alkalinity	190	2.0	SM 2320B	9-29-22	9-29-22	



Date of Report: October 5, 2022
 Samples Submitted: September 22, 2022
 Laboratory Reference: 2209-198
 Project: 6694-002-05 T700

**BICARBONATE
 SM 2320B**

Matrix: Water
 Units: mg CaCO₃/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-7-20220921					
Laboratory ID:	09-198-01					
Total Alkalinity	100	2.0	SM 2320B	9-29-22	9-29-22	
Client ID:	MW-6-20220921					
Laboratory ID:	09-198-02					
Total Alkalinity	190	2.0	SM 2320B	9-29-22	9-29-22	



Date of Report: October 5, 2022
 Samples Submitted: September 22, 2022
 Laboratory Reference: 2209-198
 Project: 6694-002-05 T700

**CHLORIDE
 SM 4500-Cl E**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-7-20220921					
Laboratory ID:	09-198-01					
Chloride	5.2	2.0	SM 4500-Cl E	9-23-22	9-23-22	
Client ID:	MW-6-20220921					
Laboratory ID:	09-198-02					
Chloride	5.3	2.0	SM 4500-Cl E	9-23-22	9-23-22	



Date of Report: October 5, 2022
 Samples Submitted: September 22, 2022
 Laboratory Reference: 2209-198
 Project: 6694-002-05 T700

NITRATE (as Nitrogen)
EPA 353.2

Matrix: Water
 Units: mg/L-N

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-7-20220921					
Laboratory ID:	09-198-01					
Nitrate	0.50	0.050	EPA 353.2	9-22-22	9-22-22	
Client ID:	MW-6-20220921					
Laboratory ID:	09-198-02					
Nitrate	0.074	0.050	EPA 353.2	9-22-22	9-22-22	



Date of Report: October 5, 2022
 Samples Submitted: September 22, 2022
 Laboratory Reference: 2209-198
 Project: 6694-002-05 T700

SULFATE
ASTM D516-11

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-7-20220921					
Laboratory ID:	09-198-01					
Sulfate	6.9	5.0	ASTM D516-11	9-26-22	9-26-22	
Client ID:	MW-6-20220921					
Laboratory ID:	09-198-02					
Sulfate	18	5.0	ASTM D516-11	9-26-22	9-26-22	



Date of Report: October 5, 2022
 Samples Submitted: September 22, 2022
 Laboratory Reference: 2209-198
 Project: 6694-002-05 T700

**TOTAL DISSOLVED SOLIDS
 SM 2540C**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-7-20220921					
Laboratory ID:	09-198-01					
Total Dissolved Solids	140	13	SM 2540C	9-23-22	9-23-22	

Client ID:	MW-6-20220921					
Laboratory ID:	09-198-02					
Total Dissolved Solids	230	13	SM 2540C	9-23-22	9-23-22	



Date of Report: October 5, 2022
 Samples Submitted: September 22, 2022
 Laboratory Reference: 2209-198
 Project: 6694-002-05 T700

AMMONIA (as Nitrogen)
SM 4500-NH₃ D

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-7-20220921					
Laboratory ID:	09-198-01					
Ammonia	ND	0.050	SM 4500-NH3 D	10-5-22	10-5-22	
Client ID:	MW-6-20220921					
Laboratory ID:	09-198-02					
Ammonia	0.10	0.050	SM 4500-NH3 D	10-5-22	10-5-22	



Date of Report: October 5, 2022
 Samples Submitted: September 22, 2022
 Laboratory Reference: 2209-198
 Project: 6694-002-05 T700

TOTAL METALS
EPA 200.8/200.7

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-7-20220921					
Laboratory ID:	09-198-01					
Arsenic	8.8	3.3	EPA 200.8	9-29-22	9-29-22	
Iron	3000	50	EPA 200.7	9-29-22	9-30-22	
Magnesium	14000	1000	EPA 200.7	9-29-22	9-30-22	
Manganese	190	10	EPA 200.7	9-29-22	9-30-22	

Client ID:	MW-6-20220921					
Laboratory ID:	09-198-02					
Arsenic	5.7	3.3	EPA 200.8	9-29-22	9-29-22	
Iron	510	50	EPA 200.7	9-29-22	9-30-22	
Magnesium	21000	1000	EPA 200.7	9-29-22	9-30-22	
Manganese	1700	10	EPA 200.7	9-29-22	9-30-22	



Date of Report: October 5, 2022
 Samples Submitted: September 22, 2022
 Laboratory Reference: 2209-198
 Project: 6694-002-05 T700

DISSOLVED METALS
EPA 200.8/200.7

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-7-20220921					
Laboratory ID:	09-198-01					
Arsenic	9.1	3.0	EPA 200.8		9-29-22	
Calcium	20000	1100	EPA 200.7		9-28-22	
Iron	ND	56	EPA 200.7		9-29-22	
Magnesium	14000	1100	EPA 200.7		9-29-22	
Manganese	74	11	EPA 200.7		9-28-22	
Potassium	2200	1100	EPA 200.7		9-29-22	
Sodium	6200	1100	EPA 200.7		9-28-22	

Client ID:	MW-6-20220921					
Laboratory ID:	09-198-02					
Arsenic	5.6	3.0	EPA 200.8		9-29-22	
Calcium	37000	1100	EPA 200.7		9-28-22	
Iron	330	56	EPA 200.7		9-29-22	
Magnesium	23000	1100	EPA 200.7		9-29-22	
Manganese	1700	11	EPA 200.7		9-28-22	
Potassium	2600	1100	EPA 200.7		9-29-22	
Sodium	13000	1100	EPA 200.7		9-28-22	



Date of Report: October 5, 2022
 Samples Submitted: September 22, 2022
 Laboratory Reference: 2209-198
 Project: 6694-002-05 T700

**PAHs EPA 8270E/SIM
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0927W1					
Naphthalene	ND	0.10	EPA 8270E/SIM	9-27-22	9-27-22	
2-Methylnaphthalene	ND	0.10	EPA 8270E/SIM	9-27-22	9-27-22	
1-Methylnaphthalene	ND	0.10	EPA 8270E/SIM	9-27-22	9-27-22	
Acenaphthylene	ND	0.10	EPA 8270E/SIM	9-27-22	9-27-22	
Acenaphthene	ND	0.10	EPA 8270E/SIM	9-27-22	9-27-22	
Fluorene	ND	0.10	EPA 8270E/SIM	9-27-22	9-27-22	
Phenanthrene	ND	0.10	EPA 8270E/SIM	9-27-22	9-27-22	
Anthracene	ND	0.10	EPA 8270E/SIM	9-27-22	9-27-22	
Fluoranthene	ND	0.10	EPA 8270E/SIM	9-27-22	9-27-22	
Pyrene	ND	0.10	EPA 8270E/SIM	9-27-22	9-27-22	
Benzo[a]anthracene	ND	0.010	EPA 8270E/SIM	9-27-22	9-27-22	
Chrysene	ND	0.010	EPA 8270E/SIM	9-27-22	9-27-22	
Benzo[b]fluoranthene	ND	0.010	EPA 8270E/SIM	9-27-22	9-27-22	
Benzo(j,k)fluoranthene	ND	0.010	EPA 8270E/SIM	9-27-22	9-27-22	
Benzo[a]pyrene	ND	0.010	EPA 8270E/SIM	9-27-22	9-27-22	
Indeno(1,2,3-c,d)pyrene	ND	0.010	EPA 8270E/SIM	9-27-22	9-27-22	
Dibenz[a,h]anthracene	ND	0.010	EPA 8270E/SIM	9-27-22	9-27-22	
Benzo[g,h,i]perylene	ND	0.010	EPA 8270E/SIM	9-27-22	9-27-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>2-Fluorobiphenyl</i>	<i>54</i>	<i>20 - 106</i>				
<i>Pyrene-d10</i>	<i>72</i>	<i>19 - 104</i>				
<i>Terphenyl-d14</i>	<i>86</i>	<i>41 - 127</i>				



Date of Report: October 5, 2022
 Samples Submitted: September 22, 2022
 Laboratory Reference: 2209-198
 Project: 6694-002-05 T700

**PAHs EPA 8270E/SIM
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD	RPD	Flags
					Recovery	Limits	RPD	Limit		
SPIKE BLANKS										
Laboratory ID:	SB0927W1									
	SB	SBD	SB	SBD	SB	SBD				
Naphthalene	0.297	0.270	0.500	0.500	59	54	25 - 82	10	39	
Acenaphthylene	0.310	0.299	0.500	0.500	62	60	35 - 107	4	26	
Acenaphthene	0.295	0.286	0.500	0.500	59	57	33 - 99	3	26	
Fluorene	0.330	0.315	0.500	0.500	66	63	43 - 95	5	24	
Phenanthrene	0.334	0.316	0.500	0.500	67	63	49 - 100	6	20	
Anthracene	0.325	0.301	0.500	0.500	65	60	47 - 101	8	21	
Fluoranthene	0.334	0.312	0.500	0.500	67	62	51 - 115	7	23	
Pyrene	0.349	0.329	0.500	0.500	70	66	53 - 117	6	24	
Benzo[a]anthracene	0.395	0.362	0.500	0.500	79	72	57 - 114	9	21	
Chrysene	0.376	0.341	0.500	0.500	75	68	55 - 119	10	21	
Benzo[b]fluoranthene	0.381	0.397	0.500	0.500	76	79	56 - 125	4	26	
Benzo(j,k)fluoranthene	0.446	0.375	0.500	0.500	89	75	53 - 124	17	22	
Benzo[a]pyrene	0.367	0.338	0.500	0.500	73	68	54 - 119	8	22	
Indeno(1,2,3-c,d)pyrene	0.438	0.404	0.500	0.500	88	81	55 - 118	8	23	
Dibenz[a,h]anthracene	0.389	0.355	0.500	0.500	78	71	56 - 118	9	23	
Benzo[g,h,i]perylene	0.345	0.312	0.500	0.500	69	62	55 - 117	10	22	
<i>Surrogate:</i>										
2-Fluorobiphenyl					51	47	20 - 106			
Pyrene-d10					67	62	19 - 104			
Terphenyl-d14					81	74	41 - 127			



Date of Report: October 5, 2022
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 Laboratory Reference: 2209-198
 Project: 6694-002-05 T700

**TOTAL ORGANIC CARBON
 SM 5310B
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0929W1					
Total Organic Carbon	ND	1.0	SM 5310B	9-29-22	9-29-22	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	09-165-01							
	ORIG	DUP						
Total Organic Carbon	5.31	5.31	NA	NA	NA	0	12	

MATRIX SPIKE								
Laboratory ID:	09-165-01							
	MS	MS		MS				
Total Organic Carbon	15.5	10.0	5.31	102	80-120	NA	NA	

SPIKE BLANK								
Laboratory ID:	SB0929W1							
	SB	SB		SB				
Total Organic Carbon	10.5	10.0	NA	105	80-118	NA	NA	



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**TOTAL ALKALINITY
 SM 2320B
 QUALITY CONTROL**

Matrix: Water
 Units: mg CaCO₃/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0929W1					
Total Alkalinity	ND	2.0	SM 2320B	9-29-22	9-29-22	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	09-190-01							
	ORIG	DUP						
Total Alkalinity	392	392	NA	NA	NA	0	10	

SPIKE BLANK								
Laboratory ID:	SB0929W1							
	SB	SB		SB				
Total Alkalinity	94.0	100	NA	94	89-110	NA	NA	



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**BICARBONATE
 SM 2320B
 QUALITY CONTROL**

Matrix: Water
 Units: mg CaCO₃/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0929W1					
Bicarbonate	ND	2.0	SM 2320B	9-29-22	9-29-22	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	09-190-01							
	ORIG	DUP						
Total Alkalinity	392	392	NA	NA	NA	0	10	

SPIKE BLANK								
Laboratory ID:	SB0929W1							
	SB	SB		SB				
Total Alkalinity	94.0	100	NA	94	89-110	NA	NA	



Date of Report: October 5, 2022
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 Laboratory Reference: 2209-198
 Project: 6694-002-05 T700

**CHLORIDE
 SM 4500-Cl E
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0923W1					
Chloride	ND	2.0	SM 4500-Cl E	9-23-22	9-23-22	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	09-198-01							
	ORIG	DUP						
Chloride	5.20	5.75	NA	NA	NA	10	11	

MATRIX SPIKE								
Laboratory ID:	09-198-01							
	MS	MS		MS				
Chloride	54.5	50.0	5.20	99	90-121	NA	NA	

SPIKE BLANK								
Laboratory ID:	SB0923W1							
	SB	SB		SB				
Chloride	50.7	50.0	NA	101	90-119	NA	NA	



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 Laboratory Reference: 2209-198
 Project: 6694-002-05 T700

**NITRATE (as Nitrogen)
 EPA 353.2
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L-N

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0922W2					
Nitrate	ND	0.050	EPA 353.2	9-22-22	9-22-22	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	09-060-01							
	ORIG	DUP						
Nitrate	0.149	0.146	NA	NA	NA	2	10	

MATRIX SPIKE								
Laboratory ID:	09-060-01							
	MS	MS		MS				
Nitrate	1.97	2.00	0.149	91	88-125	NA	NA	

SPIKE BLANK								
Laboratory ID:	SB0922W2							
	SB	SB		SB				
Nitrate	2.01	2.00	NA	101	90-120	NA	NA	



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 Laboratory Reference: 2209-198
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**SULFATE
 ASTM D516-11
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0926W1					
Sulfate	ND	5.0	ASTM D516-11	9-26-22	9-26-22	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	09-203-01							
	ORIG	DUP						
Sulfate	15.9	16.0	NA	NA	NA	1	10	

MATRIX SPIKE								
Laboratory ID:	09-203-01							
	MS	MS		MS				
Sulfate	24.2	10.0	15.9	83	72-128	NA	NA	

SPIKE BLANK								
Laboratory ID:	SB0926W1							
	SB	SB		SB				
Sulfate	9.73	10.0	NA	97	85-114	NA	NA	



Date of Report: October 5, 2022
 Samples Submitted: September 22, 2022
 Laboratory Reference: 2209-198
 Project: 6694-002-05 T700

**TOTAL DISSOLVED SOLIDS
 SM 2540C
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0923W1					
Total Dissolved Solids	ND	13	SM 2540C	9-23-22	9-23-22	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	09-189-01							
	ORIG	DUP						
Total Dissolved Solids	175	175	NA	NA	NA	0	23	

SPIKE BLANK								
Laboratory ID:	SB0923W1							
	SB	SB		SB				
Total Dissolved Solids	528	500	NA	106	89-120	NA	NA	



Date of Report: October 5, 2022
 Samples Submitted: September 22, 2022
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**AMMONIA (as Nitrogen)
 SM 4500-NH₃ D
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1005W1					
Ammonia	ND	0.050	SM 4500-NH3 D	10-5-22	10-5-22	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	09-253-01							
	ORIG	DUP						
Ammonia	ND	ND	NA	NA	NA	NA	15	

MATRIX SPIKE								
Laboratory ID:	09-253-01							
	MS	MS		MS				
Ammonia	4.92	5.00	ND	98	87-110	NA	NA	

SPIKE BLANK								
Laboratory ID:	SB1005W1							
	SB	SB		SB				
Ammonia	4.98	5.00	NA	100	88-110	NA	NA	



Date of Report: October 5, 2022
 Samples Submitted: September 22, 2022
 Laboratory Reference: 2209-198
 Project: 6694-002-05 T700

**TOTAL METALS
 EPA 200.8/200.7
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0929WH2					
Iron	ND	50	EPA 200.7	9-29-22	9-30-22	
Magnesium	ND	1000	EPA 200.7	9-29-22	9-30-22	
Manganese	ND	10	EPA 200.7	9-29-22	9-30-22	
METHOD BLANK						
Laboratory ID:	MB0929WM1					
Arsenic	ND	3.3	EPA 200.8	9-29-22	9-29-22	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	09-159-07							
	ORIG	DUP						
Iron	ND	ND	NA	NA	NA	NA	20	
Magnesium	16200	16800	NA	NA	NA	4	20	
Manganese	31.0	30.3	NA	NA	NA	2	20	
DUPLICATE								
Laboratory ID:	09-267-10							
Arsenic	ND	ND	NA	NA	NA	NA	20	

MATRIX SPIKES

Laboratory ID:	09-159-07									
	MS	MSD	MS	MSD		MS	MSD			
Iron	22800	22600	20000	20000	ND	114	113	75-125	1	20
Magnesium	36800	35800	20000	20000	16200	103	98	75-125	3	20
Manganese	540	537	500	500	31.0	102	101	75-125	1	20
MATRIX SPIKES										
Laboratory ID:	09-267-10									
Arsenic	101	101	111	111	ND	91	91	75-125	0	20



Date of Report: October 5, 2022
 Samples Submitted: September 22, 2022
 Laboratory Reference: 2209-198
 Project: 6694-002-05 T700

**DISSOLVED METALS
 EPA 200.8/200.7
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0928D1					
Calcium	ND	1100	EPA 200.7		9-28-22	
Manganese	ND	11	EPA 200.7		9-28-22	
Sodium	ND	1100	EPA 200.7		9-28-22	
Laboratory ID:	MB0929D1					
Arsenic	ND	3.0	EPA 200.8		9-29-22	
Laboratory ID:	MB0929D1					
Iron	ND	56	EPA 200.7		9-28-22	
Magnesium	ND	1100	EPA 200.7		9-28-22	
Potassium	ND	1100	EPA 200.7		9-29-22	



Date of Report: October 5, 2022
 Samples Submitted: September 22, 2022
 Laboratory Reference: 2209-198
 Project: 6694-002-05 T700

**DISSOLVED METALS
 EPA 200.8/200.7
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags		
DUPLICATE										
Laboratory ID:	09-191-01									
	ORIG	DUP								
Iron	ND	ND	NA	NA	NA	NA	20			
Magnesium	14300	14300	NA	NA	NA	0	20			
Potassium	2220	2220	NA	NA	NA	0	20			
Laboratory ID:	09-261-02									
	ORIG	DUP								
Calcium	16000	17200	NA	NA	NA	7	20			
Manganese	93.6	100	NA	NA	NA	7	20			
Sodium	12400	13300	NA	NA	NA	7	20			
Laboratory ID:	09-294-01									
Arsenic	ND	ND	NA	NA	NA	NA	20			
MATRIX SPIKES										
Laboratory ID:	09-191-01									
	MS	MSD	MS	MSD	MS	MSD				
Iron	24900	24800	22200	22200	ND	112	112	75-125	0	20
Magnesium	38900	38900	22200	22200	14300	111	111	75-125	0	20
Potassium	27200	27000	22200	22200	2220	113	112	75-125	1	20
Laboratory ID:	09-261-02									
	MS	MSD	MS	MSD	MS	MSD				
Calcium	34900	41600	22200	22200	16000	85	116	75-125	18	20
Manganese	697	611	556	556	93.6	109	93	75-125	13	20
Sodium	31400	37700	22200	22200	12400	86	114	75-125	18	20
Laboratory ID:	09-294-01									
Arsenic	76.6	75.8	80.0	80.0	ND	96	95	75-125	1	20





Data Qualifiers and Abbreviations

- A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.
 - B - The analyte indicated was also found in the blank sample.
 - C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.
 - E - The value reported exceeds the quantitation range and is an estimate.
 - F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.
 - H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.
 - I - Compound recovery is outside of the control limits.
 - J - The value reported was below the practical quantitation limit. The value is an estimate.
 - K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.
 - L - The RPD is outside of the control limits.
 - M - Hydrocarbons in the gasoline range are impacting the diesel range result.
 - M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.
 - N - Hydrocarbons in the lube oil range are impacting the diesel range result.
 - N1 - Hydrocarbons in diesel range are impacting lube oil range results.
 - O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.
 - P - The RPD of the detected concentrations between the two columns is greater than 40.
 - Q - Surrogate recovery is outside of the control limits.
 - S - Surrogate recovery data is not available due to the necessary dilution of the sample.
 - T - The sample chromatogram is not similar to a typical _____.
 - U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
 - U1 - The practical quantitation limit is elevated due to interferences present in the sample.
 - V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.
 - W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.
 - X - Sample extract treated with a mercury cleanup procedure.
 - X1 - Sample extract treated with a sulfuric acid/silica gel cleanup procedure.
 - X2 - Sample extract treated with a silica gel cleanup procedure.
 - Y - The calibration verification for this analyte exceeded the 20% drift specified in methods 8260 & 8270, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.
 - Y1 - Negative effects of the matrix from this sample on the instrument caused values for this analyte in the bracketing continuing calibration verification standard (CCVs) to be outside of 20% acceptance criteria. Because of this, quantitation limits and sample concentrations should be considered estimates.
 - Z -
- ND - Not Detected at PQL
 PQL - Practical Quantitation Limit
 RPD - Relative Percent Difference



Chain of Custody

Company: GeoEngineers
 Project Number: 6694-002-05
 Project Name: Go East
 Project Manager: Garrett Leque
 Sampled by: **BRIAN ANDERSON**

Turnaround Request (in working days)
 (Check One)
 Same Day 1 Day
 2 Days 3 Days
 Standard (7 Days) (TPH analysis 5 Days)
 _____ (other)

Laboratory Number: 09-198

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	Analytes																	
						NWTPH-Gx	NWTPH-Dx	Volatiles 8260B	PAHs 8270D/SIM (low-level)	Organochlorine Pesticides 8081A	TOC, alk+bicarb, Cl, NO3, SO4, TDS, NH3	TOC, TDS, NH3	T/D metals	T/D metals	D metals	Total metals	% Moisture						
1	MW-7-20220921	9-21-22	1105	GW	8					X	X					X	X						
2	MW-6-20220921	9-21-22	1405	GW	8					X	X					X	X						

	Signature	Company	Date	Time	Comments/Special Instructions
Relinquished	<i>Brian Anderson</i>	GeoEng. Inc.	9-22-22	0900	TOTAL METALS: As, Fe, Mg, Mn
Received	<i>Joshua</i>	Alpha	9-22-22	9:15	
Relinquished	<i>Joshua</i>	Alpha	9-22-22	9:54	DISSOLVED METALS: As, Fe, Mg, Mn, Ca, K, Na
Received	<i>[Signature]</i>	OYE	9/22/22	0959	
Relinquished					DISS METALS - FIELD FILTERED
Received					
Reviewed/Date		Reviewed/Date			Chromatograms with final report <input type="checkbox"/>



14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

October 4, 2022

Garrett Leque
GeoEngineers, Inc.
554 West Bakerview Road
Bellingham, WA 98226

Re: Analytical Data for Project 6694-002-05 T700
Laboratory Reference No. 2209-199

Dear Garrett:

Enclosed are the analytical results and associated quality control data for samples submitted on September 22, 2022.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

A handwritten signature in black ink, appearing to read "DB", with a horizontal line extending to the right.

David Baumeister
Project Manager

Enclosures



OnSite Environmental, Inc. 14648 NE 95th Street, Redmond, WA 98052 (425) 883-3881

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: October 4, 2022
Samples Submitted: September 22, 2022
Laboratory Reference: 2209-199
Project: 6694-002-00 T700

Case Narrative

Samples were collected on September 21, 2022 and received by the laboratory on September 22, 2022. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.



Date of Report: October 4, 2022
Samples Submitted: September 22, 2022
Laboratory Reference: 2209-199
Project: 6694-002-00 T700

ANALYTICAL REPORT FOR SAMPLES

Client ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
MW-10-220921	09-199-01	Water	9-21-22	9-22-22	

DRAFT



Date of Report: October 4, 2022
 Samples Submitted: September 22, 2022
 Laboratory Reference: 2209-199
 Project: 6694-002-00 T700

GASOLINE RANGE ORGANICS
NWTPH-Gx

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-10-220921					
Laboratory ID:	09-199-01					
Gasoline	ND	100	NWTPH-Gx	9-23-22	9-23-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	94	65-122				



Date of Report: October 4, 2022
 Samples Submitted: September 22, 2022
 Laboratory Reference: 2209-199
 Project: 6694-002-00 T700

DIESEL AND HEAVY OIL RANGE ORGANICS
NWTPH-Dx

Matrix: Water
 Units: mg/L (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-10-220921					
Laboratory ID:	09-199-01					
Diesel Range Organics	0.16	0.15	NWTPH-Dx	9-27-22	9-27-22	
Lube Oil Range Organics	0.32	0.20	NWTPH-Dx	9-27-22	9-27-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	87	50-150				



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Matrix: Water

Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-10-220921					
Laboratory ID:	09-199-01					
Dichlorodifluoromethane	ND	0.30	EPA 8260D	9-23-22	9-23-22	
Chloromethane	ND	1.0	EPA 8260D	9-23-22	9-23-22	
Vinyl Chloride	ND	0.20	EPA 8260D	9-23-22	9-23-22	
Bromomethane	ND	1.3	EPA 8260D	9-23-22	9-23-22	
Chloroethane	ND	1.0	EPA 8260D	9-23-22	9-23-22	
Trichlorofluoromethane	ND	0.20	EPA 8260D	9-23-22	9-23-22	
1,1-Dichloroethene	ND	0.20	EPA 8260D	9-23-22	9-23-22	
Acetone	ND	5.0	EPA 8260D	9-23-22	9-23-22	
Iodomethane	ND	5.0	EPA 8260D	9-23-22	9-23-22	
Carbon Disulfide	ND	0.20	EPA 8260D	9-23-22	9-23-22	
Methylene Chloride	ND	1.0	EPA 8260D	9-23-22	9-23-22	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	9-23-22	9-23-22	
Methyl t-Butyl Ether	ND	0.20	EPA 8260D	9-23-22	9-23-22	
1,1-Dichloroethane	ND	0.20	EPA 8260D	9-23-22	9-23-22	
Vinyl Acetate	ND	1.0	EPA 8260D	9-23-22	9-23-22	
2,2-Dichloropropane	ND	0.20	EPA 8260D	9-23-22	9-23-22	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	9-23-22	9-23-22	
2-Butanone	ND	5.0	EPA 8260D	9-23-22	9-23-22	
Bromochloromethane	ND	0.20	EPA 8260D	9-23-22	9-23-22	
Chloroform	ND	0.20	EPA 8260D	9-23-22	9-23-22	
1,1,1-Trichloroethane	ND	0.20	EPA 8260D	9-23-22	9-23-22	
Carbon Tetrachloride	ND	0.20	EPA 8260D	9-23-22	9-23-22	
1,1-Dichloropropene	ND	0.20	EPA 8260D	9-23-22	9-23-22	
Benzene	ND	0.20	EPA 8260D	9-23-22	9-23-22	
1,2-Dichloroethane	ND	0.20	EPA 8260D	9-23-22	9-23-22	
Trichloroethene	ND	0.20	EPA 8260D	9-23-22	9-23-22	
1,2-Dichloropropane	ND	0.20	EPA 8260D	9-23-22	9-23-22	
Dibromomethane	ND	0.20	EPA 8260D	9-23-22	9-23-22	
Bromodichloromethane	ND	0.20	EPA 8260D	9-23-22	9-23-22	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260D	9-23-22	9-23-22	
Methyl Isobutyl Ketone	ND	2.0	EPA 8260D	9-23-22	9-23-22	
Toluene	ND	1.0	EPA 8260D	9-23-22	9-23-22	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260D	9-23-22	9-23-22	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-10-220921					
Laboratory ID:	09-199-01					
1,1,2-Trichloroethane	ND	0.20	EPA 8260D	9-23-22	9-23-22	
Tetrachloroethene	ND	0.20	EPA 8260D	9-23-22	9-23-22	
1,3-Dichloropropane	ND	0.20	EPA 8260D	9-23-22	9-23-22	
2-Hexanone	ND	2.0	EPA 8260D	9-23-22	9-23-22	
Dibromochloromethane	ND	0.20	EPA 8260D	9-23-22	9-23-22	
1,2-Dibromoethane	ND	0.20	EPA 8260D	9-23-22	9-23-22	
Chlorobenzene	ND	0.20	EPA 8260D	9-23-22	9-23-22	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260D	9-23-22	9-23-22	
Ethylbenzene	ND	0.20	EPA 8260D	9-23-22	9-23-22	
m,p-Xylene	ND	0.40	EPA 8260D	9-23-22	9-23-22	
o-Xylene	ND	0.20	EPA 8260D	9-23-22	9-23-22	
Styrene	ND	0.20	EPA 8260D	9-23-22	9-23-22	
Bromoform	ND	1.0	EPA 8260D	9-23-22	9-23-22	
Isopropylbenzene	ND	0.20	EPA 8260D	9-23-22	9-23-22	
Bromobenzene	ND	0.20	EPA 8260D	9-23-22	9-23-22	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260D	9-23-22	9-23-22	
1,2,3-Trichloropropane	ND	0.20	EPA 8260D	9-23-22	9-23-22	
n-Propylbenzene	ND	0.20	EPA 8260D	9-23-22	9-23-22	
2-Chlorotoluene	ND	0.20	EPA 8260D	9-23-22	9-23-22	
4-Chlorotoluene	ND	0.20	EPA 8260D	9-23-22	9-23-22	
1,3,5-Trimethylbenzene	ND	0.20	EPA 8260D	9-23-22	9-23-22	
tert-Butylbenzene	ND	0.20	EPA 8260D	9-23-22	9-23-22	
1,2,4-Trimethylbenzene	ND	0.20	EPA 8260D	9-23-22	9-23-22	
sec-Butylbenzene	ND	0.20	EPA 8260D	9-23-22	9-23-22	
1,3-Dichlorobenzene	ND	0.20	EPA 8260D	9-23-22	9-23-22	
p-Isopropyltoluene	ND	0.20	EPA 8260D	9-23-22	9-23-22	
1,4-Dichlorobenzene	ND	0.20	EPA 8260D	9-23-22	9-23-22	
1,2-Dichlorobenzene	ND	0.20	EPA 8260D	9-23-22	9-23-22	
n-Butylbenzene	ND	0.20	EPA 8260D	9-23-22	9-23-22	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260D	9-23-22	9-23-22	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260D	9-23-22	9-23-22	
Hexachlorobutadiene	ND	1.0	EPA 8260D	9-23-22	9-23-22	
Naphthalene	ND	1.0	EPA 8260D	9-23-22	9-23-22	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260D	9-23-22	9-23-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>88</i>	<i>75-127</i>				
<i>Toluene-d8</i>	<i>99</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>104</i>	<i>78-125</i>				



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PAHs EPA 8270E/SIM

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-10-220921					
Laboratory ID:	09-199-01					
Naphthalene	ND	0.094	EPA 8270E/SIM	9-27-22	9-27-22	
2-Methylnaphthalene	ND	0.094	EPA 8270E/SIM	9-27-22	9-27-22	
1-Methylnaphthalene	ND	0.094	EPA 8270E/SIM	9-27-22	9-27-22	
Acenaphthylene	ND	0.094	EPA 8270E/SIM	9-27-22	9-27-22	
Acenaphthene	0.29	0.094	EPA 8270E/SIM	9-27-22	9-27-22	
Fluorene	ND	0.094	EPA 8270E/SIM	9-27-22	9-27-22	
Phenanthrene	ND	0.094	EPA 8270E/SIM	9-27-22	9-27-22	
Anthracene	ND	0.094	EPA 8270E/SIM	9-27-22	9-27-22	
Fluoranthene	ND	0.094	EPA 8270E/SIM	9-27-22	9-27-22	
Pyrene	ND	0.094	EPA 8270E/SIM	9-27-22	9-27-22	
Benzo[a]anthracene	ND	0.0094	EPA 8270E/SIM	9-27-22	9-27-22	
Chrysene	ND	0.0094	EPA 8270E/SIM	9-27-22	9-27-22	
Benzo[b]fluoranthene	ND	0.0094	EPA 8270E/SIM	9-27-22	9-27-22	
Benzo(j,k)fluoranthene	ND	0.0094	EPA 8270E/SIM	9-27-22	9-27-22	
Benzo[a]pyrene	ND	0.0094	EPA 8270E/SIM	9-27-22	9-27-22	
Indeno(1,2,3-c,d)pyrene	ND	0.0094	EPA 8270E/SIM	9-27-22	9-27-22	
Dibenz[a,h]anthracene	ND	0.0094	EPA 8270E/SIM	9-27-22	9-27-22	
Benzo[g,h,i]perylene	ND	0.0094	EPA 8270E/SIM	9-27-22	9-27-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
2-Fluorobiphenyl	43	20 - 106				
Pyrene-d10	60	19 - 104				
Terphenyl-d14	78	41 - 127				



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**ORGANOCHLORINE
 PESTICIDES EPA 8081B**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-10-220921					
Laboratory ID:	09-199-01					
alpha-BHC	ND	0.0048	EPA 8081B	9-28-22	9-28-22	
gamma-BHC	ND	0.0048	EPA 8081B	9-28-22	9-28-22	
beta-BHC	ND	0.0048	EPA 8081B	9-28-22	9-28-22	
delta-BHC	ND	0.0048	EPA 8081B	9-28-22	9-28-22	
Heptachlor	ND	0.0048	EPA 8081B	9-28-22	9-28-22	
Aldrin	ND	0.0019	EPA 8081B	9-28-22	9-28-22	
Heptachlor epoxide	ND	0.0029	EPA 8081B	9-28-22	9-28-22	
gamma-Chlordane	ND	0.0048	EPA 8081B	9-28-22	9-28-22	
alpha-Chlordane	ND	0.0048	EPA 8081B	9-28-22	9-28-22	
4,4'-DDE	ND	0.0048	EPA 8081B	9-28-22	9-28-22	
Endosulfan I	ND	0.0048	EPA 8081B	9-28-22	9-28-22	
Dieldrin	ND	0.0048	EPA 8081B	9-28-22	9-28-22	
Endrin	ND	0.0048	EPA 8081B	9-28-22	9-28-22	
4,4'-DDD	ND	0.0048	EPA 8081B	9-28-22	9-28-22	
Endosulfan II	ND	0.0048	EPA 8081B	9-28-22	9-28-22	
4,4'-DDT	ND	0.0048	EPA 8081B	9-28-22	9-28-22	
Endrin aldehyde	ND	0.0048	EPA 8081B	9-28-22	9-28-22	
Methoxychlor	ND	0.0096	EPA 8081B	9-28-22	9-28-22	
Endosulfan sulfate	ND	0.0048	EPA 8081B	9-28-22	9-28-22	
Endrin ketone	ND	0.019	EPA 8081B	9-28-22	9-28-22	
Toxaphene	ND	0.048	EPA 8081B	9-28-22	9-28-22	
Tech Chlordane	ND	0.048	EPA 8081B	9-28-22	9-28-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control limits</i>				
<i>Tetrachloro-m-xylene</i>	<i>57</i>	<i>21-110</i>				
<i>Decachlorobiphenyl</i>	<i>85</i>	<i>42-113</i>				



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TOTAL METALS
EPA 200.8/200.7/7470A

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-10-220921					
Laboratory ID:	09-199-01					
Arsenic	ND	3.3	EPA 200.8	9-29-22	9-29-22	
Cadmium	ND	4.4	EPA 200.8	9-29-22	9-29-22	
Chromium	ND	11	EPA 200.8	9-29-22	9-29-22	
Copper	ND	11	EPA 200.8	9-29-22	9-29-22	
Iron	6400	50	EPA 200.7	9-29-22	9-30-22	
Lead	ND	1.1	EPA 200.8	9-29-22	9-29-22	
Magnesium	26000	1000	EPA 200.7	9-29-22	9-30-22	
Manganese	1600	10	EPA 200.7	9-29-22	9-30-22	
Mercury	ND	0.025	EPA 7470A	9-28-22	9-28-22	
Nickel	ND	22	EPA 200.8	9-29-22	9-29-22	
Selenium	ND	5.6	EPA 200.8	9-29-22	9-29-22	
Zinc	ND	28	EPA 200.8	9-29-22	9-29-22	



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DISSOLVED METALS
EPA 200.8/200.7/7470A

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-10-220921					
Laboratory ID:	09-199-01					
Arsenic	ND	3.0	EPA 200.8		9-29-22	
Cadmium	ND	4.0	EPA 200.8		9-29-22	
Calcium	91000	5000	EPA 200.7		9-28-22	
Chromium	ND	10	EPA 200.8		9-29-22	
Copper	ND	10	EPA 200.8		9-29-22	
Iron	6000	56	EPA 200.7		9-29-22	
Lead	ND	1.0	EPA 200.8		9-29-22	
Magnesium	28000	1100	EPA 200.7		9-29-22	
Manganese	1600	50	EPA 200.7		9-28-22	
Mercury	ND	0.025	EPA 7470A		9-28-22	
Nickel	ND	20	EPA 200.8		9-29-22	
Potassium	5700	1100	EPA 200.7		9-29-22	
Selenium	ND	5.0	EPA 200.8		9-29-22	
Sodium	12000	5000	EPA 200.7		9-28-22	
Zinc	ND	25	EPA 200.8		9-29-22	



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**TOTAL ALKALINITY
SM 2320B**

Matrix: Water
Units: mg CaCO₃/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-10-220921					
Laboratory ID:	09-199-01					
Total Alkalinity	360	2.0	SM 2320B	9-29-22	9-29-22	



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**BICARBONATE
SM 2320B**

Matrix: Water
Units: mg CaCO₃/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-10-220921					
Laboratory ID:	09-199-01					
Bicarbonate	360	2.0	SM 2320B	9-29-22	9-29-22	



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CHLORIDE
SM 4500-Cl E

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-10-220921					
Laboratory ID:	09-199-01					
Chloride	6.2	2.0	SM 4500-Cl E	9-23-22	9-23-22	



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NITRATE (as Nitrogen)
EPA 353.2

Matrix: Water
Units: mg/L-N

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-10-220921					
Laboratory ID:	09-199-01					
Nitrate	ND	0.050	EPA 353.2	9-22-22	9-22-22	



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SULFATE
ASTM D516-11

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-10-220921					
Laboratory ID:	09-199-01					
Sulfate	7.4	5.0	ASTM D516-11	9-26-22	9-26-22	



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**TOTAL DISSOLVED SOLIDS
 SM 2540C**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-10-220921					
Laboratory ID:	09-199-01					
Total Dissolved Solids	390	13	SM 2540C	9-23-22	9-23-22	



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AMMONIA (as Nitrogen)
SM 4500-NH₃ D

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-10-220921					
Laboratory ID:	09-199-01					
Ammonia	1.0	0.050	SM 4500-NH3 D	10-5-22	10-5-22	



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**TOTAL ORGANIC CARBON
SM 5310B**

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-10-220921					
Laboratory ID:	09-199-01					
Total Organic Carbon	8.4	1.0	SM 5310B	9-29-22	9-29-22	



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**GASOLINE RANGE ORGANICS
 NWTPH-Gx
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0923W1					
Gasoline	ND	100	NWTPH-Gx	9-23-22	9-23-22	
Surrogate:	Percent Recovery		Control Limits			
Fluorobenzene	99	65-122				

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	09-154-01							
	ORIG	DUP						
Gasoline	ND	ND	NA	NA	NA	NA	30	
Surrogate:								
Fluorobenzene				99	99	65-122		



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**DIESEL AND HEAVY OIL RANGE ORGANICS
 NWTPH-Dx
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0927W1					
Diesel Range Organics	ND	0.12	NWTPH-Dx	9-27-22	9-27-22	
Lube Oil Range Organics	ND	0.16	NWTPH-Dx	9-27-22	9-27-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	89	50-150				

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	SB0927W1							
	ORIG	DUP						
Diesel Fuel #2	0.425	0.371	NA	NA	NA	NA	14	NA
<i>Surrogate:</i>								
<i>o-Terphenyl</i>				103	90	50-150		



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**VOLATILE ORGANICS EPA 8260D
 QUALITY CONTROL**

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Matrix: Water

Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0923W1					
Dichlorodifluoromethane	ND	0.30	EPA 8260D	9-23-22	9-23-22	
Chloromethane	ND	1.0	EPA 8260D	9-23-22	9-23-22	
Vinyl Chloride	ND	0.20	EPA 8260D	9-23-22	9-23-22	
Bromomethane	ND	1.3	EPA 8260D	9-23-22	9-23-22	
Chloroethane	ND	1.0	EPA 8260D	9-23-22	9-23-22	
Trichlorofluoromethane	ND	0.20	EPA 8260D	9-23-22	9-23-22	
1,1-Dichloroethene	ND	0.20	EPA 8260D	9-23-22	9-23-22	
Acetone	ND	5.0	EPA 8260D	9-23-22	9-23-22	
Iodomethane	ND	5.0	EPA 8260D	9-23-22	9-23-22	
Carbon Disulfide	ND	0.20	EPA 8260D	9-23-22	9-23-22	
Methylene Chloride	ND	1.0	EPA 8260D	9-23-22	9-23-22	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	9-23-22	9-23-22	
Methyl t-Butyl Ether	ND	0.20	EPA 8260D	9-23-22	9-23-22	
1,1-Dichloroethane	ND	0.20	EPA 8260D	9-23-22	9-23-22	
Vinyl Acetate	ND	1.0	EPA 8260D	9-23-22	9-23-22	
2,2-Dichloropropane	ND	0.20	EPA 8260D	9-23-22	9-23-22	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	9-23-22	9-23-22	
2-Butanone	ND	5.0	EPA 8260D	9-23-22	9-23-22	
Bromochloromethane	ND	0.20	EPA 8260D	9-23-22	9-23-22	
Chloroform	ND	0.20	EPA 8260D	9-23-22	9-23-22	
1,1,1-Trichloroethane	ND	0.20	EPA 8260D	9-23-22	9-23-22	
Carbon Tetrachloride	ND	0.20	EPA 8260D	9-23-22	9-23-22	
1,1-Dichloropropene	ND	0.20	EPA 8260D	9-23-22	9-23-22	
Benzene	ND	0.20	EPA 8260D	9-23-22	9-23-22	
1,2-Dichloroethane	ND	0.20	EPA 8260D	9-23-22	9-23-22	
Trichloroethene	ND	0.20	EPA 8260D	9-23-22	9-23-22	
1,2-Dichloropropane	ND	0.20	EPA 8260D	9-23-22	9-23-22	
Dibromomethane	ND	0.20	EPA 8260D	9-23-22	9-23-22	
Bromodichloromethane	ND	0.20	EPA 8260D	9-23-22	9-23-22	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260D	9-23-22	9-23-22	
Methyl Isobutyl Ketone	ND	2.0	EPA 8260D	9-23-22	9-23-22	
Toluene	ND	1.0	EPA 8260D	9-23-22	9-23-22	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260D	9-23-22	9-23-22	



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**VOLATILE ORGANICS EPA 8260D
 QUALITY CONTROL**

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0923W1					
1,1,2-Trichloroethane	ND	0.20	EPA 8260D	9-23-22	9-23-22	
Tetrachloroethene	ND	0.20	EPA 8260D	9-23-22	9-23-22	
1,3-Dichloropropane	ND	0.20	EPA 8260D	9-23-22	9-23-22	
2-Hexanone	ND	2.0	EPA 8260D	9-23-22	9-23-22	
Dibromochloromethane	ND	0.20	EPA 8260D	9-23-22	9-23-22	
1,2-Dibromoethane	ND	0.20	EPA 8260D	9-23-22	9-23-22	
Chlorobenzene	ND	0.20	EPA 8260D	9-23-22	9-23-22	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260D	9-23-22	9-23-22	
Ethylbenzene	ND	0.20	EPA 8260D	9-23-22	9-23-22	
m,p-Xylene	ND	0.40	EPA 8260D	9-23-22	9-23-22	
o-Xylene	ND	0.20	EPA 8260D	9-23-22	9-23-22	
Styrene	ND	0.20	EPA 8260D	9-23-22	9-23-22	
Bromoform	ND	1.0	EPA 8260D	9-23-22	9-23-22	
Isopropylbenzene	ND	0.20	EPA 8260D	9-23-22	9-23-22	
Bromobenzene	ND	0.20	EPA 8260D	9-23-22	9-23-22	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260D	9-23-22	9-23-22	
1,2,3-Trichloropropane	ND	0.20	EPA 8260D	9-23-22	9-23-22	
n-Propylbenzene	ND	0.20	EPA 8260D	9-23-22	9-23-22	
2-Chlorotoluene	ND	0.20	EPA 8260D	9-23-22	9-23-22	
4-Chlorotoluene	ND	0.20	EPA 8260D	9-23-22	9-23-22	
1,3,5-Trimethylbenzene	ND	0.20	EPA 8260D	9-23-22	9-23-22	
tert-Butylbenzene	ND	0.20	EPA 8260D	9-23-22	9-23-22	
1,2,4-Trimethylbenzene	ND	0.20	EPA 8260D	9-23-22	9-23-22	
sec-Butylbenzene	ND	0.20	EPA 8260D	9-23-22	9-23-22	
1,3-Dichlorobenzene	ND	0.20	EPA 8260D	9-23-22	9-23-22	
p-Isopropyltoluene	ND	0.20	EPA 8260D	9-23-22	9-23-22	
1,4-Dichlorobenzene	ND	0.20	EPA 8260D	9-23-22	9-23-22	
1,2-Dichlorobenzene	ND	0.20	EPA 8260D	9-23-22	9-23-22	
n-Butylbenzene	ND	0.20	EPA 8260D	9-23-22	9-23-22	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260D	9-23-22	9-23-22	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260D	9-23-22	9-23-22	
Hexachlorobutadiene	ND	1.0	EPA 8260D	9-23-22	9-23-22	
Naphthalene	ND	1.0	EPA 8260D	9-23-22	9-23-22	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260D	9-23-22	9-23-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>97</i>	<i>75-127</i>				
<i>Toluene-d8</i>	<i>100</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>100</i>	<i>78-125</i>				



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**VOLATILE ORGANICS EPA 8260D
 QUALITY CONTROL**

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Matrix: Water
 Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
	SB	SBD	SB	SBD	SB	SBD				
SPIKE BLANKS										
Laboratory ID:	SB0923W1									
Dichlorodifluoromethane	6.78	6.39	10.0	10.0	68	64	34-166	6	21	
Chloromethane	9.07	8.76	10.0	10.0	91	88	63-138	3	18	
Vinyl Chloride	9.99	9.55	10.0	10.0	100	96	71-135	5	20	
Bromomethane	7.97	9.12	10.0	10.0	80	91	20-151	13	36	
Chloroethane	10.2	9.56	10.0	10.0	102	96	76-125	6	20	
Trichlorofluoromethane	9.55	9.19	10.0	10.0	96	92	75-131	4	19	
1,1-Dichloroethene	10.4	9.85	10.0	10.0	104	99	78-125	5	19	
Acetone	10.5	9.60	10.0	10.0	105	96	76-125	9	18	
Iodomethane	11.6	10.4	10.0	10.0	116	104	10-155	11	40	
Carbon Disulfide	9.18	8.80	10.0	10.0	92	88	58-129	4	17	
Methylene Chloride	10.3	9.72	10.0	10.0	103	97	80-120	6	15	
(trans) 1,2-Dichloroethene	10.6	10.0	10.0	10.0	106	100	80-125	6	17	
Methyl t-Butyl Ether	10.9	10.3	10.0	10.0	109	103	80-122	6	15	
1,1-Dichloroethane	10.7	10.3	10.0	10.0	107	103	80-125	4	17	
Vinyl Acetate	10.6	10.1	10.0	10.0	106	101	80-131	5	15	
2,2-Dichloropropane	12.7	11.9	10.0	10.0	127	119	80-146	7	21	
(cis) 1,2-Dichloroethene	11.2	10.7	10.0	10.0	112	107	80-129	5	17	
2-Butanone	11.1	10.1	10.0	10.0	111	101	80-129	9	16	
Bromochloromethane	11.5	11.0	10.0	10.0	115	110	80-125	4	18	
Chloroform	10.8	10.5	10.0	10.0	108	105	80-123	3	16	
1,1,1-Trichloroethane	10.5	9.92	10.0	10.0	105	99	80-123	6	18	
Carbon Tetrachloride	10.7	10.3	10.0	10.0	107	103	80-126	4	17	
1,1-Dichloropropene	10.6	10.3	10.0	10.0	106	103	80-126	3	18	
Benzene	10.5	10.0	10.0	10.0	105	100	80-121	5	16	
1,2-Dichloroethane	11.0	10.5	10.0	10.0	110	105	80-124	5	15	
Trichloroethene	11.0	10.7	10.0	10.0	110	107	80-122	3	18	
1,2-Dichloropropane	11.2	10.9	10.0	10.0	112	109	80-123	3	15	
Dibromomethane	11.4	11.2	10.0	10.0	114	112	80-123	2	15	
Bromodichloromethane	11.6	11.2	10.0	10.0	116	112	80-125	4	15	
(cis) 1,3-Dichloropropene	11.9	11.7	10.0	10.0	119	117	80-129	2	15	
Methyl Isobutyl Ketone	11.7	10.7	10.0	10.0	117	107	80-124	9	15	
Toluene	10.7	10.4	10.0	10.0	107	104	80-120	3	18	
(trans) 1,3-Dichloropropene	12.4	12.0	10.0	10.0	124	120	80-134	3	17	



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**VOLATILE ORGANICS EPA 8260D
 QUALITY CONTROL**

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Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
	SB	SBD	SB	SBD	SB	SBD				
SPIKE BLANKS										
Laboratory ID:	SB0923W1									
1,1,2-Trichloroethane	11.7	11.3	10.0	10.0	117	113	77-126	3	20	
Tetrachloroethene	11.2	10.7	10.0	10.0	112	107	80-124	5	18	
1,3-Dichloropropane	11.5	11.0	10.0	10.0	115	110	80-120	4	15	
2-Hexanone	11.4	10.6	10.0	10.0	114	106	80-130	7	16	
Dibromochloromethane	11.7	11.6	10.0	10.0	117	116	80-128	1	15	
1,2-Dibromoethane	12.0	11.8	10.0	10.0	120	118	80-127	2	15	
Chlorobenzene	11.4	11.2	10.0	10.0	114	112	80-120	2	17	
1,1,1,2-Tetrachloroethane	11.6	11.5	10.0	10.0	116	115	80-125	1	17	
Ethylbenzene	11.5	11.2	10.0	10.0	115	112	80-125	3	18	
m,p-Xylene	22.0	21.6	20.0	20.0	110	108	80-127	2	18	
o-Xylene	11.3	11.1	10.0	10.0	113	111	80-126	2	18	
Styrene	12.3	12.1	10.0	10.0	123	121	80-130	2	17	
Bromoform	11.8	11.7	10.0	10.0	118	117	80-130	1	15	
Isopropylbenzene	12.1	11.9	10.0	10.0	121	119	80-129	2	18	
Bromobenzene	11.5	11.1	10.0	10.0	115	111	76-128	4	16	
1,1,2,2-Tetrachloroethane	11.6	11.0	10.0	10.0	116	110	74-130	5	15	
1,2,3-Trichloropropane	11.3	10.9	10.0	10.0	113	109	71-129	4	25	
n-Propylbenzene	11.8	11.3	10.0	10.0	118	113	80-129	4	19	
2-Chlorotoluene	11.5	11.3	10.0	10.0	115	113	80-128	2	18	
4-Chlorotoluene	12.1	11.6	10.0	10.0	121	116	80-130	4	19	
1,3,5-Trimethylbenzene	11.8	11.4	10.0	10.0	118	114	80-131	3	18	
tert-Butylbenzene	11.7	11.3	10.0	10.0	117	113	80-130	3	18	
1,2,4-Trimethylbenzene	11.8	11.3	10.0	10.0	118	113	80-130	4	18	
sec-Butylbenzene	11.9	11.5	10.0	10.0	119	115	80-130	3	18	
1,3-Dichlorobenzene	11.7	11.2	10.0	10.0	117	112	80-126	4	17	
p-Isopropyltoluene	12.0	11.5	10.0	10.0	120	115	80-132	4	18	
1,4-Dichlorobenzene	11.5	11.0	10.0	10.0	115	110	80-121	4	17	
1,2-Dichlorobenzene	11.6	11.1	10.0	10.0	116	111	79-125	4	15	
n-Butylbenzene	12.0	11.8	10.0	10.0	120	118	80-138	2	19	
1,2-Dibromo-3-chloropropane	11.3	11.6	10.0	10.0	113	116	73-133	3	15	
1,2,4-Trichlorobenzene	12.0	11.7	10.0	10.0	120	117	80-139	3	18	
Hexachlorobutadiene	11.1	11.1	10.0	10.0	111	111	80-151	0	18	
Naphthalene	10.5	10.4	10.0	10.0	105	104	68-144	1	25	
1,2,3-Trichlorobenzene	11.8	11.7	10.0	10.0	118	117	75-146	1	28	
<i>Surrogate:</i>										
Dibromofluoromethane					95	94	75-127			
Toluene-d8					99	100	80-127			
4-Bromofluorobenzene					102	102	78-125			



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 Project: 6694-002-00 T700

**PAHs EPA 8270E/SIM
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0927W1					
Naphthalene	ND	0.10	EPA 8270E/SIM	9-27-22	9-27-22	
2-Methylnaphthalene	ND	0.10	EPA 8270E/SIM	9-27-22	9-27-22	
1-Methylnaphthalene	ND	0.10	EPA 8270E/SIM	9-27-22	9-27-22	
Acenaphthylene	ND	0.10	EPA 8270E/SIM	9-27-22	9-27-22	
Acenaphthene	ND	0.10	EPA 8270E/SIM	9-27-22	9-27-22	
Fluorene	ND	0.10	EPA 8270E/SIM	9-27-22	9-27-22	
Phenanthrene	ND	0.10	EPA 8270E/SIM	9-27-22	9-27-22	
Anthracene	ND	0.10	EPA 8270E/SIM	9-27-22	9-27-22	
Fluoranthene	ND	0.10	EPA 8270E/SIM	9-27-22	9-27-22	
Pyrene	ND	0.10	EPA 8270E/SIM	9-27-22	9-27-22	
Benzo[a]anthracene	ND	0.010	EPA 8270E/SIM	9-27-22	9-27-22	
Chrysene	ND	0.010	EPA 8270E/SIM	9-27-22	9-27-22	
Benzo[b]fluoranthene	ND	0.010	EPA 8270E/SIM	9-27-22	9-27-22	
Benzo(j,k)fluoranthene	ND	0.010	EPA 8270E/SIM	9-27-22	9-27-22	
Benzo[a]pyrene	ND	0.010	EPA 8270E/SIM	9-27-22	9-27-22	
Indeno(1,2,3-c,d)pyrene	ND	0.010	EPA 8270E/SIM	9-27-22	9-27-22	
Dibenz[a,h]anthracene	ND	0.010	EPA 8270E/SIM	9-27-22	9-27-22	
Benzo[g,h,i]perylene	ND	0.010	EPA 8270E/SIM	9-27-22	9-27-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
2-Fluorobiphenyl	54	20 - 106				
Pyrene-d10	72	19 - 104				
Terphenyl-d14	86	41 - 127				



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 Project: 6694-002-00 T700

**PAHs EPA 8270E/SIM
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD	RPD Limit	Flags
					SB	SBD	Limits			
SPIKE BLANKS										
Laboratory ID:	SB0927W1									
	SB	SBD	SB	SBD	SB	SBD				
Naphthalene	0.297	0.270	0.500	0.500	59	54	25 - 82	10	39	
Acenaphthylene	0.310	0.299	0.500	0.500	62	60	35 - 107	4	26	
Acenaphthene	0.295	0.286	0.500	0.500	59	57	33 - 99	3	26	
Fluorene	0.330	0.315	0.500	0.500	66	63	43 - 95	5	24	
Phenanthrene	0.334	0.316	0.500	0.500	67	63	49 - 100	6	20	
Anthracene	0.325	0.301	0.500	0.500	65	60	47 - 101	8	21	
Fluoranthene	0.334	0.312	0.500	0.500	67	62	51 - 115	7	23	
Pyrene	0.349	0.329	0.500	0.500	70	66	53 - 117	6	24	
Benzo[a]anthracene	0.395	0.362	0.500	0.500	79	72	57 - 114	9	21	
Chrysene	0.376	0.341	0.500	0.500	75	68	55 - 119	10	21	
Benzo[b]fluoranthene	0.381	0.397	0.500	0.500	76	79	56 - 125	4	26	
Benzo(j,k)fluoranthene	0.446	0.375	0.500	0.500	89	75	53 - 124	17	22	
Benzo[a]pyrene	0.367	0.338	0.500	0.500	73	68	54 - 119	8	22	
Indeno(1,2,3-c,d)pyrene	0.438	0.404	0.500	0.500	88	81	55 - 118	8	23	
Dibenz[a,h]anthracene	0.389	0.355	0.500	0.500	78	71	56 - 118	9	23	
Benzo[g,h,i]perylene	0.345	0.312	0.500	0.500	69	62	55 - 117	10	22	
<i>Surrogate:</i>										
2-Fluorobiphenyl					51	47	20 - 106			
Pyrene-d10					67	62	19 - 104			
Terphenyl-d14					81	74	41 - 127			



Date of Report: October 4, 2022
 Samples Submitted: September 22, 2022
 Laboratory Reference: 2209-199
 Project: 6694-002-00 T700

**ORGANOCHLORINE
 PESTICIDES EPA 8081B
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0928W1					
alpha-BHC	ND	0.0050	EPA 8081B	9-28-22	9-28-22	
gamma-BHC	ND	0.0050	EPA 8081B	9-28-22	9-28-22	
beta-BHC	ND	0.0050	EPA 8081B	9-28-22	9-28-22	
delta-BHC	ND	0.0050	EPA 8081B	9-28-22	9-28-22	
Heptachlor	ND	0.0050	EPA 8081B	9-28-22	9-28-22	
Aldrin	ND	0.0020	EPA 8081B	9-28-22	9-28-22	
Heptachlor epoxide	ND	0.0030	EPA 8081B	9-28-22	9-28-22	
gamma-Chlordane	ND	0.0050	EPA 8081B	9-28-22	9-28-22	
alpha-Chlordane	ND	0.0050	EPA 8081B	9-28-22	9-28-22	
4,4'-DDE	ND	0.0050	EPA 8081B	9-28-22	9-28-22	
Endosulfan I	ND	0.0050	EPA 8081B	9-28-22	9-28-22	
Dieldrin	ND	0.0050	EPA 8081B	9-28-22	9-28-22	
Endrin	ND	0.0050	EPA 8081B	9-28-22	9-28-22	
4,4'-DDD	ND	0.0050	EPA 8081B	9-28-22	9-28-22	
Endosulfan II	ND	0.0050	EPA 8081B	9-28-22	9-28-22	
4,4'-DDT	ND	0.0050	EPA 8081B	9-28-22	9-28-22	
Endrin aldehyde	ND	0.0050	EPA 8081B	9-28-22	9-28-22	
Methoxychlor	ND	0.010	EPA 8081B	9-28-22	9-28-22	
Endosulfan sulfate	ND	0.0050	EPA 8081B	9-28-22	9-28-22	
Endrin ketone	ND	0.020	EPA 8081B	9-28-22	9-28-22	
Toxaphene	ND	0.050	EPA 8081B	9-28-22	9-28-22	
Tech Chlordane	ND	0.050	EPA 8081B	9-28-22	9-28-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control limits</i>				
<i>Tetrachloro-m-xylene</i>	<i>70</i>	<i>21-110</i>				
<i>Decachlorobiphenyl</i>	<i>102</i>	<i>42-113</i>				



Date of Report: October 4, 2022
 Samples Submitted: September 22, 2022
 Laboratory Reference: 2209-199
 Project: 6694-002-00 T700

**ORGANOCHLORINE
 PESTICIDES EPA 8081B
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result		Spike Level		Source	Percent		Recovery	RPD	RPD	Flags
	SB	SBD	SB	SBD	Result	Recovery	Limits	Limit			
SPIKE BLANKS											
Laboratory ID:	SB0928W1										
	SB	SBD	SB	SBD		SB	SBD				
alpha-BHC	0.0891	0.0972	0.100	0.100	N/A	89	97	50-113	9	19	
gamma-BHC	0.0913	0.0971	0.100	0.100	N/A	91	97	50-114	6	15	
beta-BHC	0.0861	0.0913	0.100	0.100	N/A	86	91	45-110	6	15	
delta-BHC	0.117	0.126	0.100	0.100	N/A	117	126	40-113	7	15	I
Heptachlor	0.0831	0.0938	0.100	0.100	N/A	83	94	41-107	12	16	
Aldrin	0.0773	0.0864	0.100	0.100	N/A	77	86	39-105	11	15	
Heptachlor epoxide	0.0843	0.0903	0.100	0.100	N/A	84	90	53-106	7	15	
gamma-Chlordane	0.0848	0.0917	0.100	0.100	N/A	85	92	46-110	8	15	
alpha-Chlordane	0.0833	0.0897	0.100	0.100	N/A	83	90	46-110	7	15	
4,4'-DDE	0.0969	0.105	0.100	0.100	N/A	97	105	39-129	8	15	
Endosulfan I	0.0849	0.0915	0.100	0.100	N/A	85	92	51-109	7	15	
Dieldrin	0.0901	0.0978	0.100	0.100	N/A	90	98	55-112	8	15	
Endrin	0.100	0.110	0.100	0.100	N/A	100	110	54-119	10	16	
4,4'-DDD	0.104	0.115	0.100	0.100	N/A	104	115	52-142	10	15	
Endosulfan II	0.0954	0.104	0.100	0.100	N/A	95	104	49-115	9	15	
4,4'-DDT	0.111	0.120	0.100	0.100	N/A	111	120	52-136	8	15	
Endrin aldehyde	0.0856	0.0945	0.100	0.100	N/A	86	95	39-128	10	15	
Methoxychlor	0.115	0.128	0.100	0.100	N/A	115	128	56-156	11	19	
Endosulfan sulfate	0.118	0.129	0.100	0.100	N/A	118	129	44-120	9	15	I
Endrin ketone	0.110	0.123	0.100	0.100	N/A	110	123	45-122	11	15	I
<i>Surrogate:</i>											
<i>Tetrachloro-m-xylene</i>						65	73	21-110			
<i>Decachlorobiphenyl</i>						97	104	42-113			



Date of Report: October 4, 2022
 Samples Submitted: September 22, 2022
 Laboratory Reference: 2209-199
 Project: 6694-002-00 T700

TOTAL METALS
EPA 200.8/200.7/7470A
QUALITY CONTROL

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0929WH2					
Iron	ND	50	EPA 200.7	9-29-22	9-30-22	
Magnesium	ND	1000	EPA 200.7	9-29-22	9-30-22	
Manganese	ND	10	EPA 200.7	9-29-22	9-30-22	
Laboratory ID:	MB0929WM1					
Arsenic	ND	3.3	EPA 200.8	9-29-22	9-29-22	
Cadmium	ND	4.4	EPA 200.8	9-29-22	9-29-22	
Chromium	ND	11	EPA 200.8	9-29-22	9-29-22	
Copper	ND	11	EPA 200.8	9-29-22	9-29-22	
Lead	ND	1.1	EPA 200.8	9-29-22	9-29-22	
Nickel	ND	22	EPA 200.8	9-29-22	9-29-22	
Selenium	ND	5.6	EPA 200.8	9-29-22	9-29-22	
Zinc	ND	28	EPA 200.8	9-29-22	9-29-22	
Laboratory ID:	MB0928W1					
Mercury	ND	0.025	EPA 7470A	9-28-22	9-28-22	



Date of Report: October 4, 2022
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 Project: 6694-002-00 T700

TOTAL METALS
EPA 200.8/200.7/7470A
QUALITY CONTROL

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result		Spike Level		Source	Percent	Recovery	RPD		Flags
					Result	Recovery	Limits	RPD	Limit	
DUPLICATE										
Laboratory ID: 09-159-07										
	ORIG	DUP								
Iron	ND	ND	NA	NA		NA	NA	NA	20	
Magnesium	16200	16800	NA	NA		NA	NA	4	20	
Manganese	31.0	30.3	NA	NA		NA	NA	2	20	
Laboratory ID: 09-267-10										
Arsenic	ND	ND	NA	NA		NA	NA	NA	20	
Cadmium	ND	ND	NA	NA		NA	NA	NA	20	
Chromium	ND	ND	NA	NA		NA	NA	NA	20	
Copper	ND	ND	NA	NA		NA	NA	NA	20	
Lead	ND	ND	NA	NA		NA	NA	NA	20	
Nickel	ND	ND	NA	NA		NA	NA	NA	20	
Selenium	ND	ND	NA	NA		NA	NA	NA	20	
Zinc	ND	ND	NA	NA		NA	NA	NA	20	
Laboratory ID: 09-199-01										
Mercury	ND	ND	NA	NA		NA	NA	NA	20	
MATRIX SPIKES										
Laboratory ID: 09-159-07										
	MS	MSD	MS	MSD		MS	MSD			
Iron	22800	22600	20000	20000	ND	114	113	75-125	1	20
Magnesium	36800	35800	20000	20000	16200	103	98	75-125	3	20
Manganese	540	537	500	500	31.0	102	101	75-125	1	20
Laboratory ID: 09-267-10										
Arsenic	101	101	111	111	ND	91	91	75-125	0	20
Cadmium	94.7	96.0	111	111	ND	85	87	75-125	1	20
Chromium	91.8	93.8	111	111	ND	83	85	75-125	2	20
Copper	88.7	90.4	111	111	ND	80	82	75-125	2	20
Lead	96.7	97.3	111	111	ND	87	88	75-125	1	20
Nickel	88.9	89.8	111	111	ND	80	81	75-125	1	20
Selenium	101	106	111	111	ND	91	96	75-125	5	20
Zinc	98.2	97.1	111	111	ND	89	88	75-125	1	20
Laboratory ID: 09-199-01										
Mercury	6.00	5.95	12.5	12.5	ND	48	48	75-125	1	20



Date of Report: October 4, 2022
 Samples Submitted: September 22, 2022
 Laboratory Reference: 2209-199
 Project: 6694-002-00 T700

**DISSOLVED METALS
 EPA 200.8/200.7/7470A
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0928D1					
Calcium	ND	1100	EPA 200.7		9-28-22	
Manganese	ND	11	EPA 200.7		9-28-22	
Sodium	ND	1100	EPA 200.7		9-28-22	
Laboratory ID:	MB0929D1					
Arsenic	ND	3.0	EPA 200.8		9-29-22	
Cadmium	ND	4.0	EPA 200.8		9-29-22	
Chromium	ND	10	EPA 200.8		9-29-22	
Copper	ND	10	EPA 200.8		9-29-22	
Lead	ND	1.0	EPA 200.8		9-29-22	
Nickel	ND	20	EPA 200.8		9-29-22	
Selenium	ND	5.0	EPA 200.8		9-29-22	
Zinc	ND	25	EPA 200.8		9-29-22	
Laboratory ID:	MB0928D1					
Mercury	ND	0.025	EPA 7470A		9-28-22	
Laboratory ID:	MB0929D1					
Iron	ND	56	EPA 200.7		9-28-22	
Magnesium	ND	1100	EPA 200.7		9-28-22	
Potassium	ND	1100	EPA 200.7		9-29-22	



Date of Report: October 4, 2022
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 Laboratory Reference: 2209-199
 Project: 6694-002-00 T700

DISSOLVED METALS
EPA 200.8/200.7/7470A
QUALITY CONTROL

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result		Spike Level		Source	Percent	Recovery	RPD		Flags
					Result	Recovery	Limits	RPD	Limit	
DUPLICATE										
Laboratory ID:	09-191-01									
	ORIG	DUP								
Iron	ND	ND	NA	NA		NA	NA	NA	20	
Magnesium	14300	14300	NA	NA		NA	NA	0	20	
Potassium	2220	2220	NA	NA		NA	NA	0	20	
Laboratory ID:	09-261-02									
	ORIG	DUP								
Calcium	16000	17200	NA	NA		NA	NA	7	20	
Manganese	93.6	100	NA	NA		NA	NA	7	20	
Sodium	12400	13300	NA	NA		NA	NA	7	20	
Laboratory ID:	09-294-01									
Arsenic	ND	ND	NA	NA		NA	NA	NA	20	
Cadmium	ND	ND	NA	NA		NA	NA	NA	20	
Chromium	ND	ND	NA	NA		NA	NA	NA	20	
Copper	ND	ND	NA	NA		NA	NA	NA	20	
Lead	ND	ND	NA	NA		NA	NA	NA	20	
Nickel	ND	ND	NA	NA		NA	NA	NA	20	
Selenium	ND	ND	NA	NA		NA	NA	NA	20	
Zinc	ND	ND	NA	NA		NA	NA	NA	20	
Laboratory ID:	09-199-01									
Mercury	ND	ND	NA	NA		NA	NA	NA	20	



Date of Report: October 4, 2022
 Samples Submitted: September 22, 2022
 Laboratory Reference: 2209-199
 Project: 6694-002-00 T700

**DISSOLVED METALS
 EPA 200.8/200.7/7470A
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result		Spike Level		Source	Percent	Recovery	RPD		
					Result	Recovery	Limits	RPD	Limit	Flags
MATRIX SPIKES										
Laboratory ID:	09-191-01									
	MS	MSD	MS	MSD		MS	MSD			
Iron	24900	24800	22200	22200	ND	112	112	75-125	0	20
Magnesium	38900	38900	22200	22200	14300	111	111	75-125	0	20
Potassium	27200	27000	22200	22200	2220	113	112	75-125	1	20
Laboratory ID:	09-261-02									
	MS	MSD	MS	MSD		MS	MSD			
Calcium	34900	41600	22200	22200	16000	85	116	75-125	18	20
Manganese	697	611	556	556	93.6	109	93	75-125	13	20
Sodium	31400	37700	22200	22200	12400	86	114	75-125	18	20
Laboratory ID:	09-294-01									
Arsenic	76.6	75.8	80.0	80.0	ND	96	95	75-125	1	20
Cadmium	75.0	75.4	80.0	80.0	ND	94	94	75-125	1	20
Chromium	73.4	72.6	80.0	80.0	ND	92	91	75-125	1	20
Copper	73.0	72.0	80.0	80.0	ND	91	90	75-125	1	20
Lead	75.6	74.8	80.0	80.0	ND	95	94	75-125	1	20
Nickel	72.4	72.6	80.0	80.0	ND	91	91	75-125	0	20
Selenium	76.6	78.6	80.0	80.0	ND	96	98	75-125	3	20
Zinc	76.0	78.8	80.0	80.0	ND	95	99	75-125	4	20
Laboratory ID:	09-199-01									
Mercury	5.95	6.03	6.25	6.25	ND	95	96	75-125	1	20



Date of Report: October 4, 2022
 Samples Submitted: September 22, 2022
 Laboratory Reference: 2209-199
 Project: 6694-002-00 T700

**TOTAL ALKALINITY
 SM 2320B
 QUALITY CONTROL**

Matrix: Water
 Units: mg CaCO₃/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0929W1					
Total Alkalinity	ND	2.0	SM 2320B	9-29-22	9-29-22	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	09-190-01							
	ORIG	DUP						
Total Alkalinity	392	392	NA	NA	NA	0	10	

SPIKE BLANK								
Laboratory ID:	SB0929W1							
	SB	SB		SB				
Total Alkalinity	94.0	100	NA	94	89-110	NA	NA	



Date of Report: October 4, 2022
 Samples Submitted: September 22, 2022
 Laboratory Reference: 2209-199
 Project: 6694-002-00 T700

**BICARBONATE
 SM 2320B
 QUALITY CONTROL**

Matrix: Water
 Units: mg CaCO₃/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0929W1					
Bicarbonate	ND	2.0	SM 2320B	9-29-22	9-29-22	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	09-190-01							
	ORIG	DUP						
Bicarbonate	392	392	NA	NA	NA	0	10	

SPIKE BLANK								
Laboratory ID:	SB0929W1							
	SB	SB		SB				
Bicarbonate	94.0	100	NA	94	89-110	NA	NA	



Date of Report: October 4, 2022
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 Laboratory Reference: 2209-199
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**CHLORIDE
 SM 4500-Cl E
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0923W1					
Chloride	ND	2.0	SM 4500-Cl E	9-23-22	9-23-22	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	09-198-01							
	ORIG	DUP						
Chloride	5.20	5.75	NA	NA	NA	10	11	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
MATRIX SPIKE								
Laboratory ID:	09-198-01							
	MS	MS		MS				
Chloride	54.5	50.0	5.20	99	90-121	NA	NA	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANK								
Laboratory ID:	SB0923W1							
	SB	SB		SB				
Chloride	50.7	50.0	NA	101	90-119	NA	NA	



Date of Report: October 4, 2022
 Samples Submitted: September 22, 2022
 Laboratory Reference: 2209-199
 Project: 6694-002-00 T700

**NITRATE (as Nitrogen)
 EPA 353.2
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L-N

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0922W2					
Nitrate	ND	0.050	EPA 353.2	9-22-22	9-22-22	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	09-060-01							
	ORIG	DUP						
Nitrate	0.149	0.146	NA	NA	NA	2	10	

MATRIX SPIKE								
Laboratory ID:	09-060-01							
	MS	MS		MS				
Nitrate	1.97	2.00	0.149	91	88-125	NA	NA	

SPIKE BLANK								
Laboratory ID:	SB0922W2							
	SB	SB		SB				
Nitrate	2.01	2.00	NA	101	90-120	NA	NA	



Date of Report: October 4, 2022
 Samples Submitted: September 22, 2022
 Laboratory Reference: 2209-199
 Project: 6694-002-00 T700

**SULFATE
 ASTM D516-11
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0926W1					
Sulfate	ND	5.0	ASTM D516-11	9-26-22	9-26-22	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	09-203-01							
	ORIG	DUP						
Sulfate	15.9	16.0	NA	NA	NA	1	10	

MATRIX SPIKE								
Laboratory ID:	09-203-01							
	MS	MS		MS				
Sulfate	24.2	10.0	15.9	83	72-128	NA	NA	

SPIKE BLANK								
Laboratory ID:	SB0926W1							
	SB	SB		SB				
Sulfate	9.73	10.0	NA	97	85-114	NA	NA	



Date of Report: October 4, 2022
 Samples Submitted: September 22, 2022
 Laboratory Reference: 2209-199
 Project: 6694-002-00 T700

**TOTAL DISSOLVED SOLIDS
 SM 2540C
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0923W1					
Total Dissolved Solids	ND	13	SM 2540C	9-23-22	9-23-22	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	09-189-01							
	ORIG	DUP						
Total Dissolved Solids	175	175	NA	NA	NA	0	23	

SPIKE BLANK								
Laboratory ID:	SB0923W1							
	SB	SB		SB				
Total Dissolved Solids	528	500	NA	106	89-120	NA	NA	



Date of Report: October 4, 2022
 Samples Submitted: September 22, 2022
 Laboratory Reference: 2209-199
 Project: 6694-002-00 T700

**AMMONIA (as Nitrogen)
 SM 4500-NH₃ D
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1005W1					
Ammonia	ND	0.050	SM 4500-NH3 D	10-5-22	10-5-22	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	09-253-01							
	ORIG	DUP						
Ammonia	ND	ND	NA	NA	NA	NA	15	

MATRIX SPIKE								
Laboratory ID:	09-253-01							
	MS	MS		MS				
Ammonia	4.92	5.00	ND	98	87-110	NA	NA	

SPIKE BLANK								
Laboratory ID:	SB1005W1							
	SB	SB		SB				
Ammonia	4.98	5.00	NA	100	88-110	NA	NA	



Date of Report: October 4, 2022
 Samples Submitted: September 22, 2022
 Laboratory Reference: 2209-199
 Project: 6694-002-00 T700

**TOTAL ORGANIC CARBON
 SM 5310B
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0929W1					
Total Organic Carbon	ND	1.0	SM 5310B	9-29-22	9-29-22	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	09-165-01							
	ORIG	DUP						
Total Organic Carbon	5.31	5.31	NA	NA	NA	0	12	

MATRIX SPIKE								
Laboratory ID:	09-165-01							
	MS	MS		MS				
Total Organic Carbon	15.5	10.0	5.31	102	80-120	NA	NA	

SPIKE BLANK								
Laboratory ID:	SB0929W1							
	SB	SB		SB				
Total Organic Carbon	10.5	10.0	NA	105	80-118	NA	NA	





Data Qualifiers and Abbreviations

- A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.
 - B - The analyte indicated was also found in the blank sample.
 - C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.
 - E - The value reported exceeds the quantitation range and is an estimate.
 - F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.
 - H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.
 - I - Compound recovery is outside of the control limits.
 - J - The value reported was below the practical quantitation limit. The value is an estimate.
 - K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.
 - L - The RPD is outside of the control limits.
 - M - Hydrocarbons in the gasoline range are impacting the diesel range result.
 - M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.
 - N - Hydrocarbons in the lube oil range are impacting the diesel range result.
 - N1 - Hydrocarbons in diesel range are impacting lube oil range results.
 - O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.
 - P - The RPD of the detected concentrations between the two columns is greater than 40.
 - Q - Surrogate recovery is outside of the control limits.
 - S - Surrogate recovery data is not available due to the necessary dilution of the sample.
 - T - The sample chromatogram is not similar to a typical _____.
 - U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
 - U1 - The practical quantitation limit is elevated due to interferences present in the sample.
 - V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.
 - W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.
 - X - Sample extract treated with a mercury cleanup procedure.
 - X1 - Sample extract treated with a sulfuric acid/silica gel cleanup procedure.
 - Y - The calibration verification for this analyte exceeded the 20% drift specified in methods 8260 & 8270, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.
 - Z -
- ND - Not Detected at PQL
 PQL - Practical Quantitation Limit
 RPD - Relative Percent Difference



Chain of Custody

Company: **GEI**

Project Number: **6694-002-05**

Project Name: **Go East**

Project Manager: **Garrett League**

Sampled by: **JDE**

Turnaround Request (in working days)

(Check One)

Same Day 1 Day

2 Days 3 Days

Standard (7 Days)

TPH, 5 days
(other)

Laboratory Number: 09-199

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers
1	MW-10-220921	9/21/22	1330	GW	18

NWTPH-HCID	NWTPH-Gx/BTEX (8021 8260)	NWTPH-Gx	NWTPH-Dx (Acid / SG Clean-up)	Volatiles 8260	Halogenated Volatiles 8260	EDB EPA 8011 (Waters Only)	Semivolatiles 8270/SIM (with low-level PAHs)	PAHs 8270/SIM (low-level)	PCBs 8082	Organochlorine Pesticides 8081	Organophosphorus Pesticides 8270/SIM	Chlorinated Acid Herbicides 8151	Total RCRA Metals	Total Metals dissolved	TCLP Metals	HEM (oil and grease) 1664	% Moisture
		X	X	X			X	X		X			X				

Signature	Company	Date	Time	Comments/Special Instructions
[Signature]	GEI	9/21/22	1500	Total metals: As, Cd, Cr, Cu, Fe, Pb, Mg, Mn, Hg, Ni, Se, Zn
[Signature]	Alpha	9/22/22	9:15	
[Signature]	Alpha	9/22/22	9:59	Dissolved metals: As, Cd, Cr, Cu, Fe, Pb, Mg, Mn, Hg, Ni, Se, Zn, Ca, K, Na
[Signature]	JDE	9/20/22	0959	
				Data Package: Standard <input type="checkbox"/> Level III <input type="checkbox"/> Level IV <input type="checkbox"/>
				Chromatograms with final report <input type="checkbox"/> Electronic Data Deliverables (EDDs) <input type="checkbox"/>



14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

October 6, 2022

Garrett Leque
GeoEngineers, Inc.
554 West Bakerview Road
Bellingham, WA 98226

Re: Analytical Data for Project 6694-002-05 T700
Laboratory Reference No. 2209-200

Dear Garrett:

Enclosed are the analytical results and associated quality control data for samples submitted on September 22, 2022.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

A handwritten signature in black ink, appearing to read "DB", with a long horizontal stroke extending to the right.

David Baumeister
Project Manager

Enclosures



Date of Report: October 6, 2022
Samples Submitted: September 22, 2022
Laboratory Reference: 2209-200
Project: 6694-002-00 T700

Case Narrative

Samples were collected on September 21, 2022 and received by the laboratory on September 22, 2022. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

DRAFT



Date of Report: October 6, 2022
Samples Submitted: September 22, 2022
Laboratory Reference: 2209-200
Project: 6694-002-00 T700

ANALYTICAL REPORT FOR SAMPLES

Client ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
MW-9-220921	09-200-01	Water	9-21-22	9-22-22	

DRAFT



Date of Report: October 6, 2022
 Samples Submitted: September 22, 2022
 Laboratory Reference: 2209-200
 Project: 6694-002-00 T700

GASOLINE RANGE ORGANICS
NWTPH-Gx

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-9-220921					
Laboratory ID:	09-200-01					
Gasoline	ND	100	NWTPH-Gx	9-23-22	9-23-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
Fluorobenzene	94	65-122				



Date of Report: October 6, 2022
 Samples Submitted: September 22, 2022
 Laboratory Reference: 2209-200
 Project: 6694-002-00 T700

**DIESEL AND HEAVY OIL RANGE ORGANICS
 NWTPH-Dx**

Matrix: Water
 Units: mg/L (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-9-220921					
Laboratory ID:	09-200-01					
Diesel Range Organics	ND	0.13	NWTPH-Dx	9-27-22	9-28-22	
Lube Oil Range Organics	0.26	0.20	NWTPH-Dx	9-27-22	9-28-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	82	50-150				



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PAHS EPA 8270E/SIM

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-9-220921					
Laboratory ID:	09-200-01					
Naphthalene	ND	0.095	EPA 8270E/SIM	9-27-22	9-27-22	
2-Methylnaphthalene	ND	0.095	EPA 8270E/SIM	9-27-22	9-27-22	
1-Methylnaphthalene	ND	0.095	EPA 8270E/SIM	9-27-22	9-27-22	
Acenaphthylene	ND	0.095	EPA 8270E/SIM	9-27-22	9-27-22	
Acenaphthene	0.25	0.095	EPA 8270E/SIM	9-27-22	9-27-22	
Fluorene	ND	0.095	EPA 8270E/SIM	9-27-22	9-27-22	
Phenanthrene	ND	0.095	EPA 8270E/SIM	9-27-22	9-27-22	
Anthracene	ND	0.095	EPA 8270E/SIM	9-27-22	9-27-22	
Fluoranthene	ND	0.095	EPA 8270E/SIM	9-27-22	9-27-22	
Pyrene	ND	0.095	EPA 8270E/SIM	9-27-22	9-27-22	
Benzo[a]anthracene	ND	0.0095	EPA 8270E/SIM	9-27-22	9-27-22	
Chrysene	ND	0.0095	EPA 8270E/SIM	9-27-22	9-27-22	
Benzo[b]fluoranthene	ND	0.0095	EPA 8270E/SIM	9-27-22	9-27-22	
Benzo(j,k)fluoranthene	ND	0.0095	EPA 8270E/SIM	9-27-22	9-27-22	
Benzo[a]pyrene	ND	0.0095	EPA 8270E/SIM	9-27-22	9-27-22	
Indeno(1,2,3-c,d)pyrene	ND	0.0095	EPA 8270E/SIM	9-27-22	9-27-22	
Dibenz[a,h]anthracene	ND	0.0095	EPA 8270E/SIM	9-27-22	9-27-22	
Benzo[g,h,i]perylene	ND	0.0095	EPA 8270E/SIM	9-27-22	9-27-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
2-Fluorobiphenyl	41	20 - 106				
Pyrene-d10	59	19 - 104				
Terphenyl-d14	74	41 - 127				



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**ORGANOCHLORINE
 PESTICIDES EPA 8081B**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-9-220921					
Laboratory ID:	09-200-01					
alpha-BHC	ND	0.0048	EPA 8081B	9-28-22	9-28-22	
gamma-BHC	ND	0.0048	EPA 8081B	9-28-22	9-28-22	
beta-BHC	ND	0.0048	EPA 8081B	9-28-22	9-28-22	
delta-BHC	ND	0.0048	EPA 8081B	9-28-22	9-28-22	
Heptachlor	ND	0.0048	EPA 8081B	9-28-22	9-28-22	
Aldrin	ND	0.0019	EPA 8081B	9-28-22	9-28-22	
Heptachlor epoxide	ND	0.0029	EPA 8081B	9-28-22	9-28-22	
gamma-Chlordane	ND	0.0048	EPA 8081B	9-28-22	9-28-22	
alpha-Chlordane	ND	0.0048	EPA 8081B	9-28-22	9-28-22	
4,4'-DDE	ND	0.0048	EPA 8081B	9-28-22	9-28-22	
Endosulfan I	ND	0.0048	EPA 8081B	9-28-22	9-28-22	
Dieldrin	ND	0.0048	EPA 8081B	9-28-22	9-28-22	
Endrin	ND	0.0048	EPA 8081B	9-28-22	9-28-22	
4,4'-DDD	ND	0.0048	EPA 8081B	9-28-22	9-28-22	
Endosulfan II	ND	0.0048	EPA 8081B	9-28-22	9-28-22	
4,4'-DDT	ND	0.0048	EPA 8081B	9-28-22	9-28-22	
Endrin aldehyde	ND	0.0048	EPA 8081B	9-28-22	9-28-22	
Methoxychlor	ND	0.0095	EPA 8081B	9-28-22	9-28-22	
Endosulfan sulfate	ND	0.0048	EPA 8081B	9-28-22	9-28-22	
Endrin ketone	ND	0.019	EPA 8081B	9-28-22	9-28-22	
Toxaphene	ND	0.048	EPA 8081B	9-28-22	9-28-22	
Tech Chlordane	ND	0.048	EPA 8081B	9-28-22	9-28-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control limits</i>				
<i>Tetrachloro-m-xylene</i>	48	21-110				
<i>Decachlorobiphenyl</i>	87	42-113				



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TOTAL METALS
EPA 200.8/200.7/7470A

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-9-220921					
Laboratory ID:	09-200-01					
Arsenic	ND	3.3	EPA 200.8	9-29-22	9-29-22	
Cadmium	ND	4.4	EPA 200.8	9-29-22	9-29-22	
Chromium	ND	11	EPA 200.8	9-29-22	9-29-22	
Copper	ND	11	EPA 200.8	9-29-22	9-29-22	
Iron	2400	50	EPA 200.7	9-29-22	9-30-22	
Lead	ND	1.1	EPA 200.8	9-29-22	9-29-22	
Magnesium	27000	1000	EPA 200.7	9-29-22	9-30-22	
Manganese	1400	10	EPA 200.7	9-29-22	9-30-22	
Mercury	ND	0.025	EPA 7470A	9-28-22	9-28-22	
Nickel	ND	22	EPA 200.8	9-29-22	9-29-22	
Selenium	ND	5.6	EPA 200.8	9-29-22	9-29-22	
Zinc	ND	28	EPA 200.8	9-29-22	9-29-22	



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DISSOLVED METALS
EPA 200.8/200.7/7470A

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-9-220921					
Laboratory ID:	09-200-01					
Arsenic	ND	3.0	EPA 200.8		9-29-22	
Cadmium	ND	4.0	EPA 200.8		9-29-22	
Calcium	94000	5000	EPA 200.7		9-28-22	
Chromium	ND	10	EPA 200.8		9-29-22	
Copper	ND	10	EPA 200.8		9-29-22	
Iron	1900	56	EPA 200.7		9-29-22	
Lead	ND	1.0	EPA 200.8		9-29-22	
Magnesium	28000	1100	EPA 200.7		9-29-22	
Manganese	1300	50	EPA 200.7		9-28-22	
Mercury	ND	0.025	EPA 7470A		9-28-22	
Nickel	ND	20	EPA 200.8		9-29-22	
Potassium	5800	1100	EPA 200.7		9-29-22	
Selenium	ND	5.0	EPA 200.8		9-29-22	
Sodium	13000	5000	EPA 200.7		9-28-22	
Zinc	ND	25	EPA 200.8		9-29-22	



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**TOTAL ALKALINITY
 SM 2320B**

Matrix: Water
 Units: mg CaCO₃/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-9-220921					
Laboratory ID:	09-200-01					
Total Alkalinity	370	2.0	SM 2320B	9-29-22	9-29-22	



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**BICARBONATE
SM 2320B**

Matrix: Water
Units: mg CaCO₃/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-9-220921					
Laboratory ID:	09-200-01					
Bicarbonate	370	2.0	SM 2320B	9-29-22	9-29-22	



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CHLORIDE
SM 4500-Cl E

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-9-220921					
Laboratory ID:	09-200-01					
Chloride	6.2	2.0	SM 4500-Cl E	9-23-22	9-23-22	



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NITRATE (as Nitrogen)
EPA 353.2

Matrix: Water
Units: mg/L-N

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-9-220921					
Laboratory ID:	09-200-01					
Nitrate	0.10	0.050	EPA 353.2	9-22-22	9-22-22	



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SULFATE
ASTM D516-11

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-9-220921					
Laboratory ID:	09-200-01					
Sulfate	5.7	5.0	ASTM D516-11	9-26-22	9-26-22	



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**TOTAL DISSOLVED SOLIDS
 SM 2540C**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-9-220921					
Laboratory ID:	09-200-01					
Total Dissolved Solids	430	13	SM 2540C	9-23-22	9-23-22	



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AMMONIA (as Nitrogen)
SM 4500-NH₃ D

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-9-220921					
Laboratory ID:	09-200-01					
Ammonia	1.1	0.050	SM 4500-NH3 D	10-5-22	10-5-22	



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**TOTAL ORGANIC CARBON
SM 5310B**

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-9-220921					
Laboratory ID:	09-200-01					
Total Organic Carbon	7.4	1.0	SM 5310B	9-29-22	9-29-22	



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**GASOLINE RANGE ORGANICS
 NWTPH-Gx
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0923W1					
Gasoline	ND	100	NWTPH-Gx	9-23-22	9-23-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
Fluorobenzene	99	65-122				

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	09-154-01							
	ORIG	DUP						
Gasoline	ND	ND	NA	NA	NA	NA	30	
<i>Surrogate:</i>								
Fluorobenzene				99	99	65-122		



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**DIESEL AND HEAVY OIL RANGE ORGANICS
 NWTPH-Dx
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0927W1					
Diesel Range Organics	ND	0.10	NWTPH-Dx	9-27-22	9-27-22	
Lube Oil Range Organics	ND	0.16	NWTPH-Dx	9-27-22	9-27-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	89	50-150				

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	SB0927W1							
	ORIG	DUP						
Diesel Fuel #2	0.425	0.371	NA	NA	NA	NA	14	NA
<i>Surrogate:</i>								
<i>o-Terphenyl</i>				103	90	50-150		



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**PAHS EPA 8270E/SIM
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0927W1					
Naphthalene	ND	0.10	EPA 8270E/SIM	9-27-22	9-27-22	
2-Methylnaphthalene	ND	0.10	EPA 8270E/SIM	9-27-22	9-27-22	
1-Methylnaphthalene	ND	0.10	EPA 8270E/SIM	9-27-22	9-27-22	
Acenaphthylene	ND	0.10	EPA 8270E/SIM	9-27-22	9-27-22	
Acenaphthene	ND	0.10	EPA 8270E/SIM	9-27-22	9-27-22	
Fluorene	ND	0.10	EPA 8270E/SIM	9-27-22	9-27-22	
Phenanthrene	ND	0.10	EPA 8270E/SIM	9-27-22	9-27-22	
Anthracene	ND	0.10	EPA 8270E/SIM	9-27-22	9-27-22	
Fluoranthene	ND	0.10	EPA 8270E/SIM	9-27-22	9-27-22	
Pyrene	ND	0.10	EPA 8270E/SIM	9-27-22	9-27-22	
Benzo[a]anthracene	ND	0.010	EPA 8270E/SIM	9-27-22	9-27-22	
Chrysene	ND	0.010	EPA 8270E/SIM	9-27-22	9-27-22	
Benzo[b]fluoranthene	ND	0.010	EPA 8270E/SIM	9-27-22	9-27-22	
Benzo(j,k)fluoranthene	ND	0.010	EPA 8270E/SIM	9-27-22	9-27-22	
Benzo[a]pyrene	ND	0.010	EPA 8270E/SIM	9-27-22	9-27-22	
Indeno(1,2,3-c,d)pyrene	ND	0.010	EPA 8270E/SIM	9-27-22	9-27-22	
Dibenz[a,h]anthracene	ND	0.010	EPA 8270E/SIM	9-27-22	9-27-22	
Benzo[g,h,i]perylene	ND	0.010	EPA 8270E/SIM	9-27-22	9-27-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>2-Fluorobiphenyl</i>	<i>54</i>	<i>20 - 106</i>				
<i>Pyrene-d10</i>	<i>72</i>	<i>19 - 104</i>				
<i>Terphenyl-d14</i>	<i>86</i>	<i>41 - 127</i>				



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**PAHS EPA 8270E/SIM
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD	RPD	Flags
					Recovery	Limits	Limit			
SPIKE BLANKS										
Laboratory ID:	SB0927W1									
	SB	SBD	SB	SBD	SB	SBD				
Naphthalene	0.297	0.270	0.500	0.500	59	54	25 - 82	10	39	
Acenaphthylene	0.310	0.299	0.500	0.500	62	60	35 - 107	4	26	
Acenaphthene	0.295	0.286	0.500	0.500	59	57	33 - 99	3	26	
Fluorene	0.330	0.315	0.500	0.500	66	63	43 - 95	5	24	
Phenanthrene	0.334	0.316	0.500	0.500	67	63	49 - 100	6	20	
Anthracene	0.325	0.301	0.500	0.500	65	60	47 - 101	8	21	
Fluoranthene	0.334	0.312	0.500	0.500	67	62	51 - 115	7	23	
Pyrene	0.349	0.329	0.500	0.500	70	66	53 - 117	6	24	
Benzo[a]anthracene	0.395	0.362	0.500	0.500	79	72	57 - 114	9	21	
Chrysene	0.376	0.341	0.500	0.500	75	68	55 - 119	10	21	
Benzo[b]fluoranthene	0.381	0.397	0.500	0.500	76	79	56 - 125	4	26	
Benzo(j,k)fluoranthene	0.446	0.375	0.500	0.500	89	75	53 - 124	17	22	
Benzo[a]pyrene	0.367	0.338	0.500	0.500	73	68	54 - 119	8	22	
Indeno(1,2,3-c,d)pyrene	0.438	0.404	0.500	0.500	88	81	55 - 118	8	23	
Dibenz[a,h]anthracene	0.389	0.355	0.500	0.500	78	71	56 - 118	9	23	
Benzo[g,h,i]perylene	0.345	0.312	0.500	0.500	69	62	55 - 117	10	22	
<i>Surrogate:</i>										
2-Fluorobiphenyl					51	47	20 - 106			
Pyrene-d10					67	62	19 - 104			
Terphenyl-d14					81	74	41 - 127			



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**ORGANOCHLORINE
 PESTICIDES EPA 8081B
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0928W1					
alpha-BHC	ND	0.0050	EPA 8081B	9-28-22	9-28-22	
gamma-BHC	ND	0.0050	EPA 8081B	9-28-22	9-28-22	
beta-BHC	ND	0.0050	EPA 8081B	9-28-22	9-28-22	
delta-BHC	ND	0.0050	EPA 8081B	9-28-22	9-28-22	
Heptachlor	ND	0.0050	EPA 8081B	9-28-22	9-28-22	
Aldrin	ND	0.0020	EPA 8081B	9-28-22	9-28-22	
Heptachlor epoxide	ND	0.0030	EPA 8081B	9-28-22	9-28-22	
gamma-Chlordane	ND	0.0050	EPA 8081B	9-28-22	9-28-22	
alpha-Chlordane	ND	0.0050	EPA 8081B	9-28-22	9-28-22	
4,4'-DDE	ND	0.0050	EPA 8081B	9-28-22	9-28-22	
Endosulfan I	ND	0.0050	EPA 8081B	9-28-22	9-28-22	
Dieldrin	ND	0.0050	EPA 8081B	9-28-22	9-28-22	
Endrin	ND	0.0050	EPA 8081B	9-28-22	9-28-22	
4,4'-DDD	ND	0.0050	EPA 8081B	9-28-22	9-28-22	
Endosulfan II	ND	0.0050	EPA 8081B	9-28-22	9-28-22	
4,4'-DDT	ND	0.0050	EPA 8081B	9-28-22	9-28-22	
Endrin aldehyde	ND	0.0050	EPA 8081B	9-28-22	9-28-22	
Methoxychlor	ND	0.010	EPA 8081B	9-28-22	9-28-22	
Endosulfan sulfate	ND	0.0050	EPA 8081B	9-28-22	9-28-22	
Endrin ketone	ND	0.020	EPA 8081B	9-28-22	9-28-22	
Toxaphene	ND	0.050	EPA 8081B	9-28-22	9-28-22	
Tech Chlordane	ND	0.050	EPA 8081B	9-28-22	9-28-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control limits</i>				
<i>Tetrachloro-m-xylene</i>	<i>70</i>	<i>21-110</i>				
<i>Decachlorobiphenyl</i>	<i>102</i>	<i>42-113</i>				



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**ORGANOCHLORINE
 PESTICIDES EPA 8081B
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS											
Laboratory ID:	SB0928W1										
	SB	SBD	SB	SBD		SB	SBD				
alpha-BHC	0.0891	0.0972	0.100	0.100	N/A	89	97	50-113	9	19	
gamma-BHC	0.0913	0.0971	0.100	0.100	N/A	91	97	50-114	6	15	
beta-BHC	0.0861	0.0913	0.100	0.100	N/A	86	91	45-110	6	15	
delta-BHC	0.117	0.126	0.100	0.100	N/A	117	126	40-113	7	15	
Heptachlor	0.0831	0.0938	0.100	0.100	N/A	83	94	41-107	12	16	
Aldrin	0.0773	0.0864	0.100	0.100	N/A	77	86	39-105	11	15	
Heptachlor epoxide	0.0843	0.0903	0.100	0.100	N/A	84	90	53-106	7	15	
gamma-Chlordane	0.0848	0.0917	0.100	0.100	N/A	85	92	46-110	8	15	
alpha-Chlordane	0.0833	0.0897	0.100	0.100	N/A	83	90	46-110	7	15	
4,4'-DDE	0.0969	0.105	0.100	0.100	N/A	97	105	39-129	8	15	
Endosulfan I	0.0849	0.0915	0.100	0.100	N/A	85	92	51-109	7	15	
Dieldrin	0.0901	0.0978	0.100	0.100	N/A	90	98	55-112	8	15	
Endrin	0.100	0.110	0.100	0.100	N/A	100	110	54-119	10	16	
4,4'-DDD	0.104	0.115	0.100	0.100	N/A	104	115	52-142	10	15	
Endosulfan II	0.0954	0.104	0.100	0.100	N/A	95	104	49-115	9	15	
4,4'-DDT	0.111	0.120	0.100	0.100	N/A	111	120	52-136	8	15	
Endrin aldehyde	0.0856	0.0945	0.100	0.100	N/A	86	95	39-128	10	15	
Methoxychlor	0.115	0.128	0.100	0.100	N/A	115	128	56-156	11	19	
Endosulfan sulfate	0.118	0.129	0.100	0.100	N/A	118	129	44-120	9	15	
Endrin ketone	0.110	0.123	0.100	0.100	N/A	110	123	45-122	11	15	
<i>Surrogate:</i>											
<i>Tetrachloro-m-xylene</i>						65	73	21-110			
<i>Decachlorobiphenyl</i>						97	104	42-113			



Date of Report: October 6, 2022
 Samples Submitted: September 22, 2022
 Laboratory Reference: 2209-200
 Project: 6694-002-00 T700

TOTAL METALS
EPA 200.8/200.7/7470A
QUALITY CONTROL

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0929WH2					
Iron	ND	50	EPA 200.7	9-29-22	9-30-22	
Magnesium	ND	1000	EPA 200.7	9-29-22	9-30-22	
Manganese	ND	10	EPA 200.7	9-29-22	9-30-22	
Laboratory ID:	MB0929WM1					
Arsenic	ND	3.3	EPA 200.8	9-29-22	9-29-22	
Cadmium	ND	4.4	EPA 200.8	9-29-22	9-29-22	
Chromium	ND	11	EPA 200.8	9-29-22	9-29-22	
Copper	ND	11	EPA 200.8	9-29-22	9-29-22	
Lead	ND	1.1	EPA 200.8	9-29-22	9-29-22	
Nickel	ND	22	EPA 200.8	9-29-22	9-29-22	
Selenium	ND	5.6	EPA 200.8	9-29-22	9-29-22	
Zinc	ND	28	EPA 200.8	9-29-22	9-29-22	
Laboratory ID:	MB0928W1					
Mercury	ND	0.025	EPA 7470A	9-28-22	9-28-22	



Date of Report: October 6, 2022
 Samples Submitted: September 22, 2022
 Laboratory Reference: 2209-200
 Project: 6694-002-00 T700

TOTAL METALS
EPA 200.8/200.7/7470A
QUALITY CONTROL

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags		
DUPLICATE										
Laboratory ID:	09-159-07									
	ORIG	DUP								
Iron	ND	ND	NA	NA	NA	NA	NA	20		
Magnesium	16200	16800	NA	NA	NA	NA	4	20		
Manganese	31.0	30.3	NA	NA	NA	NA	2	20		
Laboratory ID:	09-267-10									
Arsenic	ND	ND	NA	NA	NA	NA	NA	20		
Cadmium	ND	ND	NA	NA	NA	NA	NA	20		
Chromium	ND	ND	NA	NA	NA	NA	NA	20		
Copper	ND	ND	NA	NA	NA	NA	NA	20		
Lead	ND	ND	NA	NA	NA	NA	NA	20		
Nickel	ND	ND	NA	NA	NA	NA	NA	20		
Selenium	ND	ND	NA	NA	NA	NA	NA	20		
Zinc	ND	ND	NA	NA	NA	NA	NA	20		
Laboratory ID:	09-199-01									
Mercury	ND	ND	NA	NA	NA	NA	NA	20		
MATRIX SPIKES										
Laboratory ID:	09-159-07									
	MS	MSD	MS	MSD		MS	MSD			
Iron	22800	22600	20000	20000	ND	114	113	75-125	1	20
Magnesium	36800	35800	20000	20000	16200	103	98	75-125	3	20
Manganese	540	537	500	500	31.0	102	101	75-125	1	20
Laboratory ID:	09-267-10									
Arsenic	101	101	111	111	ND	91	91	75-125	0	20
Cadmium	94.7	96.0	111	111	ND	85	87	75-125	1	20
Chromium	91.8	93.8	111	111	ND	83	85	75-125	2	20
Copper	88.7	90.4	111	111	ND	80	82	75-125	2	20
Lead	96.7	97.3	111	111	ND	87	88	75-125	1	20
Nickel	88.9	89.8	111	111	ND	80	81	75-125	1	20
Selenium	101	106	111	111	ND	91	96	75-125	5	20
Zinc	98.2	97.1	111	111	ND	89	88	75-125	1	20
Laboratory ID:	09-199-01									
Mercury	6.00	5.95	12.5	12.5	ND	48	48	75-125	1	20



Date of Report: October 6, 2022
 Samples Submitted: September 22, 2022
 Laboratory Reference: 2209-200
 Project: 6694-002-00 T700

**DISSOLVED METALS
 EPA 200.8/200.7/7470A
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0928D1					
Calcium	ND	1100	EPA 200.7		9-28-22	
Manganese	ND	11	EPA 200.7		9-28-22	
Sodium	ND	1100	EPA 200.7		9-28-22	
Laboratory ID:	MB0929D1					
Arsenic	ND	3.0	EPA 200.8		9-29-22	
Cadmium	ND	4.0	EPA 200.8		9-29-22	
Chromium	ND	10	EPA 200.8		9-29-22	
Copper	ND	10	EPA 200.8		9-29-22	
Lead	ND	1.0	EPA 200.8		9-29-22	
Nickel	ND	20	EPA 200.8		9-29-22	
Selenium	ND	5.0	EPA 200.8		9-29-22	
Zinc	ND	25	EPA 200.8		9-29-22	
Laboratory ID:	MB0928D1					
Mercury	ND	0.025	EPA 7470A		9-28-22	
Laboratory ID:	MB0929D1					
Iron	ND	56	EPA 200.7		9-28-22	
Magnesium	ND	1100	EPA 200.7		9-28-22	
Potassium	ND	1100	EPA 200.7		9-29-22	



Date of Report: October 6, 2022
 Samples Submitted: September 22, 2022
 Laboratory Reference: 2209-200
 Project: 6694-002-00 T700

DISSOLVED METALS
EPA 200.8/200.7/7470A
QUALITY CONTROL

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result		Spike Level		Source	Percent	Recovery	RPD		Flags
					Result	Recovery	Limits	RPD	Limit	
DUPLICATE										
Laboratory ID:	09-191-01									
	ORIG	DUP								
Iron	ND	ND	NA	NA		NA	NA	NA	20	
Magnesium	14300	14300	NA	NA		NA	NA	0	20	
Potassium	2220	2220	NA	NA		NA	NA	0	20	
Laboratory ID:	09-261-02									
	ORIG	DUP								
Calcium	16000	17200	NA	NA		NA	NA	7	20	
Manganese	93.6	100	NA	NA		NA	NA	7	20	
Sodium	12400	13300	NA	NA		NA	NA	7	20	
Laboratory ID:	09-294-01									
Arsenic	ND	ND	NA	NA		NA	NA	NA	20	
Cadmium	ND	ND	NA	NA		NA	NA	NA	20	
Chromium	ND	ND	NA	NA		NA	NA	NA	20	
Copper	ND	ND	NA	NA		NA	NA	NA	20	
Lead	ND	ND	NA	NA		NA	NA	NA	20	
Nickel	ND	ND	NA	NA		NA	NA	NA	20	
Selenium	ND	ND	NA	NA		NA	NA	NA	20	
Zinc	ND	ND	NA	NA		NA	NA	NA	20	
Laboratory ID:	09-199-01									
Mercury	ND	ND	NA	NA		NA	NA	NA	20	



Date of Report: October 6, 2022
 Samples Submitted: September 22, 2022
 Laboratory Reference: 2209-200
 Project: 6694-002-00 T700

**DISSOLVED METALS
 EPA 200.8/200.7/7470A
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result		Spike Level		Source	Percent	Recovery	RPD		
					Result	Recovery	Limits	RPD	Limit	Flags
MATRIX SPIKES										
Laboratory ID:	09-191-01									
	MS	MSD	MS	MSD		MS	MSD			
Iron	24900	24800	22200	22200	ND	112	112	75-125	0	20
Magnesium	38900	38900	22200	22200	14300	111	111	75-125	0	20
Potassium	27200	27000	22200	22200	2220	113	112	75-125	1	20
Laboratory ID:	09-261-02									
	MS	MSD	MS	MSD		MS	MSD			
Calcium	34900	41600	22200	22200	16000	85	116	75-125	18	20
Manganese	697	611	556	556	93.6	109	93	75-125	13	20
Sodium	31400	37700	22200	22200	12400	86	114	75-125	18	20
Laboratory ID:	09-294-01									
Arsenic	76.6	75.8	80.0	80.0	ND	96	95	75-125	1	20
Cadmium	75.0	75.4	80.0	80.0	ND	94	94	75-125	1	20
Chromium	73.4	72.6	80.0	80.0	ND	92	91	75-125	1	20
Copper	73.0	72.0	80.0	80.0	ND	91	90	75-125	1	20
Lead	75.6	74.8	80.0	80.0	ND	95	94	75-125	1	20
Nickel	72.4	72.6	80.0	80.0	ND	91	91	75-125	0	20
Selenium	76.6	78.6	80.0	80.0	ND	96	98	75-125	3	20
Zinc	76.0	78.8	80.0	80.0	ND	95	99	75-125	4	20
Laboratory ID:	09-199-01									
Mercury	5.95	6.03	6.25	6.25	ND	95	96	75-125	1	20



Date of Report: October 6, 2022
 Samples Submitted: September 22, 2022
 Laboratory Reference: 2209-200
 Project: 6694-002-00 T700

**TOTAL ALKALINITY
 SM 2320B
 QUALITY CONTROL**

Matrix: Water
 Units: mg CaCO₃/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0929W1					
Total Alkalinity	ND	2.0	SM 2320B	9-29-22	9-29-22	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	09-190-01							
	ORIG	DUP						
Total Alkalinity	392	392	NA	NA	NA	0	10	

SPIKE BLANK								
Laboratory ID:	SB0929W1							
	SB	SB		SB				
Total Alkalinity	94.0	100	NA	94	89-110	NA	NA	



Date of Report: October 6, 2022
 Samples Submitted: September 22, 2022
 Laboratory Reference: 2209-200
 Project: 6694-002-00 T700

**BICARBONATE
 SM 2320B
 QUALITY CONTROL**

Matrix: Water
 Units: mg CaCO₃/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0929W1					
Bicarbonate	ND	2.0	SM 2320B	9-29-22	9-29-22	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	09-190-01							
	ORIG	DUP						
Bicarbonate	392	392	NA	NA	NA	0	10	

SPIKE BLANK								
Laboratory ID:	SB0929W1							
	SB	SB		SB				
Bicarbonate	94.0	100	NA	94	89-110	NA	NA	



Date of Report: October 6, 2022
 Samples Submitted: September 22, 2022
 Laboratory Reference: 2209-200
 Project: 6694-002-00 T700

**CHLORIDE
 SM 4500-CI E
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0923W1					
Chloride	ND	2.0	SM 4500-CI E	9-23-22	9-23-22	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	09-198-01							
	ORIG	DUP						
Chloride	5.20	5.75	NA	NA	NA	10	11	

MATRIX SPIKE								
Laboratory ID:	09-198-01							
	MS	MS		MS				
Chloride	54.5	50.0	5.20	99	90-121	NA	NA	

SPIKE BLANK								
Laboratory ID:	SB0923W1							
	SB	SB		SB				
Chloride	50.7	50.0	NA	101	90-119	NA	NA	



Date of Report: October 6, 2022
 Samples Submitted: September 22, 2022
 Laboratory Reference: 2209-200
 Project: 6694-002-00 T700

**NITRATE (as Nitrogen)
 EPA 353.2
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L-N

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0922W2					
Nitrate	ND	0.050	EPA 353.2	9-22-22	9-22-22	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	09-060-01							
	ORIG	DUP						
Nitrate	0.149	0.146	NA	NA	NA	2	10	

MATRIX SPIKE								
Laboratory ID:	09-060-01							
	MS	MS		MS				
Nitrate	1.97	2.00	0.149	91	88-125	NA	NA	

SPIKE BLANK								
Laboratory ID:	SB0922W2							
	SB	SB		SB				
Nitrate	2.01	2.00	NA	101	90-120	NA	NA	



Date of Report: October 6, 2022
 Samples Submitted: September 22, 2022
 Laboratory Reference: 2209-200
 Project: 6694-002-00 T700

**SULFATE
 ASTM D516-11
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0926W1					
Sulfate	ND	5.0	ASTM D516-11	9-26-22	9-26-22	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	09-203-01							
	ORIG	DUP						
Sulfate	15.9	16.0	NA	NA	NA	1	10	

MATRIX SPIKE								
Laboratory ID:	09-203-01							
	MS	MS		MS				
Sulfate	24.2	10.0	15.9	83	72-128	NA	NA	

SPIKE BLANK								
Laboratory ID:	SB0926W1							
	SB	SB		SB				
Sulfate	9.73	10.0	NA	97	85-114	NA	NA	



Date of Report: October 6, 2022
 Samples Submitted: September 22, 2022
 Laboratory Reference: 2209-200
 Project: 6694-002-00 T700

**TOTAL DISSOLVED SOLIDS
 SM 2540C
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0923W1					
Total Dissolved Solids	ND	13	SM 2540C	9-23-22	9-23-22	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	09-189-01							
	ORIG	DUP						
Total Dissolved Solids	175	175	NA	NA	NA	0	23	

SPIKE BLANK								
Laboratory ID:	SB0923W1							
	SB	SB		SB				
Total Dissolved Solids	528	500	NA	106	89-120	NA	NA	



Date of Report: October 6, 2022
 Samples Submitted: September 22, 2022
 Laboratory Reference: 2209-200
 Project: 6694-002-00 T700

AMMONIA (as Nitrogen)
SM 4500-NH₃ D
QUALITY CONTROL

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1005W1					
Ammonia	ND	0.050	SM 4500-NH3 D	10-5-22	10-5-22	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	09-253-01							
	ORIG	DUP						
Ammonia	ND	ND	NA	NA	NA	NA	15	

MATRIX SPIKE								
Laboratory ID:	09-253-01							
	MS	MS		MS				
Ammonia	4.92	5.00	ND	98	87-110	NA	NA	

SPIKE BLANK								
Laboratory ID:	SB1005W1							
	SB	SB		SB				
Ammonia	4.98	5.00	NA	100	88-110	NA	NA	



Date of Report: October 6, 2022
 Samples Submitted: September 22, 2022
 Laboratory Reference: 2209-200
 Project: 6694-002-00 T700

**TOTAL ORGANIC CARBON
 SM 5310B
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0929W1					
Total Organic Carbon	ND	1.0	SM 5310B	9-29-22	9-29-22	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	09-165-01							
	ORIG	DUP						
Total Organic Carbon	5.31	5.31	NA	NA	NA	0	12	

MATRIX SPIKE								
Laboratory ID:	09-165-01							
	MS	MS		MS				
Total Organic Carbon	15.5	10.0	5.31	102	80-120	NA	NA	

SPIKE BLANK								
Laboratory ID:	SB0929W1							
	SB	SB		SB				
Total Organic Carbon	10.5	10.0	NA	105	80-118	NA	NA	





Data Qualifiers and Abbreviations

- A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.
 - B - The analyte indicated was also found in the blank sample.
 - C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.
 - E - The value reported exceeds the quantitation range and is an estimate.
 - F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.
 - H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.
 - I - Compound recovery is outside of the control limits.
 - J - The value reported was below the practical quantitation limit. The value is an estimate.
 - K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.
 - L - The RPD is outside of the control limits.
 - M - Hydrocarbons in the gasoline range are impacting the diesel range result.
 - M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.
 - N - Hydrocarbons in the lube oil range are impacting the diesel range result.
 - N1 - Hydrocarbons in diesel range are impacting lube oil range results.
 - O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.
 - P - The RPD of the detected concentrations between the two columns is greater than 40.
 - Q - Surrogate recovery is outside of the control limits.
 - S - Surrogate recovery data is not available due to the necessary dilution of the sample.
 - T - The sample chromatogram is not similar to a typical _____.
 - U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
 - U1 - The practical quantitation limit is elevated due to interferences present in the sample.
 - V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.
 - W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.
 - X - Sample extract treated with a mercury cleanup procedure.
 - X1 - Sample extract treated with a sulfuric acid/silica gel cleanup procedure.
 - Y - The calibration verification for this analyte exceeded the 20% drift specified in methods 8260 & 8270, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.
 - Z -
- ND - Not Detected at PQL
 PQL - Practical Quantitation Limit
 RPD - Relative Percent Difference



Chain of Custody

Company: **GEI**

Project Number: **6694-002-05**

Project Name: **Go East**

Project Manager: **Garrett League**

Sampled by: **JDE**

Turnaround Request (in working days)

(Check One)

Same Day 1 Day

2 Days 3 Days

Standard (7 Days)

TPH 5 days
(other)

Number of Containers

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers
1	MW-9-220921	9/21/22	1200	GW	15

Laboratory Number: 09-200

NWTPH-HCID	NWTPH-GX/BTEX (8021 <input type="checkbox"/> 8260 <input type="checkbox"/>)	NWTPH-GX	NWTPH-DX (Acid / SG Clean-up <input type="checkbox"/>)	Volatiles 8260	Halogenated Volatiles 8260	EDB EPA 8011 (Waters Only)	Semivolatiles 8270/SIM (with low-level PAHs)	PAHs 8270/SIM (low-level)	PCBs 8082	Organochlorine Pesticides 8081	Organophosphorus Pesticides 8270/SIM	Chlorinated Acid Herbicides 8151	Total Metals 8270 undissolved	Trace Metals 8270 dissolved	TCLP Metals	HEM (oil and grease) 1664	% Moisture
		XX					X			X			X				

Handwritten notes:
 TOC, Al, Fe, B, Co, Pb, Cl, NO3, SO4, I, DS, NH3

Signature	Company	Date	Time	Comments/Special Instructions
<i>[Signature]</i>	GEI	9/21/22	1500	* total metals: As, Cd, Cr, Cu, Fe, Pb, Mg, Mn, Hg, Ni, Se, Zn
<i>[Signature]</i>	Alpha	9/22/22	9:15	
<i>[Signature]</i>	Alpha	9/22/22	9:59	** Dissolved metals: As, Cd, Cr, Cu, Fe, Pb, Mg, Mn, Hg, Ni, Se, Zn, Ca, K, Na
<i>[Signature]</i>	COVE	9/22/22	0959	
				Data Package: Standard <input type="checkbox"/> Level III <input type="checkbox"/> Level IV <input type="checkbox"/>
Reviewed/Date	Reviewed/Date			Chromatograms with final report <input type="checkbox"/> Electronic Data Deliverables (EDDs) <input type="checkbox"/>



**OnSite
Environmental Inc.**

14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

October 7, 2022

Garrett Leque
GeoEngineers, Inc.
554 West Bakerview Road
Bellingham, WA 98226

Re: Analytical Data for Project 6694-002-05 T700
Laboratory Reference No. 2209-225

Dear Garrett:

Enclosed are the analytical results and associated quality control data for samples submitted on September 23, 2022.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

David Baumeister
Project Manager

Enclosures



Date of Report: October 7, 2022
Samples Submitted: September 23, 2022
Laboratory Reference: 2209-225
Project: 6694-002-05

Case Narrative

Samples were collected on September 22 and 23, 2022 and received by the laboratory on September 23, 2022. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

Nitrate (as Nitrogen) EPA 353.2 Analysis

The reported Nitrate results are a calculated value based on the subtraction of Nitrite from the Nitrate plus Nitrite result. The Nitrite analysis, which has a 48-hour holding time, was performed within the holding time. Immediately after this analysis, an aliquot from each sample was preserved with concentrated sulfuric acid and stored at 4 degrees C. The preserved samples were then analyzed within the maximum 28-day holding time for the Nitrate plus Nitrite analysis.

Any other QA/QC issues associated with this extraction and analysis will be indicated with a footnote reference and discussed in detail on the Data Qualifier page.



Date of Report: October 7, 2022
Samples Submitted: September 23, 2022
Laboratory Reference: 2209-225
Project: 6694-002-05

ANALYTICAL REPORT FOR SAMPLES

Client ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
MW-1-20220922	09-225-01	Water	9-22-22	9-23-22	
MW-2-20220922	09-225-02	Water	9-22-22	9-23-22	
MW-5-20220923	09-225-03	Water	9-23-22	9-23-22	

DRAFT



Date of Report: October 7, 2022
 Samples Submitted: September 23, 2022
 Laboratory Reference: 2209-225
 Project: 6694-002-05

TOTAL METALS
EPA 200.8/200.7

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-1-20220922					
Laboratory ID:	09-225-01					
Arsenic	5.3	3.3	EPA 200.8	9-29-22	9-29-22	
Iron	960	50	EPA 200.7	9-29-22	9-30-22	
Magnesium	8300	1000	EPA 200.7	9-29-22	9-30-22	
Manganese	260	10	EPA 200.7	9-29-22	9-30-22	

Client ID:	MW-2-20220922					
Laboratory ID:	09-225-02					
Arsenic	4.5	3.3	EPA 200.8	9-29-22	9-29-22	
Iron	1100	50	EPA 200.7	9-29-22	9-30-22	
Magnesium	14000	1000	EPA 200.7	9-29-22	9-30-22	
Manganese	230	10	EPA 200.7	9-29-22	9-30-22	

Client ID:	MW-5-20220923					
Laboratory ID:	09-225-03					
Arsenic	4.8	3.3	EPA 200.8	9-29-22	9-29-22	
Iron	380	50	EPA 200.7	9-29-22	9-30-22	
Magnesium	15000	1000	EPA 200.7	9-29-22	9-30-22	
Manganese	170	10	EPA 200.7	9-29-22	9-30-22	



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DISSOLVED METALS
EPA 200.8/200.7

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-1-20220922					
Laboratory ID:	09-225-01					
Arsenic	3.9	3.0	EPA 200.8		9-29-22	
Calcium	17000	1100	EPA 200.7		9-28-22	
Iron	160	56	EPA 200.7		9-29-22	
Magnesium	9200	1100	EPA 200.7		9-29-22	
Manganese	240	11	EPA 200.7		9-28-22	
Potassium	2100	1100	EPA 200.7		9-29-22	
Sodium	5100	1100	EPA 200.7		9-28-22	

Client ID:	MW-2-20220922					
Laboratory ID:	09-225-02					
Arsenic	4.2	3.0	EPA 200.8		9-29-22	
Calcium	21000	1100	EPA 200.7		9-28-22	
Iron	ND	56	EPA 200.7		9-29-22	
Magnesium	15000	1100	EPA 200.7		9-29-22	
Manganese	210	11	EPA 200.7		9-28-22	
Potassium	2300	1100	EPA 200.7		9-29-22	
Sodium	6300	1100	EPA 200.7		9-28-22	

Client ID:	MW-5-20220923					
Laboratory ID:	09-225-03					
Arsenic	5.4	3.0	EPA 200.8		9-29-22	
Calcium	27000	1100	EPA 200.7		9-28-22	
Iron	ND	56	EPA 200.7		9-29-22	
Magnesium	16000	1100	EPA 200.7		9-29-22	
Manganese	120	11	EPA 200.7		9-28-22	
Potassium	2500	1100	EPA 200.7		9-29-22	
Sodium	7000	1100	EPA 200.7		9-28-22	



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**TOTAL ALKALINITY
 SM 2320B**

Matrix: Water
 Units: mg CaCO₃/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-1-20220922					
Laboratory ID:	09-225-01					
Total Alkalinity	80	2.0	SM 2320B	9-29-22	9-29-22	
Client ID:	MW-2-20220922					
Laboratory ID:	09-225-02					
Total Alkalinity	110	2.0	SM 2320B	9-29-22	9-29-22	
Client ID:	MW-5-20220923					
Laboratory ID:	09-225-03					
Total Alkalinity	120	2.0	SM 2320B	9-29-22	9-29-22	



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**BICARBONATE
 SM 2320B**

Matrix: Water
 Units: mg CaCO₃/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-1-20220922					
Laboratory ID:	09-225-01					
Bicarbonate	80	2.0	SM 2320B	9-29-22	9-29-22	
Client ID:	MW-2-20220922					
Laboratory ID:	09-225-02					
Bicarbonate	110	2.0	SM 2320B	9-29-22	9-29-22	
Client ID:	MW-5-20220923					
Laboratory ID:	09-225-03					
Bicarbonate	120	2.0	SM 2320B	9-29-22	9-29-22	



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**CHLORIDE
 SM 4500-Cl E**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-1-20220922					
Laboratory ID:	09-225-01					
Chloride	2.3	2.0	SM 4500-Cl E	10-5-22	10-5-22	
Client ID:	MW-2-20220922					
Laboratory ID:	09-225-02					
Chloride	3.0	2.0	SM 4500-Cl E	10-5-22	10-5-22	
Client ID:	MW-5-20220923					
Laboratory ID:	09-225-03					
Chloride	5.9	2.0	SM 4500-Cl E	10-5-22	10-5-22	



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NITRATE (as Nitrogen)
EPA 353.2

Matrix: Water
 Units: mg/L-N

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-1-20220922					
Laboratory ID:	09-225-01					
Nitrate	ND	0.050	EPA 353.2	9-23-22	9-23-22	
Client ID:	MW-2-20220922					
Laboratory ID:	09-225-02					
Nitrate	ND	0.050	EPA 353.2	9-23-22	9-23-22	
Client ID:	MW-5-20220923					
Laboratory ID:	09-225-03					
Nitrate	ND	0.050	EPA 353.2	9-23-22	9-23-22	



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SULFATE
ASTM D516-11

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-1-20220922					
Laboratory ID:	09-225-01					
Sulfate	5.2	5.0	ASTM D516-11	9-26-22	9-26-22	
Client ID:	MW-2-20220922					
Laboratory ID:	09-225-02					
Sulfate	8.8	5.0	ASTM D516-11	9-26-22	9-26-22	
Client ID:	MW-5-20220923					
Laboratory ID:	09-225-03					
Sulfate	13	5.0	ASTM D516-11	9-26-22	9-26-22	



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**TOTAL DISSOLVED SOLIDS
 SM 2540C**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-1-20220922					
Laboratory ID:	09-225-01					
Total Dissolved Solids	130	13	SM 2540C	9-28-22	9-30-22	
Client ID:	MW-2-20220922					
Laboratory ID:	09-225-02					
Total Dissolved Solids	160	13	SM 2540C	9-28-22	9-30-22	
Client ID:	MW-5-20220923					
Laboratory ID:	09-225-03					
Total Dissolved Solids	170	13	SM 2540C	9-28-22	9-30-22	



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AMMONIA (as Nitrogen)
SM 4500-NH₃ D

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-1-20220922					
Laboratory ID:	09-225-01					
Ammonia	0.16	0.050	SM 4500-NH3 D	10-5-22	10-5-22	
Client ID:	MW-2-20220922					
Laboratory ID:	09-225-02					
Ammonia	0.10	0.050	SM 4500-NH3 D	10-5-22	10-5-22	
Client ID:	MW-5-20220923					
Laboratory ID:	09-225-03					
Ammonia	0.061	0.050	SM 4500-NH3 D	10-5-22	10-5-22	



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**TOTAL ORGANIC CARBON
 SM 5310B**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-1-20220922					
Laboratory ID:	09-225-01					
Total Organic Carbon	ND	1.0	SM 5310B	9-29-22	9-29-22	
Client ID:	MW-2-20220922					
Laboratory ID:	09-225-02					
Total Organic Carbon	ND	1.0	SM 5310B	9-29-22	9-29-22	
Client ID:	MW-5-20220923					
Laboratory ID:	09-225-03					
Total Organic Carbon	ND	1.0	SM 5310B	9-29-22	9-29-22	



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**TOTAL METALS
 EPA 200.8/200.7
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0929WH2					
Iron	ND	50	EPA 200.7	9-29-22	9-30-22	
Magnesium	ND	1000	EPA 200.7	9-29-22	9-30-22	
Manganese	ND	10	EPA 200.7	9-29-22	9-30-22	
METHOD BLANK						
Laboratory ID:	MB0929WM1					
Arsenic	ND	3.3	EPA 200.8	9-29-22	9-29-22	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	09-159-07							
	ORIG	DUP						
Iron	ND	ND	NA	NA	NA	NA	20	
Magnesium	16200	16800	NA	NA	NA	4	20	
Manganese	31.0	30.3	NA	NA	NA	2	20	
DUPLICATE								
Laboratory ID:	09-267-10							
Arsenic	ND	ND	NA	NA	NA	NA	20	

MATRIX SPIKES

Laboratory ID:	09-159-07									
	MS	MSD	MS	MSD		MS	MSD			
Iron	22800	22600	20000	20000	ND	114	113	75-125	1	20
Magnesium	36800	35800	20000	20000	16200	103	98	75-125	3	20
Manganese	540	537	500	500	31.0	102	101	75-125	1	20
MATRIX SPIKES										
Laboratory ID:	09-267-10									
Arsenic	101	101	111	111	ND	91	91	75-125	0	20



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DISSOLVED METALS
EPA 200.8/200.7
QUALITY CONTROL

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0928D1					
Calcium	ND	1100	EPA 200.7		9-28-22	
Manganese	ND	11	EPA 200.7		9-28-22	
Sodium	ND	1100	EPA 200.7		9-28-22	
Laboratory ID:	MB0929D1					
Arsenic	ND	3.0	EPA 200.8		9-29-22	
Laboratory ID:	MB0929D1					
Iron	ND	56	EPA 200.7		9-28-22	
Magnesium	ND	1100	EPA 200.7		9-28-22	
Potassium	ND	1100	EPA 200.7		9-29-22	



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**DISSOLVED METALS
 EPA 200.8/200.7
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result		Spike Level		Source	Percent	Recovery	RPD		Flags
	Result	Result	Result	Result	Result	Recovery	Limits	RPD	Limit	
DUPLICATE										
Laboratory ID:	09-261-02									
	ORIG	DUP								
Calcium	16000	17200	NA	NA		NA	NA	7	20	
Manganese	93.6	100	NA	NA		NA	NA	7	20	
Sodium	12400	13300	NA	NA		NA	NA	7	20	
Laboratory ID:	09-294-01									
Arsenic	ND	ND	NA	NA		NA	NA	NA	20	
Laboratory ID:	09-191-01									
	ORIG	DUP								
Iron	ND	ND	NA	NA		NA	NA	NA	20	
Magnesium	14300	14300	NA	NA		NA	NA	0	20	
Potassium	2220	2220	NA	NA		NA	NA	0	20	
MATRIX SPIKES										
Laboratory ID:	09-261-02									
	MS	MSD	MS	MSD		MS	MSD			
Calcium	34900	41600	22200	22200	16000	85	116	75-125	18	20
Manganese	697	611	556	556	93.6	109	93	75-125	13	20
Sodium	31400	37700	22200	22200	12400	86	114	75-125	18	20
Laboratory ID:	09-294-01									
Arsenic	76.6	75.8	80.0	80.0	ND	96	95	75-125	1	20
Laboratory ID:	09-191-01									
	MS	MSD	MS	MSD		MS	MSD			
Iron	24900	24800	22200	22200	ND	112	112	75-125	0	20
Magnesium	38900	38900	22200	22200	14300	111	111	75-125	0	20
Potassium	27200	27000	22200	22200	2220	113	112	75-125	1	20



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**TOTAL ALKALINITY
 SM 2320B
 QUALITY CONTROL**

Matrix: Water
 Units: mg CaCO₃/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0929W1					
Total Alkalinity	ND	2.0	SM 2320B	9-29-22	9-29-22	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	09-190-01							
	ORIG	DUP						
Total Alkalinity	392	392	NA	NA	NA	0	10	

SPIKE BLANK								
Laboratory ID:	SB0929W1							
	SB	SB		SB				
Total Alkalinity	94.0	100	NA	94	89-110	NA	NA	



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**BICARBONATE
 SM 2320B
 QUALITY CONTROL**

Matrix: Water
 Units: mg CaCO₃/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0929W1					
Bicarbonate	ND	2.0	SM 2320B	9-29-22	9-29-22	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	09-190-01							
	ORIG	DUP						
Bicarbonate	392	392	NA	NA	NA	0	10	

SPIKE BLANK								
Laboratory ID:	SB0929W1							
	SB	SB		SB				
Bicarbonate	94.0	100	NA	94	89-110	NA	NA	



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**CHLORIDE
 SM 4500-Cl E
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1004W1					
Chloride	ND	2.0	SM 4500-Cl E	10-5-22	10-5-22	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	09-297-01							
	ORIG	DUP						
Chloride	3.93	4.08	NA	NA	NA	4	11	

MATRIX SPIKE								
Laboratory ID:	09-297-01							
	MS	MS		MS				
Chloride	49.9	50.0	3.93	92	90-121	NA	NA	

SPIKE BLANK								
Laboratory ID:	SB1004W1							
	SB	SB		SB				
Chloride	45.3	50.0	NA	91	90-119	NA	NA	



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**NITRATE (as Nitrogen)
 EPA 353.2
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L-N

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0923W1					
Nitrate	ND	0.050	EPA 353.2	9-23-22	9-23-22	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	09-225-01							
	ORIG	DUP						
Nitrate	ND	ND	NA	NA	NA	NA	10	

MATRIX SPIKE								
Laboratory ID:	09-225-01							
	MS	MS		MS				
Nitrate	1.77	2.00	ND	89	88-125	NA	NA	

SPIKE BLANK								
Laboratory ID:	SB0923W1							
	SB	SB		SB				
Nitrate	1.91	2.00	NA	96	90-120	NA	NA	



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**SULFATE
 ASTM D516-11
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0926W1					
Sulfate	ND	5.0	ASTM D516-11	9-26-22	9-26-22	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	09-203-01							
	ORIG	DUP						
Sulfate	15.9	16.0	NA	NA	NA	1	10	

MATRIX SPIKE								
Laboratory ID:	09-203-01							
	MS	MS		MS				
Sulfate	24.2	10.0	15.9	83	72-128	NA	NA	

SPIKE BLANK								
Laboratory ID:	SB0926W1							
	SB	SB		SB				
Sulfate	9.73	10.0	NA	97	85-114	NA	NA	



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**TOTAL DISSOLVED SOLIDS
 SM 2540C
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0928W1					
Total Dissolved Solids	ND	13	SM 2540C	9-28-22	9-30-22	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	09-253-01							
	ORIG	DUP						
Total Dissolved Solids	147	135	NA	NA	NA	9	23	

SPIKE BLANK								
Laboratory ID:	SB0928W1							
	SB	SB		SB				
Total Dissolved Solids	532	500	NA	106	89-120	NA	NA	



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**AMMONIA (as Nitrogen)
 SM 4500-NH₃ D
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1005W1					
Ammonia	ND	0.050	SM 4500-NH3 D	10-5-22	10-5-22	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	09-253-01							
	ORIG	DUP						
Ammonia	ND	ND	NA	NA	NA	NA	15	

MATRIX SPIKE								
Laboratory ID:	09-253-01							
	MS	MS		MS				
Ammonia	4.92	5.00	ND	98	87-110	NA	NA	

SPIKE BLANK								
Laboratory ID:	SB1005W1							
	SB	SB		SB				
Ammonia	4.98	5.00	NA	100	88-110	NA	NA	



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**TOTAL ORGANIC CARBON
 SM 5310B
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0929W1					
Total Organic Carbon	ND	1.0	SM 5310B	9-29-22	9-29-22	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	09-165-01							
	ORIG	DUP						
Total Organic Carbon	5.31	5.31	NA	NA	NA	0	12	

MATRIX SPIKE								
Laboratory ID:	09-165-01							
	MS	MS		MS				
Total Organic Carbon	15.5	10.0	5.31	102	80-120	NA	NA	

SPIKE BLANK								
Laboratory ID:	SB0929W1							
	SB	SB		SB				
Total Organic Carbon	10.5	10.0	NA	105	80-118	NA	NA	





Data Qualifiers and Abbreviations

- A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.
- B - The analyte indicated was also found in the blank sample.
- C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.
- E - The value reported exceeds the quantitation range and is an estimate.
- F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.
- H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.
- I - Compound recovery is outside of the control limits.
- J - The value reported was below the practical quantitation limit. The value is an estimate.
- K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.
- L - The RPD is outside of the control limits.
- M - Hydrocarbons in the gasoline range are impacting the diesel range result.
- M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.
- N - Hydrocarbons in the lube oil range are impacting the diesel range result.
- N1 - Hydrocarbons in diesel range are impacting lube oil range results.
- O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.
- P - The RPD of the detected concentrations between the two columns is greater than 40.
- Q - Surrogate recovery is outside of the control limits.
- S - Surrogate recovery data is not available due to the necessary dilution of the sample.
- T - The sample chromatogram is not similar to a typical _____.
- U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
- U1 - The practical quantitation limit is elevated due to interferences present in the sample.
- V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.
- W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.
- X - Sample extract treated with a mercury cleanup procedure.
- X1 - Sample extract treated with a sulfuric acid/silica gel cleanup procedure.
- Y - The calibration verification for this analyte exceeded the 20% drift specified in methods 8260 & 8270, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.

Z -

ND - Not Detected at PQL
 PQL - Practical Quantitation Limit
 RPD - Relative Percent Difference



Chain of Custody

Company: GeoEngineers	Turnaround Request (in working days) (Check One) <input type="checkbox"/> Same Day <input type="checkbox"/> 1 Day <input type="checkbox"/> 2 Days <input type="checkbox"/> 3 Days <input checked="" type="checkbox"/> Standard (7 Days) (TPH analysis 5 Days) <input type="checkbox"/> _____ (other)	Laboratory Number: 09-225												
Project Number: 6694-002-05		Number of Containers NWTPh-Gx _____ NWTPh-Dx _____ Volatiles 8260B _____ PAHs 8270D/SIM (low-level) _____ Organochlorine Pesticides 8081A _____ TOC, alk-bicarb, Cl, NO3, SO4, TDS, NH3 _____ TOC, TDS, NH3 _____ T/D metals _____ T/D metals _____ D metals _____ Total metals _____	DIS SOLVED METALS SEE NOTES SEE NOTES											
Project Name: Go East														
Project Manager: Garrett Leque														
Sampled by: <i>BRIAN ANDERSON</i>														

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	NWTPh-Gx	NWTPh-Dx	Volatiles 8260B	PAHs 8270D/SIM (low-level)	Organochlorine Pesticides 8081A	TOC, alk-bicarb, Cl, NO3, SO4, TDS, NH3	TOC, TDS, NH3	T/D metals	T/D metals	D metals	Total metals	% Moisture
1	MW-1-20220922	9-22-22	1350	GW	6						X				X	X	
2	MW-2-20220922	9-22-22	1100	GW	6						X				X	X	
3	MW-5-20220923	9-23-22	0916	GW	6						X				X	X	

Signature	Company	Date	Time	Comments/Special Instructions
<i>B. Anderson</i>	GeoEngineers	9-23-22	1000	TOTAL METALS: As, Fe, Mg, Mn DISSOLVED METALS: As, Fe, Mg, Mn, Ca, K, Na
<i>J. Isaacson</i>	ALPHA	9/23/22	11:00	
<i>J. Isaacson</i>	ALPHA	9/23/22	11:50	
<i>[Signature]</i>	COE	9/23/22	1150	
Relinquished				
Received				
Relinquished				
Received				
Relinquished				
Received				
Reviewed/Date				Chromatograms with final report <input type="checkbox"/>



14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

October 5, 2022

Garrett Leque
GeoEngineers, Inc.
554 West Bakerview Road
Bellingham, WA 98226

Re: Analytical Data for Project 6694-002-05 T700
Laboratory Reference No. 2209-189

Dear Garrett:

Enclosed are the analytical results and associated quality control data for samples submitted on September 21, 2022.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

A handwritten signature in black ink, appearing to read "DB", is written over a large, light gray "DRAFT" watermark that is oriented diagonally across the page.

David Baumeister
Project Manager

Enclosures



OnSite Environmental, Inc. 14648 NE 95th Street, Redmond, WA 98052 (425) 883-3881

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: October 5, 2022
Samples Submitted: September 21, 2022
Laboratory Reference: 2209-189
Project: 6694-002-05 T700

Case Narrative

Samples were collected on September 20, 2022 and received by the laboratory on September 21, 2022. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.



Date of Report: October 5, 2022
Samples Submitted: September 21, 2022
Laboratory Reference: 2209-189
Project: 6694-002-05 T700

ANALYTICAL REPORT FOR SAMPLES

Client ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
Seep-1-220920	09-189-01	Water	9-20-22	9-21-22	

DRAFT



Date of Report: October 5, 2022
 Samples Submitted: September 21, 2022
 Laboratory Reference: 2209-189
 Project: 6694-002-05 T700

TOTAL METALS
EPA 200.8/200.7

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	Seep-1-220920					
Laboratory ID:	09-189-01					
Arsenic	ND	3.3	EPA 200.8	9-29-22	9-29-22	
Iron	2500	50	EPA 200.7	9-29-22	9-30-22	
Lead	ND	1.1	EPA 200.8	9-29-22	9-29-22	
Manganese	29	10	EPA 200.7	9-29-22	9-30-22	



Date of Report: October 5, 2022
 Samples Submitted: September 21, 2022
 Laboratory Reference: 2209-189
 Project: 6694-002-05 T700

**TOTAL ORGANIC CARBON
 SM 5310B**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	Seep-1-220920					
Laboratory ID:	09-189-01					
Total Organic Carbon	2.9	1.0	SM 5310B	9-29-22	9-29-22	



Date of Report: October 5, 2022
 Samples Submitted: September 21, 2022
 Laboratory Reference: 2209-189
 Project: 6694-002-05 T700

**TOTAL DISSOLVED SOLIDS
 SM 2540C**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	Seep-1-220920					
Laboratory ID:	09-189-01					
Total Dissolved Solids	180	13	SM 2540C	9-23-22	9-23-22	



Date of Report: October 5, 2022
Samples Submitted: September 21, 2022
Laboratory Reference: 2209-189
Project: 6694-002-05 T700

AMMONIA (as Nitrogen)
SM 4500-NH₃ D

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	Seep-1-220920					
Laboratory ID:	09-189-01					
Ammonia	ND	0.050	SM 4500-NH3 D	10-3-22	10-3-22	



Date of Report: October 5, 2022
 Samples Submitted: September 21, 2022
 Laboratory Reference: 2209-189
 Project: 6694-002-05 T700

**TOTAL METALS
 EPA 200.8/200.7
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0929WH2					
Iron	ND	50	EPA 200.7	9-29-22	9-30-22	
Manganese	ND	10	EPA 200.7	9-29-22	9-30-22	
METHOD BLANK						
Laboratory ID:	MB0929WM1					
Arsenic	ND	3.3	EPA 200.8	9-29-22	9-29-22	
Lead	ND	1.1	EPA 200.8	9-29-22	9-29-22	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	09-159-07							
	ORIG	DUP						
Iron	ND	ND	NA	NA	NA	NA	20	
Manganese	31.0	30.3	NA	NA	NA	2	20	
DUPLICATE								
Laboratory ID:	09-267-10							
Arsenic	ND	ND	NA	NA	NA	NA	20	
Lead	ND	ND	NA	NA	NA	NA	20	

MATRIX SPIKES

Laboratory ID:	09-159-07									
	MS	MSD	MS	MSD		MS	MSD			
Iron	22800	22600	20000	20000	ND	114	113	75-125	1	20
Manganese	540	537	500	500	31.0	102	101	75-125	1	20
MATRIX SPIKES										
Laboratory ID:	09-267-10									
Arsenic	101	101	111	111	ND	91	91	75-125	0	20
Lead	96.7	97.3	111	111	ND	87	88	75-125	1	20



Date of Report: October 5, 2022
 Samples Submitted: September 21, 2022
 Laboratory Reference: 2209-189
 Project: 6694-002-05 T700

**TOTAL ORGANIC CARBON
 SM 5310B
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0929W1					
Total Organic Carbon	ND	1.0	SM 5310B	9-29-22	9-29-22	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	09-165-01							
	ORIG	DUP						
Total Organic Carbon	5.31	5.31	NA	NA	NA	0	12	

MATRIX SPIKE								
Laboratory ID:	09-165-01							
	MS	MS		MS				
Total Organic Carbon	15.5	10.0	5.31	102	80-120	NA	NA	

SPIKE BLANK								
Laboratory ID:	SB0929W1							
	SB	SB		SB				
Total Organic Carbon	10.5	10.0	NA	105	80-118	NA	NA	



Date of Report: October 5, 2022
 Samples Submitted: September 21, 2022
 Laboratory Reference: 2209-189
 Project: 6694-002-05 T700

**TOTAL DISSOLVED SOLIDS
 SM 2540C
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0923W1					
Total Dissolved Solids	ND	13	SM 2540C	9-23-22	9-23-22	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	09-189-01							
	ORIG	DUP						
Total Dissolved Solids	175	175	NA	NA	NA	0	23	

SPIKE BLANK								
Laboratory ID:	SB0923W1							
	SB	SB		SB				
Total Dissolved Solids	528	500	NA	106	89-120	NA	NA	



Date of Report: October 5, 2022
 Samples Submitted: September 21, 2022
 Laboratory Reference: 2209-189
 Project: 6694-002-05 T700

**AMMONIA (as Nitrogen)
 SM 4500-NH₃ D
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1003W1					
Ammonia	ND	0.050	SM 4500-NH3 D	10-3-22	10-3-22	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	09-165-01							
	ORIG	DUP						
Ammonia	0.513	0.551	NA	NA	NA	NA	7	15

MATRIX SPIKE								
Laboratory ID:	09-165-01							
	MS	MS		MS				
Ammonia	5.63	5.00	0.513	102	87-110	NA	NA	

SPIKE BLANK								
Laboratory ID:	SB1003W1							
	SB	SB		SB				
Ammonia	5.22	5.00	NA	104	88-110	NA	NA	





Data Qualifiers and Abbreviations

- A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.
 - B - The analyte indicated was also found in the blank sample.
 - C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.
 - E - The value reported exceeds the quantitation range and is an estimate.
 - F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.
 - H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.
 - I - Compound recovery is outside of the control limits.
 - J - The value reported was below the practical quantitation limit. The value is an estimate.
 - K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.
 - L - The RPD is outside of the control limits.
 - M - Hydrocarbons in the gasoline range are impacting the diesel range result.
 - M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.
 - N - Hydrocarbons in the lube oil range are impacting the diesel range result.
 - N1 - Hydrocarbons in diesel range are impacting lube oil range results.
 - O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.
 - P - The RPD of the detected concentrations between the two columns is greater than 40.
 - Q - Surrogate recovery is outside of the control limits.
 - S - Surrogate recovery data is not available due to the necessary dilution of the sample.
 - T - The sample chromatogram is not similar to a typical _____.
 - U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
 - U1 - The practical quantitation limit is elevated due to interferences present in the sample.
 - V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.
 - W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.
 - X - Sample extract treated with a mercury cleanup procedure.
 - X1 - Sample extract treated with a sulfuric acid/silica gel cleanup procedure.
 - X2 - Sample extract treated with a silica gel cleanup procedure.
 - Y - The calibration verification for this analyte exceeded the 20% drift specified in methods 8260 & 8270, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.
 - Y1 - Negative effects of the matrix from this sample on the instrument caused values for this analyte in the bracketing continuing calibration verification standard (CCVs) to be outside of 20% acceptance criteria. Because of this, quantitation limits and sample concentrations should be considered estimates.
 - Z -
- ND - Not Detected at PQL
 PQL - Practical Quantitation Limit
 RPD - Relative Percent Difference





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October 4, 2022

Garrett Leque
GeoEngineers, Inc.
554 West Bakerview Road
Bellingham, WA 98226

Re: Analytical Data for Project 6694-002-05 T700
Laboratory Reference No. 2209-190

Dear Garrett:

Enclosed are the analytical results and associated quality control data for samples submitted on September 21, 2022.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

A handwritten signature in black ink, appearing to read "DB", with a long horizontal stroke extending to the right.

David Baumeister
Project Manager

Enclosures



OnSite Environmental, Inc. 14648 NE 95th Street, Redmond, WA 98052 (425) 883-3881

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: October 4, 2022
Samples Submitted: September 21, 2022
Laboratory Reference: 2209-190
Project: 6694-002-00 T700

Case Narrative

Samples were collected on September 20, 2022 and received by the laboratory on September 21, 2022. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.



Date of Report: October 4, 2022
Samples Submitted: September 21, 2022
Laboratory Reference: 2209-190
Project: 6694-002-00 T700

ANALYTICAL REPORT FOR SAMPLES

Client ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
SWS-1-220920	09-190-01	Water	9-20-22	9-21-22	

DRAFT



Date of Report: October 4, 2022
 Samples Submitted: September 21, 2022
 Laboratory Reference: 2209-190
 Project: 6694-002-00 T700

DIESEL AND HEAVY OIL RANGE ORGANICS
NWTPH-Dx

Matrix: Water
 Units: mg/L (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SWS-1-220920					
Laboratory ID:	09-190-01					
Diesel Range Organics	0.19	0.15	NWTPH-Dx	9-27-22	9-27-22	
Lube Oil Range Organics	0.23	0.20	NWTPH-Dx	9-27-22	9-27-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	91	50-150				



Date of Report: October 4, 2022
 Samples Submitted: September 21, 2022
 Laboratory Reference: 2209-190
 Project: 6694-002-00 T700

PAHs EPA 8270E/SIM

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SWS-1-220920					
Laboratory ID:	09-190-01					
Naphthalene	ND	0.098	EPA 8270E/SIM	9-22-22	9-22-22	
2-Methylnaphthalene	ND	0.098	EPA 8270E/SIM	9-22-22	9-22-22	
1-Methylnaphthalene	ND	0.098	EPA 8270E/SIM	9-22-22	9-22-22	
Acenaphthylene	ND	0.098	EPA 8270E/SIM	9-22-22	9-22-22	
Acenaphthene	0.86	0.098	EPA 8270E/SIM	9-22-22	9-22-22	
Fluorene	0.35	0.098	EPA 8270E/SIM	9-22-22	9-22-22	
Phenanthrene	ND	0.098	EPA 8270E/SIM	9-22-22	9-22-22	
Anthracene	ND	0.098	EPA 8270E/SIM	9-22-22	9-22-22	
Fluoranthene	0.16	0.098	EPA 8270E/SIM	9-22-22	9-22-22	
Pyrene	0.12	0.098	EPA 8270E/SIM	9-22-22	9-22-22	
Benzo[a]anthracene	ND	0.0098	EPA 8270E/SIM	9-22-22	9-22-22	
Chrysene	ND	0.0098	EPA 8270E/SIM	9-22-22	9-22-22	
Benzo[b]fluoranthene	ND	0.0098	EPA 8270E/SIM	9-22-22	9-22-22	
Benzo(j,k)fluoranthene	ND	0.0098	EPA 8270E/SIM	9-22-22	9-22-22	
Benzo[a]pyrene	ND	0.0098	EPA 8270E/SIM	9-22-22	9-22-22	
Indeno(1,2,3-c,d)pyrene	ND	0.0098	EPA 8270E/SIM	9-22-22	9-22-22	
Dibenz[a,h]anthracene	ND	0.0098	EPA 8270E/SIM	9-22-22	9-22-22	
Benzo[g,h,i]perylene	ND	0.0098	EPA 8270E/SIM	9-22-22	9-22-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
2-Fluorobiphenyl	46	20 - 106				
Pyrene-d10	81	19 - 104				
Terphenyl-d14	88	41 - 127				



Date of Report: October 4, 2022
 Samples Submitted: September 21, 2022
 Laboratory Reference: 2209-190
 Project: 6694-002-00 T700

TOTAL METALS
EPA 200.8/200.7

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SWS-1-220920					
Laboratory ID:	09-190-01					
Arsenic	ND	3.3	EPA 200.8	9-29-22	9-29-22	
Iron	7300	50	EPA 200.7	9-29-22	9-30-22	
Magnesium	27000	1000	EPA 200.7	9-29-22	9-30-22	
Manganese	1600	10	EPA 200.7	9-29-22	9-30-22	



Date of Report: October 4, 2022
Samples Submitted: September 21, 2022
Laboratory Reference: 2209-190
Project: 6694-002-00 T700

**TOTAL ORGANIC CARBON
SM 5310B**

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SWS-1-220920					
Laboratory ID:	09-190-01					
Total Organic Carbon	8.7	1.0	SM 5310B	9-29-22	9-29-22	



Date of Report: October 4, 2022
 Samples Submitted: September 21, 2022
 Laboratory Reference: 2209-190
 Project: 6694-002-00 T700

**TOTAL ALKALINITY
 SM 2320B**

Matrix: Water
 Units: mg CaCO₃/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SWS-1-220920					
Laboratory ID:	09-190-01					
Total Alkalinity	390	2.0	SM 2320B	9-29-22	9-29-22	

DRAFT



Date of Report: October 4, 2022
Samples Submitted: September 21, 2022
Laboratory Reference: 2209-190
Project: 6694-002-05 T700

**BICARBONATE
SM 2320B**

Matrix: Water
Units: mg CaCO₃/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SWS-1-220920					
Laboratory ID:	09-190-01					
Bicarbonate	390	2.0	SM 2320B	9-29-22	9-29-22	



Date of Report: October 4, 2022
Samples Submitted: September 21, 2022
Laboratory Reference: 2209-190
Project: 6694-002-00 T700

CHLORIDE
SM 4500-Cl E

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SWS-1-220920					
Laboratory ID:	09-190-01					
Chloride	6.6	2.0	SM 4500-Cl E	9-23-22	9-23-22	



Date of Report: October 4, 2022
Samples Submitted: September 21, 2022
Laboratory Reference: 2209-190
Project: 6694-002-00 T700

NITRATE (as Nitrogen)
EPA 353.2

Matrix: Water
Units: mg/L-N

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SWS-1-220920					
Laboratory ID:	09-190-01					
Nitrate	ND	0.050	EPA 353.2	9-21-22	9-21-22	



Date of Report: October 4, 2022
Samples Submitted: September 21, 2022
Laboratory Reference: 2209-190
Project: 6694-002-00 T700

SULFATE
ASTM D516-11

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SWS-1-220920					
Laboratory ID:	09-190-01					
Sulfate	ND	5.0	ASTM D516-11	9-26-22	9-26-22	



Date of Report: October 4, 2022
Samples Submitted: September 21, 2022
Laboratory Reference: 2209-190
Project: 6694-002-00 T700

**TOTAL DISSOLVED SOLIDS
SM 2540C**

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SWS-1-220920					
Laboratory ID:	09-190-01					
Total Dissolved Solids	430	13	SM 2540C	9-23-22	9-23-22	



Date of Report: October 4, 2022
Samples Submitted: September 21, 2022
Laboratory Reference: 2209-190
Project: 6694-002-00 T700

AMMONIA (as Nitrogen)
SM 4500-NH₃ D

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SWS-1-220920					
Laboratory ID:	09-190-01					
Ammonia	1.7	0.050	SM 4500-NH3 D	10-3-22	10-3-22	



Date of Report: October 4, 2022
 Samples Submitted: September 21, 2022
 Laboratory Reference: 2209-190
 Project: 6694-002-00 T700

**DIESEL AND HEAVY OIL RANGE ORGANICS
 NWTPH-Dx
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0927W1					
Diesel Range Organics	ND	0.12	NWTPH-Dx	9-27-22	9-27-22	
Lube Oil Range Organics	ND	0.16	NWTPH-Dx	9-27-22	9-27-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	89	50-150				

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	SB0927W1							
	ORIG	DUP						
Diesel Fuel #2	0.425	0.371	NA	NA	NA	NA	14	NA
<i>Surrogate:</i>								
<i>o-Terphenyl</i>				103	90	50-150		



Date of Report: October 4, 2022
 Samples Submitted: September 21, 2022
 Laboratory Reference: 2209-190
 Project: 6694-002-00 T700

**PAHs EPA 8270E/SIM
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0922W1					
Naphthalene	ND	0.10	EPA 8270E/SIM	9-22-22	9-22-22	
2-Methylnaphthalene	ND	0.10	EPA 8270E/SIM	9-22-22	9-22-22	
1-Methylnaphthalene	ND	0.10	EPA 8270E/SIM	9-22-22	9-22-22	
Acenaphthylene	ND	0.10	EPA 8270E/SIM	9-22-22	9-22-22	
Acenaphthene	ND	0.10	EPA 8270E/SIM	9-22-22	9-22-22	
Fluorene	ND	0.10	EPA 8270E/SIM	9-22-22	9-22-22	
Phenanthrene	ND	0.10	EPA 8270E/SIM	9-22-22	9-22-22	
Anthracene	ND	0.10	EPA 8270E/SIM	9-22-22	9-22-22	
Fluoranthene	ND	0.10	EPA 8270E/SIM	9-22-22	9-22-22	
Pyrene	ND	0.10	EPA 8270E/SIM	9-22-22	9-22-22	
Benzo[a]anthracene	ND	0.010	EPA 8270E/SIM	9-22-22	9-22-22	
Chrysene	ND	0.010	EPA 8270E/SIM	9-22-22	9-22-22	
Benzo[b]fluoranthene	ND	0.010	EPA 8270E/SIM	9-22-22	9-22-22	
Benzo(j,k)fluoranthene	ND	0.010	EPA 8270E/SIM	9-22-22	9-22-22	
Benzo[a]pyrene	ND	0.010	EPA 8270E/SIM	9-22-22	9-22-22	
Indeno(1,2,3-c,d)pyrene	ND	0.010	EPA 8270E/SIM	9-22-22	9-22-22	
Dibenz[a,h]anthracene	ND	0.010	EPA 8270E/SIM	9-22-22	9-22-22	
Benzo[g,h,i]perylene	ND	0.010	EPA 8270E/SIM	9-22-22	9-22-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
2-Fluorobiphenyl	42	20 - 106				
Pyrene-d10	58	19 - 104				
Terphenyl-d14	69	41 - 127				



Date of Report: October 4, 2022
 Samples Submitted: September 21, 2022
 Laboratory Reference: 2209-190
 Project: 6694-002-00 T700

**PAHs EPA 8270E/SIM
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD	RPD	Flags
					Recovery	Limits	Limit			
SPIKE BLANKS										
Laboratory ID:	SB0922W1									
	SB	SBD	SB	SBD	SB	SBD				
Naphthalene	0.271	0.307	0.500	0.500	54	61	25 - 82	12	39	
Acenaphthylene	0.304	0.328	0.500	0.500	61	66	35 - 107	8	26	
Acenaphthene	0.265	0.291	0.500	0.500	53	58	33 - 99	9	26	
Fluorene	0.293	0.329	0.500	0.500	59	66	43 - 95	12	24	
Phenanthrene	0.311	0.338	0.500	0.500	62	68	49 - 100	8	20	
Anthracene	0.313	0.340	0.500	0.500	63	68	47 - 101	8	21	
Fluoranthene	0.332	0.368	0.500	0.500	66	74	51 - 115	10	23	
Pyrene	0.347	0.374	0.500	0.500	69	75	53 - 117	7	24	
Benzo[a]anthracene	0.385	0.419	0.500	0.500	77	84	57 - 114	8	21	
Chrysene	0.377	0.396	0.500	0.500	75	79	55 - 119	5	21	
Benzo[b]fluoranthene	0.368	0.403	0.500	0.500	74	81	56 - 125	9	26	
Benzo(j,k)fluoranthene	0.388	0.401	0.500	0.500	78	80	53 - 124	3	22	
Benzo[a]pyrene	0.344	0.368	0.500	0.500	69	74	54 - 119	7	22	
Indeno(1,2,3-c,d)pyrene	0.401	0.432	0.500	0.500	80	86	55 - 118	7	23	
Dibenz[a,h]anthracene	0.371	0.397	0.500	0.500	74	79	56 - 118	7	23	
Benzo[g,h,i]perylene	0.363	0.386	0.500	0.500	73	77	55 - 117	6	22	
<i>Surrogate:</i>										
2-Fluorobiphenyl					51	56	20 - 106			
Pyrene-d10					65	71	19 - 104			
Terphenyl-d14					76	80	41 - 127			



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**TOTAL METALS
 EPA 200.8/200.7
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0929WH2					
Iron	ND	50	EPA 200.7	9-29-22	9-30-22	
Magnesium	ND	1000	EPA 200.7	9-29-22	9-30-22	
Manganese	ND	10	EPA 200.7	9-29-22	9-30-22	
METHOD BLANK						
Laboratory ID:	MB0929WM1					
Arsenic	ND	3.3	EPA 200.8	9-29-22	9-29-22	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	09-159-07							
	ORIG	DUP						
Iron	ND	ND	NA	NA	NA	NA	20	
Magnesium	16200	16800	NA	NA	NA	4	20	
Manganese	31.0	30.3	NA	NA	NA	2	20	
DUPLICATE								
Laboratory ID:	09-267-10							
Arsenic	ND	ND	NA	NA	NA	NA	20	

MATRIX SPIKES

Laboratory ID:	09-159-07									
	MS	MSD	MS	MSD		MS	MSD			
Iron	22800	22600	20000	20000	ND	114	113	75-125	1	20
Magnesium	36800	35800	20000	20000	16200	103	98	75-125	3	20
Manganese	540	537	500	500	31.0	102	101	75-125	1	20
MATRIX SPIKES										
Laboratory ID:	09-267-10									
Arsenic	101	101	111	111	ND	91	91	75-125	0	20



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**TOTAL ORGANIC CARBON
 SM 5310B
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0929W1					
Total Organic Carbon	ND	1.0	SM 5310B	9-29-22	9-29-22	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	09-165-01							
	ORIG	DUP						
Total Organic Carbon	5.31	5.31	NA	NA	NA	0	12	

MATRIX SPIKE								
Laboratory ID:	09-165-01							
	MS	MS		MS				
Total Organic Carbon	15.5	10.0	5.31	102	80-120	NA	NA	

SPIKE BLANK								
Laboratory ID:	SB0929W1							
	SB	SB		SB				
Total Organic Carbon	10.5	10.0	NA	105	80-118	NA	NA	



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**TOTAL ALKALINITY
 SM 2320B
 QUALITY CONTROL**

Matrix: Water
 Units: mg CaCO₃/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0929W1					
Total Alkalinity	ND	2.0	SM 2320B	9-29-22	9-29-22	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	09-190-01							
	ORIG	DUP						
Total Alkalinity	392	392	NA	NA	NA	0	10	

SPIKE BLANK								
Laboratory ID:	SB0929W1							
	SB	SB		SB				
Total Alkalinity	94.0	100	NA	94	89-110	NA	NA	



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**BICARBONATE
 SM 2320B
 QUALITY CONTROL**

Matrix: Water
 Units: mg CaCO₃/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0929W1					
Bicarbonate	ND	2.0	SM 2320B	9-29-22	9-29-22	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	09-190-01							
	ORIG	DUP						
Bicarbonate	392	392	NA	NA	NA	0	10	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANK								
Laboratory ID:	SB0929W1							
	SB	SB		SB				
Bicarbonate	94.0	100	NA	94	89-110	NA	NA	



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**CHLORIDE
 SM 4500-Cl E
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0923W1					
Chloride	ND	2.0	SM 4500-Cl E	9-23-22	9-23-22	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	09-198-01							
	ORIG	DUP						
Chloride	5.20	5.75	NA	NA	NA	10	11	

MATRIX SPIKE								
Laboratory ID:	09-198-01							
	MS	MS		MS				
Chloride	54.5	50.0	5.20	99	90-121	NA	NA	

SPIKE BLANK								
Laboratory ID:	SB0923W1							
	SB	SB		SB				
Chloride	50.7	50.0	NA	101	90-119	NA	NA	



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**NITRATE (as Nitrogen)
 EPA 353.2
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L-N

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0921W2					
Nitrate	ND	0.050	EPA 353.2	9-21-22	9-21-22	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	09-042-01							
	ORIG	DUP						
Nitrate	0.0912	0.0870	NA	NA	NA	5	10	

MATRIX SPIKE								
Laboratory ID:	09-042-01							
	MS	MS		MS				
Nitrate	2.21	2.00	0.0912	106	88-125	NA	NA	

SPIKE BLANK								
Laboratory ID:	SB0921W2							
	SB	SB		SB				
Nitrate	2.21	2.00	NA	111	90-120	NA	NA	



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**SULFATE
 ASTM D516-11
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0926W1					
Sulfate	ND	5.0	ASTM D516-11	9-26-22	9-26-22	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	09-203-01							
	ORIG	DUP						
Sulfate	15.9	16.0	NA	NA	NA	1	10	

MATRIX SPIKE								
Laboratory ID:	09-203-01							
	MS	MS		MS				
Sulfate	24.2	10.0	15.9	83	72-128	NA	NA	

SPIKE BLANK								
Laboratory ID:	SB0926W1							
	SB	SB		SB				
Sulfate	9.73	10.0	NA	97	85-114	NA	NA	



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**TOTAL DISSOLVED SOLIDS
 SM 2540C
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0923W1					
Total Dissolved Solids	ND	13	SM 2540C	9-23-22	9-23-22	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	09-189-01							
	ORIG	DUP						
Total Dissolved Solids	175	175	NA	NA	NA	0	23	

SPIKE BLANK								
Laboratory ID:	SB0923W1							
	SB	SB		SB				
Total Dissolved Solids	528	500	NA	106	89-120	NA	NA	



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**AMMONIA (as Nitrogen)
 SM 4500-NH₃ D
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1003W2					
Ammonia	ND	0.050	SM 4500-NH ₃ D	10-3-22	10-3-22	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	09-190-01							
	ORIG	DUP						
Ammonia	1.71	1.54	NA	NA	NA	10	15	

MATRIX SPIKE								
Laboratory ID:	09-190-01							
	MS	MS		MS				
Ammonia	6.61	5.00	1.71	98	87-110	NA	NA	

SPIKE BLANK								
Laboratory ID:	SB1003W2							
	SB	SB		SB				
Ammonia	5.02	5.00	NA	100	88-110	NA	NA	





Data Qualifiers and Abbreviations

- A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.
 - B - The analyte indicated was also found in the blank sample.
 - C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.
 - E - The value reported exceeds the quantitation range and is an estimate.
 - F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.
 - H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.
 - I - Compound recovery is outside of the control limits.
 - J - The value reported was below the practical quantitation limit. The value is an estimate.
 - K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.
 - L - The RPD is outside of the control limits.
 - M - Hydrocarbons in the gasoline range are impacting the diesel range result.
 - M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.
 - N - Hydrocarbons in the lube oil range are impacting the diesel range result.
 - N1 - Hydrocarbons in diesel range are impacting lube oil range results.
 - O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.
 - P - The RPD of the detected concentrations between the two columns is greater than 40.
 - Q - Surrogate recovery is outside of the control limits.
 - S - Surrogate recovery data is not available due to the necessary dilution of the sample.
 - T - The sample chromatogram is not similar to a typical _____.
 - U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
 - U1 - The practical quantitation limit is elevated due to interferences present in the sample.
 - V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.
 - W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.
 - X - Sample extract treated with a mercury cleanup procedure.
 - X1 - Sample extract treated with a sulfuric acid/silica gel cleanup procedure.
 - Y - The calibration verification for this analyte exceeded the 20% drift specified in methods 8260 & 8270, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.
 - Z -
- ND - Not Detected at PQL
 PQL - Practical Quantitation Limit
 RPD - Relative Percent Difference





14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

October 5, 2022

Garrett Leque
GeoEngineers, Inc.
554 West Bakerview Road
Bellingham, WA 98226

Re: Analytical Data for Project 6694-002-05 T700
Laboratory Reference No. 2209-191

Dear Garrett:

Enclosed are the analytical results and associated quality control data for samples submitted on September 21, 2022.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

A handwritten signature in black ink, appearing to read "DB", with a long horizontal stroke extending to the right.

David Baumeister
Project Manager

Enclosures



OnSite Environmental, Inc. 14648 NE 95th Street, Redmond, WA 98052 (425) 883-3881

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: October 5, 2022
Samples Submitted: September 21, 2022
Laboratory Reference: 2209-191
Project: 6694-002-00 T700

Case Narrative

Samples were collected on September 20, 2022 and received by the laboratory on September 21, 2022. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

DRAFT



Date of Report: October 5, 2022
Samples Submitted: September 21, 2022
Laboratory Reference: 2209-191
Project: 6694-002-00 T700

ANALYTICAL REPORT FOR SAMPLES

Client ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
MW-3-20220920	09-191-01	Water	9-20-22	9-21-22	
MW-8-20220920	09-191-02	Water	9-20-22	9-21-22	

DRAFT



Date of Report: October 5, 2022
 Samples Submitted: September 21, 2022
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 Project: 6694-002-00 T700

PAHs EPA 8270E/SIM

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-8-20220920					
Laboratory ID:	09-191-02					
Naphthalene	ND	0.095	EPA 8270E/SIM	9-22-22	9-22-22	
2-Methylnaphthalene	ND	0.095	EPA 8270E/SIM	9-22-22	9-22-22	
1-Methylnaphthalene	ND	0.095	EPA 8270E/SIM	9-22-22	9-22-22	
Acenaphthylene	ND	0.095	EPA 8270E/SIM	9-22-22	9-22-22	
Acenaphthene	ND	0.095	EPA 8270E/SIM	9-22-22	9-22-22	
Fluorene	ND	0.095	EPA 8270E/SIM	9-22-22	9-22-22	
Phenanthrene	ND	0.095	EPA 8270E/SIM	9-22-22	9-22-22	
Anthracene	ND	0.095	EPA 8270E/SIM	9-22-22	9-22-22	
Fluoranthene	ND	0.095	EPA 8270E/SIM	9-22-22	9-22-22	
Pyrene	ND	0.095	EPA 8270E/SIM	9-22-22	9-22-22	
Benzo[a]anthracene	ND	0.0095	EPA 8270E/SIM	9-22-22	9-22-22	
Chrysene	ND	0.0095	EPA 8270E/SIM	9-22-22	9-22-22	
Benzo[b]fluoranthene	ND	0.0095	EPA 8270E/SIM	9-22-22	9-22-22	
Benzo(j,k)fluoranthene	ND	0.0095	EPA 8270E/SIM	9-22-22	9-22-22	
Benzo[a]pyrene	ND	0.0095	EPA 8270E/SIM	9-22-22	9-22-22	
Indeno(1,2,3-c,d)pyrene	ND	0.0095	EPA 8270E/SIM	9-22-22	9-22-22	
Dibenz[a,h]anthracene	ND	0.0095	EPA 8270E/SIM	9-22-22	9-22-22	
Benzo[g,h,i]perylene	ND	0.0095	EPA 8270E/SIM	9-22-22	9-22-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
2-Fluorobiphenyl	49	20 - 106				
Pyrene-d10	79	19 - 104				
Terphenyl-d14	74	41 - 127				



Date of Report: October 5, 2022
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**TOTAL ORGANIC CARBON
 SM 5310B**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-3-20220920					
Laboratory ID:	09-191-01					
Total Organic Carbon	ND	1.0	SM 5310B	9-29-22	9-29-22	
Client ID:	MW-8-20220920					
Laboratory ID:	09-191-02					
Total Organic Carbon	1.6	1.0	SM 5310B	9-29-22	9-29-22	



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**TOTAL ALKALINITY
 SM 2320B**

Matrix: Water
 Units: mg CaCO₃/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-3-20220920					
Laboratory ID:	09-191-01					
Total Alkalinity	110	2.0	SM 2320B	9-29-22	9-29-22	

Client ID:	MW-8-20220920					
Laboratory ID:	09-191-02					
Total Alkalinity	180	2.0	SM 2320B	9-29-22	9-29-22	



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**BICARBONATE
 SM 2320B**

Matrix: Water
 Units: mg CaCO₃/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-3-20220920					
Laboratory ID:	09-191-01					
Bicarbonate	110	2.0	SM 2320B	9-29-22	9-29-22	
Client ID:	MW-8-20220920					
Laboratory ID:	09-191-02					
Bicarbonate	180	2.0	SM 2320B	9-29-22	9-29-22	



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**CHLORIDE
 SM 4500-Cl E**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-3-20220920					
Laboratory ID:	09-191-01					
Chloride	6.0	2.0	SM 4500-Cl E	9-23-22	9-23-22	
Client ID:	MW-8-20220920					
Laboratory ID:	09-191-02					
Chloride	4.1	2.0	SM 4500-Cl E	9-23-22	9-23-22	



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NITRATE (as Nitrogen)
EPA 353.2

Matrix: Water
 Units: mg/L-N

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-3-20220920					
Laboratory ID:	09-191-01					
Nitrate	ND	0.050	EPA 353.2	9-21-22	9-21-22	
Client ID:	MW-8-20220920					
Laboratory ID:	09-191-02					
Nitrate	ND	0.050	EPA 353.2	9-21-22	9-21-22	



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SULFATE
ASTM D516-11

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-3-20220920					
Laboratory ID:	09-191-01					
Sulfate	13	5.0	ASTM D516-11	9-26-22	9-26-22	
Client ID:	MW-8-20220920					
Laboratory ID:	09-191-02					
Sulfate	60	25	ASTM D516-11	9-26-22	9-26-22	



Date of Report: October 5, 2022
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**TOTAL DISSOLVED SOLIDS
 SM 2540C**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-3-20220920					
Laboratory ID:	09-191-01					
Total Dissolved Solids	160	13	SM 2540C	9-23-22	9-23-22	
Client ID:	MW-8-20220920					
Laboratory ID:	09-191-02					
Total Dissolved Solids	270	13	SM 2540C	9-23-22	9-23-22	



Date of Report: October 5, 2022
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AMMONIA (as Nitrogen)
SM 4500-NH₃ D

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-3-20220920					
Laboratory ID:	09-191-01					
Ammonia	0.050	0.050	SM 4500-NH3 D	10-5-22	10-5-22	
Client ID:	MW-8-20220920					
Laboratory ID:	09-191-02					
Ammonia	ND	0.050	SM 4500-NH3 D	10-5-22	10-5-22	



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DISSOLVED METALS
EPA 200.8/200.7

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-3-20220920					
Laboratory ID:	09-191-01					
Arsenic	3.4	3.0	EPA 200.8		9-29-22	
Calcium	23000	1100	EPA 200.7		9-28-22	
Iron	ND	56	EPA 200.7		9-29-22	
Magnesium	14000	1100	EPA 200.7		9-29-22	
Manganese	140	11	EPA 200.7		9-28-22	
Potassium	2200	1100	EPA 200.7		9-29-22	
Sodium	7400	1100	EPA 200.7		9-28-22	

Client ID:	MW-8-20220920					
Laboratory ID:	09-191-02					
Arsenic	ND	3.0	EPA 200.8		9-29-22	
Calcium	32000	1100	EPA 200.7		9-28-22	
Iron	ND	56	EPA 200.7		9-29-22	
Magnesium	39000	1100	EPA 200.7		9-29-22	
Manganese	1300	11	EPA 200.7		9-28-22	
Potassium	3800	1100	EPA 200.7		9-29-22	
Sodium	8700	1100	EPA 200.7		9-28-22	



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TOTAL METALS
EPA 200.8/200.7

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-3-20220920					
Laboratory ID:	09-191-01					
Arsenic	ND	3.3	EPA 200.8	9-29-22	9-29-22	
Iron	610	50	EPA 200.7	9-29-22	9-30-22	
Magnesium	13000	1000	EPA 200.7	9-29-22	9-30-22	
Manganese	160	10	EPA 200.7	9-29-22	9-30-22	

Client ID:	MW-8-20220920					
Laboratory ID:	09-191-02					
Arsenic	ND	3.3	EPA 200.8	9-29-22	9-29-22	
Iron	1100	50	EPA 200.7	9-29-22	9-30-22	
Magnesium	34000	1000	EPA 200.7	9-29-22	9-30-22	
Manganese	1400	10	EPA 200.7	9-29-22	9-30-22	



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**PAHs EPA 8270E/SIM
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0922W1					
Naphthalene	ND	0.10	EPA 8270E/SIM	9-22-22	9-22-22	
2-Methylnaphthalene	ND	0.10	EPA 8270E/SIM	9-22-22	9-22-22	
1-Methylnaphthalene	ND	0.10	EPA 8270E/SIM	9-22-22	9-22-22	
Acenaphthylene	ND	0.10	EPA 8270E/SIM	9-22-22	9-22-22	
Acenaphthene	ND	0.10	EPA 8270E/SIM	9-22-22	9-22-22	
Fluorene	ND	0.10	EPA 8270E/SIM	9-22-22	9-22-22	
Phenanthrene	ND	0.10	EPA 8270E/SIM	9-22-22	9-22-22	
Anthracene	ND	0.10	EPA 8270E/SIM	9-22-22	9-22-22	
Fluoranthene	ND	0.10	EPA 8270E/SIM	9-22-22	9-22-22	
Pyrene	ND	0.10	EPA 8270E/SIM	9-22-22	9-22-22	
Benzo[a]anthracene	ND	0.010	EPA 8270E/SIM	9-22-22	9-22-22	
Chrysene	ND	0.010	EPA 8270E/SIM	9-22-22	9-22-22	
Benzo[b]fluoranthene	ND	0.010	EPA 8270E/SIM	9-22-22	9-22-22	
Benzo(j,k)fluoranthene	ND	0.010	EPA 8270E/SIM	9-22-22	9-22-22	
Benzo[a]pyrene	ND	0.010	EPA 8270E/SIM	9-22-22	9-22-22	
Indeno(1,2,3-c,d)pyrene	ND	0.010	EPA 8270E/SIM	9-22-22	9-22-22	
Dibenz[a,h]anthracene	ND	0.010	EPA 8270E/SIM	9-22-22	9-22-22	
Benzo[g,h,i]perylene	ND	0.010	EPA 8270E/SIM	9-22-22	9-22-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>2-Fluorobiphenyl</i>	<i>42</i>	<i>20 - 106</i>				
<i>Pyrene-d10</i>	<i>58</i>	<i>19 - 104</i>				
<i>Terphenyl-d14</i>	<i>69</i>	<i>41 - 127</i>				



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**PAHs EPA 8270E/SIM
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD	RPD	Flags
					Recovery	Limits	RPD	Limit		
SPIKE BLANKS										
Laboratory ID:	SB0922W1									
	SB	SBD	SB	SBD	SB	SBD				
Naphthalene	0.271	0.307	0.500	0.500	54	61	25 - 82	12	39	
Acenaphthylene	0.304	0.328	0.500	0.500	61	66	35 - 107	8	26	
Acenaphthene	0.265	0.291	0.500	0.500	53	58	33 - 99	9	26	
Fluorene	0.293	0.329	0.500	0.500	59	66	43 - 95	12	24	
Phenanthrene	0.311	0.338	0.500	0.500	62	68	49 - 100	8	20	
Anthracene	0.313	0.340	0.500	0.500	63	68	47 - 101	8	21	
Fluoranthene	0.332	0.368	0.500	0.500	66	74	51 - 115	10	23	
Pyrene	0.347	0.374	0.500	0.500	69	75	53 - 117	7	24	
Benzo[a]anthracene	0.385	0.419	0.500	0.500	77	84	57 - 114	8	21	
Chrysene	0.377	0.396	0.500	0.500	75	79	55 - 119	5	21	
Benzo[b]fluoranthene	0.368	0.403	0.500	0.500	74	81	56 - 125	9	26	
Benzo(j,k)fluoranthene	0.388	0.401	0.500	0.500	78	80	53 - 124	3	22	
Benzo[a]pyrene	0.344	0.368	0.500	0.500	69	74	54 - 119	7	22	
Indeno(1,2,3-c,d)pyrene	0.401	0.432	0.500	0.500	80	86	55 - 118	7	23	
Dibenz[a,h]anthracene	0.371	0.397	0.500	0.500	74	79	56 - 118	7	23	
Benzo[g,h,i]perylene	0.363	0.386	0.500	0.500	73	77	55 - 117	6	22	
<i>Surrogate:</i>										
2-Fluorobiphenyl					51	56	20 - 106			
Pyrene-d10					65	71	19 - 104			
Terphenyl-d14					76	80	41 - 127			



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**TOTAL ORGANIC CARBON
 SM 5310B
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0929W1					
Total Organic Carbon	ND	1.0	SM 5310B	9-29-22	9-29-22	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	09-165-01							
	ORIG	DUP						
Total Organic Carbon	5.31	5.31	NA	NA	NA	0	12	

MATRIX SPIKE								
Laboratory ID:	09-165-01							
	MS	MS		MS				
Total Organic Carbon	15.5	10.0	5.31	102	80-120	NA	NA	

SPIKE BLANK								
Laboratory ID:	SB0929W1							
	SB	SB		SB				
Total Organic Carbon	10.5	10.0	NA	105	80-118	NA	NA	



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**TOTAL ALKALINITY
 SM 2320B
 QUALITY CONTROL**

Matrix: Water
 Units: mg CaCO₃/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0929W1					
Total Alkalinity	ND	2.0	SM 2320B	9-29-22	9-29-22	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	09-190-01							
	ORIG	DUP						
Total Alkalinity	392	392	NA	NA	NA	0	10	

SPIKE BLANK								
Laboratory ID:	SB0929W1							
	SB	SB		SB				
Total Alkalinity	94.0	100	NA	94	89-110	NA	NA	



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**BICARBONATE
 SM 2320B
 QUALITY CONTROL**

Matrix: Water
 Units: mg CaCO₃/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0929W1					
Bicarbonate	ND	2.0	SM 2320B	9-29-22	9-29-22	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	09-190-01							
	ORIG	DUP						
Bicarbonate	392	392	NA	NA	NA	0	10	

SPIKE BLANK								
Laboratory ID:	SB0929W1							
	SB	SB		SB				
Bicarbonate	94.0	100	NA	94	89-110	NA	NA	



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**CHLORIDE
 SM 4500-Cl E
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0923W1					
Chloride	ND	2.0	SM 4500-Cl E	9-23-22	9-23-22	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	09-198-01							
	ORIG	DUP						
Chloride	5.20	5.75	NA	NA	NA	10	11	

MATRIX SPIKE								
Laboratory ID:	09-198-01							
	MS	MS		MS				
Chloride	54.5	50.0	5.20	99	90-121	NA	NA	

SPIKE BLANK								
Laboratory ID:	SB0923W1							
	SB	SB		SB				
Chloride	50.7	50.0	NA	101	90-119	NA	NA	



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**NITRATE (as Nitrogen)
 EPA 353.2
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L-N

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0921W2					
Nitrate	ND	0.050	EPA 353.2	9-21-22	9-21-22	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	09-042-01							
	ORIG	DUP						
Nitrate	0.0912	0.0870	NA	NA	NA	5	10	

MATRIX SPIKE								
Laboratory ID:	09-042-01							
	MS	MS		MS				
Nitrate	2.21	2.00	0.0912	106	88-125	NA	NA	

SPIKE BLANK								
Laboratory ID:	SB0921W2							
	SB	SB		SB				
Nitrate	2.21	2.00	NA	111	90-120	NA	NA	



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**SULFATE
 ASTM D516-11
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0926W1					
Sulfate	ND	5.0	ASTM D516-11	9-26-22	9-26-22	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	09-203-01							
	ORIG	DUP						
Sulfate	15.9	16.0	NA	NA	NA	1	10	

MATRIX SPIKE								
Laboratory ID:	09-203-01							
	MS	MS		MS				
Sulfate	24.2	10.0	15.9	83	72-128	NA	NA	

SPIKE BLANK								
Laboratory ID:	SB0926W1							
	SB	SB		SB				
Sulfate	9.73	10.0	NA	97	85-114	NA	NA	



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**TOTAL DISSOLVED SOLIDS
 SM 2540C
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0923W1					
Total Dissolved Solids	ND	13	SM 2540C	9-23-22	9-23-22	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	09-189-01							
	ORIG	DUP						
Total Dissolved Solids	175	175	NA	NA	NA	0	23	

SPIKE BLANK								
Laboratory ID:	SB0923W1							
	SB	SB		SB				
Total Dissolved Solids	528	500	NA	106	89-120	NA	NA	



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AMMONIA (as Nitrogen)
SM 4500-NH₃ D
QUALITY CONTROL

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1005W1					
Ammonia	ND	0.050	SM 4500-NH3 D	10-5-22	10-5-22	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	09-253-01							
	ORIG	DUP						
Ammonia	ND	ND	NA	NA	NA	NA	15	

MATRIX SPIKE								
Laboratory ID:	09-253-01							
	MS	MS		MS				
Ammonia	4.92	5.00	ND	98	87-110	NA	NA	

SPIKE BLANK								
Laboratory ID:	SB1005W1							
	SB	SB		SB				
Ammonia	4.98	5.00	NA	100	88-110	NA	NA	



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**DISSOLVED METALS
 EPA 200.8/200.7
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0928D1					
Calcium	ND	1100	EPA 200.7		9-28-22	
Manganese	ND	11	EPA 200.7		9-28-22	
Sodium	ND	1100	EPA 200.7		9-28-22	
Laboratory ID:	MB0929D1					
Arsenic	ND	3.0	EPA 200.8		9-29-22	
Laboratory ID:	MB0929D1					
Iron	ND	56	EPA 200.7		9-28-22	
Magnesium	ND	1100	EPA 200.7		9-28-22	
Potassium	ND	1100	EPA 200.7		9-29-22	



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**DISSOLVED METALS
 EPA 200.8/200.7
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags		
DUPLICATE										
Laboratory ID:	09-191-01									
	ORIG	DUP								
Iron	ND	ND	NA	NA	NA	NA	NA	20		
Magnesium	14300	14300	NA	NA	NA	NA	0	20		
Potassium	2220	2220	NA	NA	NA	NA	0	20		
Laboratory ID:	09-261-02									
	ORIG	DUP								
Calcium	16000	17200	NA	NA	NA	NA	7	20		
Manganese	93.6	100	NA	NA	NA	NA	7	20		
Sodium	12400	13300	NA	NA	NA	NA	7	20		
Laboratory ID:	09-294-01									
Arsenic	ND	ND	NA	NA	NA	NA	NA	20		
MATRIX SPIKES										
Laboratory ID:	09-191-01									
	MS	MSD	MS	MSD	MS	MSD				
Iron	24900	24800	22200	22200	ND	112	112	75-125	0	20
Magnesium	38900	38900	22200	22200	14300	111	111	75-125	0	20
Potassium	27200	27000	22200	22200	2220	113	112	75-125	1	20
Laboratory ID:	09-261-02									
	MS	MSD	MS	MSD	MS	MSD				
Calcium	34900	41600	22200	22200	16000	85	116	75-125	18	20
Manganese	697	611	556	556	93.6	109	93	75-125	13	20
Sodium	31400	37700	22200	22200	12400	86	114	75-125	18	20
Laboratory ID:	09-294-01									
Arsenic	76.6	75.8	80.0	80.0	ND	96	95	75-125	1	20



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**TOTAL METALS
 EPA 200.8/200.7
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0929WH2					
Iron	ND	50	EPA 200.7	9-29-22	9-30-22	
Magnesium	ND	1000	EPA 200.7	9-29-22	9-30-22	
Manganese	ND	10	EPA 200.7	9-29-22	9-30-22	
METHOD BLANK						
Laboratory ID:	MB0929WM1					
Arsenic	ND	3.3	EPA 200.8	9-29-22	9-29-22	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	09-159-07							
	ORIG	DUP						
Iron	ND	ND	NA	NA	NA	NA	20	
Magnesium	16200	16800	NA	NA	NA	4	20	
Manganese	31.0	30.3	NA	NA	NA	2	20	
DUPLICATE								
Laboratory ID:	09-267-10							
Arsenic	ND	ND	NA	NA	NA	NA	20	

MATRIX SPIKES

Laboratory ID:	09-159-07									
	MS	MSD	MS	MSD		MS	MSD			
Iron	22800	22600	20000	20000	ND	114	113	75-125	1	20
Magnesium	36800	35800	20000	20000	16200	103	98	75-125	3	20
Manganese	540	537	500	500	31.0	102	101	75-125	1	20
MATRIX SPIKES										
Laboratory ID:	09-267-10									
Arsenic	101	101	111	111	ND	91	91	75-125	0	20





Data Qualifiers and Abbreviations

- A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.
- B - The analyte indicated was also found in the blank sample.
- C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.
- E - The value reported exceeds the quantitation range and is an estimate.
- F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.
- H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.
- I - Compound recovery is outside of the control limits.
- J - The value reported was below the practical quantitation limit. The value is an estimate.
- K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.
- L - The RPD is outside of the control limits.
- M - Hydrocarbons in the gasoline range are impacting the diesel range result.
- M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.
- N - Hydrocarbons in the lube oil range are impacting the diesel range result.
- N1 - Hydrocarbons in diesel range are impacting lube oil range results.
- O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.
- P - The RPD of the detected concentrations between the two columns is greater than 40.
- Q - Surrogate recovery is outside of the control limits.
- S - Surrogate recovery data is not available due to the necessary dilution of the sample.
- T - The sample chromatogram is not similar to a typical _____.
- U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
- U1 - The practical quantitation limit is elevated due to interferences present in the sample.
- V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.
- W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.
- X - Sample extract treated with a mercury cleanup procedure.
- X1 - Sample extract treated with a sulfuric acid/silica gel cleanup procedure.
- Y - The calibration verification for this analyte exceeded the 20% drift specified in methods 8260 & 8270, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.

Z -

ND - Not Detected at PQL
 PQL - Practical Quantitation Limit
 RPD - Relative Percent Difference



Chain of Custody

Company: GeoEngineers

Project Number: 6694-002-05

Project Name: Go East

Project Manager: Garrett Leque

Sampled by: BRIAN ANDERSON

Turnaround Request (in working days)

(Check One)

Same Day 1 Day

2 Days 3 Days

Standard (7 Days)
(TPH analysis 5 Days)

_____ (other)

Laboratory Number: **09-191**

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	NWTPH-Gx	NWTPH-Dx	Volatiles 8260B	PAHs 8270D, SIM (low-level)	Organochlorine Pesticides 8081A	TOC, alk+bi-carb, Cl, NO3, SO4, TDS, NH3	TOC, TDS, NH3	T/D metals	T/D metals	☉metals	Total metals	% Moisture	
1	MW-3-20220920	9-20-22	1200	GW	6													
2	MW-8-20220920	9-20-22	1415	GW	8				P	X								

	Signature	Company	Date	Time	Comments/Special Instructions
Relinquished	<i>Brian Anderson</i>	GEENGINEERS	9-21-22	0915	TOTAL METALS: As, Fe, Mg, Mn
Received	<i>Josh Le</i>	Alpha	9-21-22	0930	DISSOLVED METALS:
Relinquished	<i>Josh Le</i>	Alpha	9-21	1210	As, Fe, Mg, Mn, Ca, K, Na
Received	<i>Nichelle</i>	OSE	9/21/22	1240	DISSOLVED
Relinquished					TOTAL METALS - FIELD FILTERED
Received					
Reviewed/Date		Reviewed/Date			Chromatograms with final report <input type="checkbox"/>



14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

October 5, 2022

Garrett Leque
GeoEngineers, Inc.
554 West Bakerview Road
Bellingham, WA 98226

Re: Analytical Data for Project 6694-002-05 T700
Laboratory Reference No. 2209-198

Dear Garrett:

Enclosed are the analytical results and associated quality control data for samples submitted on September 22, 2022.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

A handwritten signature in black ink, appearing to read "DB", is written over a large, light gray "DRAFT" watermark that is oriented diagonally across the page.

David Baumeister
Project Manager

Enclosures



Date of Report: October 5, 2022
Samples Submitted: September 22, 2022
Laboratory Reference: 2209-198
Project: 6694-002-05 T700

Case Narrative

Samples were collected on September 21, 2022 and received by the laboratory on September 22, 2022. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.



Date of Report: October 5, 2022
Samples Submitted: September 22, 2022
Laboratory Reference: 2209-198
Project: 6694-002-05 T700

ANALYTICAL REPORT FOR SAMPLES

Client ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
MW-7-20220921	09-198-01	Water	9-21-22	9-22-22	
MW-6-20220921	09-198-02	Water	9-21-22	9-22-22	

DRAFT



Date of Report: October 5, 2022
 Samples Submitted: September 22, 2022
 Laboratory Reference: 2209-198
 Project: 6694-002-05 T700

PAHs EPA 8270E/SIM

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-7-20220921					
Laboratory ID:	09-198-01					
Naphthalene	ND	0.095	EPA 8270E/SIM	9-27-22	9-27-22	
2-Methylnaphthalene	ND	0.095	EPA 8270E/SIM	9-27-22	9-27-22	
1-Methylnaphthalene	ND	0.095	EPA 8270E/SIM	9-27-22	9-27-22	
Acenaphthylene	ND	0.095	EPA 8270E/SIM	9-27-22	9-27-22	
Acenaphthene	ND	0.095	EPA 8270E/SIM	9-27-22	9-27-22	
Fluorene	ND	0.095	EPA 8270E/SIM	9-27-22	9-27-22	
Phenanthrene	ND	0.095	EPA 8270E/SIM	9-27-22	9-27-22	
Anthracene	ND	0.095	EPA 8270E/SIM	9-27-22	9-27-22	
Fluoranthene	ND	0.095	EPA 8270E/SIM	9-27-22	9-27-22	
Pyrene	ND	0.095	EPA 8270E/SIM	9-27-22	9-27-22	
Benzo[a]anthracene	ND	0.0095	EPA 8270E/SIM	9-27-22	9-27-22	
Chrysene	ND	0.0095	EPA 8270E/SIM	9-27-22	9-27-22	
Benzo[b]fluoranthene	ND	0.0095	EPA 8270E/SIM	9-27-22	9-27-22	
Benzo(j,k)fluoranthene	ND	0.0095	EPA 8270E/SIM	9-27-22	9-27-22	
Benzo[a]pyrene	ND	0.0095	EPA 8270E/SIM	9-27-22	9-27-22	
Indeno(1,2,3-c,d)pyrene	ND	0.0095	EPA 8270E/SIM	9-27-22	9-27-22	
Dibenz[a,h]anthracene	ND	0.0095	EPA 8270E/SIM	9-27-22	9-27-22	
Benzo[g,h,i]perylene	ND	0.0095	EPA 8270E/SIM	9-27-22	9-27-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>2-Fluorobiphenyl</i>	<i>58</i>	<i>20 - 106</i>				
<i>Pyrene-d10</i>	<i>70</i>	<i>19 - 104</i>				
<i>Terphenyl-d14</i>	<i>86</i>	<i>41 - 127</i>				



Date of Report: October 5, 2022
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 Project: 6694-002-05 T700

PAHs EPA 8270E/SIM

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-6-20220921					
Laboratory ID:	09-198-02					
Naphthalene	ND	0.095	EPA 8270E/SIM	9-27-22	9-27-22	
2-Methylnaphthalene	ND	0.095	EPA 8270E/SIM	9-27-22	9-27-22	
1-Methylnaphthalene	ND	0.095	EPA 8270E/SIM	9-27-22	9-27-22	
Acenaphthylene	ND	0.095	EPA 8270E/SIM	9-27-22	9-27-22	
Acenaphthene	ND	0.095	EPA 8270E/SIM	9-27-22	9-27-22	
Fluorene	ND	0.095	EPA 8270E/SIM	9-27-22	9-27-22	
Phenanthrene	ND	0.095	EPA 8270E/SIM	9-27-22	9-27-22	
Anthracene	ND	0.095	EPA 8270E/SIM	9-27-22	9-27-22	
Fluoranthene	ND	0.095	EPA 8270E/SIM	9-27-22	9-27-22	
Pyrene	ND	0.095	EPA 8270E/SIM	9-27-22	9-27-22	
Benzo[a]anthracene	ND	0.0095	EPA 8270E/SIM	9-27-22	9-27-22	
Chrysene	ND	0.0095	EPA 8270E/SIM	9-27-22	9-27-22	
Benzo[b]fluoranthene	ND	0.0095	EPA 8270E/SIM	9-27-22	9-27-22	
Benzo(j,k)fluoranthene	ND	0.0095	EPA 8270E/SIM	9-27-22	9-27-22	
Benzo[a]pyrene	ND	0.0095	EPA 8270E/SIM	9-27-22	9-27-22	
Indeno(1,2,3-c,d)pyrene	ND	0.0095	EPA 8270E/SIM	9-27-22	9-27-22	
Dibenz[a,h]anthracene	ND	0.0095	EPA 8270E/SIM	9-27-22	9-27-22	
Benzo[g,h,i]perylene	ND	0.0095	EPA 8270E/SIM	9-27-22	9-27-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
2-Fluorobiphenyl	56	20 - 106				
Pyrene-d10	72	19 - 104				
Terphenyl-d14	86	41 - 127				



Date of Report: October 5, 2022
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**TOTAL ORGANIC CARBON
 SM 5310B**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-7-20220921					
Laboratory ID:	09-198-01					
Total Organic Carbon	ND	1.0	SM 5310B	9-29-22	9-29-22	
Client ID:	MW-6-20220921					
Laboratory ID:	09-198-02					
Total Organic Carbon	3.7	1.0	SM 5310B	9-29-22	9-29-22	



Date of Report: October 5, 2022
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**TOTAL ALKALINITY
 SM 2320B**

Matrix: Water
 Units: mg CaCO₃/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-7-20220921					
Laboratory ID:	09-198-01					
Total Alkalinity	100	2.0	SM 2320B	9-29-22	9-29-22	
Client ID:	MW-6-20220921					
Laboratory ID:	09-198-02					
Total Alkalinity	190	2.0	SM 2320B	9-29-22	9-29-22	



Date of Report: October 5, 2022
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**BICARBONATE
 SM 2320B**

Matrix: Water
 Units: mg CaCO₃/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-7-20220921					
Laboratory ID:	09-198-01					
Total Alkalinity	100	2.0	SM 2320B	9-29-22	9-29-22	
Client ID:	MW-6-20220921					
Laboratory ID:	09-198-02					
Total Alkalinity	190	2.0	SM 2320B	9-29-22	9-29-22	



Date of Report: October 5, 2022
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**CHLORIDE
 SM 4500-Cl E**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-7-20220921					
Laboratory ID:	09-198-01					
Chloride	5.2	2.0	SM 4500-Cl E	9-23-22	9-23-22	
Client ID:	MW-6-20220921					
Laboratory ID:	09-198-02					
Chloride	5.3	2.0	SM 4500-Cl E	9-23-22	9-23-22	



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NITRATE (as Nitrogen)
EPA 353.2

Matrix: Water
 Units: mg/L-N

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-7-20220921					
Laboratory ID:	09-198-01					
Nitrate	0.50	0.050	EPA 353.2	9-22-22	9-22-22	
Client ID:	MW-6-20220921					
Laboratory ID:	09-198-02					
Nitrate	0.074	0.050	EPA 353.2	9-22-22	9-22-22	



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SULFATE
ASTM D516-11

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-7-20220921					
Laboratory ID:	09-198-01					
Sulfate	6.9	5.0	ASTM D516-11	9-26-22	9-26-22	

Client ID:	MW-6-20220921					
Laboratory ID:	09-198-02					
Sulfate	18	5.0	ASTM D516-11	9-26-22	9-26-22	



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**TOTAL DISSOLVED SOLIDS
 SM 2540C**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-7-20220921					
Laboratory ID:	09-198-01					
Total Dissolved Solids	140	13	SM 2540C	9-23-22	9-23-22	

Client ID:	MW-6-20220921					
Laboratory ID:	09-198-02					
Total Dissolved Solids	230	13	SM 2540C	9-23-22	9-23-22	



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AMMONIA (as Nitrogen)
SM 4500-NH₃ D

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-7-20220921					
Laboratory ID:	09-198-01					
Ammonia	ND	0.050	SM 4500-NH3 D	10-5-22	10-5-22	
Client ID:	MW-6-20220921					
Laboratory ID:	09-198-02					
Ammonia	0.10	0.050	SM 4500-NH3 D	10-5-22	10-5-22	



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TOTAL METALS
EPA 200.8/200.7

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-7-20220921					
Laboratory ID:	09-198-01					
Arsenic	8.8	3.3	EPA 200.8	9-29-22	9-29-22	
Iron	3000	50	EPA 200.7	9-29-22	9-30-22	
Magnesium	14000	1000	EPA 200.7	9-29-22	9-30-22	
Manganese	190	10	EPA 200.7	9-29-22	9-30-22	

Client ID:	MW-6-20220921					
Laboratory ID:	09-198-02					
Arsenic	5.7	3.3	EPA 200.8	9-29-22	9-29-22	
Iron	510	50	EPA 200.7	9-29-22	9-30-22	
Magnesium	21000	1000	EPA 200.7	9-29-22	9-30-22	
Manganese	1700	10	EPA 200.7	9-29-22	9-30-22	



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DISSOLVED METALS
EPA 200.8/200.7

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-7-20220921					
Laboratory ID:	09-198-01					
Arsenic	9.1	3.0	EPA 200.8		9-29-22	
Calcium	20000	1100	EPA 200.7		9-28-22	
Iron	ND	56	EPA 200.7		9-29-22	
Magnesium	14000	1100	EPA 200.7		9-29-22	
Manganese	74	11	EPA 200.7		9-28-22	
Potassium	2200	1100	EPA 200.7		9-29-22	
Sodium	6200	1100	EPA 200.7		9-28-22	

Client ID:	MW-6-20220921					
Laboratory ID:	09-198-02					
Arsenic	5.6	3.0	EPA 200.8		9-29-22	
Calcium	37000	1100	EPA 200.7		9-28-22	
Iron	330	56	EPA 200.7		9-29-22	
Magnesium	23000	1100	EPA 200.7		9-29-22	
Manganese	1700	11	EPA 200.7		9-28-22	
Potassium	2600	1100	EPA 200.7		9-29-22	
Sodium	13000	1100	EPA 200.7		9-28-22	



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**PAHs EPA 8270E/SIM
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0927W1					
Naphthalene	ND	0.10	EPA 8270E/SIM	9-27-22	9-27-22	
2-Methylnaphthalene	ND	0.10	EPA 8270E/SIM	9-27-22	9-27-22	
1-Methylnaphthalene	ND	0.10	EPA 8270E/SIM	9-27-22	9-27-22	
Acenaphthylene	ND	0.10	EPA 8270E/SIM	9-27-22	9-27-22	
Acenaphthene	ND	0.10	EPA 8270E/SIM	9-27-22	9-27-22	
Fluorene	ND	0.10	EPA 8270E/SIM	9-27-22	9-27-22	
Phenanthrene	ND	0.10	EPA 8270E/SIM	9-27-22	9-27-22	
Anthracene	ND	0.10	EPA 8270E/SIM	9-27-22	9-27-22	
Fluoranthene	ND	0.10	EPA 8270E/SIM	9-27-22	9-27-22	
Pyrene	ND	0.10	EPA 8270E/SIM	9-27-22	9-27-22	
Benzo[a]anthracene	ND	0.010	EPA 8270E/SIM	9-27-22	9-27-22	
Chrysene	ND	0.010	EPA 8270E/SIM	9-27-22	9-27-22	
Benzo[b]fluoranthene	ND	0.010	EPA 8270E/SIM	9-27-22	9-27-22	
Benzo(j,k)fluoranthene	ND	0.010	EPA 8270E/SIM	9-27-22	9-27-22	
Benzo[a]pyrene	ND	0.010	EPA 8270E/SIM	9-27-22	9-27-22	
Indeno(1,2,3-c,d)pyrene	ND	0.010	EPA 8270E/SIM	9-27-22	9-27-22	
Dibenz[a,h]anthracene	ND	0.010	EPA 8270E/SIM	9-27-22	9-27-22	
Benzo[g,h,i]perylene	ND	0.010	EPA 8270E/SIM	9-27-22	9-27-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>2-Fluorobiphenyl</i>	<i>54</i>	<i>20 - 106</i>				
<i>Pyrene-d10</i>	<i>72</i>	<i>19 - 104</i>				
<i>Terphenyl-d14</i>	<i>86</i>	<i>41 - 127</i>				



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**PAHs EPA 8270E/SIM
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD	RPD	Flags
					Recovery	Limits	RPD	Limit		
SPIKE BLANKS										
Laboratory ID:	SB0927W1									
	SB	SBD	SB	SBD	SB	SBD				
Naphthalene	0.297	0.270	0.500	0.500	59	54	25 - 82	10	39	
Acenaphthylene	0.310	0.299	0.500	0.500	62	60	35 - 107	4	26	
Acenaphthene	0.295	0.286	0.500	0.500	59	57	33 - 99	3	26	
Fluorene	0.330	0.315	0.500	0.500	66	63	43 - 95	5	24	
Phenanthrene	0.334	0.316	0.500	0.500	67	63	49 - 100	6	20	
Anthracene	0.325	0.301	0.500	0.500	65	60	47 - 101	8	21	
Fluoranthene	0.334	0.312	0.500	0.500	67	62	51 - 115	7	23	
Pyrene	0.349	0.329	0.500	0.500	70	66	53 - 117	6	24	
Benzo[a]anthracene	0.395	0.362	0.500	0.500	79	72	57 - 114	9	21	
Chrysene	0.376	0.341	0.500	0.500	75	68	55 - 119	10	21	
Benzo[b]fluoranthene	0.381	0.397	0.500	0.500	76	79	56 - 125	4	26	
Benzo(j,k)fluoranthene	0.446	0.375	0.500	0.500	89	75	53 - 124	17	22	
Benzo[a]pyrene	0.367	0.338	0.500	0.500	73	68	54 - 119	8	22	
Indeno(1,2,3-c,d)pyrene	0.438	0.404	0.500	0.500	88	81	55 - 118	8	23	
Dibenz[a,h]anthracene	0.389	0.355	0.500	0.500	78	71	56 - 118	9	23	
Benzo[g,h,i]perylene	0.345	0.312	0.500	0.500	69	62	55 - 117	10	22	
<i>Surrogate:</i>										
2-Fluorobiphenyl					51	47	20 - 106			
Pyrene-d10					67	62	19 - 104			
Terphenyl-d14					81	74	41 - 127			



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**TOTAL ORGANIC CARBON
 SM 5310B
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0929W1					
Total Organic Carbon	ND	1.0	SM 5310B	9-29-22	9-29-22	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	09-165-01							
	ORIG	DUP						
Total Organic Carbon	5.31	5.31	NA	NA	NA	0	12	

MATRIX SPIKE								
Laboratory ID:	09-165-01							
	MS	MS		MS				
Total Organic Carbon	15.5	10.0	5.31	102	80-120	NA	NA	

SPIKE BLANK								
Laboratory ID:	SB0929W1							
	SB	SB		SB				
Total Organic Carbon	10.5	10.0	NA	105	80-118	NA	NA	



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**TOTAL ALKALINITY
 SM 2320B
 QUALITY CONTROL**

Matrix: Water
 Units: mg CaCO₃/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0929W1					
Total Alkalinity	ND	2.0	SM 2320B	9-29-22	9-29-22	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	09-190-01							
	ORIG	DUP						
Total Alkalinity	392	392	NA	NA	NA	0	10	

SPIKE BLANK								
Laboratory ID:	SB0929W1							
	SB	SB		SB				
Total Alkalinity	94.0	100	NA	94	89-110	NA	NA	



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**BICARBONATE
 SM 2320B
 QUALITY CONTROL**

Matrix: Water
 Units: mg CaCO₃/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0929W1					
Bicarbonate	ND	2.0	SM 2320B	9-29-22	9-29-22	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	09-190-01							
	ORIG	DUP						
Total Alkalinity	392	392	NA	NA	NA	NA	0	10

SPIKE BLANK								
Laboratory ID:	SB0929W1							
	SB	SB		SB				
Total Alkalinity	94.0	100	NA	94	89-110	NA	NA	



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**CHLORIDE
 SM 4500-Cl E
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0923W1					
Chloride	ND	2.0	SM 4500-Cl E	9-23-22	9-23-22	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	09-198-01							
	ORIG	DUP						
Chloride	5.20	5.75	NA	NA	NA	10	11	

MATRIX SPIKE								
Laboratory ID:	09-198-01							
	MS	MS		MS				
Chloride	54.5	50.0	5.20	99	90-121	NA	NA	

SPIKE BLANK								
Laboratory ID:	SB0923W1							
	SB	SB		SB				
Chloride	50.7	50.0	NA	101	90-119	NA	NA	



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**NITRATE (as Nitrogen)
 EPA 353.2
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L-N

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0922W2					
Nitrate	ND	0.050	EPA 353.2	9-22-22	9-22-22	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	09-060-01							
	ORIG	DUP						
Nitrate	0.149	0.146	NA	NA	NA	2	10	

MATRIX SPIKE								
Laboratory ID:	09-060-01							
	MS	MS		MS				
Nitrate	1.97	2.00	0.149	91	88-125	NA	NA	

SPIKE BLANK								
Laboratory ID:	SB0922W2							
	SB	SB		SB				
Nitrate	2.01	2.00	NA	101	90-120	NA	NA	



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 Project: 6694-002-05 T700

**SULFATE
 ASTM D516-11
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0926W1					
Sulfate	ND	5.0	ASTM D516-11	9-26-22	9-26-22	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	09-203-01							
	ORIG	DUP						
Sulfate	15.9	16.0	NA	NA	NA	1	10	

MATRIX SPIKE								
Laboratory ID:	09-203-01							
	MS	MS		MS				
Sulfate	24.2	10.0	15.9	83	72-128	NA	NA	

SPIKE BLANK								
Laboratory ID:	SB0926W1							
	SB	SB		SB				
Sulfate	9.73	10.0	NA	97	85-114	NA	NA	



Date of Report: October 5, 2022
 Samples Submitted: September 22, 2022
 Laboratory Reference: 2209-198
 Project: 6694-002-05 T700

**TOTAL DISSOLVED SOLIDS
 SM 2540C
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0923W1					
Total Dissolved Solids	ND	13	SM 2540C	9-23-22	9-23-22	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	09-189-01							
	ORIG	DUP						
Total Dissolved Solids	175	175	NA	NA	NA	0	23	

SPIKE BLANK								
Laboratory ID:	SB0923W1							
	SB	SB		SB				
Total Dissolved Solids	528	500	NA	106	89-120	NA	NA	



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 Project: 6694-002-05 T700

**AMMONIA (as Nitrogen)
 SM 4500-NH₃ D
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1005W1					
Ammonia	ND	0.050	SM 4500-NH3 D	10-5-22	10-5-22	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	09-253-01							
	ORIG	DUP						
Ammonia	ND	ND	NA	NA	NA	NA	15	

MATRIX SPIKE								
Laboratory ID:	09-253-01							
	MS	MS		MS				
Ammonia	4.92	5.00	ND	98	87-110	NA	NA	

SPIKE BLANK								
Laboratory ID:	SB1005W1							
	SB	SB		SB				
Ammonia	4.98	5.00	NA	100	88-110	NA	NA	



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**TOTAL METALS
 EPA 200.8/200.7
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0929WH2					
Iron	ND	50	EPA 200.7	9-29-22	9-30-22	
Magnesium	ND	1000	EPA 200.7	9-29-22	9-30-22	
Manganese	ND	10	EPA 200.7	9-29-22	9-30-22	
METHOD BLANK						
Laboratory ID:	MB0929WM1					
Arsenic	ND	3.3	EPA 200.8	9-29-22	9-29-22	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	09-159-07							
	ORIG	DUP						
Iron	ND	ND	NA	NA	NA	NA	20	
Magnesium	16200	16800	NA	NA	NA	4	20	
Manganese	31.0	30.3	NA	NA	NA	2	20	
DUPLICATE								
Laboratory ID:	09-267-10							
Arsenic	ND	ND	NA	NA	NA	NA	20	

MATRIX SPIKES

Laboratory ID:	09-159-07									
	MS	MSD	MS	MSD		MS	MSD			
Iron	22800	22600	20000	20000	ND	114	113	75-125	1	20
Magnesium	36800	35800	20000	20000	16200	103	98	75-125	3	20
Manganese	540	537	500	500	31.0	102	101	75-125	1	20
MATRIX SPIKES										
Laboratory ID:	09-267-10									
Arsenic	101	101	111	111	ND	91	91	75-125	0	20



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**DISSOLVED METALS
 EPA 200.8/200.7
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0928D1					
Calcium	ND	1100	EPA 200.7		9-28-22	
Manganese	ND	11	EPA 200.7		9-28-22	
Sodium	ND	1100	EPA 200.7		9-28-22	
Laboratory ID:	MB0929D1					
Arsenic	ND	3.0	EPA 200.8		9-29-22	
Laboratory ID:	MB0929D1					
Iron	ND	56	EPA 200.7		9-28-22	
Magnesium	ND	1100	EPA 200.7		9-28-22	
Potassium	ND	1100	EPA 200.7		9-29-22	



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**DISSOLVED METALS
 EPA 200.8/200.7
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags		
DUPLICATE										
Laboratory ID:	09-191-01									
	ORIG	DUP								
Iron	ND	ND	NA	NA	NA	NA	20			
Magnesium	14300	14300	NA	NA	NA	0	20			
Potassium	2220	2220	NA	NA	NA	0	20			
Laboratory ID:	09-261-02									
	ORIG	DUP								
Calcium	16000	17200	NA	NA	NA	7	20			
Manganese	93.6	100	NA	NA	NA	7	20			
Sodium	12400	13300	NA	NA	NA	7	20			
Laboratory ID:	09-294-01									
Arsenic	ND	ND	NA	NA	NA	NA	20			
MATRIX SPIKES										
Laboratory ID:	09-191-01									
	MS	MSD	MS	MSD	MS	MSD				
Iron	24900	24800	22200	22200	ND	112	112	75-125	0	20
Magnesium	38900	38900	22200	22200	14300	111	111	75-125	0	20
Potassium	27200	27000	22200	22200	2220	113	112	75-125	1	20
Laboratory ID:	09-261-02									
	MS	MSD	MS	MSD	MS	MSD				
Calcium	34900	41600	22200	22200	16000	85	116	75-125	18	20
Manganese	697	611	556	556	93.6	109	93	75-125	13	20
Sodium	31400	37700	22200	22200	12400	86	114	75-125	18	20
Laboratory ID:	09-294-01									
Arsenic	76.6	75.8	80.0	80.0	ND	96	95	75-125	1	20





Data Qualifiers and Abbreviations

- A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.
 - B - The analyte indicated was also found in the blank sample.
 - C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.
 - E - The value reported exceeds the quantitation range and is an estimate.
 - F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.
 - H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.
 - I - Compound recovery is outside of the control limits.
 - J - The value reported was below the practical quantitation limit. The value is an estimate.
 - K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.
 - L - The RPD is outside of the control limits.
 - M - Hydrocarbons in the gasoline range are impacting the diesel range result.
 - M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.
 - N - Hydrocarbons in the lube oil range are impacting the diesel range result.
 - N1 - Hydrocarbons in diesel range are impacting lube oil range results.
 - O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.
 - P - The RPD of the detected concentrations between the two columns is greater than 40.
 - Q - Surrogate recovery is outside of the control limits.
 - S - Surrogate recovery data is not available due to the necessary dilution of the sample.
 - T - The sample chromatogram is not similar to a typical _____.
 - U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
 - U1 - The practical quantitation limit is elevated due to interferences present in the sample.
 - V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.
 - W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.
 - X - Sample extract treated with a mercury cleanup procedure.
 - X1 - Sample extract treated with a sulfuric acid/silica gel cleanup procedure.
 - X2 - Sample extract treated with a silica gel cleanup procedure.
 - Y - The calibration verification for this analyte exceeded the 20% drift specified in methods 8260 & 8270, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.
 - Y1 - Negative effects of the matrix from this sample on the instrument caused values for this analyte in the bracketing continuing calibration verification standard (CCVs) to be outside of 20% acceptance criteria. Because of this, quantitation limits and sample concentrations should be considered estimates.
 - Z -
- ND - Not Detected at PQL
 PQL - Practical Quantitation Limit
 RPD - Relative Percent Difference





14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

October 4, 2022

Garrett Leque
GeoEngineers, Inc.
554 West Bakerview Road
Bellingham, WA 98226

Re: Analytical Data for Project 6694-002-05 T700
Laboratory Reference No. 2209-199

Dear Garrett:

Enclosed are the analytical results and associated quality control data for samples submitted on September 22, 2022.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

A handwritten signature in black ink, appearing to read "DB", with a horizontal line extending to the right.

David Baumeister
Project Manager

Enclosures



Date of Report: October 4, 2022
Samples Submitted: September 22, 2022
Laboratory Reference: 2209-199
Project: 6694-002-00 T700

Case Narrative

Samples were collected on September 21, 2022 and received by the laboratory on September 22, 2022. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.



Date of Report: October 4, 2022
Samples Submitted: September 22, 2022
Laboratory Reference: 2209-199
Project: 6694-002-00 T700

ANALYTICAL REPORT FOR SAMPLES

Client ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
MW-10-220921	09-199-01	Water	9-21-22	9-22-22	

DRAFT



Date of Report: October 4, 2022
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 Project: 6694-002-00 T700

GASOLINE RANGE ORGANICS
NWTPH-Gx

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-10-220921					
Laboratory ID:	09-199-01					
Gasoline	ND	100	NWTPH-Gx	9-23-22	9-23-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	94	65-122				



Date of Report: October 4, 2022
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DIESEL AND HEAVY OIL RANGE ORGANICS
NWTPH-Dx

Matrix: Water
 Units: mg/L (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-10-220921					
Laboratory ID:	09-199-01					
Diesel Range Organics	0.16	0.15	NWTPH-Dx	9-27-22	9-27-22	
Lube Oil Range Organics	0.32	0.20	NWTPH-Dx	9-27-22	9-27-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	87	50-150				



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VOLATILE ORGANICS EPA 8260D

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Matrix: Water

Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-10-220921					
Laboratory ID:	09-199-01					
Dichlorodifluoromethane	ND	0.30	EPA 8260D	9-23-22	9-23-22	
Chloromethane	ND	1.0	EPA 8260D	9-23-22	9-23-22	
Vinyl Chloride	ND	0.20	EPA 8260D	9-23-22	9-23-22	
Bromomethane	ND	1.3	EPA 8260D	9-23-22	9-23-22	
Chloroethane	ND	1.0	EPA 8260D	9-23-22	9-23-22	
Trichlorofluoromethane	ND	0.20	EPA 8260D	9-23-22	9-23-22	
1,1-Dichloroethene	ND	0.20	EPA 8260D	9-23-22	9-23-22	
Acetone	ND	5.0	EPA 8260D	9-23-22	9-23-22	
Iodomethane	ND	5.0	EPA 8260D	9-23-22	9-23-22	
Carbon Disulfide	ND	0.20	EPA 8260D	9-23-22	9-23-22	
Methylene Chloride	ND	1.0	EPA 8260D	9-23-22	9-23-22	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	9-23-22	9-23-22	
Methyl t-Butyl Ether	ND	0.20	EPA 8260D	9-23-22	9-23-22	
1,1-Dichloroethane	ND	0.20	EPA 8260D	9-23-22	9-23-22	
Vinyl Acetate	ND	1.0	EPA 8260D	9-23-22	9-23-22	
2,2-Dichloropropane	ND	0.20	EPA 8260D	9-23-22	9-23-22	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	9-23-22	9-23-22	
2-Butanone	ND	5.0	EPA 8260D	9-23-22	9-23-22	
Bromochloromethane	ND	0.20	EPA 8260D	9-23-22	9-23-22	
Chloroform	ND	0.20	EPA 8260D	9-23-22	9-23-22	
1,1,1-Trichloroethane	ND	0.20	EPA 8260D	9-23-22	9-23-22	
Carbon Tetrachloride	ND	0.20	EPA 8260D	9-23-22	9-23-22	
1,1-Dichloropropene	ND	0.20	EPA 8260D	9-23-22	9-23-22	
Benzene	ND	0.20	EPA 8260D	9-23-22	9-23-22	
1,2-Dichloroethane	ND	0.20	EPA 8260D	9-23-22	9-23-22	
Trichloroethene	ND	0.20	EPA 8260D	9-23-22	9-23-22	
1,2-Dichloropropane	ND	0.20	EPA 8260D	9-23-22	9-23-22	
Dibromomethane	ND	0.20	EPA 8260D	9-23-22	9-23-22	
Bromodichloromethane	ND	0.20	EPA 8260D	9-23-22	9-23-22	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260D	9-23-22	9-23-22	
Methyl Isobutyl Ketone	ND	2.0	EPA 8260D	9-23-22	9-23-22	
Toluene	ND	1.0	EPA 8260D	9-23-22	9-23-22	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260D	9-23-22	9-23-22	



OnSite Environmental, Inc. 14648 NE 95th Street, Redmond, WA 98052 (425) 883-3881

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: October 4, 2022
 Samples Submitted: September 22, 2022
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VOLATILE ORGANICS EPA 8260D
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-10-220921					
Laboratory ID:	09-199-01					
1,1,2-Trichloroethane	ND	0.20	EPA 8260D	9-23-22	9-23-22	
Tetrachloroethene	ND	0.20	EPA 8260D	9-23-22	9-23-22	
1,3-Dichloropropane	ND	0.20	EPA 8260D	9-23-22	9-23-22	
2-Hexanone	ND	2.0	EPA 8260D	9-23-22	9-23-22	
Dibromochloromethane	ND	0.20	EPA 8260D	9-23-22	9-23-22	
1,2-Dibromoethane	ND	0.20	EPA 8260D	9-23-22	9-23-22	
Chlorobenzene	ND	0.20	EPA 8260D	9-23-22	9-23-22	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260D	9-23-22	9-23-22	
Ethylbenzene	ND	0.20	EPA 8260D	9-23-22	9-23-22	
m,p-Xylene	ND	0.40	EPA 8260D	9-23-22	9-23-22	
o-Xylene	ND	0.20	EPA 8260D	9-23-22	9-23-22	
Styrene	ND	0.20	EPA 8260D	9-23-22	9-23-22	
Bromoform	ND	1.0	EPA 8260D	9-23-22	9-23-22	
Isopropylbenzene	ND	0.20	EPA 8260D	9-23-22	9-23-22	
Bromobenzene	ND	0.20	EPA 8260D	9-23-22	9-23-22	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260D	9-23-22	9-23-22	
1,2,3-Trichloropropane	ND	0.20	EPA 8260D	9-23-22	9-23-22	
n-Propylbenzene	ND	0.20	EPA 8260D	9-23-22	9-23-22	
2-Chlorotoluene	ND	0.20	EPA 8260D	9-23-22	9-23-22	
4-Chlorotoluene	ND	0.20	EPA 8260D	9-23-22	9-23-22	
1,3,5-Trimethylbenzene	ND	0.20	EPA 8260D	9-23-22	9-23-22	
tert-Butylbenzene	ND	0.20	EPA 8260D	9-23-22	9-23-22	
1,2,4-Trimethylbenzene	ND	0.20	EPA 8260D	9-23-22	9-23-22	
sec-Butylbenzene	ND	0.20	EPA 8260D	9-23-22	9-23-22	
1,3-Dichlorobenzene	ND	0.20	EPA 8260D	9-23-22	9-23-22	
p-Isopropyltoluene	ND	0.20	EPA 8260D	9-23-22	9-23-22	
1,4-Dichlorobenzene	ND	0.20	EPA 8260D	9-23-22	9-23-22	
1,2-Dichlorobenzene	ND	0.20	EPA 8260D	9-23-22	9-23-22	
n-Butylbenzene	ND	0.20	EPA 8260D	9-23-22	9-23-22	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260D	9-23-22	9-23-22	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260D	9-23-22	9-23-22	
Hexachlorobutadiene	ND	1.0	EPA 8260D	9-23-22	9-23-22	
Naphthalene	ND	1.0	EPA 8260D	9-23-22	9-23-22	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260D	9-23-22	9-23-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>88</i>	<i>75-127</i>				
<i>Toluene-d8</i>	<i>99</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>104</i>	<i>78-125</i>				



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 Project: 6694-002-00 T700

PAHs EPA 8270E/SIM

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-10-220921					
Laboratory ID:	09-199-01					
Naphthalene	ND	0.094	EPA 8270E/SIM	9-27-22	9-27-22	
2-Methylnaphthalene	ND	0.094	EPA 8270E/SIM	9-27-22	9-27-22	
1-Methylnaphthalene	ND	0.094	EPA 8270E/SIM	9-27-22	9-27-22	
Acenaphthylene	ND	0.094	EPA 8270E/SIM	9-27-22	9-27-22	
Acenaphthene	0.29	0.094	EPA 8270E/SIM	9-27-22	9-27-22	
Fluorene	ND	0.094	EPA 8270E/SIM	9-27-22	9-27-22	
Phenanthrene	ND	0.094	EPA 8270E/SIM	9-27-22	9-27-22	
Anthracene	ND	0.094	EPA 8270E/SIM	9-27-22	9-27-22	
Fluoranthene	ND	0.094	EPA 8270E/SIM	9-27-22	9-27-22	
Pyrene	ND	0.094	EPA 8270E/SIM	9-27-22	9-27-22	
Benzo[a]anthracene	ND	0.0094	EPA 8270E/SIM	9-27-22	9-27-22	
Chrysene	ND	0.0094	EPA 8270E/SIM	9-27-22	9-27-22	
Benzo[b]fluoranthene	ND	0.0094	EPA 8270E/SIM	9-27-22	9-27-22	
Benzo(j,k)fluoranthene	ND	0.0094	EPA 8270E/SIM	9-27-22	9-27-22	
Benzo[a]pyrene	ND	0.0094	EPA 8270E/SIM	9-27-22	9-27-22	
Indeno(1,2,3-c,d)pyrene	ND	0.0094	EPA 8270E/SIM	9-27-22	9-27-22	
Dibenz[a,h]anthracene	ND	0.0094	EPA 8270E/SIM	9-27-22	9-27-22	
Benzo[g,h,i]perylene	ND	0.0094	EPA 8270E/SIM	9-27-22	9-27-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
2-Fluorobiphenyl	43	20 - 106				
Pyrene-d10	60	19 - 104				
Terphenyl-d14	78	41 - 127				



Date of Report: October 4, 2022
 Samples Submitted: September 22, 2022
 Laboratory Reference: 2209-199
 Project: 6694-002-00 T700

**ORGANOCHLORINE
 PESTICIDES EPA 8081B**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-10-220921					
Laboratory ID:	09-199-01					
alpha-BHC	ND	0.0048	EPA 8081B	9-28-22	9-28-22	
gamma-BHC	ND	0.0048	EPA 8081B	9-28-22	9-28-22	
beta-BHC	ND	0.0048	EPA 8081B	9-28-22	9-28-22	
delta-BHC	ND	0.0048	EPA 8081B	9-28-22	9-28-22	
Heptachlor	ND	0.0048	EPA 8081B	9-28-22	9-28-22	
Aldrin	ND	0.0019	EPA 8081B	9-28-22	9-28-22	
Heptachlor epoxide	ND	0.0029	EPA 8081B	9-28-22	9-28-22	
gamma-Chlordane	ND	0.0048	EPA 8081B	9-28-22	9-28-22	
alpha-Chlordane	ND	0.0048	EPA 8081B	9-28-22	9-28-22	
4,4'-DDE	ND	0.0048	EPA 8081B	9-28-22	9-28-22	
Endosulfan I	ND	0.0048	EPA 8081B	9-28-22	9-28-22	
Dieldrin	ND	0.0048	EPA 8081B	9-28-22	9-28-22	
Endrin	ND	0.0048	EPA 8081B	9-28-22	9-28-22	
4,4'-DDD	ND	0.0048	EPA 8081B	9-28-22	9-28-22	
Endosulfan II	ND	0.0048	EPA 8081B	9-28-22	9-28-22	
4,4'-DDT	ND	0.0048	EPA 8081B	9-28-22	9-28-22	
Endrin aldehyde	ND	0.0048	EPA 8081B	9-28-22	9-28-22	
Methoxychlor	ND	0.0096	EPA 8081B	9-28-22	9-28-22	
Endosulfan sulfate	ND	0.0048	EPA 8081B	9-28-22	9-28-22	
Endrin ketone	ND	0.019	EPA 8081B	9-28-22	9-28-22	
Toxaphene	ND	0.048	EPA 8081B	9-28-22	9-28-22	
Tech Chlordane	ND	0.048	EPA 8081B	9-28-22	9-28-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control limits</i>				
<i>Tetrachloro-m-xylene</i>	<i>57</i>	<i>21-110</i>				
<i>Decachlorobiphenyl</i>	<i>85</i>	<i>42-113</i>				



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TOTAL METALS
EPA 200.8/200.7/7470A

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-10-220921					
Laboratory ID:	09-199-01					
Arsenic	ND	3.3	EPA 200.8	9-29-22	9-29-22	
Cadmium	ND	4.4	EPA 200.8	9-29-22	9-29-22	
Chromium	ND	11	EPA 200.8	9-29-22	9-29-22	
Copper	ND	11	EPA 200.8	9-29-22	9-29-22	
Iron	6400	50	EPA 200.7	9-29-22	9-30-22	
Lead	ND	1.1	EPA 200.8	9-29-22	9-29-22	
Magnesium	26000	1000	EPA 200.7	9-29-22	9-30-22	
Manganese	1600	10	EPA 200.7	9-29-22	9-30-22	
Mercury	ND	0.025	EPA 7470A	9-28-22	9-28-22	
Nickel	ND	22	EPA 200.8	9-29-22	9-29-22	
Selenium	ND	5.6	EPA 200.8	9-29-22	9-29-22	
Zinc	ND	28	EPA 200.8	9-29-22	9-29-22	



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DISSOLVED METALS
EPA 200.8/200.7/7470A

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-10-220921					
Laboratory ID:	09-199-01					
Arsenic	ND	3.0	EPA 200.8		9-29-22	
Cadmium	ND	4.0	EPA 200.8		9-29-22	
Calcium	91000	5000	EPA 200.7		9-28-22	
Chromium	ND	10	EPA 200.8		9-29-22	
Copper	ND	10	EPA 200.8		9-29-22	
Iron	6000	56	EPA 200.7		9-29-22	
Lead	ND	1.0	EPA 200.8		9-29-22	
Magnesium	28000	1100	EPA 200.7		9-29-22	
Manganese	1600	50	EPA 200.7		9-28-22	
Mercury	ND	0.025	EPA 7470A		9-28-22	
Nickel	ND	20	EPA 200.8		9-29-22	
Potassium	5700	1100	EPA 200.7		9-29-22	
Selenium	ND	5.0	EPA 200.8		9-29-22	
Sodium	12000	5000	EPA 200.7		9-28-22	
Zinc	ND	25	EPA 200.8		9-29-22	



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**TOTAL ALKALINITY
SM 2320B**

Matrix: Water
Units: mg CaCO₃/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-10-220921					
Laboratory ID:	09-199-01					
Total Alkalinity	360	2.0	SM 2320B	9-29-22	9-29-22	



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**BICARBONATE
SM 2320B**

Matrix: Water
Units: mg CaCO₃/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-10-220921					
Laboratory ID:	09-199-01					
Bicarbonate	360	2.0	SM 2320B	9-29-22	9-29-22	



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CHLORIDE
SM 4500-Cl E

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-10-220921					
Laboratory ID:	09-199-01					
Chloride	6.2	2.0	SM 4500-Cl E	9-23-22	9-23-22	



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NITRATE (as Nitrogen)
EPA 353.2

Matrix: Water
Units: mg/L-N

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-10-220921					
Laboratory ID:	09-199-01					
Nitrate	ND	0.050	EPA 353.2	9-22-22	9-22-22	



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SULFATE
ASTM D516-11

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-10-220921					
Laboratory ID:	09-199-01					
Sulfate	7.4	5.0	ASTM D516-11	9-26-22	9-26-22	



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**TOTAL DISSOLVED SOLIDS
 SM 2540C**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-10-220921					
Laboratory ID:	09-199-01					
Total Dissolved Solids	390	13	SM 2540C	9-23-22	9-23-22	



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AMMONIA (as Nitrogen)
SM 4500-NH₃ D

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-10-220921					
Laboratory ID:	09-199-01					
Ammonia	1.0	0.050	SM 4500-NH3 D	10-5-22	10-5-22	



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**TOTAL ORGANIC CARBON
SM 5310B**

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-10-220921					
Laboratory ID:	09-199-01					
Total Organic Carbon	8.4	1.0	SM 5310B	9-29-22	9-29-22	



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**GASOLINE RANGE ORGANICS
 NWTPH-Gx
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0923W1					
Gasoline	ND	100	NWTPH-Gx	9-23-22	9-23-22	
Surrogate:	Percent Recovery		Control Limits			
Fluorobenzene	99	65-122				

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	09-154-01							
	ORIG	DUP						
Gasoline	ND	ND	NA	NA	NA	NA	30	
Surrogate:								
Fluorobenzene				99	99	65-122		



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**DIESEL AND HEAVY OIL RANGE ORGANICS
 NWTPH-Dx
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0927W1					
Diesel Range Organics	ND	0.12	NWTPH-Dx	9-27-22	9-27-22	
Lube Oil Range Organics	ND	0.16	NWTPH-Dx	9-27-22	9-27-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	89	50-150				

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	SB0927W1							
	ORIG	DUP						
Diesel Fuel #2	0.425	0.371	NA	NA	NA	NA	14	NA
<i>Surrogate:</i>								
<i>o-Terphenyl</i>				103	90	50-150		



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 QUALITY CONTROL**

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Matrix: Water

Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0923W1					
Dichlorodifluoromethane	ND	0.30	EPA 8260D	9-23-22	9-23-22	
Chloromethane	ND	1.0	EPA 8260D	9-23-22	9-23-22	
Vinyl Chloride	ND	0.20	EPA 8260D	9-23-22	9-23-22	
Bromomethane	ND	1.3	EPA 8260D	9-23-22	9-23-22	
Chloroethane	ND	1.0	EPA 8260D	9-23-22	9-23-22	
Trichlorofluoromethane	ND	0.20	EPA 8260D	9-23-22	9-23-22	
1,1-Dichloroethene	ND	0.20	EPA 8260D	9-23-22	9-23-22	
Acetone	ND	5.0	EPA 8260D	9-23-22	9-23-22	
Iodomethane	ND	5.0	EPA 8260D	9-23-22	9-23-22	
Carbon Disulfide	ND	0.20	EPA 8260D	9-23-22	9-23-22	
Methylene Chloride	ND	1.0	EPA 8260D	9-23-22	9-23-22	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	9-23-22	9-23-22	
Methyl t-Butyl Ether	ND	0.20	EPA 8260D	9-23-22	9-23-22	
1,1-Dichloroethane	ND	0.20	EPA 8260D	9-23-22	9-23-22	
Vinyl Acetate	ND	1.0	EPA 8260D	9-23-22	9-23-22	
2,2-Dichloropropane	ND	0.20	EPA 8260D	9-23-22	9-23-22	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	9-23-22	9-23-22	
2-Butanone	ND	5.0	EPA 8260D	9-23-22	9-23-22	
Bromochloromethane	ND	0.20	EPA 8260D	9-23-22	9-23-22	
Chloroform	ND	0.20	EPA 8260D	9-23-22	9-23-22	
1,1,1-Trichloroethane	ND	0.20	EPA 8260D	9-23-22	9-23-22	
Carbon Tetrachloride	ND	0.20	EPA 8260D	9-23-22	9-23-22	
1,1-Dichloropropene	ND	0.20	EPA 8260D	9-23-22	9-23-22	
Benzene	ND	0.20	EPA 8260D	9-23-22	9-23-22	
1,2-Dichloroethane	ND	0.20	EPA 8260D	9-23-22	9-23-22	
Trichloroethene	ND	0.20	EPA 8260D	9-23-22	9-23-22	
1,2-Dichloropropane	ND	0.20	EPA 8260D	9-23-22	9-23-22	
Dibromomethane	ND	0.20	EPA 8260D	9-23-22	9-23-22	
Bromodichloromethane	ND	0.20	EPA 8260D	9-23-22	9-23-22	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260D	9-23-22	9-23-22	
Methyl Isobutyl Ketone	ND	2.0	EPA 8260D	9-23-22	9-23-22	
Toluene	ND	1.0	EPA 8260D	9-23-22	9-23-22	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260D	9-23-22	9-23-22	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0923W1					
1,1,2-Trichloroethane	ND	0.20	EPA 8260D	9-23-22	9-23-22	
Tetrachloroethene	ND	0.20	EPA 8260D	9-23-22	9-23-22	
1,3-Dichloropropane	ND	0.20	EPA 8260D	9-23-22	9-23-22	
2-Hexanone	ND	2.0	EPA 8260D	9-23-22	9-23-22	
Dibromochloromethane	ND	0.20	EPA 8260D	9-23-22	9-23-22	
1,2-Dibromoethane	ND	0.20	EPA 8260D	9-23-22	9-23-22	
Chlorobenzene	ND	0.20	EPA 8260D	9-23-22	9-23-22	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260D	9-23-22	9-23-22	
Ethylbenzene	ND	0.20	EPA 8260D	9-23-22	9-23-22	
m,p-Xylene	ND	0.40	EPA 8260D	9-23-22	9-23-22	
o-Xylene	ND	0.20	EPA 8260D	9-23-22	9-23-22	
Styrene	ND	0.20	EPA 8260D	9-23-22	9-23-22	
Bromoform	ND	1.0	EPA 8260D	9-23-22	9-23-22	
Isopropylbenzene	ND	0.20	EPA 8260D	9-23-22	9-23-22	
Bromobenzene	ND	0.20	EPA 8260D	9-23-22	9-23-22	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260D	9-23-22	9-23-22	
1,2,3-Trichloropropane	ND	0.20	EPA 8260D	9-23-22	9-23-22	
n-Propylbenzene	ND	0.20	EPA 8260D	9-23-22	9-23-22	
2-Chlorotoluene	ND	0.20	EPA 8260D	9-23-22	9-23-22	
4-Chlorotoluene	ND	0.20	EPA 8260D	9-23-22	9-23-22	
1,3,5-Trimethylbenzene	ND	0.20	EPA 8260D	9-23-22	9-23-22	
tert-Butylbenzene	ND	0.20	EPA 8260D	9-23-22	9-23-22	
1,2,4-Trimethylbenzene	ND	0.20	EPA 8260D	9-23-22	9-23-22	
sec-Butylbenzene	ND	0.20	EPA 8260D	9-23-22	9-23-22	
1,3-Dichlorobenzene	ND	0.20	EPA 8260D	9-23-22	9-23-22	
p-Isopropyltoluene	ND	0.20	EPA 8260D	9-23-22	9-23-22	
1,4-Dichlorobenzene	ND	0.20	EPA 8260D	9-23-22	9-23-22	
1,2-Dichlorobenzene	ND	0.20	EPA 8260D	9-23-22	9-23-22	
n-Butylbenzene	ND	0.20	EPA 8260D	9-23-22	9-23-22	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260D	9-23-22	9-23-22	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260D	9-23-22	9-23-22	
Hexachlorobutadiene	ND	1.0	EPA 8260D	9-23-22	9-23-22	
Naphthalene	ND	1.0	EPA 8260D	9-23-22	9-23-22	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260D	9-23-22	9-23-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>97</i>	<i>75-127</i>				
<i>Toluene-d8</i>	<i>100</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>100</i>	<i>78-125</i>				



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Matrix: Water
 Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
	SB	SBD	SB	SBD	SB	SBD				
SPIKE BLANKS										
Laboratory ID:	SB0923W1									
Dichlorodifluoromethane	6.78	6.39	10.0	10.0	68	64	34-166	6	21	
Chloromethane	9.07	8.76	10.0	10.0	91	88	63-138	3	18	
Vinyl Chloride	9.99	9.55	10.0	10.0	100	96	71-135	5	20	
Bromomethane	7.97	9.12	10.0	10.0	80	91	20-151	13	36	
Chloroethane	10.2	9.56	10.0	10.0	102	96	76-125	6	20	
Trichlorofluoromethane	9.55	9.19	10.0	10.0	96	92	75-131	4	19	
1,1-Dichloroethene	10.4	9.85	10.0	10.0	104	99	78-125	5	19	
Acetone	10.5	9.60	10.0	10.0	105	96	76-125	9	18	
Iodomethane	11.6	10.4	10.0	10.0	116	104	10-155	11	40	
Carbon Disulfide	9.18	8.80	10.0	10.0	92	88	58-129	4	17	
Methylene Chloride	10.3	9.72	10.0	10.0	103	97	80-120	6	15	
(trans) 1,2-Dichloroethene	10.6	10.0	10.0	10.0	106	100	80-125	6	17	
Methyl t-Butyl Ether	10.9	10.3	10.0	10.0	109	103	80-122	6	15	
1,1-Dichloroethane	10.7	10.3	10.0	10.0	107	103	80-125	4	17	
Vinyl Acetate	10.6	10.1	10.0	10.0	106	101	80-131	5	15	
2,2-Dichloropropane	12.7	11.9	10.0	10.0	127	119	80-146	7	21	
(cis) 1,2-Dichloroethene	11.2	10.7	10.0	10.0	112	107	80-129	5	17	
2-Butanone	11.1	10.1	10.0	10.0	111	101	80-129	9	16	
Bromochloromethane	11.5	11.0	10.0	10.0	115	110	80-125	4	18	
Chloroform	10.8	10.5	10.0	10.0	108	105	80-123	3	16	
1,1,1-Trichloroethane	10.5	9.92	10.0	10.0	105	99	80-123	6	18	
Carbon Tetrachloride	10.7	10.3	10.0	10.0	107	103	80-126	4	17	
1,1-Dichloropropene	10.6	10.3	10.0	10.0	106	103	80-126	3	18	
Benzene	10.5	10.0	10.0	10.0	105	100	80-121	5	16	
1,2-Dichloroethane	11.0	10.5	10.0	10.0	110	105	80-124	5	15	
Trichloroethene	11.0	10.7	10.0	10.0	110	107	80-122	3	18	
1,2-Dichloropropane	11.2	10.9	10.0	10.0	112	109	80-123	3	15	
Dibromomethane	11.4	11.2	10.0	10.0	114	112	80-123	2	15	
Bromodichloromethane	11.6	11.2	10.0	10.0	116	112	80-125	4	15	
(cis) 1,3-Dichloropropene	11.9	11.7	10.0	10.0	119	117	80-129	2	15	
Methyl Isobutyl Ketone	11.7	10.7	10.0	10.0	117	107	80-124	9	15	
Toluene	10.7	10.4	10.0	10.0	107	104	80-120	3	18	
(trans) 1,3-Dichloropropene	12.4	12.0	10.0	10.0	124	120	80-134	3	17	



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Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
	SB	SBD	SB	SBD	SB	SBD				
SPIKE BLANKS										
Laboratory ID:	SB0923W1									
1,1,2-Trichloroethane	11.7	11.3	10.0	10.0	117	113	77-126	3	20	
Tetrachloroethene	11.2	10.7	10.0	10.0	112	107	80-124	5	18	
1,3-Dichloropropane	11.5	11.0	10.0	10.0	115	110	80-120	4	15	
2-Hexanone	11.4	10.6	10.0	10.0	114	106	80-130	7	16	
Dibromochloromethane	11.7	11.6	10.0	10.0	117	116	80-128	1	15	
1,2-Dibromoethane	12.0	11.8	10.0	10.0	120	118	80-127	2	15	
Chlorobenzene	11.4	11.2	10.0	10.0	114	112	80-120	2	17	
1,1,1,2-Tetrachloroethane	11.6	11.5	10.0	10.0	116	115	80-125	1	17	
Ethylbenzene	11.5	11.2	10.0	10.0	115	112	80-125	3	18	
m,p-Xylene	22.0	21.6	20.0	20.0	110	108	80-127	2	18	
o-Xylene	11.3	11.1	10.0	10.0	113	111	80-126	2	18	
Styrene	12.3	12.1	10.0	10.0	123	121	80-130	2	17	
Bromoform	11.8	11.7	10.0	10.0	118	117	80-130	1	15	
Isopropylbenzene	12.1	11.9	10.0	10.0	121	119	80-129	2	18	
Bromobenzene	11.5	11.1	10.0	10.0	115	111	76-128	4	16	
1,1,2,2-Tetrachloroethane	11.6	11.0	10.0	10.0	116	110	74-130	5	15	
1,2,3-Trichloropropane	11.3	10.9	10.0	10.0	113	109	71-129	4	25	
n-Propylbenzene	11.8	11.3	10.0	10.0	118	113	80-129	4	19	
2-Chlorotoluene	11.5	11.3	10.0	10.0	115	113	80-128	2	18	
4-Chlorotoluene	12.1	11.6	10.0	10.0	121	116	80-130	4	19	
1,3,5-Trimethylbenzene	11.8	11.4	10.0	10.0	118	114	80-131	3	18	
tert-Butylbenzene	11.7	11.3	10.0	10.0	117	113	80-130	3	18	
1,2,4-Trimethylbenzene	11.8	11.3	10.0	10.0	118	113	80-130	4	18	
sec-Butylbenzene	11.9	11.5	10.0	10.0	119	115	80-130	3	18	
1,3-Dichlorobenzene	11.7	11.2	10.0	10.0	117	112	80-126	4	17	
p-Isopropyltoluene	12.0	11.5	10.0	10.0	120	115	80-132	4	18	
1,4-Dichlorobenzene	11.5	11.0	10.0	10.0	115	110	80-121	4	17	
1,2-Dichlorobenzene	11.6	11.1	10.0	10.0	116	111	79-125	4	15	
n-Butylbenzene	12.0	11.8	10.0	10.0	120	118	80-138	2	19	
1,2-Dibromo-3-chloropropane	11.3	11.6	10.0	10.0	113	116	73-133	3	15	
1,2,4-Trichlorobenzene	12.0	11.7	10.0	10.0	120	117	80-139	3	18	
Hexachlorobutadiene	11.1	11.1	10.0	10.0	111	111	80-151	0	18	
Naphthalene	10.5	10.4	10.0	10.0	105	104	68-144	1	25	
1,2,3-Trichlorobenzene	11.8	11.7	10.0	10.0	118	117	75-146	1	28	
<i>Surrogate:</i>										
Dibromofluoromethane					95	94	75-127			
Toluene-d8					99	100	80-127			
4-Bromofluorobenzene					102	102	78-125			



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**PAHs EPA 8270E/SIM
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0927W1					
Naphthalene	ND	0.10	EPA 8270E/SIM	9-27-22	9-27-22	
2-Methylnaphthalene	ND	0.10	EPA 8270E/SIM	9-27-22	9-27-22	
1-Methylnaphthalene	ND	0.10	EPA 8270E/SIM	9-27-22	9-27-22	
Acenaphthylene	ND	0.10	EPA 8270E/SIM	9-27-22	9-27-22	
Acenaphthene	ND	0.10	EPA 8270E/SIM	9-27-22	9-27-22	
Fluorene	ND	0.10	EPA 8270E/SIM	9-27-22	9-27-22	
Phenanthrene	ND	0.10	EPA 8270E/SIM	9-27-22	9-27-22	
Anthracene	ND	0.10	EPA 8270E/SIM	9-27-22	9-27-22	
Fluoranthene	ND	0.10	EPA 8270E/SIM	9-27-22	9-27-22	
Pyrene	ND	0.10	EPA 8270E/SIM	9-27-22	9-27-22	
Benzo[a]anthracene	ND	0.010	EPA 8270E/SIM	9-27-22	9-27-22	
Chrysene	ND	0.010	EPA 8270E/SIM	9-27-22	9-27-22	
Benzo[b]fluoranthene	ND	0.010	EPA 8270E/SIM	9-27-22	9-27-22	
Benzo(j,k)fluoranthene	ND	0.010	EPA 8270E/SIM	9-27-22	9-27-22	
Benzo[a]pyrene	ND	0.010	EPA 8270E/SIM	9-27-22	9-27-22	
Indeno(1,2,3-c,d)pyrene	ND	0.010	EPA 8270E/SIM	9-27-22	9-27-22	
Dibenz[a,h]anthracene	ND	0.010	EPA 8270E/SIM	9-27-22	9-27-22	
Benzo[g,h,i]perylene	ND	0.010	EPA 8270E/SIM	9-27-22	9-27-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>2-Fluorobiphenyl</i>	<i>54</i>	<i>20 - 106</i>				
<i>Pyrene-d10</i>	<i>72</i>	<i>19 - 104</i>				
<i>Terphenyl-d14</i>	<i>86</i>	<i>41 - 127</i>				



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**PAHs EPA 8270E/SIM
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
	SB	SBD	SB	SBD	SB	SBD				
SPIKE BLANKS										
Laboratory ID:	SB0927W1									
Naphthalene	0.297	0.270	0.500	0.500	59	54	25 - 82	10	39	
Acenaphthylene	0.310	0.299	0.500	0.500	62	60	35 - 107	4	26	
Acenaphthene	0.295	0.286	0.500	0.500	59	57	33 - 99	3	26	
Fluorene	0.330	0.315	0.500	0.500	66	63	43 - 95	5	24	
Phenanthrene	0.334	0.316	0.500	0.500	67	63	49 - 100	6	20	
Anthracene	0.325	0.301	0.500	0.500	65	60	47 - 101	8	21	
Fluoranthene	0.334	0.312	0.500	0.500	67	62	51 - 115	7	23	
Pyrene	0.349	0.329	0.500	0.500	70	66	53 - 117	6	24	
Benzo[a]anthracene	0.395	0.362	0.500	0.500	79	72	57 - 114	9	21	
Chrysene	0.376	0.341	0.500	0.500	75	68	55 - 119	10	21	
Benzo[b]fluoranthene	0.381	0.397	0.500	0.500	76	79	56 - 125	4	26	
Benzo(j,k)fluoranthene	0.446	0.375	0.500	0.500	89	75	53 - 124	17	22	
Benzo[a]pyrene	0.367	0.338	0.500	0.500	73	68	54 - 119	8	22	
Indeno(1,2,3-c,d)pyrene	0.438	0.404	0.500	0.500	88	81	55 - 118	8	23	
Dibenz[a,h]anthracene	0.389	0.355	0.500	0.500	78	71	56 - 118	9	23	
Benzo[g,h,i]perylene	0.345	0.312	0.500	0.500	69	62	55 - 117	10	22	
<i>Surrogate:</i>										
2-Fluorobiphenyl					51	47	20 - 106			
Pyrene-d10					67	62	19 - 104			
Terphenyl-d14					81	74	41 - 127			



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**ORGANOCHLORINE
 PESTICIDES EPA 8081B
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0928W1					
alpha-BHC	ND	0.0050	EPA 8081B	9-28-22	9-28-22	
gamma-BHC	ND	0.0050	EPA 8081B	9-28-22	9-28-22	
beta-BHC	ND	0.0050	EPA 8081B	9-28-22	9-28-22	
delta-BHC	ND	0.0050	EPA 8081B	9-28-22	9-28-22	
Heptachlor	ND	0.0050	EPA 8081B	9-28-22	9-28-22	
Aldrin	ND	0.0020	EPA 8081B	9-28-22	9-28-22	
Heptachlor epoxide	ND	0.0030	EPA 8081B	9-28-22	9-28-22	
gamma-Chlordane	ND	0.0050	EPA 8081B	9-28-22	9-28-22	
alpha-Chlordane	ND	0.0050	EPA 8081B	9-28-22	9-28-22	
4,4'-DDE	ND	0.0050	EPA 8081B	9-28-22	9-28-22	
Endosulfan I	ND	0.0050	EPA 8081B	9-28-22	9-28-22	
Dieldrin	ND	0.0050	EPA 8081B	9-28-22	9-28-22	
Endrin	ND	0.0050	EPA 8081B	9-28-22	9-28-22	
4,4'-DDD	ND	0.0050	EPA 8081B	9-28-22	9-28-22	
Endosulfan II	ND	0.0050	EPA 8081B	9-28-22	9-28-22	
4,4'-DDT	ND	0.0050	EPA 8081B	9-28-22	9-28-22	
Endrin aldehyde	ND	0.0050	EPA 8081B	9-28-22	9-28-22	
Methoxychlor	ND	0.010	EPA 8081B	9-28-22	9-28-22	
Endosulfan sulfate	ND	0.0050	EPA 8081B	9-28-22	9-28-22	
Endrin ketone	ND	0.020	EPA 8081B	9-28-22	9-28-22	
Toxaphene	ND	0.050	EPA 8081B	9-28-22	9-28-22	
Tech Chlordane	ND	0.050	EPA 8081B	9-28-22	9-28-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control limits</i>				
<i>Tetrachloro-m-xylene</i>	<i>70</i>	<i>21-110</i>				
<i>Decachlorobiphenyl</i>	<i>102</i>	<i>42-113</i>				



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**ORGANOCHLORINE
 PESTICIDES EPA 8081B
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result		Spike Level		Source	Percent		Recovery	RPD	RPD	Flags
	SB	SBD	SB	SBD	Result	Recovery	Limits	Limit			
SPIKE BLANKS											
Laboratory ID:	SB0928W1										
	SB	SBD	SB	SBD		SB	SBD				
alpha-BHC	0.0891	0.0972	0.100	0.100	N/A	89	97	50-113	9	19	
gamma-BHC	0.0913	0.0971	0.100	0.100	N/A	91	97	50-114	6	15	
beta-BHC	0.0861	0.0913	0.100	0.100	N/A	86	91	45-110	6	15	
delta-BHC	0.117	0.126	0.100	0.100	N/A	117	126	40-113	7	15	I
Heptachlor	0.0831	0.0938	0.100	0.100	N/A	83	94	41-107	12	16	
Aldrin	0.0773	0.0864	0.100	0.100	N/A	77	86	39-105	11	15	
Heptachlor epoxide	0.0843	0.0903	0.100	0.100	N/A	84	90	53-106	7	15	
gamma-Chlordane	0.0848	0.0917	0.100	0.100	N/A	85	92	46-110	8	15	
alpha-Chlordane	0.0833	0.0897	0.100	0.100	N/A	83	90	46-110	7	15	
4,4'-DDE	0.0969	0.105	0.100	0.100	N/A	97	105	39-129	8	15	
Endosulfan I	0.0849	0.0915	0.100	0.100	N/A	85	92	51-109	7	15	
Dieldrin	0.0901	0.0978	0.100	0.100	N/A	90	98	55-112	8	15	
Endrin	0.100	0.110	0.100	0.100	N/A	100	110	54-119	10	16	
4,4'-DDD	0.104	0.115	0.100	0.100	N/A	104	115	52-142	10	15	
Endosulfan II	0.0954	0.104	0.100	0.100	N/A	95	104	49-115	9	15	
4,4'-DDT	0.111	0.120	0.100	0.100	N/A	111	120	52-136	8	15	
Endrin aldehyde	0.0856	0.0945	0.100	0.100	N/A	86	95	39-128	10	15	
Methoxychlor	0.115	0.128	0.100	0.100	N/A	115	128	56-156	11	19	
Endosulfan sulfate	0.118	0.129	0.100	0.100	N/A	118	129	44-120	9	15	I
Endrin ketone	0.110	0.123	0.100	0.100	N/A	110	123	45-122	11	15	I
<i>Surrogate:</i>											
<i>Tetrachloro-m-xylene</i>						65	73	21-110			
<i>Decachlorobiphenyl</i>						97	104	42-113			



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**TOTAL METALS
 EPA 200.8/200.7/7470A
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0929WH2					
Iron	ND	50	EPA 200.7	9-29-22	9-30-22	
Magnesium	ND	1000	EPA 200.7	9-29-22	9-30-22	
Manganese	ND	10	EPA 200.7	9-29-22	9-30-22	
Laboratory ID:	MB0929WM1					
Arsenic	ND	3.3	EPA 200.8	9-29-22	9-29-22	
Cadmium	ND	4.4	EPA 200.8	9-29-22	9-29-22	
Chromium	ND	11	EPA 200.8	9-29-22	9-29-22	
Copper	ND	11	EPA 200.8	9-29-22	9-29-22	
Lead	ND	1.1	EPA 200.8	9-29-22	9-29-22	
Nickel	ND	22	EPA 200.8	9-29-22	9-29-22	
Selenium	ND	5.6	EPA 200.8	9-29-22	9-29-22	
Zinc	ND	28	EPA 200.8	9-29-22	9-29-22	
Laboratory ID:	MB0928W1					
Mercury	ND	0.025	EPA 7470A	9-28-22	9-28-22	



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**TOTAL METALS
 EPA 200.8/200.7/7470A
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result		Spike Level		Source	Percent	Recovery	RPD		Flags
					Result	Recovery	Limits	RPD	Limit	
DUPLICATE										
Laboratory ID: 09-159-07										
	ORIG	DUP								
Iron	ND	ND	NA	NA		NA	NA	NA	20	
Magnesium	16200	16800	NA	NA		NA	NA	4	20	
Manganese	31.0	30.3	NA	NA		NA	NA	2	20	
Laboratory ID: 09-267-10										
Arsenic	ND	ND	NA	NA		NA	NA	NA	20	
Cadmium	ND	ND	NA	NA		NA	NA	NA	20	
Chromium	ND	ND	NA	NA		NA	NA	NA	20	
Copper	ND	ND	NA	NA		NA	NA	NA	20	
Lead	ND	ND	NA	NA		NA	NA	NA	20	
Nickel	ND	ND	NA	NA		NA	NA	NA	20	
Selenium	ND	ND	NA	NA		NA	NA	NA	20	
Zinc	ND	ND	NA	NA		NA	NA	NA	20	
Laboratory ID: 09-199-01										
Mercury	ND	ND	NA	NA		NA	NA	NA	20	
MATRIX SPIKES										
Laboratory ID: 09-159-07										
	MS	MSD	MS	MSD		MS	MSD			
Iron	22800	22600	20000	20000	ND	114	113	75-125	1	20
Magnesium	36800	35800	20000	20000	16200	103	98	75-125	3	20
Manganese	540	537	500	500	31.0	102	101	75-125	1	20
Laboratory ID: 09-267-10										
Arsenic	101	101	111	111	ND	91	91	75-125	0	20
Cadmium	94.7	96.0	111	111	ND	85	87	75-125	1	20
Chromium	91.8	93.8	111	111	ND	83	85	75-125	2	20
Copper	88.7	90.4	111	111	ND	80	82	75-125	2	20
Lead	96.7	97.3	111	111	ND	87	88	75-125	1	20
Nickel	88.9	89.8	111	111	ND	80	81	75-125	1	20
Selenium	101	106	111	111	ND	91	96	75-125	5	20
Zinc	98.2	97.1	111	111	ND	89	88	75-125	1	20
Laboratory ID: 09-199-01										
Mercury	6.00	5.95	12.5	12.5	ND	48	48	75-125	1	20



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**DISSOLVED METALS
 EPA 200.8/200.7/7470A
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0928D1					
Calcium	ND	1100	EPA 200.7		9-28-22	
Manganese	ND	11	EPA 200.7		9-28-22	
Sodium	ND	1100	EPA 200.7		9-28-22	
Laboratory ID:	MB0929D1					
Arsenic	ND	3.0	EPA 200.8		9-29-22	
Cadmium	ND	4.0	EPA 200.8		9-29-22	
Chromium	ND	10	EPA 200.8		9-29-22	
Copper	ND	10	EPA 200.8		9-29-22	
Lead	ND	1.0	EPA 200.8		9-29-22	
Nickel	ND	20	EPA 200.8		9-29-22	
Selenium	ND	5.0	EPA 200.8		9-29-22	
Zinc	ND	25	EPA 200.8		9-29-22	
Laboratory ID:	MB0928D1					
Mercury	ND	0.025	EPA 7470A		9-28-22	
Laboratory ID:	MB0929D1					
Iron	ND	56	EPA 200.7		9-28-22	
Magnesium	ND	1100	EPA 200.7		9-28-22	
Potassium	ND	1100	EPA 200.7		9-29-22	



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DISSOLVED METALS
EPA 200.8/200.7/7470A
QUALITY CONTROL

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result		Spike Level		Source	Percent	Recovery	RPD		Flags
					Result	Recovery	Limits	RPD	Limit	
DUPLICATE										
Laboratory ID:	09-191-01									
	ORIG	DUP								
Iron	ND	ND	NA	NA		NA	NA	NA	20	
Magnesium	14300	14300	NA	NA		NA	NA	0	20	
Potassium	2220	2220	NA	NA		NA	NA	0	20	
Laboratory ID:	09-261-02									
	ORIG	DUP								
Calcium	16000	17200	NA	NA		NA	NA	7	20	
Manganese	93.6	100	NA	NA		NA	NA	7	20	
Sodium	12400	13300	NA	NA		NA	NA	7	20	
Laboratory ID:	09-294-01									
Arsenic	ND	ND	NA	NA		NA	NA	NA	20	
Cadmium	ND	ND	NA	NA		NA	NA	NA	20	
Chromium	ND	ND	NA	NA		NA	NA	NA	20	
Copper	ND	ND	NA	NA		NA	NA	NA	20	
Lead	ND	ND	NA	NA		NA	NA	NA	20	
Nickel	ND	ND	NA	NA		NA	NA	NA	20	
Selenium	ND	ND	NA	NA		NA	NA	NA	20	
Zinc	ND	ND	NA	NA		NA	NA	NA	20	
Laboratory ID:	09-199-01									
Mercury	ND	ND	NA	NA		NA	NA	NA	20	



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**DISSOLVED METALS
 EPA 200.8/200.7/7470A
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result		Spike Level		Source	Percent	Recovery	RPD		
					Result	Recovery	Limits	RPD	Limit	Flags
MATRIX SPIKES										
Laboratory ID:	09-191-01									
	MS	MSD	MS	MSD		MS	MSD			
Iron	24900	24800	22200	22200	ND	112	112	75-125	0	20
Magnesium	38900	38900	22200	22200	14300	111	111	75-125	0	20
Potassium	27200	27000	22200	22200	2220	113	112	75-125	1	20
Laboratory ID:	09-261-02									
	MS	MSD	MS	MSD		MS	MSD			
Calcium	34900	41600	22200	22200	16000	85	116	75-125	18	20
Manganese	697	611	556	556	93.6	109	93	75-125	13	20
Sodium	31400	37700	22200	22200	12400	86	114	75-125	18	20
Laboratory ID:	09-294-01									
Arsenic	76.6	75.8	80.0	80.0	ND	96	95	75-125	1	20
Cadmium	75.0	75.4	80.0	80.0	ND	94	94	75-125	1	20
Chromium	73.4	72.6	80.0	80.0	ND	92	91	75-125	1	20
Copper	73.0	72.0	80.0	80.0	ND	91	90	75-125	1	20
Lead	75.6	74.8	80.0	80.0	ND	95	94	75-125	1	20
Nickel	72.4	72.6	80.0	80.0	ND	91	91	75-125	0	20
Selenium	76.6	78.6	80.0	80.0	ND	96	98	75-125	3	20
Zinc	76.0	78.8	80.0	80.0	ND	95	99	75-125	4	20
Laboratory ID:	09-199-01									
Mercury	5.95	6.03	6.25	6.25	ND	95	96	75-125	1	20



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 Project: 6694-002-00 T700

**TOTAL ALKALINITY
 SM 2320B
 QUALITY CONTROL**

Matrix: Water
 Units: mg CaCO₃/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0929W1					
Total Alkalinity	ND	2.0	SM 2320B	9-29-22	9-29-22	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	09-190-01							
	ORIG	DUP						
Total Alkalinity	392	392	NA	NA	NA	0	10	

SPIKE BLANK								
Laboratory ID:	SB0929W1							
	SB	SB		SB				
Total Alkalinity	94.0	100	NA	94	89-110	NA	NA	



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**BICARBONATE
 SM 2320B
 QUALITY CONTROL**

Matrix: Water
 Units: mg CaCO₃/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0929W1					
Bicarbonate	ND	2.0	SM 2320B	9-29-22	9-29-22	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	09-190-01							
	ORIG	DUP						
Bicarbonate	392	392	NA	NA	NA	0	10	

SPIKE BLANK								
Laboratory ID:	SB0929W1							
	SB	SB		SB				
Bicarbonate	94.0	100	NA	94	89-110	NA	NA	



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**CHLORIDE
 SM 4500-Cl E
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0923W1					
Chloride	ND	2.0	SM 4500-Cl E	9-23-22	9-23-22	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	09-198-01							
	ORIG	DUP						
Chloride	5.20	5.75	NA	NA	NA	10	11	

MATRIX SPIKE								
Laboratory ID:	09-198-01							
	MS	MS		MS				
Chloride	54.5	50.0	5.20	99	90-121	NA	NA	

SPIKE BLANK								
Laboratory ID:	SB0923W1							
	SB	SB		SB				
Chloride	50.7	50.0	NA	101	90-119	NA	NA	



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**NITRATE (as Nitrogen)
 EPA 353.2
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L-N

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0922W2					
Nitrate	ND	0.050	EPA 353.2	9-22-22	9-22-22	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	09-060-01							
	ORIG	DUP						
Nitrate	0.149	0.146	NA	NA	NA	2	10	

MATRIX SPIKE								
Laboratory ID:	09-060-01							
	MS	MS		MS				
Nitrate	1.97	2.00	0.149	91	88-125	NA	NA	

SPIKE BLANK								
Laboratory ID:	SB0922W2							
	SB	SB		SB				
Nitrate	2.01	2.00	NA	101	90-120	NA	NA	



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**SULFATE
 ASTM D516-11
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0926W1					
Sulfate	ND	5.0	ASTM D516-11	9-26-22	9-26-22	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	09-203-01							
	ORIG	DUP						
Sulfate	15.9	16.0	NA	NA	NA	1	10	

MATRIX SPIKE								
Laboratory ID:	09-203-01							
	MS	MS		MS				
Sulfate	24.2	10.0	15.9	83	72-128	NA	NA	

SPIKE BLANK								
Laboratory ID:	SB0926W1							
	SB	SB		SB				
Sulfate	9.73	10.0	NA	97	85-114	NA	NA	



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**TOTAL DISSOLVED SOLIDS
 SM 2540C
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0923W1					
Total Dissolved Solids	ND	13	SM 2540C	9-23-22	9-23-22	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	09-189-01							
	ORIG	DUP						
Total Dissolved Solids	175	175	NA	NA	NA	0	23	

SPIKE BLANK								
Laboratory ID:	SB0923W1							
	SB	SB		SB				
Total Dissolved Solids	528	500	NA	106	89-120	NA	NA	



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**AMMONIA (as Nitrogen)
 SM 4500-NH₃ D
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1005W1					
Ammonia	ND	0.050	SM 4500-NH3 D	10-5-22	10-5-22	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	09-253-01							
	ORIG	DUP						
Ammonia	ND	ND	NA	NA	NA	NA	15	

MATRIX SPIKE								
Laboratory ID:	09-253-01							
	MS	MS		MS				
Ammonia	4.92	5.00	ND	98	87-110	NA	NA	

SPIKE BLANK								
Laboratory ID:	SB1005W1							
	SB	SB		SB				
Ammonia	4.98	5.00	NA	100	88-110	NA	NA	



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**TOTAL ORGANIC CARBON
 SM 5310B
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0929W1					
Total Organic Carbon	ND	1.0	SM 5310B	9-29-22	9-29-22	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	09-165-01							
	ORIG	DUP						
Total Organic Carbon	5.31	5.31	NA	NA	NA	0	12	

MATRIX SPIKE								
Laboratory ID:	09-165-01							
	MS	MS		MS				
Total Organic Carbon	15.5	10.0	5.31	102	80-120	NA	NA	

SPIKE BLANK								
Laboratory ID:	SB0929W1							
	SB	SB		SB				
Total Organic Carbon	10.5	10.0	NA	105	80-118	NA	NA	





Data Qualifiers and Abbreviations

- A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.
 - B - The analyte indicated was also found in the blank sample.
 - C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.
 - E - The value reported exceeds the quantitation range and is an estimate.
 - F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.
 - H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.
 - I - Compound recovery is outside of the control limits.
 - J - The value reported was below the practical quantitation limit. The value is an estimate.
 - K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.
 - L - The RPD is outside of the control limits.
 - M - Hydrocarbons in the gasoline range are impacting the diesel range result.
 - M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.
 - N - Hydrocarbons in the lube oil range are impacting the diesel range result.
 - N1 - Hydrocarbons in diesel range are impacting lube oil range results.
 - O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.
 - P - The RPD of the detected concentrations between the two columns is greater than 40.
 - Q - Surrogate recovery is outside of the control limits.
 - S - Surrogate recovery data is not available due to the necessary dilution of the sample.
 - T - The sample chromatogram is not similar to a typical _____.
 - U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
 - U1 - The practical quantitation limit is elevated due to interferences present in the sample.
 - V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.
 - W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.
 - X - Sample extract treated with a mercury cleanup procedure.
 - X1 - Sample extract treated with a sulfuric acid/silica gel cleanup procedure.
 - Y - The calibration verification for this analyte exceeded the 20% drift specified in methods 8260 & 8270, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.
 - Z -
- ND - Not Detected at PQL
 PQL - Practical Quantitation Limit
 RPD - Relative Percent Difference





14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

October 6, 2022

Garrett Leque
GeoEngineers, Inc.
554 West Bakerview Road
Bellingham, WA 98226

Re: Analytical Data for Project 6694-002-05 T700
Laboratory Reference No. 2209-200

Dear Garrett:

Enclosed are the analytical results and associated quality control data for samples submitted on September 22, 2022.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

A handwritten signature in black ink, appearing to read "DB", with a long horizontal stroke extending to the right.

David Baumeister
Project Manager

Enclosures



OnSite Environmental, Inc. 14648 NE 95th Street, Redmond, WA 98052 (425) 883-3881

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: October 6, 2022
Samples Submitted: September 22, 2022
Laboratory Reference: 2209-200
Project: 6694-002-00 T700

Case Narrative

Samples were collected on September 21, 2022 and received by the laboratory on September 22, 2022. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

DRAFT



Date of Report: October 6, 2022
Samples Submitted: September 22, 2022
Laboratory Reference: 2209-200
Project: 6694-002-00 T700

ANALYTICAL REPORT FOR SAMPLES

Client ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
MW-9-220921	09-200-01	Water	9-21-22	9-22-22	

DRAFT



Date of Report: October 6, 2022
 Samples Submitted: September 22, 2022
 Laboratory Reference: 2209-200
 Project: 6694-002-00 T700

GASOLINE RANGE ORGANICS
NWTPH-Gx

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-9-220921					
Laboratory ID:	09-200-01					
Gasoline	ND	100	NWTPH-Gx	9-23-22	9-23-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
Fluorobenzene	94	65-122				



Date of Report: October 6, 2022
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DIESEL AND HEAVY OIL RANGE ORGANICS
NWTPH-Dx

Matrix: Water
 Units: mg/L (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-9-220921					
Laboratory ID:	09-200-01					
Diesel Range Organics	ND	0.13	NWTPH-Dx	9-27-22	9-28-22	
Lube Oil Range Organics	0.26	0.20	NWTPH-Dx	9-27-22	9-28-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	82	50-150				



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PAHS EPA 8270E/SIM

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-9-220921					
Laboratory ID:	09-200-01					
Naphthalene	ND	0.095	EPA 8270E/SIM	9-27-22	9-27-22	
2-Methylnaphthalene	ND	0.095	EPA 8270E/SIM	9-27-22	9-27-22	
1-Methylnaphthalene	ND	0.095	EPA 8270E/SIM	9-27-22	9-27-22	
Acenaphthylene	ND	0.095	EPA 8270E/SIM	9-27-22	9-27-22	
Acenaphthene	0.25	0.095	EPA 8270E/SIM	9-27-22	9-27-22	
Fluorene	ND	0.095	EPA 8270E/SIM	9-27-22	9-27-22	
Phenanthrene	ND	0.095	EPA 8270E/SIM	9-27-22	9-27-22	
Anthracene	ND	0.095	EPA 8270E/SIM	9-27-22	9-27-22	
Fluoranthene	ND	0.095	EPA 8270E/SIM	9-27-22	9-27-22	
Pyrene	ND	0.095	EPA 8270E/SIM	9-27-22	9-27-22	
Benzo[a]anthracene	ND	0.0095	EPA 8270E/SIM	9-27-22	9-27-22	
Chrysene	ND	0.0095	EPA 8270E/SIM	9-27-22	9-27-22	
Benzo[b]fluoranthene	ND	0.0095	EPA 8270E/SIM	9-27-22	9-27-22	
Benzo(j,k)fluoranthene	ND	0.0095	EPA 8270E/SIM	9-27-22	9-27-22	
Benzo[a]pyrene	ND	0.0095	EPA 8270E/SIM	9-27-22	9-27-22	
Indeno(1,2,3-c,d)pyrene	ND	0.0095	EPA 8270E/SIM	9-27-22	9-27-22	
Dibenz[a,h]anthracene	ND	0.0095	EPA 8270E/SIM	9-27-22	9-27-22	
Benzo[g,h,i]perylene	ND	0.0095	EPA 8270E/SIM	9-27-22	9-27-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
2-Fluorobiphenyl	41	20 - 106				
Pyrene-d10	59	19 - 104				
Terphenyl-d14	74	41 - 127				



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**ORGANOCHLORINE
 PESTICIDES EPA 8081B**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-9-220921					
Laboratory ID:	09-200-01					
alpha-BHC	ND	0.0048	EPA 8081B	9-28-22	9-28-22	
gamma-BHC	ND	0.0048	EPA 8081B	9-28-22	9-28-22	
beta-BHC	ND	0.0048	EPA 8081B	9-28-22	9-28-22	
delta-BHC	ND	0.0048	EPA 8081B	9-28-22	9-28-22	
Heptachlor	ND	0.0048	EPA 8081B	9-28-22	9-28-22	
Aldrin	ND	0.0019	EPA 8081B	9-28-22	9-28-22	
Heptachlor epoxide	ND	0.0029	EPA 8081B	9-28-22	9-28-22	
gamma-Chlordane	ND	0.0048	EPA 8081B	9-28-22	9-28-22	
alpha-Chlordane	ND	0.0048	EPA 8081B	9-28-22	9-28-22	
4,4'-DDE	ND	0.0048	EPA 8081B	9-28-22	9-28-22	
Endosulfan I	ND	0.0048	EPA 8081B	9-28-22	9-28-22	
Dieldrin	ND	0.0048	EPA 8081B	9-28-22	9-28-22	
Endrin	ND	0.0048	EPA 8081B	9-28-22	9-28-22	
4,4'-DDD	ND	0.0048	EPA 8081B	9-28-22	9-28-22	
Endosulfan II	ND	0.0048	EPA 8081B	9-28-22	9-28-22	
4,4'-DDT	ND	0.0048	EPA 8081B	9-28-22	9-28-22	
Endrin aldehyde	ND	0.0048	EPA 8081B	9-28-22	9-28-22	
Methoxychlor	ND	0.0095	EPA 8081B	9-28-22	9-28-22	
Endosulfan sulfate	ND	0.0048	EPA 8081B	9-28-22	9-28-22	
Endrin ketone	ND	0.019	EPA 8081B	9-28-22	9-28-22	
Toxaphene	ND	0.048	EPA 8081B	9-28-22	9-28-22	
Tech Chlordane	ND	0.048	EPA 8081B	9-28-22	9-28-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control limits</i>				
<i>Tetrachloro-m-xylene</i>	48	21-110				
<i>Decachlorobiphenyl</i>	87	42-113				



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TOTAL METALS
EPA 200.8/200.7/7470A

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-9-220921					
Laboratory ID:	09-200-01					
Arsenic	ND	3.3	EPA 200.8	9-29-22	9-29-22	
Cadmium	ND	4.4	EPA 200.8	9-29-22	9-29-22	
Chromium	ND	11	EPA 200.8	9-29-22	9-29-22	
Copper	ND	11	EPA 200.8	9-29-22	9-29-22	
Iron	2400	50	EPA 200.7	9-29-22	9-30-22	
Lead	ND	1.1	EPA 200.8	9-29-22	9-29-22	
Magnesium	27000	1000	EPA 200.7	9-29-22	9-30-22	
Manganese	1400	10	EPA 200.7	9-29-22	9-30-22	
Mercury	ND	0.025	EPA 7470A	9-28-22	9-28-22	
Nickel	ND	22	EPA 200.8	9-29-22	9-29-22	
Selenium	ND	5.6	EPA 200.8	9-29-22	9-29-22	
Zinc	ND	28	EPA 200.8	9-29-22	9-29-22	



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DISSOLVED METALS
EPA 200.8/200.7/7470A

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-9-220921					
Laboratory ID:	09-200-01					
Arsenic	ND	3.0	EPA 200.8		9-29-22	
Cadmium	ND	4.0	EPA 200.8		9-29-22	
Calcium	94000	5000	EPA 200.7		9-28-22	
Chromium	ND	10	EPA 200.8		9-29-22	
Copper	ND	10	EPA 200.8		9-29-22	
Iron	1900	56	EPA 200.7		9-29-22	
Lead	ND	1.0	EPA 200.8		9-29-22	
Magnesium	28000	1100	EPA 200.7		9-29-22	
Manganese	1300	50	EPA 200.7		9-28-22	
Mercury	ND	0.025	EPA 7470A		9-28-22	
Nickel	ND	20	EPA 200.8		9-29-22	
Potassium	5800	1100	EPA 200.7		9-29-22	
Selenium	ND	5.0	EPA 200.8		9-29-22	
Sodium	13000	5000	EPA 200.7		9-28-22	
Zinc	ND	25	EPA 200.8		9-29-22	



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**TOTAL ALKALINITY
 SM 2320B**

Matrix: Water
 Units: mg CaCO₃/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-9-220921					
Laboratory ID:	09-200-01					
Total Alkalinity	370	2.0	SM 2320B	9-29-22	9-29-22	



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**BICARBONATE
SM 2320B**

Matrix: Water
Units: mg CaCO₃/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-9-220921					
Laboratory ID:	09-200-01					
Bicarbonate	370	2.0	SM 2320B	9-29-22	9-29-22	



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CHLORIDE
SM 4500-Cl E

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-9-220921					
Laboratory ID:	09-200-01					
Chloride	6.2	2.0	SM 4500-Cl E	9-23-22	9-23-22	



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NITRATE (as Nitrogen)
EPA 353.2

Matrix: Water
Units: mg/L-N

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-9-220921					
Laboratory ID:	09-200-01					
Nitrate	0.10	0.050	EPA 353.2	9-22-22	9-22-22	



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Laboratory Reference: 2209-200
Project: 6694-002-00 T700

SULFATE
ASTM D516-11

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-9-220921					
Laboratory ID:	09-200-01					
Sulfate	5.7	5.0	ASTM D516-11	9-26-22	9-26-22	



Date of Report: October 6, 2022
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 Project: 6694-002-00 T700

**TOTAL DISSOLVED SOLIDS
 SM 2540C**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-9-220921					
Laboratory ID:	09-200-01					
Total Dissolved Solids	430	13	SM 2540C	9-23-22	9-23-22	



Date of Report: October 6, 2022
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Laboratory Reference: 2209-200
Project: 6694-002-00 T700

AMMONIA (as Nitrogen)
SM 4500-NH₃ D

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-9-220921					
Laboratory ID:	09-200-01					
Ammonia	1.1	0.050	SM 4500-NH3 D	10-5-22	10-5-22	



Date of Report: October 6, 2022
Samples Submitted: September 22, 2022
Laboratory Reference: 2209-200
Project: 6694-002-00 T700

**TOTAL ORGANIC CARBON
SM 5310B**

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-9-220921					
Laboratory ID:	09-200-01					
Total Organic Carbon	7.4	1.0	SM 5310B	9-29-22	9-29-22	



Date of Report: October 6, 2022
 Samples Submitted: September 22, 2022
 Laboratory Reference: 2209-200
 Project: 6694-002-00 T700

**GASOLINE RANGE ORGANICS
 NWTPH-Gx
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0923W1					
Gasoline	ND	100	NWTPH-Gx	9-23-22	9-23-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>		<i>Control Limits</i>			
<i>Fluorobenzene</i>	99	65-122				

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	09-154-01							
	ORIG	DUP						
Gasoline	ND	ND	NA	NA	NA	NA	30	
<i>Surrogate:</i>								
<i>Fluorobenzene</i>				99	99	65-122		



Date of Report: October 6, 2022
 Samples Submitted: September 22, 2022
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 Project: 6694-002-00 T700

**DIESEL AND HEAVY OIL RANGE ORGANICS
 NWTPH-Dx
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0927W1					
Diesel Range Organics	ND	0.10	NWTPH-Dx	9-27-22	9-27-22	
Lube Oil Range Organics	ND	0.16	NWTPH-Dx	9-27-22	9-27-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	89	50-150				

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	SB0927W1							
	ORIG	DUP						
Diesel Fuel #2	0.425	0.371	NA	NA	NA	NA	14	NA
<i>Surrogate:</i>								
<i>o-Terphenyl</i>				103	90	50-150		



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**PAHS EPA 8270E/SIM
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0927W1					
Naphthalene	ND	0.10	EPA 8270E/SIM	9-27-22	9-27-22	
2-Methylnaphthalene	ND	0.10	EPA 8270E/SIM	9-27-22	9-27-22	
1-Methylnaphthalene	ND	0.10	EPA 8270E/SIM	9-27-22	9-27-22	
Acenaphthylene	ND	0.10	EPA 8270E/SIM	9-27-22	9-27-22	
Acenaphthene	ND	0.10	EPA 8270E/SIM	9-27-22	9-27-22	
Fluorene	ND	0.10	EPA 8270E/SIM	9-27-22	9-27-22	
Phenanthrene	ND	0.10	EPA 8270E/SIM	9-27-22	9-27-22	
Anthracene	ND	0.10	EPA 8270E/SIM	9-27-22	9-27-22	
Fluoranthene	ND	0.10	EPA 8270E/SIM	9-27-22	9-27-22	
Pyrene	ND	0.10	EPA 8270E/SIM	9-27-22	9-27-22	
Benzo[a]anthracene	ND	0.010	EPA 8270E/SIM	9-27-22	9-27-22	
Chrysene	ND	0.010	EPA 8270E/SIM	9-27-22	9-27-22	
Benzo[b]fluoranthene	ND	0.010	EPA 8270E/SIM	9-27-22	9-27-22	
Benzo(j,k)fluoranthene	ND	0.010	EPA 8270E/SIM	9-27-22	9-27-22	
Benzo[a]pyrene	ND	0.010	EPA 8270E/SIM	9-27-22	9-27-22	
Indeno(1,2,3-c,d)pyrene	ND	0.010	EPA 8270E/SIM	9-27-22	9-27-22	
Dibenz[a,h]anthracene	ND	0.010	EPA 8270E/SIM	9-27-22	9-27-22	
Benzo[g,h,i]perylene	ND	0.010	EPA 8270E/SIM	9-27-22	9-27-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
2-Fluorobiphenyl	54	20 - 106				
Pyrene-d10	72	19 - 104				
Terphenyl-d14	86	41 - 127				



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**PAHS EPA 8270E/SIM
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD	RPD	Flags
					Recovery	Limits	Limit			
SPIKE BLANKS										
Laboratory ID:	SB0927W1									
	SB	SBD	SB	SBD	SB	SBD				
Naphthalene	0.297	0.270	0.500	0.500	59	54	25 - 82	10	39	
Acenaphthylene	0.310	0.299	0.500	0.500	62	60	35 - 107	4	26	
Acenaphthene	0.295	0.286	0.500	0.500	59	57	33 - 99	3	26	
Fluorene	0.330	0.315	0.500	0.500	66	63	43 - 95	5	24	
Phenanthrene	0.334	0.316	0.500	0.500	67	63	49 - 100	6	20	
Anthracene	0.325	0.301	0.500	0.500	65	60	47 - 101	8	21	
Fluoranthene	0.334	0.312	0.500	0.500	67	62	51 - 115	7	23	
Pyrene	0.349	0.329	0.500	0.500	70	66	53 - 117	6	24	
Benzo[a]anthracene	0.395	0.362	0.500	0.500	79	72	57 - 114	9	21	
Chrysene	0.376	0.341	0.500	0.500	75	68	55 - 119	10	21	
Benzo[b]fluoranthene	0.381	0.397	0.500	0.500	76	79	56 - 125	4	26	
Benzo(j,k)fluoranthene	0.446	0.375	0.500	0.500	89	75	53 - 124	17	22	
Benzo[a]pyrene	0.367	0.338	0.500	0.500	73	68	54 - 119	8	22	
Indeno(1,2,3-c,d)pyrene	0.438	0.404	0.500	0.500	88	81	55 - 118	8	23	
Dibenz[a,h]anthracene	0.389	0.355	0.500	0.500	78	71	56 - 118	9	23	
Benzo[g,h,i]perylene	0.345	0.312	0.500	0.500	69	62	55 - 117	10	22	
<i>Surrogate:</i>										
2-Fluorobiphenyl					51	47	20 - 106			
Pyrene-d10					67	62	19 - 104			
Terphenyl-d14					81	74	41 - 127			



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**ORGANOCHLORINE
 PESTICIDES EPA 8081B
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0928W1					
alpha-BHC	ND	0.0050	EPA 8081B	9-28-22	9-28-22	
gamma-BHC	ND	0.0050	EPA 8081B	9-28-22	9-28-22	
beta-BHC	ND	0.0050	EPA 8081B	9-28-22	9-28-22	
delta-BHC	ND	0.0050	EPA 8081B	9-28-22	9-28-22	
Heptachlor	ND	0.0050	EPA 8081B	9-28-22	9-28-22	
Aldrin	ND	0.0020	EPA 8081B	9-28-22	9-28-22	
Heptachlor epoxide	ND	0.0030	EPA 8081B	9-28-22	9-28-22	
gamma-Chlordane	ND	0.0050	EPA 8081B	9-28-22	9-28-22	
alpha-Chlordane	ND	0.0050	EPA 8081B	9-28-22	9-28-22	
4,4'-DDE	ND	0.0050	EPA 8081B	9-28-22	9-28-22	
Endosulfan I	ND	0.0050	EPA 8081B	9-28-22	9-28-22	
Dieldrin	ND	0.0050	EPA 8081B	9-28-22	9-28-22	
Endrin	ND	0.0050	EPA 8081B	9-28-22	9-28-22	
4,4'-DDD	ND	0.0050	EPA 8081B	9-28-22	9-28-22	
Endosulfan II	ND	0.0050	EPA 8081B	9-28-22	9-28-22	
4,4'-DDT	ND	0.0050	EPA 8081B	9-28-22	9-28-22	
Endrin aldehyde	ND	0.0050	EPA 8081B	9-28-22	9-28-22	
Methoxychlor	ND	0.010	EPA 8081B	9-28-22	9-28-22	
Endosulfan sulfate	ND	0.0050	EPA 8081B	9-28-22	9-28-22	
Endrin ketone	ND	0.020	EPA 8081B	9-28-22	9-28-22	
Toxaphene	ND	0.050	EPA 8081B	9-28-22	9-28-22	
Tech Chlordane	ND	0.050	EPA 8081B	9-28-22	9-28-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control limits</i>				
<i>Tetrachloro-m-xylene</i>	<i>70</i>	<i>21-110</i>				
<i>Decachlorobiphenyl</i>	<i>102</i>	<i>42-113</i>				



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**ORGANOCHLORINE
 PESTICIDES EPA 8081B
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS											
Laboratory ID:	SB0928W1										
	SB	SBD	SB	SBD		SB	SBD				
alpha-BHC	0.0891	0.0972	0.100	0.100	N/A	89	97	50-113	9	19	
gamma-BHC	0.0913	0.0971	0.100	0.100	N/A	91	97	50-114	6	15	
beta-BHC	0.0861	0.0913	0.100	0.100	N/A	86	91	45-110	6	15	
delta-BHC	0.117	0.126	0.100	0.100	N/A	117	126	40-113	7	15	I
Heptachlor	0.0831	0.0938	0.100	0.100	N/A	83	94	41-107	12	16	
Aldrin	0.0773	0.0864	0.100	0.100	N/A	77	86	39-105	11	15	
Heptachlor epoxide	0.0843	0.0903	0.100	0.100	N/A	84	90	53-106	7	15	
gamma-Chlordane	0.0848	0.0917	0.100	0.100	N/A	85	92	46-110	8	15	
alpha-Chlordane	0.0833	0.0897	0.100	0.100	N/A	83	90	46-110	7	15	
4,4'-DDE	0.0969	0.105	0.100	0.100	N/A	97	105	39-129	8	15	
Endosulfan I	0.0849	0.0915	0.100	0.100	N/A	85	92	51-109	7	15	
Dieldrin	0.0901	0.0978	0.100	0.100	N/A	90	98	55-112	8	15	
Endrin	0.100	0.110	0.100	0.100	N/A	100	110	54-119	10	16	
4,4'-DDD	0.104	0.115	0.100	0.100	N/A	104	115	52-142	10	15	
Endosulfan II	0.0954	0.104	0.100	0.100	N/A	95	104	49-115	9	15	
4,4'-DDT	0.111	0.120	0.100	0.100	N/A	111	120	52-136	8	15	
Endrin aldehyde	0.0856	0.0945	0.100	0.100	N/A	86	95	39-128	10	15	
Methoxychlor	0.115	0.128	0.100	0.100	N/A	115	128	56-156	11	19	
Endosulfan sulfate	0.118	0.129	0.100	0.100	N/A	118	129	44-120	9	15	I
Endrin ketone	0.110	0.123	0.100	0.100	N/A	110	123	45-122	11	15	I
<i>Surrogate:</i>											
<i>Tetrachloro-m-xylene</i>						65	73	21-110			
<i>Decachlorobiphenyl</i>						97	104	42-113			



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TOTAL METALS
EPA 200.8/200.7/7470A
QUALITY CONTROL

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0929WH2					
Iron	ND	50	EPA 200.7	9-29-22	9-30-22	
Magnesium	ND	1000	EPA 200.7	9-29-22	9-30-22	
Manganese	ND	10	EPA 200.7	9-29-22	9-30-22	
Laboratory ID:	MB0929WM1					
Arsenic	ND	3.3	EPA 200.8	9-29-22	9-29-22	
Cadmium	ND	4.4	EPA 200.8	9-29-22	9-29-22	
Chromium	ND	11	EPA 200.8	9-29-22	9-29-22	
Copper	ND	11	EPA 200.8	9-29-22	9-29-22	
Lead	ND	1.1	EPA 200.8	9-29-22	9-29-22	
Nickel	ND	22	EPA 200.8	9-29-22	9-29-22	
Selenium	ND	5.6	EPA 200.8	9-29-22	9-29-22	
Zinc	ND	28	EPA 200.8	9-29-22	9-29-22	
Laboratory ID:	MB0928W1					
Mercury	ND	0.025	EPA 7470A	9-28-22	9-28-22	



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TOTAL METALS
EPA 200.8/200.7/7470A
QUALITY CONTROL

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	09-159-07							
	ORIG	DUP						
Iron	ND	ND	NA	NA	NA	NA	NA	20
Magnesium	16200	16800	NA	NA	NA	NA	4	20
Manganese	31.0	30.3	NA	NA	NA	NA	2	20
Laboratory ID:	09-267-10							
Arsenic	ND	ND	NA	NA	NA	NA	NA	20
Cadmium	ND	ND	NA	NA	NA	NA	NA	20
Chromium	ND	ND	NA	NA	NA	NA	NA	20
Copper	ND	ND	NA	NA	NA	NA	NA	20
Lead	ND	ND	NA	NA	NA	NA	NA	20
Nickel	ND	ND	NA	NA	NA	NA	NA	20
Selenium	ND	ND	NA	NA	NA	NA	NA	20
Zinc	ND	ND	NA	NA	NA	NA	NA	20
Laboratory ID:	09-199-01							
Mercury	ND	ND	NA	NA	NA	NA	NA	20
MATRIX SPIKES								
Laboratory ID:	09-159-07							
	MS	MSD	MS	MSD	MS	MSD		
Iron	22800	22600	20000	20000	ND	114 113	75-125	1 20
Magnesium	36800	35800	20000	20000	16200	103 98	75-125	3 20
Manganese	540	537	500	500	31.0	102 101	75-125	1 20
Laboratory ID:	09-267-10							
Arsenic	101	101	111	111	ND	91 91	75-125	0 20
Cadmium	94.7	96.0	111	111	ND	85 87	75-125	1 20
Chromium	91.8	93.8	111	111	ND	83 85	75-125	2 20
Copper	88.7	90.4	111	111	ND	80 82	75-125	2 20
Lead	96.7	97.3	111	111	ND	87 88	75-125	1 20
Nickel	88.9	89.8	111	111	ND	80 81	75-125	1 20
Selenium	101	106	111	111	ND	91 96	75-125	5 20
Zinc	98.2	97.1	111	111	ND	89 88	75-125	1 20
Laboratory ID:	09-199-01							
Mercury	6.00	5.95	12.5	12.5	ND	48 48	75-125	1 20



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**DISSOLVED METALS
 EPA 200.8/200.7/7470A
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0928D1					
Calcium	ND	1100	EPA 200.7		9-28-22	
Manganese	ND	11	EPA 200.7		9-28-22	
Sodium	ND	1100	EPA 200.7		9-28-22	
Laboratory ID:	MB0929D1					
Arsenic	ND	3.0	EPA 200.8		9-29-22	
Cadmium	ND	4.0	EPA 200.8		9-29-22	
Chromium	ND	10	EPA 200.8		9-29-22	
Copper	ND	10	EPA 200.8		9-29-22	
Lead	ND	1.0	EPA 200.8		9-29-22	
Nickel	ND	20	EPA 200.8		9-29-22	
Selenium	ND	5.0	EPA 200.8		9-29-22	
Zinc	ND	25	EPA 200.8		9-29-22	
Laboratory ID:	MB0928D1					
Mercury	ND	0.025	EPA 7470A		9-28-22	
Laboratory ID:	MB0929D1					
Iron	ND	56	EPA 200.7		9-28-22	
Magnesium	ND	1100	EPA 200.7		9-28-22	
Potassium	ND	1100	EPA 200.7		9-29-22	



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DISSOLVED METALS
EPA 200.8/200.7/7470A
QUALITY CONTROL

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result		Spike Level		Source	Percent	Recovery	RPD		Flags
					Result	Recovery	Limits	RPD	Limit	
DUPLICATE										
Laboratory ID:	09-191-01									
	ORIG	DUP								
Iron	ND	ND	NA	NA		NA	NA	NA	20	
Magnesium	14300	14300	NA	NA		NA	NA	0	20	
Potassium	2220	2220	NA	NA		NA	NA	0	20	
Laboratory ID:	09-261-02									
	ORIG	DUP								
Calcium	16000	17200	NA	NA		NA	NA	7	20	
Manganese	93.6	100	NA	NA		NA	NA	7	20	
Sodium	12400	13300	NA	NA		NA	NA	7	20	
Laboratory ID:	09-294-01									
Arsenic	ND	ND	NA	NA		NA	NA	NA	20	
Cadmium	ND	ND	NA	NA		NA	NA	NA	20	
Chromium	ND	ND	NA	NA		NA	NA	NA	20	
Copper	ND	ND	NA	NA		NA	NA	NA	20	
Lead	ND	ND	NA	NA		NA	NA	NA	20	
Nickel	ND	ND	NA	NA		NA	NA	NA	20	
Selenium	ND	ND	NA	NA		NA	NA	NA	20	
Zinc	ND	ND	NA	NA		NA	NA	NA	20	
Laboratory ID:	09-199-01									
Mercury	ND	ND	NA	NA		NA	NA	NA	20	



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DISSOLVED METALS
EPA 200.8/200.7/7470A
QUALITY CONTROL

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result		Spike Level		Source	Percent	Recovery	RPD		
					Result	Recovery	Limits	RPD	Limit	Flags
MATRIX SPIKES										
Laboratory ID:	09-191-01									
	MS	MSD	MS	MSD		MS	MSD			
Iron	24900	24800	22200	22200	ND	112	112	75-125	0	20
Magnesium	38900	38900	22200	22200	14300	111	111	75-125	0	20
Potassium	27200	27000	22200	22200	2220	113	112	75-125	1	20
Laboratory ID:	09-261-02									
	MS	MSD	MS	MSD		MS	MSD			
Calcium	34900	41600	22200	22200	16000	85	116	75-125	18	20
Manganese	697	611	556	556	93.6	109	93	75-125	13	20
Sodium	31400	37700	22200	22200	12400	86	114	75-125	18	20
Laboratory ID:	09-294-01									
Arsenic	76.6	75.8	80.0	80.0	ND	96	95	75-125	1	20
Cadmium	75.0	75.4	80.0	80.0	ND	94	94	75-125	1	20
Chromium	73.4	72.6	80.0	80.0	ND	92	91	75-125	1	20
Copper	73.0	72.0	80.0	80.0	ND	91	90	75-125	1	20
Lead	75.6	74.8	80.0	80.0	ND	95	94	75-125	1	20
Nickel	72.4	72.6	80.0	80.0	ND	91	91	75-125	0	20
Selenium	76.6	78.6	80.0	80.0	ND	96	98	75-125	3	20
Zinc	76.0	78.8	80.0	80.0	ND	95	99	75-125	4	20
Laboratory ID:	09-199-01									
Mercury	5.95	6.03	6.25	6.25	ND	95	96	75-125	1	20



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**TOTAL ALKALINITY
 SM 2320B
 QUALITY CONTROL**

Matrix: Water
 Units: mg CaCO₃/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0929W1					
Total Alkalinity	ND	2.0	SM 2320B	9-29-22	9-29-22	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	09-190-01							
	ORIG	DUP						
Total Alkalinity	392	392	NA	NA	NA	0	10	

SPIKE BLANK								
Laboratory ID:	SB0929W1							
	SB	SB		SB				
Total Alkalinity	94.0	100	NA	94	89-110	NA	NA	



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**BICARBONATE
 SM 2320B
 QUALITY CONTROL**

Matrix: Water
 Units: mg CaCO₃/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0929W1					
Bicarbonate	ND	2.0	SM 2320B	9-29-22	9-29-22	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	09-190-01							
	ORIG	DUP						
Bicarbonate	392	392	NA	NA	NA	0	10	

SPIKE BLANK								
Laboratory ID:	SB0929W1							
	SB	SB		SB				
Bicarbonate	94.0	100	NA	94	89-110	NA	NA	



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**CHLORIDE
 SM 4500-Cl E
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0923W1					
Chloride	ND	2.0	SM 4500-Cl E	9-23-22	9-23-22	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	09-198-01							
	ORIG	DUP						
Chloride	5.20	5.75	NA	NA	NA	10	11	

MATRIX SPIKE								
Laboratory ID:	09-198-01							
	MS	MS		MS				
Chloride	54.5	50.0	5.20	99	90-121	NA	NA	

SPIKE BLANK								
Laboratory ID:	SB0923W1							
	SB	SB		SB				
Chloride	50.7	50.0	NA	101	90-119	NA	NA	



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NITRATE (as Nitrogen)
EPA 353.2
QUALITY CONTROL

Matrix: Water
 Units: mg/L-N

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0922W2					
Nitrate	ND	0.050	EPA 353.2	9-22-22	9-22-22	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	09-060-01							
	ORIG	DUP						
Nitrate	0.149	0.146	NA	NA	NA	2	10	

MATRIX SPIKE								
Laboratory ID:	09-060-01							
	MS	MS		MS				
Nitrate	1.97	2.00	0.149	91	88-125	NA	NA	

SPIKE BLANK								
Laboratory ID:	SB0922W2							
	SB	SB		SB				
Nitrate	2.01	2.00	NA	101	90-120	NA	NA	



Date of Report: October 6, 2022
 Samples Submitted: September 22, 2022
 Laboratory Reference: 2209-200
 Project: 6694-002-00 T700

**SULFATE
 ASTM D516-11
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0926W1					
Sulfate	ND	5.0	ASTM D516-11	9-26-22	9-26-22	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	09-203-01							
	ORIG	DUP						
Sulfate	15.9	16.0	NA	NA	NA	1	10	

MATRIX SPIKE								
Laboratory ID:	09-203-01							
	MS	MS		MS				
Sulfate	24.2	10.0	15.9	83	72-128	NA	NA	

SPIKE BLANK								
Laboratory ID:	SB0926W1							
	SB	SB		SB				
Sulfate	9.73	10.0	NA	97	85-114	NA	NA	



Date of Report: October 6, 2022
 Samples Submitted: September 22, 2022
 Laboratory Reference: 2209-200
 Project: 6694-002-00 T700

**TOTAL DISSOLVED SOLIDS
 SM 2540C
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0923W1					
Total Dissolved Solids	ND	13	SM 2540C	9-23-22	9-23-22	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	09-189-01							
	ORIG	DUP						
Total Dissolved Solids	175	175	NA	NA	NA	0	23	

SPIKE BLANK								
Laboratory ID:	SB0923W1							
	SB	SB		SB				
Total Dissolved Solids	528	500	NA	106	89-120	NA	NA	



Date of Report: October 6, 2022
 Samples Submitted: September 22, 2022
 Laboratory Reference: 2209-200
 Project: 6694-002-00 T700

**AMMONIA (as Nitrogen)
 SM 4500-NH₃ D
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1005W1					
Ammonia	ND	0.050	SM 4500-NH3 D	10-5-22	10-5-22	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	09-253-01							
	ORIG	DUP						
Ammonia	ND	ND	NA	NA	NA	NA	15	

MATRIX SPIKE								
Laboratory ID:	09-253-01							
	MS	MS		MS				
Ammonia	4.92	5.00	ND	98	87-110	NA	NA	

SPIKE BLANK								
Laboratory ID:	SB1005W1							
	SB	SB		SB				
Ammonia	4.98	5.00	NA	100	88-110	NA	NA	



Date of Report: October 6, 2022
 Samples Submitted: September 22, 2022
 Laboratory Reference: 2209-200
 Project: 6694-002-00 T700

**TOTAL ORGANIC CARBON
 SM 5310B
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0929W1					
Total Organic Carbon	ND	1.0	SM 5310B	9-29-22	9-29-22	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	09-165-01							
	ORIG	DUP						
Total Organic Carbon	5.31	5.31	NA	NA	NA	0	12	

MATRIX SPIKE								
Laboratory ID:	09-165-01							
	MS	MS		MS				
Total Organic Carbon	15.5	10.0	5.31	102	80-120	NA	NA	

SPIKE BLANK								
Laboratory ID:	SB0929W1							
	SB	SB		SB				
Total Organic Carbon	10.5	10.0	NA	105	80-118	NA	NA	





Data Qualifiers and Abbreviations

- A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.
 - B - The analyte indicated was also found in the blank sample.
 - C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.
 - E - The value reported exceeds the quantitation range and is an estimate.
 - F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.
 - H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.
 - I - Compound recovery is outside of the control limits.
 - J - The value reported was below the practical quantitation limit. The value is an estimate.
 - K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.
 - L - The RPD is outside of the control limits.
 - M - Hydrocarbons in the gasoline range are impacting the diesel range result.
 - M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.
 - N - Hydrocarbons in the lube oil range are impacting the diesel range result.
 - N1 - Hydrocarbons in diesel range are impacting lube oil range results.
 - O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.
 - P - The RPD of the detected concentrations between the two columns is greater than 40.
 - Q - Surrogate recovery is outside of the control limits.
 - S - Surrogate recovery data is not available due to the necessary dilution of the sample.
 - T - The sample chromatogram is not similar to a typical _____.
 - U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
 - U1 - The practical quantitation limit is elevated due to interferences present in the sample.
 - V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.
 - W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.
 - X - Sample extract treated with a mercury cleanup procedure.
 - X1 - Sample extract treated with a sulfuric acid/silica gel cleanup procedure.
 - Y - The calibration verification for this analyte exceeded the 20% drift specified in methods 8260 & 8270, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.
 - Z -
- ND - Not Detected at PQL
 PQL - Practical Quantitation Limit
 RPD - Relative Percent Difference





**OnSite
Environmental Inc.**

14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

October 7, 2022

Garrett Leque
GeoEngineers, Inc.
554 West Bakerview Road
Bellingham, WA 98226

Re: Analytical Data for Project 6694-002-05 T700
Laboratory Reference No. 2209-225

Dear Garrett:

Enclosed are the analytical results and associated quality control data for samples submitted on September 23, 2022.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

David Baumeister
Project Manager

Enclosures



Date of Report: October 7, 2022
Samples Submitted: September 23, 2022
Laboratory Reference: 2209-225
Project: 6694-002-05

Case Narrative

Samples were collected on September 22 and 23, 2022 and received by the laboratory on September 23, 2022. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

Nitrate (as Nitrogen) EPA 353.2 Analysis

The reported Nitrate results are a calculated value based on the subtraction of Nitrite from the Nitrate plus Nitrite result. The Nitrite analysis, which has a 48-hour holding time, was performed within the holding time. Immediately after this analysis, an aliquot from each sample was preserved with concentrated sulfuric acid and stored at 4 degrees C. The preserved samples were then analyzed within the maximum 28-day holding time for the Nitrate plus Nitrite analysis.

Any other QA/QC issues associated with this extraction and analysis will be indicated with a footnote reference and discussed in detail on the Data Qualifier page.



Date of Report: October 7, 2022
Samples Submitted: September 23, 2022
Laboratory Reference: 2209-225
Project: 6694-002-05

ANALYTICAL REPORT FOR SAMPLES

Client ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
MW-1-20220922	09-225-01	Water	9-22-22	9-23-22	
MW-2-20220922	09-225-02	Water	9-22-22	9-23-22	
MW-5-20220923	09-225-03	Water	9-23-22	9-23-22	

DRAFT



Date of Report: October 7, 2022
 Samples Submitted: September 23, 2022
 Laboratory Reference: 2209-225
 Project: 6694-002-05

TOTAL METALS
EPA 200.8/200.7

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-1-20220922					
Laboratory ID:	09-225-01					
Arsenic	5.3	3.3	EPA 200.8	9-29-22	9-29-22	
Iron	960	50	EPA 200.7	9-29-22	9-30-22	
Magnesium	8300	1000	EPA 200.7	9-29-22	9-30-22	
Manganese	260	10	EPA 200.7	9-29-22	9-30-22	

Client ID:	MW-2-20220922					
Laboratory ID:	09-225-02					
Arsenic	4.5	3.3	EPA 200.8	9-29-22	9-29-22	
Iron	1100	50	EPA 200.7	9-29-22	9-30-22	
Magnesium	14000	1000	EPA 200.7	9-29-22	9-30-22	
Manganese	230	10	EPA 200.7	9-29-22	9-30-22	

Client ID:	MW-5-20220923					
Laboratory ID:	09-225-03					
Arsenic	4.8	3.3	EPA 200.8	9-29-22	9-29-22	
Iron	380	50	EPA 200.7	9-29-22	9-30-22	
Magnesium	15000	1000	EPA 200.7	9-29-22	9-30-22	
Manganese	170	10	EPA 200.7	9-29-22	9-30-22	



Date of Report: October 7, 2022
 Samples Submitted: September 23, 2022
 Laboratory Reference: 2209-225
 Project: 6694-002-05

DISSOLVED METALS
EPA 200.8/200.7

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-1-20220922					
Laboratory ID:	09-225-01					
Arsenic	3.9	3.0	EPA 200.8		9-29-22	
Calcium	17000	1100	EPA 200.7		9-28-22	
Iron	160	56	EPA 200.7		9-29-22	
Magnesium	9200	1100	EPA 200.7		9-29-22	
Manganese	240	11	EPA 200.7		9-28-22	
Potassium	2100	1100	EPA 200.7		9-29-22	
Sodium	5100	1100	EPA 200.7		9-28-22	

Client ID:	MW-2-20220922					
Laboratory ID:	09-225-02					
Arsenic	4.2	3.0	EPA 200.8		9-29-22	
Calcium	21000	1100	EPA 200.7		9-28-22	
Iron	ND	56	EPA 200.7		9-29-22	
Magnesium	15000	1100	EPA 200.7		9-29-22	
Manganese	210	11	EPA 200.7		9-28-22	
Potassium	2300	1100	EPA 200.7		9-29-22	
Sodium	6300	1100	EPA 200.7		9-28-22	

Client ID:	MW-5-20220923					
Laboratory ID:	09-225-03					
Arsenic	5.4	3.0	EPA 200.8		9-29-22	
Calcium	27000	1100	EPA 200.7		9-28-22	
Iron	ND	56	EPA 200.7		9-29-22	
Magnesium	16000	1100	EPA 200.7		9-29-22	
Manganese	120	11	EPA 200.7		9-28-22	
Potassium	2500	1100	EPA 200.7		9-29-22	
Sodium	7000	1100	EPA 200.7		9-28-22	



Date of Report: October 7, 2022
 Samples Submitted: September 23, 2022
 Laboratory Reference: 2209-225
 Project: 6694-002-05

**TOTAL ALKALINITY
 SM 2320B**

Matrix: Water
 Units: mg CaCO₃/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-1-20220922					
Laboratory ID:	09-225-01					
Total Alkalinity	80	2.0	SM 2320B	9-29-22	9-29-22	
Client ID:	MW-2-20220922					
Laboratory ID:	09-225-02					
Total Alkalinity	110	2.0	SM 2320B	9-29-22	9-29-22	
Client ID:	MW-5-20220923					
Laboratory ID:	09-225-03					
Total Alkalinity	120	2.0	SM 2320B	9-29-22	9-29-22	



Date of Report: October 7, 2022
 Samples Submitted: September 23, 2022
 Laboratory Reference: 2209-225
 Project: 6694-002-05 T700

**BICARBONATE
 SM 2320B**

Matrix: Water
 Units: mg CaCO₃/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-1-20220922					
Laboratory ID:	09-225-01					
Bicarbonate	80	2.0	SM 2320B	9-29-22	9-29-22	
Client ID:	MW-2-20220922					
Laboratory ID:	09-225-02					
Bicarbonate	110	2.0	SM 2320B	9-29-22	9-29-22	
Client ID:	MW-5-20220923					
Laboratory ID:	09-225-03					
Bicarbonate	120	2.0	SM 2320B	9-29-22	9-29-22	



Date of Report: October 7, 2022
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 Laboratory Reference: 2209-225
 Project: 6694-002-05

CHLORIDE
SM 4500-Cl E

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-1-20220922					
Laboratory ID:	09-225-01					
Chloride	2.3	2.0	SM 4500-Cl E	10-5-22	10-5-22	
Client ID:	MW-2-20220922					
Laboratory ID:	09-225-02					
Chloride	3.0	2.0	SM 4500-Cl E	10-5-22	10-5-22	
Client ID:	MW-5-20220923					
Laboratory ID:	09-225-03					
Chloride	5.9	2.0	SM 4500-Cl E	10-5-22	10-5-22	



Date of Report: October 7, 2022
 Samples Submitted: September 23, 2022
 Laboratory Reference: 2209-225
 Project: 6694-002-05

NITRATE (as Nitrogen)
EPA 353.2

Matrix: Water
 Units: mg/L-N

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-1-20220922					
Laboratory ID:	09-225-01					
Nitrate	ND	0.050	EPA 353.2	9-23-22	9-23-22	
Client ID:	MW-2-20220922					
Laboratory ID:	09-225-02					
Nitrate	ND	0.050	EPA 353.2	9-23-22	9-23-22	
Client ID:	MW-5-20220923					
Laboratory ID:	09-225-03					
Nitrate	ND	0.050	EPA 353.2	9-23-22	9-23-22	



Date of Report: October 7, 2022
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 Project: 6694-002-05

SULFATE
ASTM D516-11

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-1-20220922					
Laboratory ID:	09-225-01					
Sulfate	5.2	5.0	ASTM D516-11	9-26-22	9-26-22	
Client ID:	MW-2-20220922					
Laboratory ID:	09-225-02					
Sulfate	8.8	5.0	ASTM D516-11	9-26-22	9-26-22	
Client ID:	MW-5-20220923					
Laboratory ID:	09-225-03					
Sulfate	13	5.0	ASTM D516-11	9-26-22	9-26-22	



Date of Report: October 7, 2022
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 Laboratory Reference: 2209-225
 Project: 6694-002-05

**TOTAL DISSOLVED SOLIDS
 SM 2540C**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-1-20220922					
Laboratory ID:	09-225-01					
Total Dissolved Solids	130	13	SM 2540C	9-28-22	9-30-22	
Client ID:	MW-2-20220922					
Laboratory ID:	09-225-02					
Total Dissolved Solids	160	13	SM 2540C	9-28-22	9-30-22	
Client ID:	MW-5-20220923					
Laboratory ID:	09-225-03					
Total Dissolved Solids	170	13	SM 2540C	9-28-22	9-30-22	



Date of Report: October 7, 2022
 Samples Submitted: September 23, 2022
 Laboratory Reference: 2209-225
 Project: 6694-002-05

AMMONIA (as Nitrogen)
SM 4500-NH₃ D

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-1-20220922					
Laboratory ID:	09-225-01					
Ammonia	0.16	0.050	SM 4500-NH3 D	10-5-22	10-5-22	
Client ID:	MW-2-20220922					
Laboratory ID:	09-225-02					
Ammonia	0.10	0.050	SM 4500-NH3 D	10-5-22	10-5-22	
Client ID:	MW-5-20220923					
Laboratory ID:	09-225-03					
Ammonia	0.061	0.050	SM 4500-NH3 D	10-5-22	10-5-22	



Date of Report: October 7, 2022
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 Laboratory Reference: 2209-225
 Project: 6694-002-05

**TOTAL ORGANIC CARBON
 SM 5310B**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-1-20220922					
Laboratory ID:	09-225-01					
Total Organic Carbon	ND	1.0	SM 5310B	9-29-22	9-29-22	
Client ID:	MW-2-20220922					
Laboratory ID:	09-225-02					
Total Organic Carbon	ND	1.0	SM 5310B	9-29-22	9-29-22	
Client ID:	MW-5-20220923					
Laboratory ID:	09-225-03					
Total Organic Carbon	ND	1.0	SM 5310B	9-29-22	9-29-22	



Date of Report: October 7, 2022
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 Laboratory Reference: 2209-225
 Project: 6694-002-05

**TOTAL METALS
 EPA 200.8/200.7
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0929WH2					
Iron	ND	50	EPA 200.7	9-29-22	9-30-22	
Magnesium	ND	1000	EPA 200.7	9-29-22	9-30-22	
Manganese	ND	10	EPA 200.7	9-29-22	9-30-22	
METHOD BLANK						
Laboratory ID:	MB0929WM1					
Arsenic	ND	3.3	EPA 200.8	9-29-22	9-29-22	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	09-159-07							
	ORIG	DUP						
Iron	ND	ND	NA	NA	NA	NA	20	
Magnesium	16200	16800	NA	NA	NA	4	20	
Manganese	31.0	30.3	NA	NA	NA	2	20	
DUPLICATE								
Laboratory ID:	09-267-10							
Arsenic	ND	ND	NA	NA	NA	NA	20	

MATRIX SPIKES

Laboratory ID:	09-159-07									
	MS	MSD	MS	MSD		MS	MSD			
Iron	22800	22600	20000	20000	ND	114	113	75-125	1	20
Magnesium	36800	35800	20000	20000	16200	103	98	75-125	3	20
Manganese	540	537	500	500	31.0	102	101	75-125	1	20
MATRIX SPIKES										
Laboratory ID:	09-267-10									
Arsenic	101	101	111	111	ND	91	91	75-125	0	20



Date of Report: October 7, 2022
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DISSOLVED METALS
EPA 200.8/200.7
QUALITY CONTROL

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0928D1					
Calcium	ND	1100	EPA 200.7		9-28-22	
Manganese	ND	11	EPA 200.7		9-28-22	
Sodium	ND	1100	EPA 200.7		9-28-22	
Laboratory ID:	MB0929D1					
Arsenic	ND	3.0	EPA 200.8		9-29-22	
Laboratory ID:	MB0929D1					
Iron	ND	56	EPA 200.7		9-28-22	
Magnesium	ND	1100	EPA 200.7		9-28-22	
Potassium	ND	1100	EPA 200.7		9-29-22	



Date of Report: October 7, 2022
 Samples Submitted: September 23, 2022
 Laboratory Reference: 2209-225
 Project: 6694-002-05

**DISSOLVED METALS
 EPA 200.8/200.7
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags		
DUPLICATE										
Laboratory ID:	09-261-02									
	ORIG	DUP								
Calcium	16000	17200	NA	NA	NA	NA	7	20		
Manganese	93.6	100	NA	NA	NA	NA	7	20		
Sodium	12400	13300	NA	NA	NA	NA	7	20		
Laboratory ID:	09-294-01									
Arsenic	ND	ND	NA	NA	NA	NA	NA	20		
Laboratory ID:	09-191-01									
	ORIG	DUP								
Iron	ND	ND	NA	NA	NA	NA	NA	20		
Magnesium	14300	14300	NA	NA	NA	NA	0	20		
Potassium	2220	2220	NA	NA	NA	NA	0	20		
MATRIX SPIKES										
Laboratory ID:	09-261-02									
	MS	MSD	MS	MSD	MS	MSD				
Calcium	34900	41600	22200	22200	16000	85	116	75-125	18	20
Manganese	697	611	556	556	93.6	109	93	75-125	13	20
Sodium	31400	37700	22200	22200	12400	86	114	75-125	18	20
Laboratory ID:	09-294-01									
Arsenic	76.6	75.8	80.0	80.0	ND	96	95	75-125	1	20
Laboratory ID:	09-191-01									
	MS	MSD	MS	MSD	MS	MSD				
Iron	24900	24800	22200	22200	ND	112	112	75-125	0	20
Magnesium	38900	38900	22200	22200	14300	111	111	75-125	0	20
Potassium	27200	27000	22200	22200	2220	113	112	75-125	1	20



Date of Report: October 7, 2022
 Samples Submitted: September 23, 2022
 Laboratory Reference: 2209-225
 Project: 6694-002-05

**TOTAL ALKALINITY
 SM 2320B
 QUALITY CONTROL**

Matrix: Water
 Units: mg CaCO₃/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0929W1					
Total Alkalinity	ND	2.0	SM 2320B	9-29-22	9-29-22	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	09-190-01							
	ORIG	DUP						
Total Alkalinity	392	392	NA	NA	NA	0	10	

SPIKE BLANK								
Laboratory ID:	SB0929W1							
	SB	SB		SB				
Total Alkalinity	94.0	100	NA	94	89-110	NA	NA	



Date of Report: October 7, 2022
 Samples Submitted: September 23, 2022
 Laboratory Reference: 2209-225
 Project: 6694-002-05

**BICARBONATE
 SM 2320B
 QUALITY CONTROL**

Matrix: Water
 Units: mg CaCO₃/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0929W1					
Bicarbonate	ND	2.0	SM 2320B	9-29-22	9-29-22	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	09-190-01							
	ORIG	DUP						
Bicarbonate	392	392	NA	NA	NA	0	10	

SPIKE BLANK								
Laboratory ID:	SB0929W1							
	SB	SB		SB				
Bicarbonate	94.0	100	NA	94	89-110	NA	NA	



Date of Report: October 7, 2022
 Samples Submitted: September 23, 2022
 Laboratory Reference: 2209-225
 Project: 6694-002-05

**CHLORIDE
 SM 4500-Cl E
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1004W1					
Chloride	ND	2.0	SM 4500-Cl E	10-5-22	10-5-22	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	09-297-01							
	ORIG	DUP						
Chloride	3.93	4.08	NA	NA	NA	4	11	

MATRIX SPIKE								
Laboratory ID:	09-297-01							
	MS	MS		MS				
Chloride	49.9	50.0	3.93	92	90-121	NA	NA	

SPIKE BLANK								
Laboratory ID:	SB1004W1							
	SB	SB		SB				
Chloride	45.3	50.0	NA	91	90-119	NA	NA	



Date of Report: October 7, 2022
 Samples Submitted: September 23, 2022
 Laboratory Reference: 2209-225
 Project: 6694-002-05

**NITRATE (as Nitrogen)
 EPA 353.2
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L-N

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0923W1					
Nitrate	ND	0.050	EPA 353.2	9-23-22	9-23-22	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	09-225-01							
	ORIG	DUP						
Nitrate	ND	ND	NA	NA	NA	NA	10	

MATRIX SPIKE								
Laboratory ID:	09-225-01							
	MS	MS		MS				
Nitrate	1.77	2.00	ND	89	88-125	NA	NA	

SPIKE BLANK								
Laboratory ID:	SB0923W1							
	SB	SB		SB				
Nitrate	1.91	2.00	NA	96	90-120	NA	NA	



Date of Report: October 7, 2022
 Samples Submitted: September 23, 2022
 Laboratory Reference: 2209-225
 Project: 6694-002-05

**SULFATE
 ASTM D516-11
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0926W1					
Sulfate	ND	5.0	ASTM D516-11	9-26-22	9-26-22	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	09-203-01							
	ORIG	DUP						
Sulfate	15.9	16.0	NA	NA	NA	1	10	

MATRIX SPIKE								
Laboratory ID:	09-203-01							
	MS	MS		MS				
Sulfate	24.2	10.0	15.9	83	72-128	NA	NA	

SPIKE BLANK								
Laboratory ID:	SB0926W1							
	SB	SB		SB				
Sulfate	9.73	10.0	NA	97	85-114	NA	NA	



Date of Report: October 7, 2022
 Samples Submitted: September 23, 2022
 Laboratory Reference: 2209-225
 Project: 6694-002-05

**TOTAL DISSOLVED SOLIDS
 SM 2540C
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0928W1					
Total Dissolved Solids	ND	13	SM 2540C	9-28-22	9-30-22	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	09-253-01							
	ORIG	DUP						
Total Dissolved Solids	147	135	NA	NA	NA	9	23	

SPIKE BLANK								
Laboratory ID:	SB0928W1							
	SB	SB		SB				
Total Dissolved Solids	532	500	NA	106	89-120	NA	NA	



Date of Report: October 7, 2022
 Samples Submitted: September 23, 2022
 Laboratory Reference: 2209-225
 Project: 6694-002-05

**AMMONIA (as Nitrogen)
 SM 4500-NH₃ D
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1005W1					
Ammonia	ND	0.050	SM 4500-NH3 D	10-5-22	10-5-22	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	09-253-01							
	ORIG	DUP						
Ammonia	ND	ND	NA	NA	NA	NA	15	

MATRIX SPIKE								
Laboratory ID:	09-253-01							
	MS	MS		MS				
Ammonia	4.92	5.00	ND	98	87-110	NA	NA	

SPIKE BLANK								
Laboratory ID:	SB1005W1							
	SB	SB		SB				
Ammonia	4.98	5.00	NA	100	88-110	NA	NA	



Date of Report: October 7, 2022
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 Laboratory Reference: 2209-225
 Project: 6694-002-05

**TOTAL ORGANIC CARBON
 SM 5310B
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0929W1					
Total Organic Carbon	ND	1.0	SM 5310B	9-29-22	9-29-22	

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	09-165-01							
	ORIG	DUP						
Total Organic Carbon	5.31	5.31	NA	NA	NA	0	12	

MATRIX SPIKE								
Laboratory ID:	09-165-01							
	MS	MS		MS				
Total Organic Carbon	15.5	10.0	5.31	102	80-120	NA	NA	

SPIKE BLANK								
Laboratory ID:	SB0929W1							
	SB	SB		SB				
Total Organic Carbon	10.5	10.0	NA	105	80-118	NA	NA	





Data Qualifiers and Abbreviations

- A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.
- B - The analyte indicated was also found in the blank sample.
- C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.
- E - The value reported exceeds the quantitation range and is an estimate.
- F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.
- H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.
- I - Compound recovery is outside of the control limits.
- J - The value reported was below the practical quantitation limit. The value is an estimate.
- K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.
- L - The RPD is outside of the control limits.
- M - Hydrocarbons in the gasoline range are impacting the diesel range result.
- M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.
- N - Hydrocarbons in the lube oil range are impacting the diesel range result.
- N1 - Hydrocarbons in diesel range are impacting lube oil range results.
- O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.
- P - The RPD of the detected concentrations between the two columns is greater than 40.
- Q - Surrogate recovery is outside of the control limits.
- S - Surrogate recovery data is not available due to the necessary dilution of the sample.
- T - The sample chromatogram is not similar to a typical _____.
- U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
- U1 - The practical quantitation limit is elevated due to interferences present in the sample.
- V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.
- W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.
- X - Sample extract treated with a mercury cleanup procedure.
- X1 - Sample extract treated with a sulfuric acid/silica gel cleanup procedure.
- Y - The calibration verification for this analyte exceeded the 20% drift specified in methods 8260 & 8270, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.

Z -

ND - Not Detected at PQL
 PQL - Practical Quantitation Limit
 RPD - Relative Percent Difference



Project:	October 2022 Sediment and Surface Water Sampling Results Go East Landfill Site, Everett, Washington
GEI File:	6694-002-05
Date:	May 26, 2023

This report documents the results of a United States Environmental Protection Agency (USEPA)-defined Stage 2A data validation (USEPA Document 540-R-08-005; USEPA 2009) of analytical data from the analyses of sediment and surface water samples collected as part of the October 2022 sampling event, and the associated laboratory quality control (QC) samples. The samples were obtained from the Go East Landfill Site located in Everett, Washington.

OBJECTIVE AND QUALITY CONTROL ELEMENTS

GeoEngineers, Inc. (GeoEngineers) completed the data validation consistent with the USEPA Contract Laboratory Program National Functional Guidelines for Organic Superfund Data Review (USEPA 2020a) and Inorganic Superfund Data Review (USEPA 2020b) to determine if the laboratory analytical results meet the project objectives and are usable for their intended purpose. Data usability was assessed by determining if:

- The samples were analyzed using well-defined and acceptable methods that provide reporting limits below applicable regulatory criteria;
- The precision and accuracy of the data are measured by well-defined control limits to provide defensible data; and
- The quality assurance/quality control (QA/QC) procedures utilized by the laboratory meet acceptable industry practices and standards.

The data validation included review of the following QC elements:

- Data Package Completeness
- Chain-of-Custody Documentation
- Holding Times and Sample Preservation
- Method Blanks
- Surrogates
- Matrix Spikes/Matrix Spike Duplicates
- Laboratory Control Samples/Laboratory Control Sample Duplicates
- Laboratory Duplicates
- Reporting Limits

VALIDATED SAMPLE DELIVERY GROUPS

This data validation included review of the sample delivery group (SDG) listed below in Table 1.

TABLE 1: SUMMARY OF VALIDATED SAMPLE DELIVERY GROUP

2210-348	SED-4-221027, SED-5-221027, SED-6-221027, SED-7-221027, SED-8-221027, SED-9-221027, SED-10-221027, SED-11-221027, SWS-2-20221027, SWS-3-20221027

CHEMICAL ANALYSIS PERFORMED

OnSite Environmental, Inc. (OnSite) of Redmond, Washington, performed laboratory analysis on the sediment samples using one or more of the following methods:

- Petroleum Hydrocarbons (NWTPH-Dx) by Method NWTPH-Dx;
- Low-level Polycyclic Aromatic Hydrocarbons (PAHs) by Method EPA 8270E/Selective Ion Monitoring (SIM);
- Organochlorine Pesticides by Method EPA 8081B;
- Total Metals for sediments by Methods EPA 6010D, EPA 6020B, or EPA 7471B;
- Total Metals for surface water by Methods EPA 200.7, EPA 200.8, or EPA 245.1; and
- Total Solids by Method SM2540G

OnSite subcontracted to Fremont Analytical, Inc., (Fremont) located in Seattle, Washington for laboratory analyses on the sediment and surface water samples using the following method:

- Chlorinated Acid Herbicides by Method EPA 8151A

DATA VALIDATION SUMMARY

The results for each of the QC elements are summarized below.

Data Package Completeness

OnSite provided the required deliverables for the data validation according to the National Functional Guidelines. The laboratory followed adequate corrective action processes and the identified anomalies were discussed in the relevant laboratory case narrative.

Chain-of-Custody Documentation

Chain-of-custody (COC) forms were provided with the laboratory analytical reports. The COCs were accurate and complete when submitted to the laboratory. The forms were appropriately signed and dated by both field collectors and laboratory personnel upon receipt.

Holding Times and Sample Preservation

The sample holding time is defined as the time that elapses between sample collection and sample analysis. Maximum holding time criteria exist for each analysis to help ensure that the analyte concentrations found at the time of analysis reflect the concentration present at the time of sample collection. Established holding times were met for each analysis. The sample coolers arrived at the laboratory within the appropriate temperatures of between two and six degrees Celsius.

Method Blanks

Method blanks are analyzed to ensure that laboratory procedures and reagents do not introduce measurable concentrations of the analytes of interest. A method blank was analyzed with each batch of samples, at a frequency of 1 per 20 samples. For each sample batch, method blanks for the applicable methods were analyzed at the required frequency. None of the analytes of interest were detected above the reporting limits in the method blanks.

Surrogate Recoveries

A surrogate compound is a compound that is chemically similar to the organic analytes of interest, but unlikely to be found in an environmental sample. Surrogates are used for organic analyses and are added to the samples, standards, and blanks to serve as an accuracy and specificity check of each analysis. The surrogates are added to the samples at a known concentration and percent recoveries are calculated following analysis. The surrogate percent recoveries for field samples were within the laboratory control limits.

Matrix Spikes/Matrix Spike Duplicates

Since the actual analyte concentration in an environmental sample is not known, the accuracy of a particular analysis is usually inferred by performing a matrix spike (MS) analysis on one sample from the associated batch, known as the parent sample. One aliquot of the sample is analyzed in the normal manner and then a second aliquot of the sample is spiked with a known amount of analyte concentration and analyzed. From these analyses, a percent recovery is calculated. Matrix spike duplicate (MSD) analyses are generally performed for organic analyses as a precision check and analyzed in the same sequence as a matrix spike. Using the result values from the MS and MSD, the relative percent difference (RPD) is calculated. The percent recovery control limits for MS and MSD analyses are specified in the laboratory documents, as are the RPD control limits for MS/MSD sample sets.

For inorganic methods, the matrix spike is followed by a post-digestion spike sample if an element percent recovery was outside the control limits in the matrix spike. The percent recovery control limits for matrix spikes are 75% to 125%.

One MS/MSD analysis should be performed for every analytical batch or every 20 field samples, whichever is more frequent. The frequency requirements were met for each analysis and the percent recovery and RPD values were within the proper control limits, with the following exceptions:

SDG 2210-348: (Total Metals) The laboratory performed an MS/MSD sample set on Sample SED-5-221027. The percent recoveries for total iron and total manganese were outside the control limits in the MS/MSD digested on 11/4/2022. The positive results for these target analytes were qualified as estimated (J) in this sample.

Laboratory Control Samples/Laboratory Control Sample Duplicates

A Laboratory Control Sample (LCS) is a blank sample that is spiked with a known amount of analyte and then analyzed. An LCS is similar to an MS, but without the possibility of matrix interference. Given that matrix interference is not an issue, control limits for accuracy and precision in the LCS and its duplicate (LCSD) are usually more rigorous than for MS/MSD analyses. Additionally, data qualification based on LCS/LCSD analyses would apply to each sample in the associated batch, instead of just the parent sample. The percent recovery control limits for LCS and LCSD analyses are specified in the laboratory documents, as are the RPD control limits for LCS/LCSD sample sets.

One LCS/LCSD analysis should be performed for every analytical batch or every 20 field samples, whichever is more frequent. The frequency requirements were met for each analysis and the percent recovery and RPD values were within the proper control limits, with the following exception:

SDG 2210-348: (Herbicides) The RPD values for 4,4'-DDE, aldrin, and heptachlor were greater than the control limits in the LCS/LCSD extracted on 11/1/2022. There were no positive results for these target analytes in the associated field samples; therefore, no qualifications were required.

Laboratory Duplicates

Internal laboratory duplicate analyses are performed to monitor the precision of the analyses. Two separate aliquots of a sample are analyzed as distinct samples in the laboratory and the RPD between the two results is calculated. Duplicate analyses should be performed once per analytical batch. If one or more of the samples used has a concentration less than five times the reporting limit for that sample, the absolute difference is used instead of the RPD. For organic analyses, the RPD control limits are specified in the laboratory documents. For inorganic analyses, the RPD control limit for water samples is 20 percent. Laboratory duplicates were analyzed at the proper frequency and the specified acceptance criteria were met.

Reporting Limits

The contract required quantitation limits (CRQL) were met by the laboratory for the target analytes throughout this sampling event, with some exceptions where the CRQL was elevated due to required sample dilution.

OVERALL ASSESSMENT

As was determined by this data validation, the laboratory followed the specified analytical methods. Accuracy was acceptable, as demonstrated by the surrogates, LCS/LCSD, and MS/MSD percent recovery values, with the exceptions noted above. Precision was also acceptable, as demonstrated by the LCS/LCSD, MS/MSD, and laboratory duplicate RPD values, with the exceptions noted above.

The data are acceptable for the intended use, with the following qualifications listed below in Table 2.

TABLE 2: SUMMARY OF QUALIFIED SAMPLES

Sample ID	Analyte	Qualifier	Reason
SED-5-221027	Total iron	J	MS/MSD Recovery
	Total manganese	J	MS/MSD Recovery

REFERENCES

- GeoEngineers, Inc., "Interim Action Work Plan, Go East Corp Landfill Site, Everett, Washington, Ecology Agreed Order No. DE 18121 – prepared for Washington State Department of Ecology on Behalf of PG&E, LLC. GEI File No. 6694-002-03, April 23, 2020.
- U.S. Environmental Protection Agency (USEPA). "Guidance for Labeling Externally Validated Laboratory Analytical Data for Superfund Use," EPA-540-R-08-005. January 2009.
- U.S. Environmental Protection Agency (USEPA) 2020a. Contract Laboratory Program National Functional Guidelines for Organic Superfund Methods Data Review, EPA-540-R-20-005. November 2020.
- U.S. Environmental Protection Agency (USEPA) 2020b. Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Methods Data Review, EPA-542-R-20-006. November 2020.

DRAFT



14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

November 16, 2022

Garrett Leque
GeoEngineers, Inc.
554 West Bakerview Road
Bellingham, WA 98226

Re: Analytical Data for Project 6694-002-05 T700
Laboratory Reference No. 2210-348

Dear Garrett:

Enclosed are the analytical results and associated quality control data for samples submitted on October 28, 2022.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

A handwritten signature in black ink, appearing to read "DB", with a horizontal line extending to the right.

David Baumeister
Project Manager

Enclosures



OnSite Environmental, Inc. 14648 NE 95th Street, Redmond, WA 98052 (425) 883-3881

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: November 16, 2022
Samples Submitted: October 28, 2022
Laboratory Reference: 2210-348
Project: 6694-002-05 T700

Case Narrative

Samples were collected on October 28, 2022 and received by the laboratory on October 28, 2022. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

Organochlorine Pesticides by EPA 8081B (water) Analysis

The Heptachlor, Aldrin and DDE RPD results (17%, 22% and 18% respectively) were above the quality control limits of 16%, 15% and 15%. Due to the fact the sample was non-detect for these analytes and all other QC was within quality control limits, no further action was performed.

Total Metals EPA 6010D/7471B (soil) Analysis

Due to the high concentration of Iron and Manganese in the QC sample, the amount spiked was insufficient for meaningful MS/MSD recovery data. The Spike Blank recovery was 108 % for Iron and 105% for Manganese.

Please note that any other QA/QC issues associated with these extractions and analyses will be indicated with a footnote reference and discussed in detail on the Data Qualifier page.



Date of Report: November 16, 2022
Samples Submitted: October 28, 2022
Laboratory Reference: 2210-348
Project: 6694-002-05 T700

ANALYTICAL REPORT FOR SAMPLES

Client ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
SED-4-221027	10-348-01	Soil	10-27-22	10-28-22	
SED-5-221027	10-348-02	Soil	10-27-22	10-28-22	
SED-6-221027	10-348-03	Soil	10-27-22	10-28-22	
SED-7-221027	10-348-04	Soil	10-27-22	10-28-22	
SED-8-221027	10-348-05	Soil	10-27-22	10-28-22	
SED-9-221027	10-348-06	Soil	10-27-22	10-28-22	
SED-10-221027	10-348-07	Soil	10-27-22	10-28-22	
SED-11-221027	10-348-08	Soil	10-27-22	10-28-22	
SWS-2-20221027	10-348-09	Water	10-27-22	10-28-22	
SWS-3-20221027	10-348-10	Water	10-27-22	10-28-22	



Date of Report: November 16, 2022
 Samples Submitted: October 28, 2022
 Laboratory Reference: 2210-348
 Project: 6694-002-05 T700

**DIESEL AND HEAVY OIL RANGE ORGANICS
 NWTPH-Dx**

Matrix: Sediment
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SED-4-221027					
Laboratory ID:	10-348-01					
Diesel Range Organics	ND	32	NWTPH-Dx	11-7-22	11-8-22	
Lube Oil Range Organics	ND	65	NWTPH-Dx	11-7-22	11-8-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	86	50-150				
Client ID:	SED-4-221027					
Laboratory ID:	10-348-01					
Diesel Range Organics	ND	32	NWTPH-Dx	11-7-22	11-7-22	X2
Lube Oil Range Organics	ND	65	NWTPH-Dx	11-7-22	11-7-22	X2
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	88	50-150				
Client ID:	SED-5-221027					
Laboratory ID:	10-348-02					
Diesel Range Organics	ND	30	NWTPH-Dx	11-7-22	11-8-22	
Lube Oil Range Organics	ND	60	NWTPH-Dx	11-7-22	11-8-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	81	50-150				
Client ID:	SED-5-221027					
Laboratory ID:	10-348-02					
Diesel Range Organics	ND	30	NWTPH-Dx	11-7-22	11-7-22	X2
Lube Oil Range Organics	ND	60	NWTPH-Dx	11-7-22	11-7-22	X2
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	82	50-150				
Client ID:	SED-6-221027					
Laboratory ID:	10-348-03					
Diesel Range Organics	ND	30	NWTPH-Dx	11-7-22	11-8-22	
Lube Oil Range Organics	ND	60	NWTPH-Dx	11-7-22	11-8-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	78	50-150				
Client ID:	SED-6-221027					
Laboratory ID:	10-348-03					
Diesel Range Organics	ND	30	NWTPH-Dx	11-7-22	11-7-22	X2
Lube Oil Range Organics	ND	60	NWTPH-Dx	11-7-22	11-7-22	X2
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	80	50-150				



Date of Report: November 16, 2022
 Samples Submitted: October 28, 2022
 Laboratory Reference: 2210-348
 Project: 6694-002-05 T700

**DIESEL AND HEAVY OIL RANGE ORGANICS
 NWTPH-Dx**

Matrix: Sediment
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SED-7-221027					
Laboratory ID:	10-348-04					
Diesel Range Organics	ND	33	NWTPH-Dx	11-7-22	11-8-22	
Lube Oil Range Organics	ND	66	NWTPH-Dx	11-7-22	11-8-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	83	50-150				
Client ID:	SED-7-221027					
Laboratory ID:	10-348-04					
Diesel Range Organics	ND	33	NWTPH-Dx	11-7-22	11-7-22	X2
Lube Oil Range Organics	ND	66	NWTPH-Dx	11-7-22	11-7-22	X2
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	83	50-150				
Client ID:	SED-8-221027					
Laboratory ID:	10-348-05					
Diesel Range Organics	ND	40	NWTPH-Dx	11-7-22	11-8-22	
Lube Oil Range Organics	150	81	NWTPH-Dx	11-7-22	11-8-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	86	50-150				
Client ID:	SED-8-221027					
Laboratory ID:	10-348-05					
Diesel Range Organics	ND	40	NWTPH-Dx	11-7-22	11-7-22	X2
Lube Oil Range Organics	ND	81	NWTPH-Dx	11-7-22	11-7-22	X2
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	85	50-150				
Client ID:	SED-9-221027					
Laboratory ID:	10-348-06					
Diesel Range Organics	ND	34	NWTPH-Dx	11-7-22	11-8-22	
Lube Oil Range Organics	ND	68	NWTPH-Dx	11-7-22	11-8-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	79	50-150				
Client ID:	SED-9-221027					
Laboratory ID:	10-348-06					
Diesel Range Organics	ND	34	NWTPH-Dx	11-7-22	11-7-22	X2
Lube Oil Range Organics	ND	68	NWTPH-Dx	11-7-22	11-7-22	X2
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	81	50-150				



Date of Report: November 16, 2022
 Samples Submitted: October 28, 2022
 Laboratory Reference: 2210-348
 Project: 6694-002-05 T700

**DIESEL AND HEAVY OIL RANGE ORGANICS
 NWTPH-Dx**

Matrix: Sediment
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SED-10-221027					
Laboratory ID:	10-348-07					
Diesel Range Organics	ND	36	NWTPH-Dx	11-7-22	11-8-22	
Lube Oil Range Organics	ND	73	NWTPH-Dx	11-7-22	11-8-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	85	50-150				
Client ID:	SED-10-221027					
Laboratory ID:	10-348-07					
Diesel Range Organics	ND	36	NWTPH-Dx	11-7-22	11-7-22	X2
Lube Oil Range Organics	ND	73	NWTPH-Dx	11-7-22	11-7-22	X2
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	86	50-150				
Client ID:	SED-11-221027					
Laboratory ID:	10-348-08					
Diesel Range Organics	ND	41	NWTPH-Dx	11-7-22	11-8-22	
Lube Oil Range Organics	ND	81	NWTPH-Dx	11-7-22	11-8-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	68	50-150				
Client ID:	SED-11-221027					
Laboratory ID:	10-348-08					
Diesel Range Organics	ND	41	NWTPH-Dx	11-7-22	11-7-22	X2
Lube Oil Range Organics	ND	81	NWTPH-Dx	11-7-22	11-7-22	X2
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	68	50-150				



Date of Report: November 16, 2022
 Samples Submitted: October 28, 2022
 Laboratory Reference: 2210-348
 Project: 6694-002-05 T700

**DIESEL AND HEAVY OIL RANGE ORGANICS
 NWTPH-Dx**

Matrix: Water
 Units: mg/L (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SWS-2-20221027					
Laboratory ID:	10-348-09					
Diesel Range Organics	0.18	0.16	NWTPH-Dx	10-31-22	10-31-22	
Lube Oil Range Organics	0.43	0.22	NWTPH-Dx	10-31-22	10-31-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	85	50-150				

Client ID:	SWS-2-20221027					
Laboratory ID:	10-348-09					
Diesel Range Organics	ND	0.14	NWTPH-Dx	10-31-22	10-31-22	X2
Lube Oil Range Organics	ND	0.22	NWTPH-Dx	10-31-22	10-31-22	X2
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	82	50-150				

Client ID:	SWS-3-20221027					
Laboratory ID:	10-348-10					
Diesel Range Organics	0.21	0.15	NWTPH-Dx	10-31-22	10-31-22	
Lube Oil Range Organics	0.46	0.21	NWTPH-Dx	10-31-22	10-31-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	78	50-150				

Client ID:	SWS-3-20221027					
Laboratory ID:	10-348-10					
Diesel Range Organics	ND	0.13	NWTPH-Dx	10-31-22	10-31-22	X2
Lube Oil Range Organics	ND	0.21	NWTPH-Dx	10-31-22	10-31-22	X2
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	78	50-150				



Date of Report: November 16, 2022
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SEMIVOLATILE ORGANICS EPA 8270E/SIM
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Matrix: Sediment
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SED-4-221027					
Laboratory ID:	10-348-01					
n-Nitrosodimethylamine	ND	0.026	EPA 8270E	11-4-22	11-4-22	
Pyridine	ND	0.26	EPA 8270E	11-4-22	11-4-22	
Phenol	ND	0.026	EPA 8270E	11-4-22	11-4-22	
Aniline	ND	0.13	EPA 8270E	11-4-22	11-4-22	
bis(2-Chloroethyl)ether	ND	0.026	EPA 8270E	11-4-22	11-4-22	
2-Chlorophenol	ND	0.026	EPA 8270E	11-4-22	11-4-22	
1,3-Dichlorobenzene	ND	0.026	EPA 8270E	11-4-22	11-4-22	
1,4-Dichlorobenzene	ND	0.026	EPA 8270E	11-4-22	11-4-22	
Benzyl alcohol	ND	0.026	EPA 8270E	11-4-22	11-4-22	
1,2-Dichlorobenzene	ND	0.026	EPA 8270E	11-4-22	11-4-22	
2-Methylphenol (o-Cresol)	ND	0.026	EPA 8270E	11-4-22	11-4-22	
bis(2-Chloroisopropyl)ether	ND	0.026	EPA 8270E	11-4-22	11-4-22	
(3+4)-Methylphenol (m,p-Cresol)	0.43	0.026	EPA 8270E	11-4-22	11-4-22	
n-Nitroso-di-n-propylamine	ND	0.026	EPA 8270E	11-4-22	11-4-22	
Hexachloroethane	ND	0.026	EPA 8270E	11-4-22	11-4-22	
Nitrobenzene	ND	0.026	EPA 8270E	11-4-22	11-4-22	
Isophorone	ND	0.026	EPA 8270E	11-4-22	11-4-22	
2-Nitrophenol	ND	0.026	EPA 8270E	11-4-22	11-4-22	
2,4-Dimethylphenol	ND	0.026	EPA 8270E	11-4-22	11-4-22	
bis(2-Chloroethoxy)methane	ND	0.026	EPA 8270E	11-4-22	11-4-22	
2,4-Dichlorophenol	ND	0.026	EPA 8270E	11-4-22	11-4-22	
1,2,4-Trichlorobenzene	ND	0.026	EPA 8270E	11-4-22	11-4-22	
Naphthalene	ND	0.0052	EPA 8270E/SIM	11-4-22	11-4-22	
4-Chloroaniline	ND	0.13	EPA 8270E	11-4-22	11-4-22	
Hexachlorobutadiene	ND	0.026	EPA 8270E	11-4-22	11-4-22	
4-Chloro-3-methylphenol	ND	0.026	EPA 8270E	11-4-22	11-4-22	
2-Methylnaphthalene	ND	0.0052	EPA 8270E/SIM	11-4-22	11-4-22	
1-Methylnaphthalene	ND	0.0052	EPA 8270E/SIM	11-4-22	11-4-22	
Hexachlorocyclopentadiene	ND	0.026	EPA 8270E	11-4-22	11-4-22	
2,4,6-Trichlorophenol	ND	0.026	EPA 8270E	11-4-22	11-4-22	
2,3-Dichloroaniline	ND	0.026	EPA 8270E	11-4-22	11-4-22	
2,4,5-Trichlorophenol	ND	0.026	EPA 8270E	11-4-22	11-4-22	
2-Chloronaphthalene	ND	0.026	EPA 8270E	11-4-22	11-4-22	
2-Nitroaniline	ND	0.026	EPA 8270E	11-4-22	11-4-22	
1,4-Dinitrobenzene	ND	0.026	EPA 8270E	11-4-22	11-4-22	
Dimethylphthalate	ND	0.026	EPA 8270E	11-4-22	11-4-22	
1,3-Dinitrobenzene	ND	0.026	EPA 8270E	11-4-22	11-4-22	
2,6-Dinitrotoluene	ND	0.026	EPA 8270E	11-4-22	11-4-22	
1,2-Dinitrobenzene	ND	0.026	EPA 8270E	11-4-22	11-4-22	
Acenaphthylene	ND	0.0052	EPA 8270E/SIM	11-4-22	11-4-22	
3-Nitroaniline	ND	0.026	EPA 8270E	11-4-22	11-4-22	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SED-4-221027					
Laboratory ID:	10-348-01					
2,4-Dinitrophenol	ND	0.17	EPA 8270E	11-4-22	11-4-22	
Acenaphthene	0.0066	0.0052	EPA 8270E/SIM	11-4-22	11-4-22	
4-Nitrophenol	ND	0.026	EPA 8270E	11-4-22	11-4-22	
2,4-Dinitrotoluene	ND	0.026	EPA 8270E	11-4-22	11-4-22	
Dibenzofuran	ND	0.026	EPA 8270E	11-4-22	11-4-22	
2,3,5,6-Tetrachlorophenol	ND	0.026	EPA 8270E	11-4-22	11-4-22	
2,3,4,6-Tetrachlorophenol	ND	0.026	EPA 8270E	11-4-22	11-4-22	
Diethylphthalate	ND	0.13	EPA 8270E	11-4-22	11-4-22	
4-Chlorophenyl-phenylether	ND	0.026	EPA 8270E	11-4-22	11-4-22	
4-Nitroaniline	ND	0.026	EPA 8270E	11-4-22	11-4-22	
Fluorene	ND	0.0052	EPA 8270E/SIM	11-4-22	11-4-22	
4,6-Dinitro-2-methylphenol	ND	0.13	EPA 8270E	11-4-22	11-4-22	
n-Nitrosodiphenylamine	ND	0.026	EPA 8270E	11-4-22	11-4-22	
1,2-Diphenylhydrazine	ND	0.026	EPA 8270E	11-4-22	11-4-22	
4-Bromophenyl-phenylether	ND	0.026	EPA 8270E	11-4-22	11-4-22	
Hexachlorobenzene	ND	0.026	EPA 8270E	11-4-22	11-4-22	
Pentachlorophenol	ND	0.13	EPA 8270E	11-4-22	11-4-22	
Phenanthrene	0.0093	0.0052	EPA 8270E/SIM	11-4-22	11-4-22	
Anthracene	ND	0.0052	EPA 8270E/SIM	11-4-22	11-4-22	
Carbazole	ND	0.026	EPA 8270E	11-4-22	11-4-22	
Di-n-butylphthalate	ND	0.13	EPA 8270E	11-4-22	11-4-22	
Fluoranthene	0.015	0.0052	EPA 8270E/SIM	11-4-22	11-4-22	
Pyrene	0.015	0.0052	EPA 8270E/SIM	11-4-22	11-4-22	
Butylbenzylphthalate	ND	0.13	EPA 8270E	11-4-22	11-4-22	
bis(2-Ethylhexyl)adipate	ND	0.13	EPA 8270E	11-4-22	11-4-22	
3,3'-Dichlorobenzidine	ND	0.17	EPA 8270E	11-4-22	11-4-22	
Benzo[a]anthracene	0.0057	0.0052	EPA 8270E/SIM	11-4-22	11-4-22	
Chrysene	0.0067	0.0052	EPA 8270E/SIM	11-4-22	11-4-22	
bis(2-Ethylhexyl)phthalate	ND	0.13	EPA 8270E	11-4-22	11-4-22	
Di-n-octylphthalate	ND	0.13	EPA 8270E	11-4-22	11-4-22	
Benzo[b]fluoranthene	0.0086	0.0052	EPA 8270E/SIM	11-4-22	11-4-22	
Benzo(j,k)fluoranthene	ND	0.0052	EPA 8270E/SIM	11-4-22	11-4-22	
Benzo[a]pyrene	0.0073	0.0052	EPA 8270E/SIM	11-4-22	11-4-22	
Indeno[1,2,3-cd]pyrene	0.0052	0.0052	EPA 8270E/SIM	11-4-22	11-4-22	
Dibenz[a,h]anthracene	ND	0.0052	EPA 8270E/SIM	11-4-22	11-4-22	
Benzo[g,h,i]perylene	0.0060	0.0052	EPA 8270E/SIM	11-4-22	11-4-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
2-Fluorophenol	61	22 - 111				
Phenol-d6	60	31 - 117				
Nitrobenzene-d5	62	29 - 111				
2-Fluorobiphenyl	65	39 - 109				
2,4,6-Tribromophenol	73	36 - 127				
Terphenyl-d14	72	39 - 116				



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Matrix: Sediment
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SED-5-221027					
Laboratory ID:	10-348-02					
n-Nitrosodimethylamine	ND	0.024	EPA 8270E	11-4-22	11-4-22	
Pyridine	ND	0.24	EPA 8270E	11-4-22	11-4-22	
Phenol	ND	0.024	EPA 8270E	11-4-22	11-4-22	
Aniline	ND	0.12	EPA 8270E	11-4-22	11-4-22	
bis(2-Chloroethyl)ether	ND	0.024	EPA 8270E	11-4-22	11-4-22	
2-Chlorophenol	ND	0.024	EPA 8270E	11-4-22	11-4-22	
1,3-Dichlorobenzene	ND	0.024	EPA 8270E	11-4-22	11-4-22	
1,4-Dichlorobenzene	ND	0.024	EPA 8270E	11-4-22	11-4-22	
Benzyl alcohol	ND	0.024	EPA 8270E	11-4-22	11-4-22	
1,2-Dichlorobenzene	ND	0.024	EPA 8270E	11-4-22	11-4-22	
2-Methylphenol (o-Cresol)	ND	0.024	EPA 8270E	11-4-22	11-4-22	
bis(2-Chloroisopropyl)ether	ND	0.024	EPA 8270E	11-4-22	11-4-22	
(3+4)-Methylphenol (m,p-Cresol)	ND	0.024	EPA 8270E	11-4-22	11-4-22	
n-Nitroso-di-n-propylamine	ND	0.024	EPA 8270E	11-4-22	11-4-22	
Hexachloroethane	ND	0.031	EPA 8270E	11-4-22	11-4-22	
Nitrobenzene	ND	0.024	EPA 8270E	11-4-22	11-4-22	
Isophorone	ND	0.024	EPA 8270E	11-4-22	11-4-22	
2-Nitrophenol	ND	0.032	EPA 8270E	11-4-22	11-4-22	
2,4-Dimethylphenol	ND	0.024	EPA 8270E	11-4-22	11-4-22	
bis(2-Chloroethoxy)methane	ND	0.024	EPA 8270E	11-4-22	11-4-22	
2,4-Dichlorophenol	ND	0.024	EPA 8270E	11-4-22	11-4-22	
1,2,4-Trichlorobenzene	ND	0.024	EPA 8270E	11-4-22	11-4-22	
Naphthalene	ND	0.0048	EPA 8270E/SIM	11-4-22	11-4-22	
4-Chloroaniline	ND	0.12	EPA 8270E	11-4-22	11-4-22	
Hexachlorobutadiene	ND	0.024	EPA 8270E	11-4-22	11-4-22	
4-Chloro-3-methylphenol	ND	0.024	EPA 8270E	11-4-22	11-4-22	
2-Methylnaphthalene	ND	0.0048	EPA 8270E/SIM	11-4-22	11-4-22	
1-Methylnaphthalene	ND	0.0048	EPA 8270E/SIM	11-4-22	11-4-22	
Hexachlorocyclopentadiene	ND	0.14	EPA 8270E	11-4-22	11-4-22	
2,4,6-Trichlorophenol	ND	0.024	EPA 8270E	11-4-22	11-4-22	
2,3-Dichloroaniline	ND	0.024	EPA 8270E	11-4-22	11-4-22	
2,4,5-Trichlorophenol	ND	0.024	EPA 8270E	11-4-22	11-4-22	
2-Chloronaphthalene	ND	0.024	EPA 8270E	11-4-22	11-4-22	
2-Nitroaniline	ND	0.024	EPA 8270E	11-4-22	11-4-22	
1,4-Dinitrobenzene	ND	0.032	EPA 8270E	11-4-22	11-4-22	
Dimethylphthalate	ND	0.024	EPA 8270E	11-4-22	11-4-22	
1,3-Dinitrobenzene	ND	0.024	EPA 8270E	11-4-22	11-4-22	
2,6-Dinitrotoluene	ND	0.024	EPA 8270E	11-4-22	11-4-22	
1,2-Dinitrobenzene	ND	0.024	EPA 8270E	11-4-22	11-4-22	
Acenaphthylene	ND	0.0048	EPA 8270E/SIM	11-4-22	11-4-22	
3-Nitroaniline	ND	0.024	EPA 8270E	11-4-22	11-4-22	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SED-5-221027					
Laboratory ID:	10-348-02					
2,4-Dinitrophenol	ND	0.74	EPA 8270E	11-4-22	11-4-22	
Acenaphthene	ND	0.0048	EPA 8270E/SIM	11-4-22	11-4-22	
4-Nitrophenol	ND	0.024	EPA 8270E	11-4-22	11-4-22	
2,4-Dinitrotoluene	ND	0.024	EPA 8270E	11-4-22	11-4-22	
Dibenzofuran	ND	0.024	EPA 8270E	11-4-22	11-4-22	
2,3,5,6-Tetrachlorophenol	ND	0.024	EPA 8270E	11-4-22	11-4-22	
2,3,4,6-Tetrachlorophenol	ND	0.024	EPA 8270E	11-4-22	11-4-22	
Diethylphthalate	ND	0.12	EPA 8270E	11-4-22	11-4-22	
4-Chlorophenyl-phenylether	ND	0.024	EPA 8270E	11-4-22	11-4-22	
4-Nitroaniline	ND	0.024	EPA 8270E	11-4-22	11-4-22	
Fluorene	ND	0.0048	EPA 8270E/SIM	11-4-22	11-4-22	
4,6-Dinitro-2-methylphenol	ND	0.74	EPA 8270E	11-4-22	11-4-22	
n-Nitrosodiphenylamine	ND	0.024	EPA 8270E	11-4-22	11-4-22	
1,2-Diphenylhydrazine	ND	0.024	EPA 8270E	11-4-22	11-4-22	
4-Bromophenyl-phenylether	ND	0.024	EPA 8270E	11-4-22	11-4-22	
Hexachlorobenzene	ND	0.024	EPA 8270E	11-4-22	11-4-22	
Pentachlorophenol	ND	0.12	EPA 8270E	11-4-22	11-4-22	
Phenanthrene	ND	0.0048	EPA 8270E/SIM	11-4-22	11-4-22	
Anthracene	ND	0.0048	EPA 8270E/SIM	11-4-22	11-4-22	
Carbazole	ND	0.024	EPA 8270E	11-4-22	11-4-22	
Di-n-butylphthalate	ND	0.12	EPA 8270E	11-4-22	11-4-22	
Fluoranthene	ND	0.0048	EPA 8270E/SIM	11-4-22	11-4-22	
Pyrene	ND	0.0048	EPA 8270E/SIM	11-4-22	11-4-22	
Butylbenzylphthalate	ND	0.12	EPA 8270E	11-4-22	11-4-22	
bis(2-Ethylhexyl)adipate	ND	0.12	EPA 8270E	11-4-22	11-4-22	
3,3'-Dichlorobenzidine	ND	0.12	EPA 8270E	11-4-22	11-4-22	
Benzo[a]anthracene	ND	0.0048	EPA 8270E/SIM	11-4-22	11-4-22	
Chrysene	ND	0.0048	EPA 8270E/SIM	11-4-22	11-4-22	
bis(2-Ethylhexyl)phthalate	ND	0.12	EPA 8270E	11-4-22	11-4-22	
Di-n-octylphthalate	ND	0.12	EPA 8270E	11-4-22	11-4-22	
Benzo[b]fluoranthene	ND	0.0048	EPA 8270E/SIM	11-4-22	11-4-22	
Benzo(j,k)fluoranthene	ND	0.0048	EPA 8270E/SIM	11-4-22	11-4-22	
Benzo[a]pyrene	ND	0.0048	EPA 8270E/SIM	11-4-22	11-4-22	
Indeno[1,2,3-cd]pyrene	ND	0.0048	EPA 8270E/SIM	11-4-22	11-4-22	
Dibenz[a,h]anthracene	ND	0.0048	EPA 8270E/SIM	11-4-22	11-4-22	
Benzo[g,h,i]perylene	ND	0.0048	EPA 8270E/SIM	11-4-22	11-4-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
2-Fluorophenol	50	22 - 111				
Phenol-d6	59	31 - 117				
Nitrobenzene-d5	54	29 - 111				
2-Fluorobiphenyl	58	39 - 109				
2,4,6-Tribromophenol	66	36 - 127				
Terphenyl-d14	58	39 - 116				



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Matrix: Sediment
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SED-6-221027					
Laboratory ID:	10-348-03					
n-Nitrosodimethylamine	ND	0.024	EPA 8270E	11-4-22	11-4-22	
Pyridine	ND	0.24	EPA 8270E	11-4-22	11-4-22	
Phenol	ND	0.024	EPA 8270E	11-4-22	11-4-22	
Aniline	ND	0.12	EPA 8270E	11-4-22	11-4-22	
bis(2-Chloroethyl)ether	ND	0.024	EPA 8270E	11-4-22	11-4-22	
2-Chlorophenol	ND	0.024	EPA 8270E	11-4-22	11-4-22	
1,3-Dichlorobenzene	ND	0.024	EPA 8270E	11-4-22	11-4-22	
1,4-Dichlorobenzene	ND	0.024	EPA 8270E	11-4-22	11-4-22	
Benzyl alcohol	ND	0.024	EPA 8270E	11-4-22	11-4-22	
1,2-Dichlorobenzene	ND	0.024	EPA 8270E	11-4-22	11-4-22	
2-Methylphenol (o-Cresol)	ND	0.024	EPA 8270E	11-4-22	11-4-22	
bis(2-Chloroisopropyl)ether	ND	0.024	EPA 8270E	11-4-22	11-4-22	
(3+4)-Methylphenol (m,p-Cresol)	ND	0.024	EPA 8270E	11-4-22	11-4-22	
n-Nitroso-di-n-propylamine	ND	0.024	EPA 8270E	11-4-22	11-4-22	
Hexachloroethane	ND	0.024	EPA 8270E	11-4-22	11-4-22	
Nitrobenzene	ND	0.024	EPA 8270E	11-4-22	11-4-22	
Isophorone	ND	0.024	EPA 8270E	11-4-22	11-4-22	
2-Nitrophenol	ND	0.024	EPA 8270E	11-4-22	11-4-22	
2,4-Dimethylphenol	ND	0.024	EPA 8270E	11-4-22	11-4-22	
bis(2-Chloroethoxy)methane	ND	0.024	EPA 8270E	11-4-22	11-4-22	
2,4-Dichlorophenol	ND	0.024	EPA 8270E	11-4-22	11-4-22	
1,2,4-Trichlorobenzene	ND	0.024	EPA 8270E	11-4-22	11-4-22	
Naphthalene	ND	0.0048	EPA 8270E/SIM	11-4-22	11-4-22	
4-Chloroaniline	ND	0.12	EPA 8270E	11-4-22	11-4-22	
Hexachlorobutadiene	ND	0.024	EPA 8270E	11-4-22	11-4-22	
4-Chloro-3-methylphenol	ND	0.024	EPA 8270E	11-4-22	11-4-22	
2-Methylnaphthalene	ND	0.0048	EPA 8270E/SIM	11-4-22	11-4-22	
1-Methylnaphthalene	ND	0.0048	EPA 8270E/SIM	11-4-22	11-4-22	
Hexachlorocyclopentadiene	ND	0.024	EPA 8270E	11-4-22	11-4-22	
2,4,6-Trichlorophenol	ND	0.024	EPA 8270E	11-4-22	11-4-22	
2,3-Dichloroaniline	ND	0.024	EPA 8270E	11-4-22	11-4-22	
2,4,5-Trichlorophenol	ND	0.024	EPA 8270E	11-4-22	11-4-22	
2-Chloronaphthalene	ND	0.024	EPA 8270E	11-4-22	11-4-22	
2-Nitroaniline	ND	0.024	EPA 8270E	11-4-22	11-4-22	
1,4-Dinitrobenzene	ND	0.024	EPA 8270E	11-4-22	11-4-22	
Dimethylphthalate	ND	0.024	EPA 8270E	11-4-22	11-4-22	
1,3-Dinitrobenzene	ND	0.024	EPA 8270E	11-4-22	11-4-22	
2,6-Dinitrotoluene	ND	0.024	EPA 8270E	11-4-22	11-4-22	
1,2-Dinitrobenzene	ND	0.024	EPA 8270E	11-4-22	11-4-22	
Acenaphthylene	ND	0.0048	EPA 8270E/SIM	11-4-22	11-4-22	
3-Nitroaniline	ND	0.024	EPA 8270E	11-4-22	11-4-22	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SED-6-221027					
Laboratory ID:	10-348-03					
2,4-Dinitrophenol	ND	0.16	EPA 8270E	11-4-22	11-4-22	
Acenaphthene	ND	0.0048	EPA 8270E/SIM	11-4-22	11-4-22	
4-Nitrophenol	ND	0.024	EPA 8270E	11-4-22	11-4-22	
2,4-Dinitrotoluene	ND	0.024	EPA 8270E	11-4-22	11-4-22	
Dibenzofuran	ND	0.024	EPA 8270E	11-4-22	11-4-22	
2,3,5,6-Tetrachlorophenol	ND	0.024	EPA 8270E	11-4-22	11-4-22	
2,3,4,6-Tetrachlorophenol	ND	0.024	EPA 8270E	11-4-22	11-4-22	
Diethylphthalate	ND	0.12	EPA 8270E	11-4-22	11-4-22	
4-Chlorophenyl-phenylether	ND	0.024	EPA 8270E	11-4-22	11-4-22	
4-Nitroaniline	ND	0.024	EPA 8270E	11-4-22	11-4-22	
Fluorene	ND	0.0048	EPA 8270E/SIM	11-4-22	11-4-22	
4,6-Dinitro-2-methylphenol	ND	0.12	EPA 8270E	11-4-22	11-4-22	
n-Nitrosodiphenylamine	ND	0.024	EPA 8270E	11-4-22	11-4-22	
1,2-Diphenylhydrazine	ND	0.024	EPA 8270E	11-4-22	11-4-22	
4-Bromophenyl-phenylether	ND	0.024	EPA 8270E	11-4-22	11-4-22	
Hexachlorobenzene	ND	0.024	EPA 8270E	11-4-22	11-4-22	
Pentachlorophenol	ND	0.12	EPA 8270E	11-4-22	11-4-22	
Phenanthrene	ND	0.0048	EPA 8270E/SIM	11-4-22	11-4-22	
Anthracene	ND	0.0048	EPA 8270E/SIM	11-4-22	11-4-22	
Carbazole	ND	0.024	EPA 8270E	11-4-22	11-4-22	
Di-n-butylphthalate	ND	0.12	EPA 8270E	11-4-22	11-4-22	
Fluoranthene	ND	0.0048	EPA 8270E/SIM	11-4-22	11-4-22	
Pyrene	ND	0.0048	EPA 8270E/SIM	11-4-22	11-4-22	
Butylbenzylphthalate	ND	0.12	EPA 8270E	11-4-22	11-4-22	
bis(2-Ethylhexyl)adipate	ND	0.12	EPA 8270E	11-4-22	11-4-22	
3,3'-Dichlorobenzidine	ND	0.16	EPA 8270E	11-4-22	11-4-22	
Benzo[a]anthracene	ND	0.0048	EPA 8270E/SIM	11-4-22	11-4-22	
Chrysene	ND	0.0048	EPA 8270E/SIM	11-4-22	11-4-22	
bis(2-Ethylhexyl)phthalate	ND	0.12	EPA 8270E	11-4-22	11-4-22	
Di-n-octylphthalate	ND	0.12	EPA 8270E	11-4-22	11-4-22	
Benzo[b]fluoranthene	ND	0.0048	EPA 8270E/SIM	11-4-22	11-4-22	
Benzo(j,k)fluoranthene	ND	0.0048	EPA 8270E/SIM	11-4-22	11-4-22	
Benzo[a]pyrene	ND	0.0048	EPA 8270E/SIM	11-4-22	11-4-22	
Indeno[1,2,3-cd]pyrene	ND	0.0048	EPA 8270E/SIM	11-4-22	11-4-22	
Dibenz[a,h]anthracene	ND	0.0048	EPA 8270E/SIM	11-4-22	11-4-22	
Benzo[g,h,i]perylene	ND	0.0048	EPA 8270E/SIM	11-4-22	11-4-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
2-Fluorophenol	68	22 - 111				
Phenol-d6	63	31 - 117				
Nitrobenzene-d5	65	29 - 111				
2-Fluorobiphenyl	72	39 - 109				
2,4,6-Tribromophenol	76	36 - 127				
Terphenyl-d14	74	39 - 116				



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Matrix: Sediment
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SED-7-221027					
Laboratory ID:	10-348-04					
n-Nitrosodimethylamine	ND	0.026	EPA 8270E	11-4-22	11-4-22	
Pyridine	ND	0.26	EPA 8270E	11-4-22	11-4-22	
Phenol	ND	0.026	EPA 8270E	11-4-22	11-4-22	
Aniline	ND	0.13	EPA 8270E	11-4-22	11-4-22	
bis(2-Chloroethyl)ether	ND	0.026	EPA 8270E	11-4-22	11-4-22	
2-Chlorophenol	ND	0.026	EPA 8270E	11-4-22	11-4-22	
1,3-Dichlorobenzene	ND	0.026	EPA 8270E	11-4-22	11-4-22	
1,4-Dichlorobenzene	ND	0.026	EPA 8270E	11-4-22	11-4-22	
Benzyl alcohol	ND	0.026	EPA 8270E	11-4-22	11-4-22	
1,2-Dichlorobenzene	ND	0.026	EPA 8270E	11-4-22	11-4-22	
2-Methylphenol (o-Cresol)	ND	0.026	EPA 8270E	11-4-22	11-4-22	
bis(2-Chloroisopropyl)ether	ND	0.026	EPA 8270E	11-4-22	11-4-22	
(3+4)-Methylphenol (m,p-Cresol)	ND	0.026	EPA 8270E	11-4-22	11-4-22	
n-Nitroso-di-n-propylamine	ND	0.026	EPA 8270E	11-4-22	11-4-22	
Hexachloroethane	ND	0.026	EPA 8270E	11-4-22	11-4-22	
Nitrobenzene	ND	0.026	EPA 8270E	11-4-22	11-4-22	
Isophorone	ND	0.026	EPA 8270E	11-4-22	11-4-22	
2-Nitrophenol	ND	0.026	EPA 8270E	11-4-22	11-4-22	
2,4-Dimethylphenol	ND	0.026	EPA 8270E	11-4-22	11-4-22	
bis(2-Chloroethoxy)methane	ND	0.026	EPA 8270E	11-4-22	11-4-22	
2,4-Dichlorophenol	ND	0.026	EPA 8270E	11-4-22	11-4-22	
1,2,4-Trichlorobenzene	ND	0.026	EPA 8270E	11-4-22	11-4-22	
Naphthalene	ND	0.0052	EPA 8270E/SIM	11-4-22	11-4-22	
4-Chloroaniline	ND	0.13	EPA 8270E	11-4-22	11-4-22	
Hexachlorobutadiene	ND	0.026	EPA 8270E	11-4-22	11-4-22	
4-Chloro-3-methylphenol	ND	0.026	EPA 8270E	11-4-22	11-4-22	
2-Methylnaphthalene	ND	0.0052	EPA 8270E/SIM	11-4-22	11-4-22	
1-Methylnaphthalene	ND	0.0052	EPA 8270E/SIM	11-4-22	11-4-22	
Hexachlorocyclopentadiene	ND	0.026	EPA 8270E	11-4-22	11-4-22	
2,4,6-Trichlorophenol	ND	0.026	EPA 8270E	11-4-22	11-4-22	
2,3-Dichloroaniline	ND	0.026	EPA 8270E	11-4-22	11-4-22	
2,4,5-Trichlorophenol	ND	0.026	EPA 8270E	11-4-22	11-4-22	
2-Chloronaphthalene	ND	0.026	EPA 8270E	11-4-22	11-4-22	
2-Nitroaniline	ND	0.026	EPA 8270E	11-4-22	11-4-22	
1,4-Dinitrobenzene	ND	0.026	EPA 8270E	11-4-22	11-4-22	
Dimethylphthalate	ND	0.026	EPA 8270E	11-4-22	11-4-22	
1,3-Dinitrobenzene	ND	0.026	EPA 8270E	11-4-22	11-4-22	
2,6-Dinitrotoluene	ND	0.026	EPA 8270E	11-4-22	11-4-22	
1,2-Dinitrobenzene	ND	0.026	EPA 8270E	11-4-22	11-4-22	
Acenaphthylene	ND	0.0052	EPA 8270E/SIM	11-4-22	11-4-22	
3-Nitroaniline	ND	0.026	EPA 8270E	11-4-22	11-4-22	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SED-7-221027					
Laboratory ID:	10-348-04					
2,4-Dinitrophenol	ND	0.17	EPA 8270E	11-4-22	11-4-22	
Acenaphthene	ND	0.0052	EPA 8270E/SIM	11-4-22	11-4-22	
4-Nitrophenol	ND	0.026	EPA 8270E	11-4-22	11-4-22	
2,4-Dinitrotoluene	ND	0.026	EPA 8270E	11-4-22	11-4-22	
Dibenzofuran	ND	0.026	EPA 8270E	11-4-22	11-4-22	
2,3,5,6-Tetrachlorophenol	ND	0.026	EPA 8270E	11-4-22	11-4-22	
2,3,4,6-Tetrachlorophenol	ND	0.026	EPA 8270E	11-4-22	11-4-22	
Diethylphthalate	ND	0.13	EPA 8270E	11-4-22	11-4-22	
4-Chlorophenyl-phenylether	ND	0.026	EPA 8270E	11-4-22	11-4-22	
4-Nitroaniline	ND	0.026	EPA 8270E	11-4-22	11-4-22	
Fluorene	ND	0.0052	EPA 8270E/SIM	11-4-22	11-4-22	
4,6-Dinitro-2-methylphenol	ND	0.13	EPA 8270E	11-4-22	11-4-22	
n-Nitrosodiphenylamine	ND	0.026	EPA 8270E	11-4-22	11-4-22	
1,2-Diphenylhydrazine	ND	0.026	EPA 8270E	11-4-22	11-4-22	
4-Bromophenyl-phenylether	ND	0.026	EPA 8270E	11-4-22	11-4-22	
Hexachlorobenzene	ND	0.026	EPA 8270E	11-4-22	11-4-22	
Pentachlorophenol	ND	0.13	EPA 8270E	11-4-22	11-4-22	
Phenanthrene	ND	0.0052	EPA 8270E/SIM	11-4-22	11-4-22	
Anthracene	ND	0.0052	EPA 8270E/SIM	11-4-22	11-4-22	
Carbazole	ND	0.026	EPA 8270E	11-4-22	11-4-22	
Di-n-butylphthalate	ND	0.13	EPA 8270E	11-4-22	11-4-22	
Fluoranthene	ND	0.0052	EPA 8270E/SIM	11-4-22	11-4-22	
Pyrene	ND	0.0052	EPA 8270E/SIM	11-4-22	11-4-22	
Butylbenzylphthalate	ND	0.13	EPA 8270E	11-4-22	11-4-22	
bis(2-Ethylhexyl)adipate	ND	0.13	EPA 8270E	11-4-22	11-4-22	
3,3'-Dichlorobenzidine	ND	0.18	EPA 8270E	11-4-22	11-4-22	
Benzo[a]anthracene	ND	0.0052	EPA 8270E/SIM	11-4-22	11-4-22	
Chrysene	ND	0.0052	EPA 8270E/SIM	11-4-22	11-4-22	
bis(2-Ethylhexyl)phthalate	ND	0.13	EPA 8270E	11-4-22	11-4-22	
Di-n-octylphthalate	ND	0.13	EPA 8270E	11-4-22	11-4-22	
Benzo[b]fluoranthene	ND	0.0052	EPA 8270E/SIM	11-4-22	11-4-22	
Benzo(j,k)fluoranthene	ND	0.0052	EPA 8270E/SIM	11-4-22	11-4-22	
Benzo[a]pyrene	ND	0.0052	EPA 8270E/SIM	11-4-22	11-4-22	
Indeno[1,2,3-cd]pyrene	ND	0.0052	EPA 8270E/SIM	11-4-22	11-4-22	
Dibenz[a,h]anthracene	ND	0.0052	EPA 8270E/SIM	11-4-22	11-4-22	
Benzo[g,h,i]perylene	ND	0.0052	EPA 8270E/SIM	11-4-22	11-4-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
2-Fluorophenol	48	22 - 111				
Phenol-d6	47	31 - 117				
Nitrobenzene-d5	50	29 - 111				
2-Fluorobiphenyl	57	39 - 109				
2,4,6-Tribromophenol	66	36 - 127				
Terphenyl-d14	66	39 - 116				



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Matrix: Sediment
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SED-8-221027					
Laboratory ID:	10-348-05					
n-Nitrosodimethylamine	ND	0.032	EPA 8270E	11-4-22	11-4-22	
Pyridine	ND	0.32	EPA 8270E	11-4-22	11-4-22	
Phenol	ND	0.032	EPA 8270E	11-4-22	11-4-22	
Aniline	ND	0.16	EPA 8270E	11-4-22	11-4-22	
bis(2-Chloroethyl)ether	ND	0.032	EPA 8270E	11-4-22	11-4-22	
2-Chlorophenol	ND	0.032	EPA 8270E	11-4-22	11-4-22	
1,3-Dichlorobenzene	ND	0.032	EPA 8270E	11-4-22	11-4-22	
1,4-Dichlorobenzene	ND	0.032	EPA 8270E	11-4-22	11-4-22	
Benzyl alcohol	ND	0.032	EPA 8270E	11-4-22	11-4-22	
1,2-Dichlorobenzene	ND	0.032	EPA 8270E	11-4-22	11-4-22	
2-Methylphenol (o-Cresol)	ND	0.032	EPA 8270E	11-4-22	11-4-22	
bis(2-Chloroisopropyl)ether	ND	0.032	EPA 8270E	11-4-22	11-4-22	
(3+4)-Methylphenol (m,p-Cresol)	ND	0.032	EPA 8270E	11-4-22	11-4-22	
n-Nitroso-di-n-propylamine	ND	0.032	EPA 8270E	11-4-22	11-4-22	
Hexachloroethane	ND	0.032	EPA 8270E	11-4-22	11-4-22	
Nitrobenzene	ND	0.032	EPA 8270E	11-4-22	11-4-22	
Isophorone	ND	0.032	EPA 8270E	11-4-22	11-4-22	
2-Nitrophenol	ND	0.032	EPA 8270E	11-4-22	11-4-22	
2,4-Dimethylphenol	ND	0.032	EPA 8270E	11-4-22	11-4-22	
bis(2-Chloroethoxy)methane	ND	0.032	EPA 8270E	11-4-22	11-4-22	
2,4-Dichlorophenol	ND	0.032	EPA 8270E	11-4-22	11-4-22	
1,2,4-Trichlorobenzene	ND	0.032	EPA 8270E	11-4-22	11-4-22	
Naphthalene	ND	0.0065	EPA 8270E/SIM	11-4-22	11-4-22	
4-Chloroaniline	ND	0.16	EPA 8270E	11-4-22	11-4-22	
Hexachlorobutadiene	ND	0.032	EPA 8270E	11-4-22	11-4-22	
4-Chloro-3-methylphenol	ND	0.032	EPA 8270E	11-4-22	11-4-22	
2-Methylnaphthalene	ND	0.0065	EPA 8270E/SIM	11-4-22	11-4-22	
1-Methylnaphthalene	ND	0.0065	EPA 8270E/SIM	11-4-22	11-4-22	
Hexachlorocyclopentadiene	ND	0.032	EPA 8270E	11-4-22	11-4-22	
2,4,6-Trichlorophenol	ND	0.032	EPA 8270E	11-4-22	11-4-22	
2,3-Dichloroaniline	ND	0.032	EPA 8270E	11-4-22	11-4-22	
2,4,5-Trichlorophenol	ND	0.032	EPA 8270E	11-4-22	11-4-22	
2-Chloronaphthalene	ND	0.032	EPA 8270E	11-4-22	11-4-22	
2-Nitroaniline	ND	0.032	EPA 8270E	11-4-22	11-4-22	
1,4-Dinitrobenzene	ND	0.032	EPA 8270E	11-4-22	11-4-22	
Dimethylphthalate	ND	0.032	EPA 8270E	11-4-22	11-4-22	
1,3-Dinitrobenzene	ND	0.032	EPA 8270E	11-4-22	11-4-22	
2,6-Dinitrotoluene	ND	0.032	EPA 8270E	11-4-22	11-4-22	
1,2-Dinitrobenzene	ND	0.032	EPA 8270E	11-4-22	11-4-22	
Acenaphthylene	ND	0.0065	EPA 8270E/SIM	11-4-22	11-4-22	
3-Nitroaniline	ND	0.032	EPA 8270E	11-4-22	11-4-22	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SED-8-221027					
Laboratory ID:	10-348-05					
2,4-Dinitrophenol	ND	0.21	EPA 8270E	11-4-22	11-4-22	
Acenaphthene	ND	0.0065	EPA 8270E/SIM	11-4-22	11-4-22	
4-Nitrophenol	ND	0.032	EPA 8270E	11-4-22	11-4-22	
2,4-Dinitrotoluene	ND	0.032	EPA 8270E	11-4-22	11-4-22	
Dibenzofuran	ND	0.032	EPA 8270E	11-4-22	11-4-22	
2,3,5,6-Tetrachlorophenol	ND	0.032	EPA 8270E	11-4-22	11-4-22	
2,3,4,6-Tetrachlorophenol	ND	0.032	EPA 8270E	11-4-22	11-4-22	
Diethylphthalate	ND	0.16	EPA 8270E	11-4-22	11-4-22	
4-Chlorophenyl-phenylether	ND	0.032	EPA 8270E	11-4-22	11-4-22	
4-Nitroaniline	ND	0.032	EPA 8270E	11-4-22	11-4-22	
Fluorene	ND	0.0065	EPA 8270E/SIM	11-4-22	11-4-22	
4,6-Dinitro-2-methylphenol	ND	0.16	EPA 8270E	11-4-22	11-4-22	
n-Nitrosodiphenylamine	ND	0.032	EPA 8270E	11-4-22	11-4-22	
1,2-Diphenylhydrazine	ND	0.032	EPA 8270E	11-4-22	11-4-22	
4-Bromophenyl-phenylether	ND	0.032	EPA 8270E	11-4-22	11-4-22	
Hexachlorobenzene	ND	0.032	EPA 8270E	11-4-22	11-4-22	
Pentachlorophenol	ND	0.16	EPA 8270E	11-4-22	11-4-22	
Phenanthrene	ND	0.0065	EPA 8270E/SIM	11-4-22	11-4-22	
Anthracene	ND	0.0065	EPA 8270E/SIM	11-4-22	11-4-22	
Carbazole	ND	0.032	EPA 8270E	11-4-22	11-4-22	
Di-n-butylphthalate	ND	0.16	EPA 8270E	11-4-22	11-4-22	
Fluoranthene	ND	0.0065	EPA 8270E/SIM	11-4-22	11-4-22	
Pyrene	ND	0.0065	EPA 8270E/SIM	11-4-22	11-4-22	
Butylbenzylphthalate	ND	0.16	EPA 8270E	11-4-22	11-4-22	
bis(2-Ethylhexyl)adipate	ND	0.16	EPA 8270E	11-4-22	11-4-22	
3,3'-Dichlorobenzidine	ND	0.22	EPA 8270E	11-4-22	11-4-22	
Benzo[a]anthracene	ND	0.0065	EPA 8270E/SIM	11-4-22	11-4-22	
Chrysene	ND	0.0065	EPA 8270E/SIM	11-4-22	11-4-22	
bis(2-Ethylhexyl)phthalate	ND	0.16	EPA 8270E	11-4-22	11-4-22	
Di-n-octylphthalate	ND	0.16	EPA 8270E	11-4-22	11-4-22	
Benzo[b]fluoranthene	ND	0.0065	EPA 8270E/SIM	11-4-22	11-4-22	
Benzo(j,k)fluoranthene	ND	0.0065	EPA 8270E/SIM	11-4-22	11-4-22	
Benzo[a]pyrene	ND	0.0065	EPA 8270E/SIM	11-4-22	11-4-22	
Indeno[1,2,3-cd]pyrene	ND	0.0065	EPA 8270E/SIM	11-4-22	11-4-22	
Dibenz[a,h]anthracene	ND	0.0065	EPA 8270E/SIM	11-4-22	11-4-22	
Benzo[g,h,i]perylene	ND	0.0065	EPA 8270E/SIM	11-4-22	11-4-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
2-Fluorophenol	50	22 - 111				
Phenol-d6	47	31 - 117				
Nitrobenzene-d5	50	29 - 111				
2-Fluorobiphenyl	53	39 - 109				
2,4,6-Tribromophenol	58	36 - 127				
Terphenyl-d14	57	39 - 116				



Date of Report: November 16, 2022
 Samples Submitted: October 28, 2022
 Laboratory Reference: 2210-348
 Project: 6694-002-05 T700

SEMIVOLATILE ORGANICS EPA 8270E/SIM
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Matrix: Sediment
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SED-9-221027					
Laboratory ID:	10-348-06					
n-Nitrosodimethylamine	ND	0.027	EPA 8270E	11-4-22	11-4-22	
Pyridine	ND	0.27	EPA 8270E	11-4-22	11-4-22	
Phenol	ND	0.027	EPA 8270E	11-4-22	11-4-22	
Aniline	ND	0.14	EPA 8270E	11-4-22	11-4-22	
bis(2-Chloroethyl)ether	ND	0.027	EPA 8270E	11-4-22	11-4-22	
2-Chlorophenol	ND	0.027	EPA 8270E	11-4-22	11-4-22	
1,3-Dichlorobenzene	ND	0.027	EPA 8270E	11-4-22	11-4-22	
1,4-Dichlorobenzene	ND	0.027	EPA 8270E	11-4-22	11-4-22	
Benzyl alcohol	ND	0.027	EPA 8270E	11-4-22	11-4-22	
1,2-Dichlorobenzene	ND	0.027	EPA 8270E	11-4-22	11-4-22	
2-Methylphenol (o-Cresol)	ND	0.027	EPA 8270E	11-4-22	11-4-22	
bis(2-Chloroisopropyl)ether	ND	0.027	EPA 8270E	11-4-22	11-4-22	
(3+4)-Methylphenol (m,p-Cresol)	ND	0.027	EPA 8270E	11-4-22	11-4-22	
n-Nitroso-di-n-propylamine	ND	0.027	EPA 8270E	11-4-22	11-4-22	
Hexachloroethane	ND	0.027	EPA 8270E	11-4-22	11-4-22	
Nitrobenzene	ND	0.027	EPA 8270E	11-4-22	11-4-22	
Isophorone	ND	0.027	EPA 8270E	11-4-22	11-4-22	
2-Nitrophenol	ND	0.027	EPA 8270E	11-4-22	11-4-22	
2,4-Dimethylphenol	ND	0.027	EPA 8270E	11-4-22	11-4-22	
bis(2-Chloroethoxy)methane	ND	0.027	EPA 8270E	11-4-22	11-4-22	
2,4-Dichlorophenol	ND	0.027	EPA 8270E	11-4-22	11-4-22	
1,2,4-Trichlorobenzene	ND	0.027	EPA 8270E	11-4-22	11-4-22	
Naphthalene	ND	0.0054	EPA 8270E/SIM	11-4-22	11-4-22	
4-Chloroaniline	ND	0.14	EPA 8270E	11-4-22	11-4-22	
Hexachlorobutadiene	ND	0.027	EPA 8270E	11-4-22	11-4-22	
4-Chloro-3-methylphenol	ND	0.027	EPA 8270E	11-4-22	11-4-22	
2-Methylnaphthalene	ND	0.0054	EPA 8270E/SIM	11-4-22	11-4-22	
1-Methylnaphthalene	ND	0.0054	EPA 8270E/SIM	11-4-22	11-4-22	
Hexachlorocyclopentadiene	ND	0.027	EPA 8270E	11-4-22	11-4-22	
2,4,6-Trichlorophenol	ND	0.027	EPA 8270E	11-4-22	11-4-22	
2,3-Dichloroaniline	ND	0.027	EPA 8270E	11-4-22	11-4-22	
2,4,5-Trichlorophenol	ND	0.027	EPA 8270E	11-4-22	11-4-22	
2-Chloronaphthalene	ND	0.027	EPA 8270E	11-4-22	11-4-22	
2-Nitroaniline	ND	0.027	EPA 8270E	11-4-22	11-4-22	
1,4-Dinitrobenzene	ND	0.027	EPA 8270E	11-4-22	11-4-22	
Dimethylphthalate	ND	0.027	EPA 8270E	11-4-22	11-4-22	
1,3-Dinitrobenzene	ND	0.027	EPA 8270E	11-4-22	11-4-22	
2,6-Dinitrotoluene	ND	0.027	EPA 8270E	11-4-22	11-4-22	
1,2-Dinitrobenzene	ND	0.027	EPA 8270E	11-4-22	11-4-22	
Acenaphthylene	ND	0.0054	EPA 8270E/SIM	11-4-22	11-4-22	
3-Nitroaniline	ND	0.027	EPA 8270E	11-4-22	11-4-22	



Date of Report: November 16, 2022
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SED-9-221027					
Laboratory ID:	10-348-06					
2,4-Dinitrophenol	ND	0.18	EPA 8270E	11-4-22	11-4-22	
Acenaphthene	ND	0.0054	EPA 8270E/SIM	11-4-22	11-4-22	
4-Nitrophenol	ND	0.027	EPA 8270E	11-4-22	11-4-22	
2,4-Dinitrotoluene	ND	0.027	EPA 8270E	11-4-22	11-4-22	
Dibenzofuran	ND	0.027	EPA 8270E	11-4-22	11-4-22	
2,3,5,6-Tetrachlorophenol	ND	0.027	EPA 8270E	11-4-22	11-4-22	
2,3,4,6-Tetrachlorophenol	ND	0.027	EPA 8270E	11-4-22	11-4-22	
Diethylphthalate	ND	0.14	EPA 8270E	11-4-22	11-4-22	
4-Chlorophenyl-phenylether	ND	0.027	EPA 8270E	11-4-22	11-4-22	
4-Nitroaniline	ND	0.027	EPA 8270E	11-4-22	11-4-22	
Fluorene	ND	0.0054	EPA 8270E/SIM	11-4-22	11-4-22	
4,6-Dinitro-2-methylphenol	ND	0.14	EPA 8270E	11-4-22	11-4-22	
n-Nitrosodiphenylamine	ND	0.027	EPA 8270E	11-4-22	11-4-22	
1,2-Diphenylhydrazine	ND	0.027	EPA 8270E	11-4-22	11-4-22	
4-Bromophenyl-phenylether	ND	0.027	EPA 8270E	11-4-22	11-4-22	
Hexachlorobenzene	ND	0.027	EPA 8270E	11-4-22	11-4-22	
Pentachlorophenol	ND	0.14	EPA 8270E	11-4-22	11-4-22	
Phenanthrene	ND	0.0054	EPA 8270E/SIM	11-4-22	11-4-22	
Anthracene	ND	0.0054	EPA 8270E/SIM	11-4-22	11-4-22	
Carbazole	ND	0.027	EPA 8270E	11-4-22	11-4-22	
Di-n-butylphthalate	ND	0.14	EPA 8270E	11-4-22	11-4-22	
Fluoranthene	ND	0.0054	EPA 8270E/SIM	11-4-22	11-4-22	
Pyrene	ND	0.0054	EPA 8270E/SIM	11-4-22	11-4-22	
Butylbenzylphthalate	ND	0.14	EPA 8270E	11-4-22	11-4-22	
bis(2-Ethylhexyl)adipate	ND	0.14	EPA 8270E	11-4-22	11-4-22	
3,3'-Dichlorobenzidine	ND	0.18	EPA 8270E	11-4-22	11-4-22	
Benzo[a]anthracene	ND	0.0054	EPA 8270E/SIM	11-4-22	11-4-22	
Chrysene	ND	0.0054	EPA 8270E/SIM	11-4-22	11-4-22	
bis(2-Ethylhexyl)phthalate	ND	0.14	EPA 8270E	11-4-22	11-4-22	
Di-n-octylphthalate	ND	0.14	EPA 8270E	11-4-22	11-4-22	
Benzo[b]fluoranthene	ND	0.0054	EPA 8270E/SIM	11-4-22	11-4-22	
Benzo(j,k)fluoranthene	ND	0.0054	EPA 8270E/SIM	11-4-22	11-4-22	
Benzo[a]pyrene	ND	0.0054	EPA 8270E/SIM	11-4-22	11-4-22	
Indeno[1,2,3-cd]pyrene	ND	0.0054	EPA 8270E/SIM	11-4-22	11-4-22	
Dibenz[a,h]anthracene	ND	0.0054	EPA 8270E/SIM	11-4-22	11-4-22	
Benzo[g,h,i]perylene	ND	0.0054	EPA 8270E/SIM	11-4-22	11-4-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
2-Fluorophenol	56	22 - 111				
Phenol-d6	54	31 - 117				
Nitrobenzene-d5	56	29 - 111				
2-Fluorobiphenyl	64	39 - 109				
2,4,6-Tribromophenol	73	36 - 127				
Terphenyl-d14	72	39 - 116				



Date of Report: November 16, 2022
 Samples Submitted: October 28, 2022
 Laboratory Reference: 2210-348
 Project: 6694-002-05 T700

SEMIVOLATILE ORGANICS EPA 8270E/SIM
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Matrix: Sediment
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SED-10-221027					
Laboratory ID:	10-348-07					
n-Nitrosodimethylamine	ND	0.029	EPA 8270E	11-4-22	11-4-22	
Pyridine	ND	0.29	EPA 8270E	11-4-22	11-4-22	
Phenol	ND	0.029	EPA 8270E	11-4-22	11-4-22	
Aniline	ND	0.15	EPA 8270E	11-4-22	11-4-22	
bis(2-Chloroethyl)ether	ND	0.029	EPA 8270E	11-4-22	11-4-22	
2-Chlorophenol	ND	0.029	EPA 8270E	11-4-22	11-4-22	
1,3-Dichlorobenzene	ND	0.029	EPA 8270E	11-4-22	11-4-22	
1,4-Dichlorobenzene	ND	0.029	EPA 8270E	11-4-22	11-4-22	
Benzyl alcohol	ND	0.029	EPA 8270E	11-4-22	11-4-22	
1,2-Dichlorobenzene	ND	0.029	EPA 8270E	11-4-22	11-4-22	
2-Methylphenol (o-Cresol)	ND	0.029	EPA 8270E	11-4-22	11-4-22	
bis(2-Chloroisopropyl)ether	ND	0.029	EPA 8270E	11-4-22	11-4-22	
(3+4)-Methylphenol (m,p-Cresol)	ND	0.029	EPA 8270E	11-4-22	11-4-22	
n-Nitroso-di-n-propylamine	ND	0.029	EPA 8270E	11-4-22	11-4-22	
Hexachloroethane	ND	0.029	EPA 8270E	11-4-22	11-4-22	
Nitrobenzene	ND	0.029	EPA 8270E	11-4-22	11-4-22	
Isophorone	ND	0.029	EPA 8270E	11-4-22	11-4-22	
2-Nitrophenol	ND	0.029	EPA 8270E	11-4-22	11-4-22	
2,4-Dimethylphenol	ND	0.029	EPA 8270E	11-4-22	11-4-22	
bis(2-Chloroethoxy)methane	ND	0.029	EPA 8270E	11-4-22	11-4-22	
2,4-Dichlorophenol	ND	0.029	EPA 8270E	11-4-22	11-4-22	
1,2,4-Trichlorobenzene	ND	0.029	EPA 8270E	11-4-22	11-4-22	
Naphthalene	ND	0.0058	EPA 8270E/SIM	11-4-22	11-4-22	
4-Chloroaniline	ND	0.15	EPA 8270E	11-4-22	11-4-22	
Hexachlorobutadiene	ND	0.029	EPA 8270E	11-4-22	11-4-22	
4-Chloro-3-methylphenol	ND	0.029	EPA 8270E	11-4-22	11-4-22	
2-Methylnaphthalene	ND	0.0058	EPA 8270E/SIM	11-4-22	11-4-22	
1-Methylnaphthalene	ND	0.0058	EPA 8270E/SIM	11-4-22	11-4-22	
Hexachlorocyclopentadiene	ND	0.029	EPA 8270E	11-4-22	11-4-22	
2,4,6-Trichlorophenol	ND	0.029	EPA 8270E	11-4-22	11-4-22	
2,3-Dichloroaniline	ND	0.029	EPA 8270E	11-4-22	11-4-22	
2,4,5-Trichlorophenol	ND	0.029	EPA 8270E	11-4-22	11-4-22	
2-Chloronaphthalene	ND	0.029	EPA 8270E	11-4-22	11-4-22	
2-Nitroaniline	ND	0.029	EPA 8270E	11-4-22	11-4-22	
1,4-Dinitrobenzene	ND	0.029	EPA 8270E	11-4-22	11-4-22	
Dimethylphthalate	ND	0.029	EPA 8270E	11-4-22	11-4-22	
1,3-Dinitrobenzene	ND	0.029	EPA 8270E	11-4-22	11-4-22	
2,6-Dinitrotoluene	ND	0.029	EPA 8270E	11-4-22	11-4-22	
1,2-Dinitrobenzene	ND	0.029	EPA 8270E	11-4-22	11-4-22	
Acenaphthylene	ND	0.0058	EPA 8270E/SIM	11-4-22	11-4-22	
3-Nitroaniline	ND	0.029	EPA 8270E	11-4-22	11-4-22	



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 Samples Submitted: October 28, 2022
 Laboratory Reference: 2210-348
 Project: 6694-002-05 T700

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SED-10-221027					
Laboratory ID:	10-348-07					
2,4-Dinitrophenol	ND	0.19	EPA 8270E	11-4-22	11-4-22	
Acenaphthene	ND	0.0058	EPA 8270E/SIM	11-4-22	11-4-22	
4-Nitrophenol	ND	0.029	EPA 8270E	11-4-22	11-4-22	
2,4-Dinitrotoluene	ND	0.029	EPA 8270E	11-4-22	11-4-22	
Dibenzofuran	ND	0.029	EPA 8270E	11-4-22	11-4-22	
2,3,5,6-Tetrachlorophenol	ND	0.029	EPA 8270E	11-4-22	11-4-22	
2,3,4,6-Tetrachlorophenol	ND	0.029	EPA 8270E	11-4-22	11-4-22	
Diethylphthalate	ND	0.15	EPA 8270E	11-4-22	11-4-22	
4-Chlorophenyl-phenylether	ND	0.029	EPA 8270E	11-4-22	11-4-22	
4-Nitroaniline	ND	0.029	EPA 8270E	11-4-22	11-4-22	
Fluorene	ND	0.0058	EPA 8270E/SIM	11-4-22	11-4-22	
4,6-Dinitro-2-methylphenol	ND	0.15	EPA 8270E	11-4-22	11-4-22	
n-Nitrosodiphenylamine	ND	0.029	EPA 8270E	11-4-22	11-4-22	
1,2-Diphenylhydrazine	ND	0.029	EPA 8270E	11-4-22	11-4-22	
4-Bromophenyl-phenylether	ND	0.029	EPA 8270E	11-4-22	11-4-22	
Hexachlorobenzene	ND	0.029	EPA 8270E	11-4-22	11-4-22	
Pentachlorophenol	ND	0.15	EPA 8270E	11-4-22	11-4-22	
Phenanthrene	ND	0.0058	EPA 8270E/SIM	11-4-22	11-4-22	
Anthracene	ND	0.0058	EPA 8270E/SIM	11-4-22	11-4-22	
Carbazole	ND	0.029	EPA 8270E	11-4-22	11-4-22	
Di-n-butylphthalate	ND	0.15	EPA 8270E	11-4-22	11-4-22	
Fluoranthene	ND	0.0058	EPA 8270E/SIM	11-4-22	11-4-22	
Pyrene	ND	0.0058	EPA 8270E/SIM	11-4-22	11-4-22	
Butylbenzylphthalate	ND	0.15	EPA 8270E	11-4-22	11-4-22	
bis(2-Ethylhexyl)adipate	ND	0.15	EPA 8270E	11-4-22	11-4-22	
3,3'-Dichlorobenzidine	ND	0.20	EPA 8270E	11-4-22	11-4-22	
Benzo[a]anthracene	ND	0.0058	EPA 8270E/SIM	11-4-22	11-4-22	
Chrysene	ND	0.0058	EPA 8270E/SIM	11-4-22	11-4-22	
bis(2-Ethylhexyl)phthalate	ND	0.15	EPA 8270E	11-4-22	11-4-22	
Di-n-octylphthalate	ND	0.15	EPA 8270E	11-4-22	11-4-22	
Benzo[b]fluoranthene	ND	0.0058	EPA 8270E/SIM	11-4-22	11-4-22	
Benzo(j,k)fluoranthene	ND	0.0058	EPA 8270E/SIM	11-4-22	11-4-22	
Benzo[a]pyrene	ND	0.0058	EPA 8270E/SIM	11-4-22	11-4-22	
Indeno[1,2,3-cd]pyrene	ND	0.0058	EPA 8270E/SIM	11-4-22	11-4-22	
Dibenz[a,h]anthracene	ND	0.0058	EPA 8270E/SIM	11-4-22	11-4-22	
Benzo[g,h,i]perylene	ND	0.0058	EPA 8270E/SIM	11-4-22	11-4-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>2-Fluorophenol</i>	<i>55</i>	<i>22 - 111</i>				
<i>Phenol-d6</i>	<i>56</i>	<i>31 - 117</i>				
<i>Nitrobenzene-d5</i>	<i>57</i>	<i>29 - 111</i>				
<i>2-Fluorobiphenyl</i>	<i>69</i>	<i>39 - 109</i>				
<i>2,4,6-Tribromophenol</i>	<i>75</i>	<i>36 - 127</i>				
<i>Terphenyl-d14</i>	<i>76</i>	<i>39 - 116</i>				



Date of Report: November 16, 2022
 Samples Submitted: October 28, 2022
 Laboratory Reference: 2210-348
 Project: 6694-002-05 T700

SEMIVOLATILE ORGANICS EPA 8270E/SIM
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Matrix: Sediment
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SED-11-221027					
Laboratory ID:	10-348-08					
n-Nitrosodimethylamine	ND	0.032	EPA 8270E	11-4-22	11-4-22	
Pyridine	ND	0.32	EPA 8270E	11-4-22	11-4-22	
Phenol	ND	0.032	EPA 8270E	11-4-22	11-4-22	
Aniline	ND	0.16	EPA 8270E	11-4-22	11-4-22	
bis(2-Chloroethyl)ether	ND	0.032	EPA 8270E	11-4-22	11-4-22	
2-Chlorophenol	ND	0.032	EPA 8270E	11-4-22	11-4-22	
1,3-Dichlorobenzene	ND	0.032	EPA 8270E	11-4-22	11-4-22	
1,4-Dichlorobenzene	ND	0.032	EPA 8270E	11-4-22	11-4-22	
Benzyl alcohol	ND	0.032	EPA 8270E	11-4-22	11-4-22	
1,2-Dichlorobenzene	ND	0.032	EPA 8270E	11-4-22	11-4-22	
2-Methylphenol (o-Cresol)	ND	0.032	EPA 8270E	11-4-22	11-4-22	
bis(2-Chloroisopropyl)ether	ND	0.032	EPA 8270E	11-4-22	11-4-22	
(3+4)-Methylphenol (m,p-Cresol)	ND	0.032	EPA 8270E	11-4-22	11-4-22	
n-Nitroso-di-n-propylamine	ND	0.032	EPA 8270E	11-4-22	11-4-22	
Hexachloroethane	ND	0.042	EPA 8270E	11-4-22	11-4-22	
Nitrobenzene	ND	0.032	EPA 8270E	11-4-22	11-4-22	
Isophorone	ND	0.032	EPA 8270E	11-4-22	11-4-22	
2-Nitrophenol	ND	0.042	EPA 8270E	11-4-22	11-4-22	
2,4-Dimethylphenol	ND	0.032	EPA 8270E	11-4-22	11-4-22	
bis(2-Chloroethoxy)methane	ND	0.032	EPA 8270E	11-4-22	11-4-22	
2,4-Dichlorophenol	ND	0.032	EPA 8270E	11-4-22	11-4-22	
1,2,4-Trichlorobenzene	ND	0.032	EPA 8270E	11-4-22	11-4-22	
Naphthalene	ND	0.0065	EPA 8270E/SIM	11-4-22	11-4-22	
4-Chloroaniline	ND	0.16	EPA 8270E	11-4-22	11-4-22	
Hexachlorobutadiene	ND	0.032	EPA 8270E	11-4-22	11-4-22	
4-Chloro-3-methylphenol	ND	0.032	EPA 8270E	11-4-22	11-4-22	
2-Methylnaphthalene	ND	0.0065	EPA 8270E/SIM	11-4-22	11-4-22	
1-Methylnaphthalene	ND	0.0065	EPA 8270E/SIM	11-4-22	11-4-22	
Hexachlorocyclopentadiene	ND	0.18	EPA 8270E	11-4-22	11-4-22	
2,4,6-Trichlorophenol	ND	0.032	EPA 8270E	11-4-22	11-4-22	
2,3-Dichloroaniline	ND	0.032	EPA 8270E	11-4-22	11-4-22	
2,4,5-Trichlorophenol	ND	0.032	EPA 8270E	11-4-22	11-4-22	
2-Chloronaphthalene	ND	0.032	EPA 8270E	11-4-22	11-4-22	
2-Nitroaniline	ND	0.032	EPA 8270E	11-4-22	11-4-22	
1,4-Dinitrobenzene	ND	0.044	EPA 8270E	11-4-22	11-4-22	
Dimethylphthalate	ND	0.032	EPA 8270E	11-4-22	11-4-22	
1,3-Dinitrobenzene	ND	0.032	EPA 8270E	11-4-22	11-4-22	
2,6-Dinitrotoluene	ND	0.032	EPA 8270E	11-4-22	11-4-22	
1,2-Dinitrobenzene	ND	0.032	EPA 8270E	11-4-22	11-4-22	
Acenaphthylene	ND	0.0065	EPA 8270E/SIM	11-4-22	11-4-22	
3-Nitroaniline	ND	0.032	EPA 8270E	11-4-22	11-4-22	



Date of Report: November 16, 2022
 Samples Submitted: October 28, 2022
 Laboratory Reference: 2210-348
 Project: 6694-002-05 T700

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SED-11-221027					
Laboratory ID:	10-348-08					
2,4-Dinitrophenol	ND	0.99	EPA 8270E	11-4-22	11-4-22	
Acenaphthene	ND	0.0065	EPA 8270E/SIM	11-4-22	11-4-22	
4-Nitrophenol	ND	0.032	EPA 8270E	11-4-22	11-4-22	
2,4-Dinitrotoluene	ND	0.032	EPA 8270E	11-4-22	11-4-22	
Dibenzofuran	ND	0.032	EPA 8270E	11-4-22	11-4-22	
2,3,5,6-Tetrachlorophenol	ND	0.032	EPA 8270E	11-4-22	11-4-22	
2,3,4,6-Tetrachlorophenol	ND	0.032	EPA 8270E	11-4-22	11-4-22	
Diethylphthalate	ND	0.16	EPA 8270E	11-4-22	11-4-22	
4-Chlorophenyl-phenylether	ND	0.032	EPA 8270E	11-4-22	11-4-22	
4-Nitroaniline	ND	0.032	EPA 8270E	11-4-22	11-4-22	
Fluorene	ND	0.0065	EPA 8270E/SIM	11-4-22	11-4-22	
4,6-Dinitro-2-methylphenol	ND	0.99	EPA 8270E	11-4-22	11-4-22	
n-Nitrosodiphenylamine	ND	0.032	EPA 8270E	11-4-22	11-4-22	
1,2-Diphenylhydrazine	ND	0.032	EPA 8270E	11-4-22	11-4-22	
4-Bromophenyl-phenylether	ND	0.032	EPA 8270E	11-4-22	11-4-22	
Hexachlorobenzene	ND	0.032	EPA 8270E	11-4-22	11-4-22	
Pentachlorophenol	ND	0.16	EPA 8270E	11-4-22	11-4-22	
Phenanthrene	ND	0.0065	EPA 8270E/SIM	11-4-22	11-4-22	
Anthracene	ND	0.0065	EPA 8270E/SIM	11-4-22	11-4-22	
Carbazole	ND	0.032	EPA 8270E	11-4-22	11-4-22	
Di-n-butylphthalate	ND	0.16	EPA 8270E	11-4-22	11-4-22	
Fluoranthene	ND	0.0065	EPA 8270E/SIM	11-4-22	11-4-22	
Pyrene	ND	0.0065	EPA 8270E/SIM	11-4-22	11-4-22	
Butylbenzylphthalate	ND	0.16	EPA 8270E	11-4-22	11-4-22	
bis(2-Ethylhexyl)adipate	ND	0.16	EPA 8270E	11-4-22	11-4-22	
3,3'-Dichlorobenzidine	ND	0.16	EPA 8270E	11-4-22	11-4-22	
Benzo[a]anthracene	ND	0.0065	EPA 8270E/SIM	11-4-22	11-4-22	
Chrysene	ND	0.0065	EPA 8270E/SIM	11-4-22	11-4-22	
bis(2-Ethylhexyl)phthalate	ND	0.16	EPA 8270E	11-4-22	11-4-22	
Di-n-octylphthalate	ND	0.16	EPA 8270E	11-4-22	11-4-22	
Benzo[b]fluoranthene	ND	0.0065	EPA 8270E/SIM	11-4-22	11-4-22	
Benzo(j,k)fluoranthene	ND	0.0065	EPA 8270E/SIM	11-4-22	11-4-22	
Benzo[a]pyrene	ND	0.0065	EPA 8270E/SIM	11-4-22	11-4-22	
Indeno[1,2,3-cd]pyrene	ND	0.0065	EPA 8270E/SIM	11-4-22	11-4-22	
Dibenz[a,h]anthracene	ND	0.0065	EPA 8270E/SIM	11-4-22	11-4-22	
Benzo[g,h,i]perylene	ND	0.0065	EPA 8270E/SIM	11-4-22	11-4-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>2-Fluorophenol</i>	<i>58</i>	<i>22 - 111</i>				
<i>Phenol-d6</i>	<i>59</i>	<i>31 - 117</i>				
<i>Nitrobenzene-d5</i>	<i>60</i>	<i>29 - 111</i>				
<i>2-Fluorobiphenyl</i>	<i>56</i>	<i>39 - 109</i>				
<i>2,4,6-Tribromophenol</i>	<i>74</i>	<i>36 - 127</i>				
<i>Terphenyl-d14</i>	<i>60</i>	<i>39 - 116</i>				



Date of Report: November 16, 2022
 Samples Submitted: October 28, 2022
 Laboratory Reference: 2210-348
 Project: 6694-002-05 T700

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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SWS-2-20221027					
Laboratory ID:	10-348-09					
n-Nitrosodimethylamine	ND	1.2	EPA 8270E	11-1-22	11-2-22	
Pyridine	ND	1.2	EPA 8270E	11-1-22	11-2-22	
Phenol	ND	1.2	EPA 8270E	11-1-22	11-2-22	
Aniline	ND	5.8	EPA 8270E	11-1-22	11-2-22	
bis(2-Chloroethyl)ether	ND	1.2	EPA 8270E	11-1-22	11-2-22	
2-Chlorophenol	ND	1.2	EPA 8270E	11-1-22	11-2-22	
1,3-Dichlorobenzene	ND	1.2	EPA 8270E	11-1-22	11-2-22	
1,4-Dichlorobenzene	ND	1.2	EPA 8270E	11-1-22	11-2-22	
Benzyl alcohol	ND	1.2	EPA 8270E	11-1-22	11-2-22	
1,2-Dichlorobenzene	ND	1.2	EPA 8270E	11-1-22	11-2-22	
2-Methylphenol (o-Cresol)	ND	1.2	EPA 8270E	11-1-22	11-2-22	
bis(2-Chloroisopropyl)ether	ND	1.2	EPA 8270E	11-1-22	11-2-22	
(3+4)-Methylphenol (m,p-Cresol)	ND	1.2	EPA 8270E	11-1-22	11-2-22	
n-Nitroso-di-n-propylamine	ND	1.2	EPA 8270E	11-1-22	11-2-22	
Hexachloroethane	ND	1.2	EPA 8270E	11-1-22	11-2-22	
Nitrobenzene	ND	1.2	EPA 8270E	11-1-22	11-2-22	
Isophorone	ND	1.2	EPA 8270E	11-1-22	11-2-22	
2-Nitrophenol	ND	1.2	EPA 8270E	11-1-22	11-2-22	
2,4-Dimethylphenol	ND	1.2	EPA 8270E	11-1-22	11-2-22	
bis(2-Chloroethoxy)methane	ND	1.2	EPA 8270E	11-1-22	11-2-22	
2,4-Dichlorophenol	ND	1.2	EPA 8270E	11-1-22	11-2-22	
1,2,4-Trichlorobenzene	ND	1.2	EPA 8270E	11-1-22	11-2-22	
Naphthalene	ND	0.12	EPA 8270E/SIM	11-1-22	11-1-22	
4-Chloroaniline	ND	1.2	EPA 8270E	11-1-22	11-2-22	
Hexachlorobutadiene	ND	1.2	EPA 8270E	11-1-22	11-2-22	
4-Chloro-3-methylphenol	ND	1.2	EPA 8270E	11-1-22	11-2-22	
2-Methylnaphthalene	ND	0.12	EPA 8270E/SIM	11-1-22	11-1-22	
1-Methylnaphthalene	ND	0.12	EPA 8270E/SIM	11-1-22	11-1-22	
Hexachlorocyclopentadiene	ND	1.2	EPA 8270E	11-1-22	11-2-22	
2,4,6-Trichlorophenol	ND	1.2	EPA 8270E	11-1-22	11-2-22	
2,3-Dichloroaniline	ND	1.2	EPA 8270E	11-1-22	11-2-22	
2,4,5-Trichlorophenol	ND	1.2	EPA 8270E	11-1-22	11-2-22	
2-Chloronaphthalene	ND	1.2	EPA 8270E	11-1-22	11-2-22	
2-Nitroaniline	ND	1.2	EPA 8270E	11-1-22	11-2-22	
1,4-Dinitrobenzene	ND	1.2	EPA 8270E	11-1-22	11-2-22	
Dimethylphthalate	ND	5.8	EPA 8270E	11-1-22	11-2-22	
1,3-Dinitrobenzene	ND	1.2	EPA 8270E	11-1-22	11-2-22	
2,6-Dinitrotoluene	ND	1.2	EPA 8270E	11-1-22	11-2-22	
1,2-Dinitrobenzene	ND	1.2	EPA 8270E	11-1-22	11-2-22	
Acenaphthylene	ND	0.12	EPA 8270E/SIM	11-1-22	11-1-22	
3-Nitroaniline	ND	1.2	EPA 8270E	11-1-22	11-2-22	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SWS-2-20221027					
Laboratory ID:	10-348-09					
2,4-Dinitrophenol	ND	5.8	EPA 8270E	11-1-22	11-2-22	
Acenaphthene	ND	0.12	EPA 8270E/SIM	11-1-22	11-1-22	
4-Nitrophenol	ND	5.8	EPA 8270E	11-1-22	11-2-22	
2,4-Dinitrotoluene	ND	1.2	EPA 8270E	11-1-22	11-2-22	
Dibenzofuran	ND	1.2	EPA 8270E	11-1-22	11-2-22	
2,3,5,6-Tetrachlorophenol	ND	1.2	EPA 8270E	11-1-22	11-2-22	
2,3,4,6-Tetrachlorophenol	ND	1.2	EPA 8270E	11-1-22	11-2-22	
Diethylphthalate	ND	1.2	EPA 8270E	11-1-22	11-2-22	
4-Chlorophenyl-phenylether	ND	1.2	EPA 8270E	11-1-22	11-2-22	
4-Nitroaniline	ND	1.2	EPA 8270E	11-1-22	11-2-22	
Fluorene	ND	0.12	EPA 8270E/SIM	11-1-22	11-1-22	
4,6-Dinitro-2-methylphenol	ND	5.8	EPA 8270E	11-1-22	11-2-22	
n-Nitrosodiphenylamine	ND	1.2	EPA 8270E	11-1-22	11-2-22	
1,2-Diphenylhydrazine	ND	1.2	EPA 8270E	11-1-22	11-2-22	
4-Bromophenyl-phenylether	ND	1.2	EPA 8270E	11-1-22	11-2-22	
Hexachlorobenzene	ND	1.2	EPA 8270E	11-1-22	11-2-22	
Pentachlorophenol	ND	5.8	EPA 8270E	11-1-22	11-2-22	
Phenanthrene	ND	0.12	EPA 8270E/SIM	11-1-22	11-1-22	
Anthracene	ND	0.12	EPA 8270E/SIM	11-1-22	11-1-22	
Carbazole	ND	1.2	EPA 8270E	11-1-22	11-2-22	
Di-n-butylphthalate	ND	5.8	EPA 8270E	11-1-22	11-2-22	
Fluoranthene	ND	0.12	EPA 8270E/SIM	11-1-22	11-1-22	
Pyrene	ND	0.12	EPA 8270E/SIM	11-1-22	11-1-22	
Butylbenzylphthalate	ND	1.2	EPA 8270E	11-1-22	11-2-22	
bis(2-Ethylhexyl)adipate	ND	5.8	EPA 8270E	11-1-22	11-2-22	
3,3'-Dichlorobenzidine	ND	5.8	EPA 8270E	11-1-22	11-2-22	
Benzo[a]anthracene	ND	0.012	EPA 8270E/SIM	11-1-22	11-1-22	
Chrysene	ND	0.012	EPA 8270E/SIM	11-1-22	11-1-22	
bis(2-Ethylhexyl)phthalate	ND	5.8	EPA 8270E	11-1-22	11-2-22	
Di-n-octylphthalate	ND	1.2	EPA 8270E	11-1-22	11-2-22	
Benzo[b]fluoranthene	ND	0.012	EPA 8270E/SIM	11-1-22	11-1-22	
Benzo(j,k)fluoranthene	ND	0.012	EPA 8270E/SIM	11-1-22	11-1-22	
Benzo[a]pyrene	ND	0.012	EPA 8270E/SIM	11-1-22	11-1-22	
Indeno[1,2,3-cd]pyrene	ND	0.012	EPA 8270E/SIM	11-1-22	11-1-22	
Dibenz[a,h]anthracene	ND	0.012	EPA 8270E/SIM	11-1-22	11-1-22	
Benzo[g,h,i]perylene	ND	0.012	EPA 8270E/SIM	11-1-22	11-1-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
2-Fluorophenol	47	10 - 81				
Phenol-d6	34	10 - 86				
Nitrobenzene-d5	72	27 - 105				
2-Fluorobiphenyl	68	33 - 100				
2,4,6-Tribromophenol	87	25 - 124				
Terphenyl-d14	70	40 - 116				



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 Samples Submitted: October 28, 2022
 Laboratory Reference: 2210-348
 Project: 6694-002-05 T700

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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SWS-3-20221027					
Laboratory ID:	10-348-10					
n-Nitrosodimethylamine	ND	0.99	EPA 8270E	11-1-22	11-2-22	
Pyridine	ND	0.99	EPA 8270E	11-1-22	11-2-22	
Phenol	ND	0.99	EPA 8270E	11-1-22	11-2-22	
Aniline	ND	5.0	EPA 8270E	11-1-22	11-2-22	
bis(2-Chloroethyl)ether	ND	0.99	EPA 8270E	11-1-22	11-2-22	
2-Chlorophenol	ND	0.99	EPA 8270E	11-1-22	11-2-22	
1,3-Dichlorobenzene	ND	0.99	EPA 8270E	11-1-22	11-2-22	
1,4-Dichlorobenzene	ND	0.99	EPA 8270E	11-1-22	11-2-22	
Benzyl alcohol	ND	0.99	EPA 8270E	11-1-22	11-2-22	
1,2-Dichlorobenzene	ND	0.99	EPA 8270E	11-1-22	11-2-22	
2-Methylphenol (o-Cresol)	ND	0.99	EPA 8270E	11-1-22	11-2-22	
bis(2-Chloroisopropyl)ether	ND	0.99	EPA 8270E	11-1-22	11-2-22	
(3+4)-Methylphenol (m,p-Cresol)	ND	0.99	EPA 8270E	11-1-22	11-2-22	
n-Nitroso-di-n-propylamine	ND	0.99	EPA 8270E	11-1-22	11-2-22	
Hexachloroethane	ND	0.99	EPA 8270E	11-1-22	11-2-22	
Nitrobenzene	ND	0.99	EPA 8270E	11-1-22	11-2-22	
Isophorone	ND	0.99	EPA 8270E	11-1-22	11-2-22	
2-Nitrophenol	ND	0.99	EPA 8270E	11-1-22	11-2-22	
2,4-Dimethylphenol	ND	0.99	EPA 8270E	11-1-22	11-2-22	
bis(2-Chloroethoxy)methane	ND	0.99	EPA 8270E	11-1-22	11-2-22	
2,4-Dichlorophenol	ND	0.99	EPA 8270E	11-1-22	11-2-22	
1,2,4-Trichlorobenzene	ND	0.99	EPA 8270E	11-1-22	11-2-22	
Naphthalene	ND	0.099	EPA 8270E/SIM	11-1-22	11-1-22	
4-Chloroaniline	ND	0.99	EPA 8270E	11-1-22	11-2-22	
Hexachlorobutadiene	ND	0.99	EPA 8270E	11-1-22	11-2-22	
4-Chloro-3-methylphenol	ND	0.99	EPA 8270E	11-1-22	11-2-22	
2-Methylnaphthalene	ND	0.099	EPA 8270E/SIM	11-1-22	11-1-22	
1-Methylnaphthalene	ND	0.099	EPA 8270E/SIM	11-1-22	11-1-22	
Hexachlorocyclopentadiene	ND	0.99	EPA 8270E	11-1-22	11-2-22	
2,4,6-Trichlorophenol	ND	0.99	EPA 8270E	11-1-22	11-2-22	
2,3-Dichloroaniline	ND	0.99	EPA 8270E	11-1-22	11-2-22	
2,4,5-Trichlorophenol	ND	0.99	EPA 8270E	11-1-22	11-2-22	
2-Chloronaphthalene	ND	0.99	EPA 8270E	11-1-22	11-2-22	
2-Nitroaniline	ND	0.99	EPA 8270E	11-1-22	11-2-22	
1,4-Dinitrobenzene	ND	0.99	EPA 8270E	11-1-22	11-2-22	
Dimethylphthalate	ND	5.0	EPA 8270E	11-1-22	11-2-22	
1,3-Dinitrobenzene	ND	0.99	EPA 8270E	11-1-22	11-2-22	
2,6-Dinitrotoluene	ND	0.99	EPA 8270E	11-1-22	11-2-22	
1,2-Dinitrobenzene	ND	0.99	EPA 8270E	11-1-22	11-2-22	
Acenaphthylene	ND	0.099	EPA 8270E/SIM	11-1-22	11-1-22	
3-Nitroaniline	ND	0.99	EPA 8270E	11-1-22	11-2-22	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SWS-3-20221027					
Laboratory ID:	10-348-10					
2,4-Dinitrophenol	ND	5.0	EPA 8270E	11-1-22	11-2-22	
Acenaphthene	0.49	0.099	EPA 8270E/SIM	11-1-22	11-1-22	
4-Nitrophenol	ND	5.0	EPA 8270E	11-1-22	11-2-22	
2,4-Dinitrotoluene	ND	0.99	EPA 8270E	11-1-22	11-2-22	
Dibenzofuran	ND	0.99	EPA 8270E	11-1-22	11-2-22	
2,3,5,6-Tetrachlorophenol	ND	0.99	EPA 8270E	11-1-22	11-2-22	
2,3,4,6-Tetrachlorophenol	ND	0.99	EPA 8270E	11-1-22	11-2-22	
Diethylphthalate	ND	0.99	EPA 8270E	11-1-22	11-2-22	
4-Chlorophenyl-phenylether	ND	0.99	EPA 8270E	11-1-22	11-2-22	
4-Nitroaniline	ND	0.99	EPA 8270E	11-1-22	11-2-22	
Fluorene	0.17	0.099	EPA 8270E/SIM	11-1-22	11-1-22	
4,6-Dinitro-2-methylphenol	ND	5.0	EPA 8270E	11-1-22	11-2-22	
n-Nitrosodiphenylamine	ND	0.99	EPA 8270E	11-1-22	11-2-22	
1,2-Diphenylhydrazine	ND	0.99	EPA 8270E	11-1-22	11-2-22	
4-Bromophenyl-phenylether	ND	0.99	EPA 8270E	11-1-22	11-2-22	
Hexachlorobenzene	ND	0.99	EPA 8270E	11-1-22	11-2-22	
Pentachlorophenol	ND	5.0	EPA 8270E	11-1-22	11-2-22	
Phenanthrene	ND	0.099	EPA 8270E/SIM	11-1-22	11-1-22	
Anthracene	ND	0.099	EPA 8270E/SIM	11-1-22	11-1-22	
Carbazole	ND	0.99	EPA 8270E	11-1-22	11-2-22	
Di-n-butylphthalate	ND	5.0	EPA 8270E	11-1-22	11-2-22	
Fluoranthene	ND	0.099	EPA 8270E/SIM	11-1-22	11-1-22	
Pyrene	ND	0.099	EPA 8270E/SIM	11-1-22	11-1-22	
Butylbenzylphthalate	ND	0.99	EPA 8270E	11-1-22	11-2-22	
bis(2-Ethylhexyl)adipate	ND	5.0	EPA 8270E	11-1-22	11-2-22	
3,3'-Dichlorobenzidine	ND	5.0	EPA 8270E	11-1-22	11-2-22	
Benzo[a]anthracene	ND	0.0099	EPA 8270E/SIM	11-1-22	11-1-22	
Chrysene	ND	0.0099	EPA 8270E/SIM	11-1-22	11-1-22	
bis(2-Ethylhexyl)phthalate	ND	5.0	EPA 8270E	11-1-22	11-2-22	
Di-n-octylphthalate	ND	0.99	EPA 8270E	11-1-22	11-2-22	
Benzo[b]fluoranthene	ND	0.0099	EPA 8270E/SIM	11-1-22	11-1-22	
Benzo(j,k)fluoranthene	ND	0.0099	EPA 8270E/SIM	11-1-22	11-1-22	
Benzo[a]pyrene	ND	0.0099	EPA 8270E/SIM	11-1-22	11-1-22	
Indeno[1,2,3-cd]pyrene	ND	0.0099	EPA 8270E/SIM	11-1-22	11-1-22	
Dibenz[a,h]anthracene	ND	0.0099	EPA 8270E/SIM	11-1-22	11-1-22	
Benzo[g,h,i]perylene	ND	0.0099	EPA 8270E/SIM	11-1-22	11-1-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
2-Fluorophenol	41	10 - 81				
Phenol-d6	29	10 - 86				
Nitrobenzene-d5	69	27 - 105				
2-Fluorobiphenyl	67	33 - 100				
2,4,6-Tribromophenol	83	25 - 124				
Terphenyl-d14	68	40 - 116				



Date of Report: November 16, 2022
 Samples Submitted: October 28, 2022
 Laboratory Reference: 2210-348
 Project: 6694-002-05 T700

**ORGANOCHLORINE
 PESTICIDES EPA 8081B**

Matrix: Sediment
 Units: ug/Kg (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SED-4-221027					
Laboratory ID:	10-348-01					
alpha-BHC	ND	1.6	EPA 8081B	11-4-22	11-4-22	
gamma-BHC	ND	1.6	EPA 8081B	11-4-22	11-4-22	
beta-BHC	ND	1.6	EPA 8081B	11-4-22	11-4-22	
delta-BHC	ND	1.6	EPA 8081B	11-4-22	11-4-22	
Heptachlor	1.8	1.6	EPA 8081B	11-4-22	11-4-22	
Aldrin	ND	1.6	EPA 8081B	11-4-22	11-4-22	
Heptachlor epoxide	ND	1.6	EPA 8081B	11-4-22	11-4-22	
gamma-Chlordane	ND	3.2	EPA 8081B	11-4-22	11-4-22	
alpha-Chlordane	ND	3.2	EPA 8081B	11-4-22	11-4-22	
4,4'-DDE	ND	3.2	EPA 8081B	11-4-22	11-4-22	
Endosulfan I	ND	1.6	EPA 8081B	11-4-22	11-4-22	
Dieldrin	ND	3.2	EPA 8081B	11-4-22	11-4-22	
Endrin	ND	3.2	EPA 8081B	11-4-22	11-4-22	
4,4'-DDD	ND	3.2	EPA 8081B	11-4-22	11-4-22	
Endosulfan II	ND	3.2	EPA 8081B	11-4-22	11-4-22	
4,4'-DDT	ND	3.2	EPA 8081B	11-4-22	11-4-22	
Endrin aldehyde	ND	3.2	EPA 8081B	11-4-22	11-4-22	
Methoxychlor	ND	13	EPA 8081B	11-4-22	11-4-22	
Endosulfan sulfate	ND	3.2	EPA 8081B	11-4-22	11-4-22	
Endrin ketone	ND	3.2	EPA 8081B	11-4-22	11-4-22	
Toxaphene	ND	16	EPA 8081B	11-4-22	11-4-22	
Tech Chlordane	ND	16	EPA 8081B	11-4-22	11-4-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control limits</i>				
<i>Tetrachloro-m-xylene</i>	<i>58</i>	<i>35-110</i>				
<i>Decachlorobiphenyl</i>	<i>59</i>	<i>32-122</i>				



Date of Report: November 16, 2022
 Samples Submitted: October 28, 2022
 Laboratory Reference: 2210-348
 Project: 6694-002-05 T700

**ORGANOCHLORINE
 PESTICIDES EPA 8081B**

Matrix: Sediment
 Units: ug/Kg (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SED-5-221027					
Laboratory ID:	10-348-02					
alpha-BHC	ND	1.5	EPA 8081B	11-4-22	11-4-22	
gamma-BHC	ND	1.5	EPA 8081B	11-4-22	11-4-22	
beta-BHC	ND	1.5	EPA 8081B	11-4-22	11-4-22	
delta-BHC	ND	1.5	EPA 8081B	11-4-22	11-4-22	
Heptachlor	ND	1.5	EPA 8081B	11-4-22	11-4-22	
Aldrin	ND	1.5	EPA 8081B	11-4-22	11-4-22	
Heptachlor epoxide	ND	1.5	EPA 8081B	11-4-22	11-4-22	
gamma-Chlordane	ND	3.0	EPA 8081B	11-4-22	11-4-22	
alpha-Chlordane	ND	3.0	EPA 8081B	11-4-22	11-4-22	
4,4'-DDE	ND	3.0	EPA 8081B	11-4-22	11-4-22	
Endosulfan I	ND	1.5	EPA 8081B	11-4-22	11-4-22	
Dieldrin	ND	3.0	EPA 8081B	11-4-22	11-4-22	
Endrin	ND	3.0	EPA 8081B	11-4-22	11-4-22	
4,4'-DDD	ND	3.0	EPA 8081B	11-4-22	11-4-22	
Endosulfan II	ND	3.0	EPA 8081B	11-4-22	11-4-22	
4,4'-DDT	ND	3.0	EPA 8081B	11-4-22	11-4-22	
Endrin aldehyde	ND	3.0	EPA 8081B	11-4-22	11-4-22	
Methoxychlor	ND	12	EPA 8081B	11-2-22	11-4-22	
Endosulfan sulfate	ND	3.0	EPA 8081B	11-4-22	11-4-22	
Endrin ketone	ND	3.0	EPA 8081B	11-4-22	11-4-22	
Toxaphene	ND	15	EPA 8081B	11-4-22	11-4-22	
Tech Chlordane	ND	15	EPA 8081B	11-4-22	11-4-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control limits</i>				
<i>Tetrachloro-m-xylene</i>	<i>54</i>	<i>35-110</i>				
<i>Decachlorobiphenyl</i>	<i>58</i>	<i>32-122</i>				



Date of Report: November 16, 2022
 Samples Submitted: October 28, 2022
 Laboratory Reference: 2210-348
 Project: 6694-002-05 T700

**ORGANOCHLORINE
 PESTICIDES EPA 8081B**

Matrix: Sediment
 Units: ug/Kg (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SED-6-221027					
Laboratory ID:	10-348-03					
alpha-BHC	ND	1.5	EPA 8081B	11-4-22	11-4-22	
gamma-BHC	ND	1.5	EPA 8081B	11-4-22	11-4-22	
beta-BHC	ND	1.5	EPA 8081B	11-4-22	11-4-22	
delta-BHC	ND	1.5	EPA 8081B	11-4-22	11-4-22	
Heptachlor	ND	1.5	EPA 8081B	11-4-22	11-4-22	
Aldrin	ND	1.5	EPA 8081B	11-4-22	11-4-22	
Heptachlor epoxide	ND	1.5	EPA 8081B	11-4-22	11-4-22	
gamma-Chlordane	ND	3.0	EPA 8081B	11-4-22	11-4-22	
alpha-Chlordane	ND	3.0	EPA 8081B	11-4-22	11-4-22	
4,4'-DDE	ND	3.0	EPA 8081B	11-4-22	11-4-22	
Endosulfan I	ND	1.5	EPA 8081B	11-4-22	11-4-22	
Dieldrin	ND	3.0	EPA 8081B	11-4-22	11-4-22	
Endrin	ND	3.0	EPA 8081B	11-4-22	11-4-22	
4,4'-DDD	ND	3.0	EPA 8081B	11-4-22	11-4-22	
Endosulfan II	ND	3.0	EPA 8081B	11-4-22	11-4-22	
4,4'-DDT	ND	3.0	EPA 8081B	11-4-22	11-4-22	
Endrin aldehyde	ND	3.0	EPA 8081B	11-4-22	11-4-22	
Methoxychlor	ND	12	EPA 8081B	11-2-22	11-4-22	
Endosulfan sulfate	ND	3.0	EPA 8081B	11-4-22	11-4-22	
Endrin ketone	ND	3.0	EPA 8081B	11-4-22	11-4-22	
Toxaphene	ND	15	EPA 8081B	11-4-22	11-4-22	
Tech Chlordane	ND	15	EPA 8081B	11-4-22	11-4-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control limits</i>				
<i>Tetrachloro-m-xylene</i>	56	35-110				
<i>Decachlorobiphenyl</i>	56	32-122				



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**ORGANOCHLORINE
 PESTICIDES EPA 8081B**

Matrix: Sediment
 Units: ug/Kg (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SED-7-221027					
Laboratory ID:	10-348-04					
alpha-BHC	ND	1.6	EPA 8081B	11-4-22	11-4-22	
gamma-BHC	ND	1.6	EPA 8081B	11-4-22	11-4-22	
beta-BHC	ND	1.6	EPA 8081B	11-4-22	11-4-22	
delta-BHC	ND	1.6	EPA 8081B	11-4-22	11-4-22	
Heptachlor	11	1.6	EPA 8081B	11-4-22	11-4-22	
Aldrin	ND	1.6	EPA 8081B	11-4-22	11-4-22	
Heptachlor epoxide	ND	1.6	EPA 8081B	11-4-22	11-4-22	
gamma-Chlordane	ND	3.3	EPA 8081B	11-4-22	11-4-22	
alpha-Chlordane	ND	3.3	EPA 8081B	11-4-22	11-4-22	
4,4'-DDE	ND	3.3	EPA 8081B	11-4-22	11-4-22	
Endosulfan I	ND	1.6	EPA 8081B	11-4-22	11-4-22	
Dieldrin	ND	3.3	EPA 8081B	11-4-22	11-4-22	
Endrin	ND	3.3	EPA 8081B	11-4-22	11-4-22	
4,4'-DDD	ND	3.3	EPA 8081B	11-4-22	11-4-22	
Endosulfan II	ND	3.3	EPA 8081B	11-4-22	11-4-22	
4,4'-DDT	ND	3.3	EPA 8081B	11-4-22	11-4-22	
Endrin aldehyde	ND	3.3	EPA 8081B	11-4-22	11-4-22	
Methoxychlor	ND	13	EPA 8081B	11-2-22	11-4-22	
Endosulfan sulfate	ND	3.3	EPA 8081B	11-4-22	11-4-22	
Endrin ketone	ND	3.3	EPA 8081B	11-4-22	11-4-22	
Toxaphene	ND	16	EPA 8081B	11-4-22	11-4-22	
Tech Chlordane	ND	16	EPA 8081B	11-4-22	11-4-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control limits</i>				
<i>Tetrachloro-m-xylene</i>	42	35-110				
<i>Decachlorobiphenyl</i>	40	32-122				



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**ORGANOCHLORINE
 PESTICIDES EPA 8081B**

Matrix: Sediment
 Units: ug/Kg (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SED-8-221027					
Laboratory ID:	10-348-05					
alpha-BHC	ND	2.0	EPA 8081B	11-4-22	11-4-22	
gamma-BHC	ND	2.0	EPA 8081B	11-4-22	11-4-22	
beta-BHC	ND	2.0	EPA 8081B	11-4-22	11-4-22	
delta-BHC	ND	2.0	EPA 8081B	11-4-22	11-4-22	
Heptachlor	3.2	2.0	EPA 8081B	11-4-22	11-4-22	
Aldrin	ND	2.0	EPA 8081B	11-4-22	11-4-22	
Heptachlor epoxide	ND	2.0	EPA 8081B	11-4-22	11-4-22	
gamma-Chlordane	ND	4.0	EPA 8081B	11-4-22	11-4-22	
alpha-Chlordane	ND	4.0	EPA 8081B	11-4-22	11-4-22	
4,4'-DDE	ND	4.0	EPA 8081B	11-4-22	11-4-22	
Endosulfan I	ND	2.0	EPA 8081B	11-4-22	11-4-22	
Dieldrin	ND	4.0	EPA 8081B	11-4-22	11-4-22	
Endrin	ND	4.0	EPA 8081B	11-4-22	11-4-22	
4,4'-DDD	ND	4.0	EPA 8081B	11-4-22	11-4-22	
Endosulfan II	ND	4.0	EPA 8081B	11-4-22	11-4-22	
4,4'-DDT	ND	16	EPA 8081B	11-4-22	11-7-22	
Endrin aldehyde	ND	4.0	EPA 8081B	11-4-22	11-4-22	
Methoxychlor	ND	16	EPA 8081B	11-4-22	11-7-22	
Endosulfan sulfate	ND	4.0	EPA 8081B	11-4-22	11-4-22	
Endrin ketone	ND	4.0	EPA 8081B	11-4-22	11-4-22	
Toxaphene	ND	20	EPA 8081B	11-4-22	11-4-22	
Tech Chlordane	ND	20	EPA 8081B	11-4-22	11-4-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control limits</i>				
<i>Tetrachloro-m-xylene</i>	69	35-110				
<i>Decachlorobiphenyl</i>	72	32-122				



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**ORGANOCHLORINE
 PESTICIDES EPA 8081B**

Matrix: Sediment
 Units: ug/Kg (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SED-9-221027					
Laboratory ID:	10-348-06					
alpha-BHC	ND	1.7	EPA 8081B	11-4-22	11-4-22	
gamma-BHC	ND	1.7	EPA 8081B	11-4-22	11-4-22	
beta-BHC	ND	1.7	EPA 8081B	11-4-22	11-4-22	
delta-BHC	ND	1.7	EPA 8081B	11-4-22	11-4-22	
Heptachlor	ND	1.7	EPA 8081B	11-4-22	11-4-22	
Aldrin	ND	1.7	EPA 8081B	11-4-22	11-4-22	
Heptachlor epoxide	ND	1.7	EPA 8081B	11-4-22	11-4-22	
gamma-Chlordane	ND	3.4	EPA 8081B	11-4-22	11-4-22	
alpha-Chlordane	ND	3.4	EPA 8081B	11-4-22	11-4-22	
4,4'-DDE	ND	3.4	EPA 8081B	11-4-22	11-4-22	
Endosulfan I	ND	1.7	EPA 8081B	11-4-22	11-4-22	
Dieldrin	ND	3.4	EPA 8081B	11-4-22	11-4-22	
Endrin	ND	3.4	EPA 8081B	11-4-22	11-4-22	
4,4'-DDD	ND	3.4	EPA 8081B	11-4-22	11-4-22	
Endosulfan II	ND	3.4	EPA 8081B	11-4-22	11-4-22	
4,4'-DDT	ND	14	EPA 8081B	11-4-22	11-4-22	
Endrin aldehyde	ND	3.4	EPA 8081B	11-4-22	11-4-22	
Methoxychlor	ND	14	EPA 8081B	11-4-22	11-4-22	
Endosulfan sulfate	ND	3.4	EPA 8081B	11-4-22	11-4-22	
Endrin ketone	ND	3.4	EPA 8081B	11-4-22	11-4-22	
Toxaphene	ND	17	EPA 8081B	11-4-22	11-4-22	
Tech Chlordane	ND	17	EPA 8081B	11-4-22	11-4-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control limits</i>				
<i>Tetrachloro-m-xylene</i>	43	35-110				
<i>Decachlorobiphenyl</i>	38	32-122				



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**ORGANOCHLORINE
 PESTICIDES EPA 8081B**

Matrix: Sediment
 Units: ug/Kg (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SED-10-221027					
Laboratory ID:	10-348-07					
alpha-BHC	ND	1.8	EPA 8081B	11-4-22	11-4-22	
gamma-BHC	ND	1.8	EPA 8081B	11-4-22	11-4-22	
beta-BHC	ND	1.8	EPA 8081B	11-4-22	11-4-22	
delta-BHC	ND	1.8	EPA 8081B	11-4-22	11-4-22	
Heptachlor	ND	1.8	EPA 8081B	11-4-22	11-4-22	
Aldrin	ND	1.8	EPA 8081B	11-4-22	11-4-22	
Heptachlor epoxide	ND	1.8	EPA 8081B	11-4-22	11-4-22	
gamma-Chlordane	ND	3.6	EPA 8081B	11-4-22	11-4-22	
alpha-Chlordane	ND	3.6	EPA 8081B	11-4-22	11-4-22	
4,4'-DDE	ND	3.6	EPA 8081B	11-4-22	11-4-22	
Endosulfan I	ND	1.8	EPA 8081B	11-4-22	11-4-22	
Dieldrin	ND	3.6	EPA 8081B	11-4-22	11-4-22	
Endrin	ND	3.6	EPA 8081B	11-4-22	11-4-22	
4,4'-DDD	ND	3.6	EPA 8081B	11-4-22	11-4-22	
Endosulfan II	ND	3.6	EPA 8081B	11-4-22	11-4-22	
4,4'-DDT	ND	15	EPA 8081B	11-4-22	11-4-22	
Endrin aldehyde	ND	3.6	EPA 8081B	11-4-22	11-4-22	
Methoxychlor	ND	15	EPA 8081B	11-4-22	11-4-22	
Endosulfan sulfate	ND	3.6	EPA 8081B	11-4-22	11-4-22	
Endrin ketone	ND	3.6	EPA 8081B	11-4-22	11-4-22	
Toxaphene	ND	18	EPA 8081B	11-4-22	11-4-22	
Tech Chlordane	ND	18	EPA 8081B	11-4-22	11-4-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control limits</i>				
<i>Tetrachloro-m-xylene</i>	<i>54</i>	<i>35-110</i>				
<i>Decachlorobiphenyl</i>	<i>51</i>	<i>32-122</i>				



Date of Report: November 16, 2022
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 Laboratory Reference: 2210-348
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**ORGANOCHLORINE
 PESTICIDES EPA 8081B**

Matrix: Sediment
 Units: ug/Kg (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SED-11-221027					
Laboratory ID:	10-348-08					
alpha-BHC	ND	2.0	EPA 8081B	11-4-22	11-4-22	
gamma-BHC	ND	2.0	EPA 8081B	11-4-22	11-4-22	
beta-BHC	ND	2.0	EPA 8081B	11-4-22	11-4-22	
delta-BHC	ND	2.0	EPA 8081B	11-4-22	11-4-22	
Heptachlor	ND	2.0	EPA 8081B	11-4-22	11-4-22	
Aldrin	ND	2.0	EPA 8081B	11-4-22	11-4-22	
Heptachlor epoxide	ND	2.0	EPA 8081B	11-4-22	11-4-22	
gamma-Chlordane	ND	4.0	EPA 8081B	11-4-22	11-4-22	
alpha-Chlordane	ND	4.0	EPA 8081B	11-4-22	11-4-22	
4,4'-DDE	ND	4.0	EPA 8081B	11-4-22	11-4-22	
Endosulfan I	ND	2.0	EPA 8081B	11-4-22	11-4-22	
Dieldrin	ND	4.0	EPA 8081B	11-4-22	11-4-22	
Endrin	ND	4.0	EPA 8081B	11-4-22	11-4-22	
4,4'-DDD	ND	4.0	EPA 8081B	11-4-22	11-4-22	
Endosulfan II	ND	4.0	EPA 8081B	11-4-22	11-4-22	
4,4'-DDT	ND	16	EPA 8081B	11-4-22	11-4-22	
Endrin aldehyde	ND	4.0	EPA 8081B	11-4-22	11-4-22	
Methoxychlor	ND	16	EPA 8081B	11-4-22	11-4-22	
Endosulfan sulfate	ND	4.0	EPA 8081B	11-4-22	11-4-22	
Endrin ketone	ND	4.0	EPA 8081B	11-4-22	11-4-22	
Toxaphene	ND	20	EPA 8081B	11-4-22	11-4-22	
Tech Chlordane	ND	20	EPA 8081B	11-4-22	11-4-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control limits</i>				
<i>Tetrachloro-m-xylene</i>	55	35-110				
<i>Decachlorobiphenyl</i>	46	32-122				



Date of Report: November 16, 2022
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**ORGANOCHLORINE
 PESTICIDES EPA 8081B**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SWS-2-20221027					
Laboratory ID:	10-348-09					
alpha-BHC	ND	0.0024	EPA 8081B	11-1-22	11-1-22	
gamma-BHC	ND	0.0024	EPA 8081B	11-1-22	11-1-22	
beta-BHC	ND	0.0024	EPA 8081B	11-1-22	11-1-22	
delta-BHC	ND	0.0024	EPA 8081B	11-1-22	11-1-22	
Heptachlor	ND	0.0024	EPA 8081B	11-1-22	11-1-22	
Aldrin	ND	0.0024	EPA 8081B	11-1-22	11-1-22	
Heptachlor epoxide	ND	0.0036	EPA 8081B	11-1-22	11-1-22	
gamma-Chlordane	ND	0.0024	EPA 8081B	11-1-22	11-1-22	
alpha-Chlordane	ND	0.0024	EPA 8081B	11-1-22	11-1-22	
4,4'-DDE	ND	0.0024	EPA 8081B	11-1-22	11-1-22	
Endosulfan I	ND	0.0024	EPA 8081B	11-1-22	11-1-22	
Dieldrin	ND	0.0024	EPA 8081B	11-1-22	11-1-22	
Endrin	ND	0.0024	EPA 8081B	11-1-22	11-1-22	
4,4'-DDD	ND	0.0024	EPA 8081B	11-1-22	11-1-22	
Endosulfan II	ND	0.0024	EPA 8081B	11-1-22	11-1-22	
4,4'-DDT	ND	0.0024	EPA 8081B	11-1-22	11-2-22	
Endrin aldehyde	ND	0.0024	EPA 8081B	11-1-22	11-1-22	
Methoxychlor	ND	0.0061	EPA 8081B	11-1-22	11-1-22	
Endosulfan sulfate	ND	0.0024	EPA 8081B	11-1-22	11-1-22	
Endrin ketone	ND	0.012	EPA 8081B	11-1-22	11-1-22	
Toxaphene	ND	0.024	EPA 8081B	11-1-22	11-1-22	
Tech Chlordane	ND	0.024	EPA 8081B	11-1-22	11-1-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control limits</i>				
<i>Tetrachloro-m-xylene</i>	60	21-110				
<i>Decachlorobiphenyl</i>	92	42-113				



Date of Report: November 16, 2022
 Samples Submitted: October 28, 2022
 Laboratory Reference: 2210-348
 Project: 6694-002-05 T700

**ORGANOCHLORINE
 PESTICIDES EPA 8081B**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SWS-3-20221027					
Laboratory ID:	10-348-10					
alpha-BHC	ND	0.0049	EPA 8081B	11-1-22	11-1-22	
gamma-BHC	ND	0.0049	EPA 8081B	11-1-22	11-1-22	
beta-BHC	ND	0.0049	EPA 8081B	11-1-22	11-1-22	
delta-BHC	ND	0.0049	EPA 8081B	11-1-22	11-1-22	
Heptachlor	ND	0.0049	EPA 8081B	11-1-22	11-1-22	
Aldrin	ND	0.0020	EPA 8081B	11-1-22	11-1-22	
Heptachlor epoxide	ND	0.0029	EPA 8081B	11-1-22	11-1-22	
gamma-Chlordane	ND	0.0049	EPA 8081B	11-1-22	11-1-22	
alpha-Chlordane	ND	0.0049	EPA 8081B	11-1-22	11-1-22	
4,4'-DDE	ND	0.0049	EPA 8081B	11-1-22	11-1-22	
Endosulfan I	ND	0.0049	EPA 8081B	11-1-22	11-1-22	
Dieldrin	ND	0.0049	EPA 8081B	11-1-22	11-1-22	
Endrin	ND	0.0049	EPA 8081B	11-1-22	11-1-22	
4,4'-DDD	ND	0.0049	EPA 8081B	11-1-22	11-1-22	
Endosulfan II	ND	0.0049	EPA 8081B	11-1-22	11-1-22	
4,4'-DDT	ND	0.0049	EPA 8081B	11-1-22	11-2-22	
Endrin aldehyde	ND	0.0049	EPA 8081B	11-1-22	11-1-22	
Methoxychlor	ND	0.0098	EPA 8081B	11-1-22	11-1-22	
Endosulfan sulfate	ND	0.0049	EPA 8081B	11-1-22	11-1-22	
Endrin ketone	ND	0.020	EPA 8081B	11-1-22	11-1-22	
Toxaphene	ND	0.049	EPA 8081B	11-1-22	11-1-22	
Tech Chlordane	ND	0.049	EPA 8081B	11-1-22	11-1-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control limits</i>				
<i>Tetrachloro-m-xylene</i>	55	21-110				
<i>Decachlorobiphenyl</i>	90	42-113				



Date of Report: November 16, 2022
 Samples Submitted: October 28, 2022
 Laboratory Reference: 2210-348
 Project: 6694-002-05 T700

TOTAL METALS
EPA 6010D/6020B/7471B

Matrix: Sediment
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SED-4-221027					
Laboratory ID:	10-348-01					
Arsenic	ND	13	EPA 6010D	11-4-22	11-4-22	
Cadmium	ND	0.64	EPA 6010D	11-4-22	11-4-22	
Chromium	29	0.64	EPA 6010D	11-4-22	11-4-22	
Copper	15	1.3	EPA 6010D	11-4-22	11-4-22	
Iron	27000	1300	EPA 6010D	11-4-22	11-4-22	
Lead	ND	6.4	EPA 6010D	11-4-22	11-4-22	
Manganese	350	13	EPA 6010D	11-4-22	11-4-22	
Mercury	0.036	0.019	EPA 7471B	11-3-22	11-3-22	
Nickel	34	3.2	EPA 6010D	11-4-22	11-4-22	
Selenium	ND	0.32	EPA 6020B	11-3-22	11-3-22	
Zinc	53	3.2	EPA 6010D	11-4-22	11-4-22	

Client ID:	SED-5-221027					
Laboratory ID:	10-348-02					
Arsenic	ND	12	EPA 6010D	11-4-22	11-4-22	
Cadmium	ND	0.60	EPA 6010D	11-4-22	11-4-22	
Chromium	24	0.60	EPA 6010D	11-4-22	11-4-22	
Copper	9.3	1.2	EPA 6010D	11-4-22	11-4-22	
Iron	17000	1200	EPA 6010D	11-4-22	11-4-22	
Lead	ND	6.0	EPA 6010D	11-4-22	11-4-22	
Manganese	220	12	EPA 6010D	11-4-22	11-4-22	
Mercury	ND	0.018	EPA 7471B	11-3-22	11-3-22	
Nickel	38	3.0	EPA 6010D	11-4-22	11-4-22	
Selenium	ND	0.30	EPA 6020B	11-3-22	11-3-22	
Zinc	32	3.0	EPA 6010D	11-4-22	11-4-22	



Date of Report: November 16, 2022
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TOTAL METALS
EPA 6010D/6020B/7471B

Matrix: Sediment
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SED-6-221027					
Laboratory ID:	10-348-03					
Arsenic	ND	12	EPA 6010D	11-4-22	11-4-22	
Cadmium	ND	0.60	EPA 6010D	11-4-22	11-4-22	
Chromium	28	0.60	EPA 6010D	11-4-22	11-4-22	
Copper	7.8	1.2	EPA 6010D	11-4-22	11-4-22	
Iron	18000	1200	EPA 6010D	11-4-22	11-4-22	
Lead	ND	6.0	EPA 6010D	11-4-22	11-4-22	
Manganese	240	12	EPA 6010D	11-4-22	11-4-22	
Mercury	ND	0.018	EPA 7471B	11-3-22	11-3-22	
Nickel	39	3.0	EPA 6010D	11-4-22	11-4-22	
Selenium	ND	0.30	EPA 6020B	11-3-22	11-3-22	
Zinc	29	3.0	EPA 6010D	11-4-22	11-4-22	

Client ID:	SED-7-221027					
Laboratory ID:	10-348-04					
Arsenic	ND	13	EPA 6010D	11-4-22	11-4-22	
Cadmium	ND	0.65	EPA 6010D	11-4-22	11-4-22	
Chromium	33	0.65	EPA 6010D	11-4-22	11-4-22	
Copper	14	1.3	EPA 6010D	11-4-22	11-4-22	
Iron	24000	1300	EPA 6010D	11-4-22	11-4-22	
Lead	7.5	6.5	EPA 6010D	11-4-22	11-4-22	
Manganese	300	13	EPA 6010D	11-4-22	11-4-22	
Mercury	0.037	0.020	EPA 7471B	11-3-22	11-3-22	
Nickel	39	3.3	EPA 6010D	11-4-22	11-4-22	
Selenium	ND	0.33	EPA 6020B	11-3-22	11-3-22	
Zinc	43	3.3	EPA 6010D	11-4-22	11-4-22	



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TOTAL METALS
EPA 6010D/6020B/7471B

Matrix: Sediment
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SED-8-221027					
Laboratory ID:	10-348-05					
Arsenic	ND	16	EPA 6010D	11-4-22	11-4-22	
Cadmium	ND	0.81	EPA 6010D	11-4-22	11-4-22	
Chromium	29	0.81	EPA 6010D	11-4-22	11-4-22	
Copper	13	1.6	EPA 6010D	11-4-22	11-4-22	
Iron	26000	1600	EPA 6010D	11-4-22	11-4-22	
Lead	ND	8.1	EPA 6010D	11-4-22	11-4-22	
Manganese	490	16	EPA 6010D	11-4-22	11-4-22	
Mercury	ND	0.024	EPA 7471B	11-3-22	11-3-22	
Nickel	43	4.0	EPA 6010D	11-4-22	11-4-22	
Selenium	ND	0.40	EPA 6020B	11-3-22	11-3-22	
Zinc	43	4.0	EPA 6010D	11-4-22	11-4-22	

Client ID:	SED-9-221027					
Laboratory ID:	10-348-06					
Arsenic	ND	14	EPA 6010D	11-4-22	11-4-22	
Cadmium	ND	0.68	EPA 6010D	11-4-22	11-4-22	
Chromium	32	0.68	EPA 6010D	11-4-22	11-4-22	
Copper	10	1.4	EPA 6010D	11-4-22	11-4-22	
Iron	23000	1400	EPA 6010D	11-4-22	11-4-22	
Lead	ND	6.8	EPA 6010D	11-4-22	11-4-22	
Manganese	400	14	EPA 6010D	11-4-22	11-4-22	
Mercury	0.027	0.020	EPA 7471B	11-3-22	11-3-22	
Nickel	45	3.4	EPA 6010D	11-4-22	11-4-22	
Selenium	ND	0.34	EPA 6020B	11-3-22	11-3-22	
Zinc	38	3.4	EPA 6010D	11-4-22	11-4-22	



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TOTAL METALS
EPA 6010D/6020B/7471B

Matrix: Sediment
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SED-10-221027					
Laboratory ID:	10-348-07					
Arsenic	ND	15	EPA 6010D	11-4-22	11-4-22	
Cadmium	ND	0.73	EPA 6010D	11-4-22	11-4-22	
Chromium	34	0.73	EPA 6010D	11-4-22	11-4-22	
Copper	11	1.5	EPA 6010D	11-4-22	11-4-22	
Iron	21000	1500	EPA 6010D	11-4-22	11-4-22	
Lead	ND	7.3	EPA 6010D	11-4-22	11-4-22	
Manganese	490	15	EPA 6010D	11-4-22	11-4-22	
Mercury	ND	0.022	EPA 7471B	11-3-22	11-3-22	
Nickel	47	3.6	EPA 6010D	11-4-22	11-4-22	
Selenium	ND	0.36	EPA 6020B	11-3-22	11-3-22	
Zinc	41	3.6	EPA 6010D	11-4-22	11-4-22	

Client ID:	SED-11-221027					
Laboratory ID:	10-348-08					
Arsenic	ND	16	EPA 6010D	11-4-22	11-4-22	
Cadmium	ND	0.81	EPA 6010D	11-4-22	11-4-22	
Chromium	37	0.81	EPA 6010D	11-4-22	11-4-22	
Copper	12	1.6	EPA 6010D	11-4-22	11-4-22	
Iron	22000	1600	EPA 6010D	11-4-22	11-4-22	
Lead	9.3	8.1	EPA 6010D	11-4-22	11-4-22	
Manganese	530	16	EPA 6010D	11-4-22	11-4-22	
Mercury	0.039	0.024	EPA 7471B	11-3-22	11-3-22	
Nickel	37	4.0	EPA 6010D	11-4-22	11-4-22	
Selenium	ND	0.40	EPA 6020B	11-3-22	11-3-22	
Zinc	42	4.0	EPA 6010D	11-4-22	11-4-22	



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TOTAL METALS
EPA 200.7/200.8/245.1

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SWS-2-20221027					
Laboratory ID:	10-348-09					
Arsenic	230	7.5	EPA 200.8	11-2-22	11-2-22	
Cadmium	ND	4.0	EPA 200.8	11-2-22	11-2-22	
Chromium	140	10	EPA 200.8	11-2-22	11-2-22	
Copper	94	10	EPA 200.8	11-2-22	11-2-22	
Iron	550000	2500	EPA 200.7	11-2-22	11-3-22	
Lead	58	1.0	EPA 200.8	11-2-22	11-2-22	
Manganese	40000	500	EPA 200.7	11-2-22	11-3-22	
Mercury	0.29	0.025	EPA 245.1	11-2-22	11-2-22	
Nickel	180	20	EPA 200.8	11-2-22	11-2-22	
Selenium	ND	5.0	EPA 200.8	11-2-22	11-2-22	
Zinc	280	25	EPA 200.8	11-2-22	11-2-22	

Client ID:	SWS-3-20221027					
Laboratory ID:	10-348-10					
Arsenic	ND	7.5	EPA 200.8	11-2-22	11-2-22	
Cadmium	ND	4.0	EPA 200.8	11-2-22	11-2-22	
Chromium	ND	10	EPA 200.8	11-2-22	11-2-22	
Copper	ND	10	EPA 200.8	11-2-22	11-2-22	
Iron	6700	50	EPA 200.7	11-2-22	11-3-22	
Lead	ND	1.0	EPA 200.8	11-2-22	11-2-22	
Manganese	1600	10	EPA 200.7	11-2-22	11-3-22	
Mercury	ND	0.025	EPA 245.1	11-2-22	11-2-22	
Nickel	ND	20	EPA 200.8	11-2-22	11-2-22	
Selenium	ND	5.0	EPA 200.8	11-2-22	11-2-22	
Zinc	ND	25	EPA 200.8	11-2-22	11-2-22	



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**DIESEL AND HEAVY OIL RANGE ORGANICS
 NWTPH-Dx
 QUALITY CONTROL**

Matrix: Solid
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1107S2					
Diesel Range Organics	ND	25	NWTPH-Dx	11-7-22	11-7-22	
Lube Oil Range Organics	ND	50	NWTPH-Dx	11-7-22	11-7-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	97	50-150				
Laboratory ID:	MB1107S2					
Diesel Range Organics	ND	25	NWTPH-Dx	11-7-22	11-7-22	X2
Lube Oil Range Organics	ND	50	NWTPH-Dx	11-7-22	11-7-22	X2
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	94	50-150				

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	10-348-02							
	ORIG	DUP						
Diesel Range	ND	ND	NA	NA	NA	NA	NA	
Lube Oil Range	ND	ND	NA	NA	NA	NA	NA	
<i>Surrogate:</i>								
<i>o-Terphenyl</i>				81	73	50-150		
Laboratory ID:	10-348-02							
	ORIG	DUP						
Diesel Range	ND	ND	NA	NA	NA	NA	NA	X2
Lube Oil Range	ND	ND	NA	NA	NA	NA	NA	X2
<i>Surrogate:</i>								
<i>o-Terphenyl</i>				82	73	50-150		



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**DIESEL AND HEAVY OIL RANGE ORGANICS
 NWTPH-Dx
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1031W1					
Diesel Range Organics	ND	0.10	NWTPH-Dx	10-31-22	10-31-22	
Lube Oil Range Organics	ND	0.16	NWTPH-Dx	10-31-22	10-31-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	105	50-150				
Laboratory ID:	MB1031W1					
Diesel Range Organics	ND	0.10	NWTPH-Dx	10-31-22	10-31-22	X2
Lube Oil Range Organics	ND	0.16	NWTPH-Dx	10-31-22	10-31-22	X2
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	106	50-150				

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	10-236-01							
	ORIG	DUP						
Diesel Range Organics	0.624	0.610	NA	NA	NA	NA	2	NA
Lube Oil Range Organics	0.471	0.420	NA	NA	NA	NA	11	NA
<i>Surrogate:</i>								
<i>o-Terphenyl</i>				95	96	50-150		
Laboratory ID:	10-236-01							
	ORIG	DUP						
Diesel Range	ND	ND	NA	NA	NA	NA	NA	X2
Lube Oil Range	ND	ND	NA	NA	NA	NA	NA	X2
<i>Surrogate:</i>								
<i>o-Terphenyl</i>				97	99	50-150		



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**SEMIVOLATILE ORGANICS EPA 8270E/SIM
 QUALITY CONTROL**

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Matrix: Solid
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1004S1					
n-Nitrosodimethylamine	ND	0.020	EPA 8270E	11-4-22	11-4-22	
Pyridine	ND	0.20	EPA 8270E	11-4-22	11-4-22	
Phenol	ND	0.020	EPA 8270E	11-4-22	11-4-22	
Aniline	ND	0.10	EPA 8270E	11-4-22	11-4-22	
bis(2-Chloroethyl)ether	ND	0.020	EPA 8270E	11-4-22	11-4-22	
2-Chlorophenol	ND	0.020	EPA 8270E	11-4-22	11-4-22	
1,3-Dichlorobenzene	ND	0.020	EPA 8270E	11-4-22	11-4-22	
1,4-Dichlorobenzene	ND	0.020	EPA 8270E	11-4-22	11-4-22	
Benzyl alcohol	ND	0.020	EPA 8270E	11-4-22	11-4-22	
1,2-Dichlorobenzene	ND	0.020	EPA 8270E	11-4-22	11-4-22	
2-Methylphenol (o-Cresol)	ND	0.020	EPA 8270E	11-4-22	11-4-22	
bis(2-Chloroisopropyl)ether	ND	0.020	EPA 8270E	11-4-22	11-4-22	
(3+4)-Methylphenol (m,p-Cresol)	ND	0.020	EPA 8270E	11-4-22	11-4-22	
n-Nitroso-di-n-propylamine	ND	0.020	EPA 8270E	11-4-22	11-4-22	
Hexachloroethane	ND	0.026	EPA 8270E	11-4-22	11-4-22	
Nitrobenzene	ND	0.020	EPA 8270E	11-4-22	11-4-22	
Isophorone	ND	0.020	EPA 8270E	11-4-22	11-4-22	
2-Nitrophenol	ND	0.026	EPA 8270E	11-4-22	11-4-22	
2,4-Dimethylphenol	ND	0.020	EPA 8270E	11-4-22	11-4-22	
bis(2-Chloroethoxy)methane	ND	0.020	EPA 8270E	11-4-22	11-4-22	
2,4-Dichlorophenol	ND	0.020	EPA 8270E	11-4-22	11-4-22	
1,2,4-Trichlorobenzene	ND	0.020	EPA 8270E	11-4-22	11-4-22	
Naphthalene	ND	0.0040	EPA 8270E/SIM	11-4-22	11-4-22	
4-Chloroaniline	ND	0.10	EPA 8270E	11-4-22	11-4-22	
Hexachlorobutadiene	ND	0.020	EPA 8270E	11-4-22	11-4-22	
4-Chloro-3-methylphenol	ND	0.020	EPA 8270E	11-4-22	11-4-22	
2-Methylnaphthalene	ND	0.0040	EPA 8270E/SIM	11-4-22	11-4-22	
1-Methylnaphthalene	ND	0.0040	EPA 8270E/SIM	11-4-22	11-4-22	
Hexachlorocyclopentadiene	ND	0.11	EPA 8270E	11-4-22	11-4-22	
2,4,6-Trichlorophenol	ND	0.020	EPA 8270E	11-4-22	11-4-22	
2,3-Dichloroaniline	ND	0.020	EPA 8270E	11-4-22	11-4-22	
2,4,5-Trichlorophenol	ND	0.020	EPA 8270E	11-4-22	11-4-22	
2-Chloronaphthalene	ND	0.020	EPA 8270E	11-4-22	11-4-22	
2-Nitroaniline	ND	0.020	EPA 8270E	11-4-22	11-4-22	
1,4-Dinitrobenzene	ND	0.027	EPA 8270E	11-4-22	11-4-22	
Dimethylphthalate	ND	0.020	EPA 8270E	11-4-22	11-4-22	
1,3-Dinitrobenzene	ND	0.020	EPA 8270E	11-4-22	11-4-22	
2,6-Dinitrotoluene	ND	0.020	EPA 8270E	11-4-22	11-4-22	
1,2-Dinitrobenzene	ND	0.020	EPA 8270E	11-4-22	11-4-22	
Acenaphthylene	ND	0.0040	EPA 8270E/SIM	11-4-22	11-4-22	
3-Nitroaniline	ND	0.020	EPA 8270E	11-4-22	11-4-22	



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**SEMIVOLATILE ORGANICS EPA 8270E/SIM
 QUALITY CONTROL**

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1004S1					
2,4-Dinitrophenol	ND	0.61	EPA 8270E	11-4-22	11-4-22	
Acenaphthene	ND	0.0040	EPA 8270E/SIM	11-4-22	11-4-22	
4-Nitrophenol	ND	0.020	EPA 8270E	11-4-22	11-4-22	
2,4-Dinitrotoluene	ND	0.020	EPA 8270E	11-4-22	11-4-22	
Dibenzofuran	ND	0.020	EPA 8270E	11-4-22	11-4-22	
2,3,5,6-Tetrachlorophenol	ND	0.020	EPA 8270E	11-4-22	11-4-22	
2,3,4,6-Tetrachlorophenol	ND	0.020	EPA 8270E	11-4-22	11-4-22	
Diethylphthalate	ND	0.10	EPA 8270E	11-4-22	11-4-22	
4-Chlorophenyl-phenylether	ND	0.020	EPA 8270E	11-4-22	11-4-22	
4-Nitroaniline	ND	0.020	EPA 8270E	11-4-22	11-4-22	
Fluorene	ND	0.0040	EPA 8270E/SIM	11-4-22	11-4-22	
4,6-Dinitro-2-methylphenol	ND	0.61	EPA 8270E	11-4-22	11-4-22	
n-Nitrosodiphenylamine	ND	0.020	EPA 8270E	11-4-22	11-4-22	
1,2-Diphenylhydrazine	ND	0.020	EPA 8270E	11-4-22	11-4-22	
4-Bromophenyl-phenylether	ND	0.020	EPA 8270E	11-4-22	11-4-22	
Hexachlorobenzene	ND	0.020	EPA 8270E	11-4-22	11-4-22	
Pentachlorophenol	ND	0.10	EPA 8270E	11-4-22	11-4-22	
Phenanthrene	ND	0.0040	EPA 8270E/SIM	11-4-22	11-4-22	
Anthracene	ND	0.0040	EPA 8270E/SIM	11-4-22	11-4-22	
Carbazole	ND	0.020	EPA 8270E	11-4-22	11-4-22	
Di-n-butylphthalate	ND	0.10	EPA 8270E	11-4-22	11-4-22	
Fluoranthene	ND	0.0040	EPA 8270E/SIM	11-4-22	11-4-22	
Pyrene	ND	0.0040	EPA 8270E/SIM	11-4-22	11-4-22	
Butylbenzylphthalate	ND	0.10	EPA 8270E	11-4-22	11-4-22	
bis-2-Ethylhexyladipate	ND	0.10	EPA 8270E	11-4-22	11-4-22	
3,3'-Dichlorobenzidine	ND	0.10	EPA 8270E	11-4-22	11-4-22	
Benzo[a]anthracene	ND	0.0040	EPA 8270E/SIM	11-4-22	11-4-22	
Chrysene	ND	0.0040	EPA 8270E/SIM	11-4-22	11-4-22	
bis(2-Ethylhexyl)phthalate	ND	0.10	EPA 8270E	11-4-22	11-4-22	
Di-n-octylphthalate	ND	0.10	EPA 8270E	11-4-22	11-4-22	
Benzo[b]fluoranthene	ND	0.0040	EPA 8270E/SIM	11-4-22	11-4-22	
Benzo(j,k)fluoranthene	ND	0.0040	EPA 8270E/SIM	11-4-22	11-4-22	
Benzo[a]pyrene	ND	0.0040	EPA 8270E/SIM	11-4-22	11-4-22	
Indeno[1,2,3-cd]pyrene	ND	0.0040	EPA 8270E/SIM	11-4-22	11-4-22	
Dibenz[a,h]anthracene	ND	0.0040	EPA 8270E/SIM	11-4-22	11-4-22	
Benzo[g,h,i]perylene	ND	0.0040	EPA 8270E/SIM	11-4-22	11-4-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
2-Fluorophenol	61	22 - 111				
Phenol-d6	70	31 - 117				
Nitrobenzene-d5	66	29 - 111				
2-Fluorobiphenyl	64	39 - 109				
2,4,6-Tribromophenol	72	36 - 127				
Terphenyl-d14	63	39 - 116				



Date of Report: November 16, 2022
 Samples Submitted: October 28, 2022
 Laboratory Reference: 2210-348
 Project: 6694-002-05 T700

**SEMIVOLATILE ORGANICS EPA 8270E/SIM
 QUALITY CONTROL**

Matrix: Solid
 Units: mg/Kg

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB1004S1									
	SB	SBD	SB	SBD	SB	SBD				
Phenol	1.10	0.911	1.33	1.33	83	68	42 - 109	19	24	
2-Chlorophenol	1.07	0.860	1.33	1.33	80	65	47 - 105	22	26	
1,4-Dichlorobenzene	0.513	0.416	0.667	0.667	77	62	42 - 102	21	31	
n-Nitroso-di-n-propylamine	0.516	0.426	0.667	0.667	77	64	45 - 111	19	24	
1,2,4-Trichlorobenzene	0.527	0.449	0.667	0.667	79	67	47 - 106	16	26	
4-Chloro-3-methylphenol	1.13	0.987	1.33	1.33	85	74	57 - 111	14	20	
Acenaphthene	0.562	0.497	0.667	0.667	84	75	48 - 101	12	20	
4-Nitrophenol	0.925	0.794	1.33	1.33	70	60	53 - 138	15	20	
2,4-Dinitrotoluene	0.549	0.462	0.667	0.667	82	69	53 - 111	17	20	
Pentachlorophenol	1.28	1.06	1.33	1.33	96	80	38 - 134	19	24	
Pyrene	0.530	0.453	0.667	0.667	79	68	53 - 113	16	20	
<i>Surrogate:</i>										
2-Fluorophenol					65	55	22 - 111			
Phenol-d6					76	56	31 - 117			
Nitrobenzene-d5					73	61	29 - 111			
2-Fluorobiphenyl					67	62	39 - 109			
2,4,6-Tribromophenol					82	72	36 - 127			
Terphenyl-d14					66	59	39 - 116			



Date of Report: November 16, 2022
 Samples Submitted: October 28, 2022
 Laboratory Reference: 2210-348
 Project: 6694-002-05 T700

**SEMIVOLATILE ORGANICS EPA 8270E/SIM
 QUALITY CONTROL**

page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1101W1					
n-Nitrosodimethylamine	ND	1.0	EPA 8270E	11-1-22	11-2-22	
Pyridine	ND	1.0	EPA 8270E	11-1-22	11-2-22	
Phenol	ND	1.0	EPA 8270E	11-1-22	11-2-22	
Aniline	ND	5.0	EPA 8270E	11-1-22	11-2-22	
bis(2-Chloroethyl)ether	ND	1.0	EPA 8270E	11-1-22	11-2-22	
2-Chlorophenol	ND	1.0	EPA 8270E	11-1-22	11-2-22	
1,3-Dichlorobenzene	ND	1.0	EPA 8270E	11-1-22	11-2-22	
1,4-Dichlorobenzene	ND	1.0	EPA 8270E	11-1-22	11-2-22	
Benzyl alcohol	ND	1.0	EPA 8270E	11-1-22	11-2-22	
1,2-Dichlorobenzene	ND	1.0	EPA 8270E	11-1-22	11-2-22	
2-Methylphenol (o-Cresol)	ND	1.0	EPA 8270E	11-1-22	11-2-22	
bis(2-Chloroisopropyl)ether	ND	1.0	EPA 8270E	11-1-22	11-2-22	
(3+4)-Methylphenol (m,p-Cresol)	ND	1.0	EPA 8270E	11-1-22	11-2-22	
n-Nitroso-di-n-propylamine	ND	1.0	EPA 8270E	11-1-22	11-2-22	
Hexachloroethane	ND	1.0	EPA 8270E	11-1-22	11-2-22	
Nitrobenzene	ND	1.0	EPA 8270E	11-1-22	11-2-22	
Isophorone	ND	1.0	EPA 8270E	11-1-22	11-2-22	
2-Nitrophenol	ND	1.0	EPA 8270E	11-1-22	11-2-22	
2,4-Dimethylphenol	ND	1.0	EPA 8270E	11-1-22	11-2-22	
bis(2-Chloroethoxy)methane	ND	1.0	EPA 8270E	11-1-22	11-2-22	
2,4-Dichlorophenol	ND	1.0	EPA 8270E	11-1-22	11-2-22	
1,2,4-Trichlorobenzene	ND	1.0	EPA 8270E	11-1-22	11-2-22	
Naphthalene	ND	0.10	EPA 8270E/SIM	11-1-22	11-1-22	
4-Chloroaniline	ND	1.0	EPA 8270E	11-1-22	11-2-22	
Hexachlorobutadiene	ND	1.0	EPA 8270E	11-1-22	11-2-22	
4-Chloro-3-methylphenol	ND	1.0	EPA 8270E	11-1-22	11-2-22	
2-Methylnaphthalene	ND	0.10	EPA 8270E/SIM	11-1-22	11-1-22	
1-Methylnaphthalene	ND	0.10	EPA 8270E/SIM	11-1-22	11-1-22	
Hexachlorocyclopentadiene	ND	1.0	EPA 8270E	11-1-22	11-2-22	
2,4,6-Trichlorophenol	ND	1.0	EPA 8270E	11-1-22	11-2-22	
2,3-Dichloroaniline	ND	1.0	EPA 8270E	11-1-22	11-2-22	
2,4,5-Trichlorophenol	ND	1.0	EPA 8270E	11-1-22	11-2-22	
2-Chloronaphthalene	ND	1.0	EPA 8270E	11-1-22	11-2-22	
2-Nitroaniline	ND	1.0	EPA 8270E	11-1-22	11-2-22	
1,4-Dinitrobenzene	ND	1.0	EPA 8270E	11-1-22	11-2-22	
Dimethylphthalate	ND	5.0	EPA 8270E	11-1-22	11-2-22	
1,3-Dinitrobenzene	ND	1.0	EPA 8270E	11-1-22	11-2-22	
2,6-Dinitrotoluene	ND	1.0	EPA 8270E	11-1-22	11-2-22	
1,2-Dinitrobenzene	ND	1.0	EPA 8270E	11-1-22	11-2-22	
Acenaphthylene	ND	0.10	EPA 8270E/SIM	11-1-22	11-1-22	
3-Nitroaniline	ND	1.0	EPA 8270E	11-1-22	11-2-22	



Date of Report: November 16, 2022
 Samples Submitted: October 28, 2022
 Laboratory Reference: 2210-348
 Project: 6694-002-05 T700

**SEMIVOLATILE ORGANICS EPA 8270E/SIM
 QUALITY CONTROL**

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1101W1					
2,4-Dinitrophenol	ND	5.0	EPA 8270E	11-1-22	11-2-22	
Acenaphthene	ND	0.10	EPA 8270E/SIM	11-1-22	11-1-22	
4-Nitrophenol	ND	5.0	EPA 8270E	11-1-22	11-2-22	
2,4-Dinitrotoluene	ND	1.0	EPA 8270E	11-1-22	11-2-22	
Dibenzofuran	ND	1.0	EPA 8270E	11-1-22	11-2-22	
2,3,5,6-Tetrachlorophenol	ND	1.0	EPA 8270E	11-1-22	11-2-22	
2,3,4,6-Tetrachlorophenol	ND	1.0	EPA 8270E	11-1-22	11-2-22	
Diethylphthalate	ND	1.0	EPA 8270E	11-1-22	11-2-22	
4-Chlorophenyl-phenylether	ND	1.0	EPA 8270E	11-1-22	11-2-22	
4-Nitroaniline	ND	1.0	EPA 8270E	11-1-22	11-2-22	
Fluorene	ND	0.10	EPA 8270E/SIM	11-1-22	11-1-22	
4,6-Dinitro-2-methylphenol	ND	5.0	EPA 8270E	11-1-22	11-2-22	
n-Nitrosodiphenylamine	ND	1.0	EPA 8270E	11-1-22	11-2-22	
1,2-Diphenylhydrazine	ND	1.0	EPA 8270E	11-1-22	11-2-22	
4-Bromophenyl-phenylether	ND	1.0	EPA 8270E	11-1-22	11-2-22	
Hexachlorobenzene	ND	1.0	EPA 8270E	11-1-22	11-2-22	
Pentachlorophenol	ND	5.0	EPA 8270E	11-1-22	11-2-22	
Phenanthrene	ND	0.10	EPA 8270E/SIM	11-1-22	11-1-22	
Anthracene	ND	0.10	EPA 8270E/SIM	11-1-22	11-1-22	
Carbazole	ND	1.0	EPA 8270E	11-1-22	11-2-22	
Di-n-butylphthalate	ND	5.0	EPA 8270E	11-1-22	11-2-22	
Fluoranthene	ND	0.10	EPA 8270E/SIM	11-1-22	11-1-22	
Pyrene	ND	0.10	EPA 8270E/SIM	11-1-22	11-1-22	
Butylbenzylphthalate	ND	1.0	EPA 8270E	11-1-22	11-2-22	
bis-2-Ethylhexyladipate	ND	5.0	EPA 8270E	11-1-22	11-2-22	
3,3'-Dichlorobenzidine	ND	5.0	EPA 8270E	11-1-22	11-2-22	
Benzo[a]anthracene	ND	0.010	EPA 8270E/SIM	11-1-22	11-1-22	
Chrysene	ND	0.010	EPA 8270E/SIM	11-1-22	11-1-22	
bis(2-Ethylhexyl)phthalate	ND	5.0	EPA 8270E	11-1-22	11-2-22	
Di-n-octylphthalate	ND	1.0	EPA 8270E	11-1-22	11-2-22	
Benzo[b]fluoranthene	ND	0.010	EPA 8270E/SIM	11-1-22	11-1-22	
Benzo(j,k)fluoranthene	ND	0.010	EPA 8270E/SIM	11-1-22	11-1-22	
Benzo[a]pyrene	ND	0.010	EPA 8270E/SIM	11-1-22	11-1-22	
Indeno[1,2,3-cd]pyrene	ND	0.010	EPA 8270E/SIM	11-1-22	11-1-22	
Dibenz[a,h]anthracene	ND	0.010	EPA 8270E/SIM	11-1-22	11-1-22	
Benzo[g,h,i]perylene	ND	0.010	EPA 8270E/SIM	11-1-22	11-1-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
2-Fluorophenol	44	10 - 81				
Phenol-d6	34	10 - 86				
Nitrobenzene-d5	69	27 - 105				
2-Fluorobiphenyl	60	33 - 100				
2,4,6-Tribromophenol	87	25 - 124				
Terphenyl-d14	70	40 - 116				



Date of Report: November 16, 2022
 Samples Submitted: October 28, 2022
 Laboratory Reference: 2210-348
 Project: 6694-002-05 T700

**SEMIVOLATILE ORGANICS EPA 8270E/SIM
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB1101W1									
	SB	SBD	SB	SBD	SB	SBD				
Phenol	15.0	14.3	40.0	40.0	38	36	16 - 53	5	33	
2-Chlorophenol	28.8	28.0	40.0	40.0	72	70	42 - 90	3	34	
1,4-Dichlorobenzene	10.4	9.81	20.0	20.0	52	49	32 - 83	6	34	
n-Nitroso-di-n-propylamine	14.1	13.9	20.0	20.0	71	70	41 - 99	1	32	
1,2,4-Trichlorobenzene	12.0	10.9	20.0	20.0	60	55	35 - 91	10	35	
4-Chloro-3-methylphenol	34.7	32.3	40.0	40.0	87	81	55 - 98	7	22	
Acenaphthene	15.1	14.9	20.0	20.0	76	75	40 - 96	1	23	
4-Nitrophenol	16.7	16.1	40.0	40.0	42	40	20 - 77	4	28	
2,4-Dinitrotoluene	17.1	15.7	20.0	20.0	86	79	50 - 102	9	22	
Pentachlorophenol	43.3	39.0	40.0	40.0	108	98	46 - 129	10	26	
Pyrene	15.4	14.6	20.0	20.0	77	73	52 - 105	5	20	
<i>Surrogate:</i>										
2-Fluorophenol					45	43	10 - 81			
Phenol-d6					36	32	10 - 86			
Nitrobenzene-d5					69	67	27 - 105			
2-Fluorobiphenyl					61	61	33 - 100			
2,4,6-Tribromophenol					85	81	25 - 124			
Terphenyl-d14					69	64	40 - 116			



Date of Report: November 16, 2022
 Samples Submitted: October 28, 2022
 Laboratory Reference: 2210-348
 Project: 6694-002-05 T700

**ORGANOCHLORINE
 PESTICIDES EPA 8081B
 QUALITY CONTROL**

Matrix: Solid
 Units: ug/Kg (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1104S1					
alpha-BHC	ND	5.0	EPA 8081B	11-4-22	11-4-22	
gamma-BHC	ND	5.0	EPA 8081B	11-4-22	11-4-22	
beta-BHC	ND	5.0	EPA 8081B	11-4-22	11-4-22	
delta-BHC	ND	5.0	EPA 8081B	11-4-22	11-4-22	
Heptachlor	ND	5.0	EPA 8081B	11-4-22	11-4-22	
Aldrin	ND	5.0	EPA 8081B	11-4-22	11-4-22	
Heptachlor epoxide	ND	5.0	EPA 8081B	11-4-22	11-4-22	
gamma-Chlordane	ND	10	EPA 8081B	11-4-22	11-4-22	
alpha-Chlordane	ND	10	EPA 8081B	11-4-22	11-4-22	
4,4'-DDE	ND	10	EPA 8081B	11-4-22	11-4-22	
Endosulfan I	ND	5.0	EPA 8081B	11-4-22	11-4-22	
Dieldrin	ND	10	EPA 8081B	11-4-22	11-4-22	
Endrin	ND	10	EPA 8081B	11-4-22	11-4-22	
4,4'-DDD	ND	10	EPA 8081B	11-4-22	11-4-22	
Endosulfan II	ND	10	EPA 8081B	11-4-22	11-4-22	
4,4'-DDT	ND	10	EPA 8081B	11-4-22	11-4-22	
Endrin aldehyde	ND	10	EPA 8081B	11-4-22	11-4-22	
Methoxychlor	ND	10	EPA 8081B	11-4-22	11-4-22	
Endosulfan sulfate	ND	10	EPA 8081B	11-4-22	11-4-22	
Endrin ketone	ND	10	EPA 8081B	11-4-22	11-4-22	
Toxaphene	ND	50	EPA 8081B	11-4-22	11-4-22	
Tech Chlordane	ND	50	EPA 8081B	11-4-22	11-4-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control limits</i>				
<i>Tetrachloro-m-xylene</i>	55	35-110				
<i>Decachlorobiphenyl</i>	78	32-122				



Date of Report: November 16, 2022
 Samples Submitted: October 28, 2022
 Laboratory Reference: 2210-348
 Project: 6694-002-05 T700

**ORGANOCHLORINE
 PESTICIDES EPA 8081B
 QUALITY CONTROL**

Matrix: Solid
 Units: ug/Kg (ppb)

Analyte	Result		Spike Level		Source	Percent		Recovery	RPD	RPD	Flags
	SB	SBD	SB	SBD	Result	Recovery	Limits	RPD	Limit		
SPIKE BLANKS											
Laboratory ID:	SB1104S1										
	SB	SBD	SB	SBD		SB	SBD				
alpha-BHC	89.4	78.2	100	100	N/A	89	78	48-113	13	15	
gamma-BHC	86.7	76.3	100	100	N/A	87	76	51-112	13	15	
beta-BHC	76.2	67.6	100	100	N/A	76	68	52-108	12	15	
delta-BHC	102	89.6	100	100	N/A	102	90	51-110	13	15	
Heptachlor	86.6	76.9	100	100	N/A	87	77	49-115	12	15	
Aldrin	87.3	76.8	100	100	N/A	87	77	52-112	13	15	
Heptachlor epoxide	81.3	72.0	100	100	N/A	81	72	50-116	12	15	
gamma-Chlordane	80.6	71.5	100	100	N/A	81	72	51-110	12	15	
alpha-Chlordane	80.5	71.3	100	100	N/A	81	71	51-110	12	15	
4,4'-DDE	91.4	80.7	100	100	N/A	91	81	52-125	12	15	
Endosulfan I	82.8	73.1	100	100	N/A	83	73	50-111	12	15	
Dieldrin	86.6	76.7	100	100	N/A	87	77	55-118	12	15	
Endrin	80.7	71.5	100	100	N/A	81	72	49-122	12	15	
4,4'-DDD	88.4	79.1	100	100	N/A	88	79	51-120	11	15	
Endosulfan II	81.5	72.6	100	100	N/A	82	73	47-119	12	15	
4,4'-DDT	77.3	71.9	100	100	N/A	77	72	56-125	7	15	
Endrin aldehyde	77.1	69.4	100	100	N/A	77	69	53-112	11	15	
Methoxychlor	78.9	72.6	100	100	N/A	79	73	49-132	8	15	
Endosulfan sulfate	81.6	73.4	100	100	N/A	82	73	52-111	11	15	
Endrin ketone	78.8	71.2	100	100	N/A	79	71	49-110	10	15	
<i>Surrogate:</i>											
<i>Tetrachloro-m-xylene</i>						69	66	35-110			
<i>Decachlorobiphenyl</i>						87	85	32-122			



Date of Report: November 16, 2022
 Samples Submitted: October 28, 2022
 Laboratory Reference: 2210-348
 Project: 6694-002-05 T700

**ORGANOCHLORINE
 PESTICIDES EPA 8081B
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1101W1					
alpha-BHC	ND	0.0050	EPA 8081B	11-1-22	11-1-22	
gamma-BHC	ND	0.0050	EPA 8081B	11-1-22	11-1-22	
beta-BHC	ND	0.0050	EPA 8081B	11-1-22	11-1-22	
delta-BHC	ND	0.0050	EPA 8081B	11-1-22	11-1-22	
Heptachlor	ND	0.0050	EPA 8081B	11-1-22	11-1-22	
Aldrin	ND	0.0020	EPA 8081B	11-1-22	11-1-22	
Heptachlor epoxide	ND	0.0030	EPA 8081B	11-1-22	11-1-22	
gamma-Chlordane	ND	0.0050	EPA 8081B	11-1-22	11-1-22	
alpha-Chlordane	ND	0.0050	EPA 8081B	11-1-22	11-1-22	
4,4'-DDE	ND	0.0050	EPA 8081B	11-1-22	11-1-22	
Endosulfan I	ND	0.0050	EPA 8081B	11-1-22	11-1-22	
Dieldrin	ND	0.0050	EPA 8081B	11-1-22	11-1-22	
Endrin	ND	0.0050	EPA 8081B	11-1-22	11-1-22	
4,4'-DDD	ND	0.0050	EPA 8081B	11-1-22	11-1-22	
Endosulfan II	ND	0.0050	EPA 8081B	11-1-22	11-1-22	
4,4'-DDT	ND	0.0050	EPA 8081B	11-1-22	11-1-22	
Endrin aldehyde	ND	0.0050	EPA 8081B	11-1-22	11-1-22	
Methoxychlor	ND	0.010	EPA 8081B	11-1-22	11-1-22	
Endosulfan sulfate	ND	0.0050	EPA 8081B	11-1-22	11-1-22	
Endrin ketone	ND	0.020	EPA 8081B	11-1-22	11-1-22	
Toxaphene	ND	0.050	EPA 8081B	11-1-22	11-1-22	
Tech Chlordane	ND	0.050	EPA 8081B	11-1-22	11-1-22	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control limits</i>				
<i>Tetrachloro-m-xylene</i>	<i>72</i>	<i>21-110</i>				
<i>Decachlorobiphenyl</i>	<i>103</i>	<i>42-113</i>				



Date of Report: November 16, 2022
 Samples Submitted: October 28, 2022
 Laboratory Reference: 2210-348
 Project: 6694-002-05 T700

**ORGANOCHLORINE
 PESTICIDES EPA 8081B
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result		Spike Level		Source	Percent		Recovery	RPD	RPD	Flags
	SB	SBD	SB	SBD	Result	Recovery	Limits	RPD	Limit		
SPIKE BLANKS											
Laboratory ID:	SB1101W2										
	SB	SBD	SB	SBD		SB	SBD				
alpha-BHC	0.0874	0.0795	0.100	0.100	N/A	87	80	50-113	9	19	
gamma-BHC	0.0858	0.0787	0.100	0.100	N/A	86	79	50-114	9	15	
beta-BHC	0.0755	0.0685	0.100	0.100	N/A	76	69	45-110	10	15	
delta-BHC	0.103	0.0925	0.100	0.100	N/A	103	93	40-113	11	15	
Heptachlor	0.0846	0.0717	0.100	0.100	N/A	85	72	41-107	17	16	L
Aldrin	0.0834	0.0669	0.100	0.100	N/A	83	67	39-105	22	15	L
Heptachlor epoxide	0.0816	0.0728	0.100	0.100	N/A	82	73	53-106	11	15	
gamma-Chlordane	0.0804	0.0699	0.100	0.100	N/A	80	70	46-110	14	15	
alpha-Chlordane	0.0800	0.0700	0.100	0.100	N/A	80	70	46-110	13	15	
4,4'-DDE	0.0919	0.0765	0.100	0.100	N/A	92	77	39-129	18	15	L
Endosulfan I	0.0843	0.0750	0.100	0.100	N/A	84	75	51-109	12	15	
Dieldrin	0.0888	0.0778	0.100	0.100	N/A	89	78	55-112	13	15	
Endrin	0.0853	0.0768	0.100	0.100	N/A	85	77	54-119	10	16	
4,4'-DDD	0.0921	0.0828	0.100	0.100	N/A	92	83	52-142	11	15	
Endosulfan II	0.0836	0.0753	0.100	0.100	N/A	84	75	49-115	10	15	
4,4'-DDT	0.0854	0.0757	0.100	0.100	N/A	85	76	52-136	12	15	
Endrin aldehyde	0.0991	0.0873	0.100	0.100	N/A	99	87	39-128	13	15	
Methoxychlor	0.0935	0.0812	0.100	0.100	N/A	94	81	56-156	14	19	
Endosulfan sulfate	0.0860	0.0785	0.100	0.100	N/A	86	79	44-120	9	15	
Endrin ketone	0.0861	0.0790	0.100	0.100	N/A	86	79	45-122	9	15	
<i>Surrogate:</i>											
<i>Tetrachloro-m-xylene</i>						65	40	21-110			
<i>Decachlorobiphenyl</i>						99	89	42-113			



Date of Report: November 16, 2022
 Samples Submitted: October 28, 2022
 Laboratory Reference: 2210-348
 Project: 6694-002-05 T700

TOTAL METALS
EPA 6010D/6020B/7471B
QUALITY CONTROL

Matrix: Solid
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1104SHL1					
Arsenic	ND	10	EPA 6010D	11-4-22	11-4-22	
Cadmium	ND	0.50	EPA 6010D	11-4-22	11-4-22	
Chromium	ND	0.50	EPA 6010D	11-4-22	11-4-22	
Copper	ND	1.0	EPA 6010D	11-4-22	11-4-22	
Iron	ND	50	EPA 6010D	11-4-22	11-4-22	
Lead	ND	5.0	EPA 6010D	11-4-22	11-4-22	
Manganese	ND	0.50	EPA 6010D	11-4-22	11-4-22	
Nickel	ND	2.5	EPA 6010D	11-4-22	11-4-22	
Zinc	ND	2.5	EPA 6010D	11-4-22	11-4-22	
Laboratory ID:	MB1104SM1					
Selenium	ND	0.25	EPA 6020B	11-4-22	11-4-22	
Laboratory ID:	MB1103S2					
Mercury	ND	0.015	EPA 7471B	11-3-22	11-3-22	



Date of Report: November 16, 2022
 Samples Submitted: October 28, 2022
 Laboratory Reference: 2210-348
 Project: 6694-002-05 T700

TOTAL METALS
EPA 6010D/6020B/7471B
QUALITY CONTROL

Matrix: Solid
 Units: mg/Kg (ppm)

Analyte	Result		Spike Level		Source	Percent	Recovery	RPD		Flags
					Result	Recovery	Limits	RPD	Limit	
DUPLICATE										
Laboratory ID:	10-348-02									
	ORIG	DUP								
Arsenic	ND	ND	NA	NA		NA	NA	NA	20	
Cadmium	ND	ND	NA	NA		NA	NA	NA	20	
Chromium	19.8	21.2	NA	NA		NA	NA	7	20	
Copper	7.70	8.45	NA	NA		NA	NA	9	20	
Iron	14100	14100	NA	NA		NA	NA	0	20	
Lead	ND	ND	NA	NA		NA	NA	NA	20	
Manganese	182	181	NA	NA		NA	NA	1	20	
Nickel	31.9	33.1	NA	NA		NA	NA	4	20	
Zinc	26.4	27.7	NA	NA		NA	NA	5	20	
Laboratory ID:	11-028-01									
Selenium	0.955	0.915	NA	NA		NA	NA	4	20	
Laboratory ID:	10-348-02									
Mercury	ND	ND	NA	NA		NA	NA	NA	20	
MATRIX SPIKES										
Laboratory ID:	10-348-02									
	MS	MSD	MS	MSD		MS	MSD			
Arsenic	96.4	96.8	100	100	ND	96	97	75-125	0	20
Cadmium	46.8	46.5	50.0	50.0	ND	94	93	75-125	1	20
Chromium	118	117	100	100	19.8	98	98	75-125	1	20
Copper	56.4	56.7	50.0	50.0	7.70	97	98	75-125	1	20
Iron	14400	15900	1000	1000	14100	32	184	75-125	10	20
Lead	244	241	250	250	ND	98	96	75-125	1	20
Manganese	192	216	25.0	25.0	182	40	136	75-125	12	20
Nickel	126	127	100	100	31.9	94	95	75-125	1	20
Zinc	121	122	100	100	26.4	95	96	75-125	1	20
Laboratory ID:	11-028-01									
Selenium	83.3	85.8	100	100	0.955	82	85	75-125	3	20
Laboratory ID:	10-348-02									
Mercury	0.480	0.482	0.500	0.500	0.00927	94	95	80-120	0	20



Date of Report: November 16, 2022
 Samples Submitted: October 28, 2022
 Laboratory Reference: 2210-348
 Project: 6694-002-05 T700

TOTAL METALS
EPA 200.7/200.8/245.1
QUALITY CONTROL

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1102WH2					
Iron	ND	50	EPA 200.7	11-2-22	11-3-22	
Manganese	ND	10	EPA 200.7	11-2-22	11-3-22	
Laboratory ID:	MB1102WH1					
Arsenic	ND	3.0	EPA 200.8	11-2-22	11-2-22	
Cadmium	ND	4.0	EPA 200.8	11-2-22	11-2-22	
Chromium	ND	10	EPA 200.8	11-2-22	11-2-22	
Copper	ND	10	EPA 200.8	11-2-22	11-2-22	
Lead	ND	1.0	EPA 200.8	11-2-22	11-2-22	
Nickel	ND	20	EPA 200.8	11-2-22	11-2-22	
Selenium	ND	5.0	EPA 200.8	11-2-22	11-2-22	
Zinc	ND	25	EPA 200.8	11-2-22	11-2-22	
Laboratory ID:	MB1102W1					
Mercury	ND	0.025	EPA 245.1	11-2-22	11-2-22	



Date of Report: November 16, 2022
 Samples Submitted: October 28, 2022
 Laboratory Reference: 2210-348
 Project: 6694-002-05 T700

TOTAL METALS
EPA 200.7/200.8/245.1
QUALITY CONTROL

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result		Spike Level		Source	Percent	Recovery	RPD		Flags
					Result	Recovery	Limits	RPD	Limit	
DUPLICATE										
Laboratory ID:	10-348-10									
	ORIG	DUP								
Iron	6730	6840	NA	NA		NA	NA	2	20	
Manganese	1590	1620	NA	NA		NA	NA	2	20	
Laboratory ID:	10-199-04									
Arsenic	ND	ND	NA	NA		NA	NA	NA	20	
Cadmium	ND	ND	NA	NA		NA	NA	NA	20	
Chromium	ND	ND	NA	NA		NA	NA	NA	20	
Copper	ND	ND	NA	NA		NA	NA	NA	20	
Lead	ND	ND	NA	NA		NA	NA	NA	20	
Nickel	ND	ND	NA	NA		NA	NA	NA	20	
Selenium	ND	ND	NA	NA		NA	NA	NA	20	
Zinc	ND	ND	NA	NA		NA	NA	NA	20	
Laboratory ID:	10-348-10									
Mercury	ND	ND	NA	NA		NA	NA	NA	20	
MATRIX SPIKES										
Laboratory ID:	10-348-10									
	MS	MSD	MS	MSD		MS	MSD			
Iron	27200	28200	20000	20000	6730	102	107	75-125	4	20
Manganese	2020	2030	500	500	1590	86	88	75-125	0	20
Laboratory ID:	10-199-04									
Arsenic	102	100	100	100	ND	102	100	75-125	2	20
Cadmium	96.2	92.6	100	100	ND	96	93	75-125	4	20
Chromium	100	96.6	100	100	ND	100	97	75-125	4	20
Copper	96.8	93.2	100	100	ND	97	93	75-125	4	20
Lead	96.8	93.6	100	100	ND	97	94	75-125	3	20
Nickel	98.0	94.2	100	100	ND	98	94	75-125	4	20
Selenium	93.6	91.4	100	100	ND	94	91	75-125	2	20
Zinc	99.0	97.0	100	100	ND	99	97	75-125	2	20
Laboratory ID:	10-348-10									
Mercury	5.93	5.83	6.25	6.25	ND	95	93	75-125	2	20



Date of Report: November 16, 2022
 Samples Submitted: October 28, 2022
 Laboratory Reference: 2210-348
 Project: 6694-002-05 T700

**TOTAL SOLIDS
 SM 2540G**

Matrix: Sediment
 Units: % Solids

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SED-4-221027					
Laboratory ID:	10-348-01					
Total Solids	78	0.50	SM 2540G	11-4-22	11-7-22	
Client ID:	SED-5-221027					
Laboratory ID:	10-348-02					
Total Solids	83	0.50	SM 2540G	11-4-22	11-7-22	
Client ID:	SED-6-221027					
Laboratory ID:	10-348-03					
Total Solids	83	0.50	SM 2540G	11-4-22	11-7-22	
Client ID:	SED-7-221027					
Laboratory ID:	10-348-04					
Total Solids	76	0.50	SM 2540G	11-4-22	11-7-22	
Client ID:	SED-8-221027					
Laboratory ID:	10-348-05					
Total Solids	62	0.50	SM 2540G	11-4-22	11-7-22	
Client ID:	SED-9-221027					
Laboratory ID:	10-348-06					
Total Solids	74	0.50	SM 2540G	11-4-22	11-7-22	
Client ID:	SED-10-221027					
Laboratory ID:	10-348-07					
Total Solids	69	0.50	SM 2540G	11-4-22	11-7-22	



Date of Report: November 16, 2022
 Samples Submitted: October 28, 2022
 Laboratory Reference: 2210-348
 Project: 6694-002-05 T700

**TOTAL SOLIDS
 SM 2540G**

Matrix: Sediment
 Units: % Solids

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	SED-11-221027					
Laboratory ID:	10-348-08					
Total Solids	62	0.50	SM 2540G	11-4-22	11-7-22	



Date of Report: November 16, 2022
 Samples Submitted: October 28, 2022
 Laboratory Reference: 2210-348
 Project: 6694-002-05 T700

**TOTAL SOLIDS
 SM 2540G
 QUALITY CONTROL**

Matrix: Sediment
 Units: % Solids

Analyte	Result		Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE									
Laboratory ID:	10-348-02								
	ORIG	DUP							
Total Solids	83.1	83.4	NA	NA	NA	NA	0	20	





Data Qualifiers and Abbreviations

- A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.
 - B - The analyte indicated was also found in the blank sample.
 - C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.
 - E - The value reported exceeds the quantitation range and is an estimate.
 - F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.
 - H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.
 - I - Compound recovery is outside of the control limits.
 - J - The value reported was below the practical quantitation limit. The value is an estimate.
 - K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.
 - L - The RPD is outside of the control limits.
 - M - Hydrocarbons in the gasoline range are impacting the diesel range result.
 - M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.
 - N - Hydrocarbons in the lube oil range are impacting the diesel range result.
 - N1 - Hydrocarbons in diesel range are impacting lube oil range results.
 - O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.
 - P - The RPD of the detected concentrations between the two columns is greater than 40.
 - Q - Surrogate recovery is outside of the control limits.
 - S - Surrogate recovery data is not available due to the necessary dilution of the sample.
 - T - The sample chromatogram is not similar to a typical _____.
 - U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
 - U1 - The practical quantitation limit is elevated due to interferences present in the sample.
 - V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.
 - W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.
 - X - Sample extract treated with a mercury cleanup procedure.
 - X1 - Sample extract treated with a sulfuric acid/silica gel cleanup procedure.
 - Y - The calibration verification for this analyte exceeded the 20% drift specified in methods 8260 & 8270, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.
 - Z -
- ND - Not Detected at PQL
 PQL - Practical Quantitation Limit
 RPD - Relative Percent Difference





OnSite Environmental Inc

David Baumeister
14648 NE 95th Street
Redmond, WA 98052

RE: Go East

Work Order Number: 2211023

November 16, 2022

Attention David Baumeister:

Fremont Analytical, Inc. received 10 sample(s) on 11/1/2022 for the analyses presented in the following report.

Herbicides by EPA Method 8151A (GC/MS)

Sample Moisture (Percent Moisture)

This report consists of the following:

- Case Narrative
- Analytical Results
- Applicable Quality Control Summary Reports
- Chain of Custody

All analyses were performed consistent with the Quality Assurance program of Fremont Analytical, Inc. Please contact the laboratory if you should have any questions about the results.

Thank you for using Fremont Analytical.

Sincerely,

Brianna Barnes
Project Manager



CLIENT: OnSite Environmental Inc
Project: Go East
Work Order: 2211023

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received
2211023-001	Sed-4-221027	10/27/2022 12:30 PM	11/01/2022 1:27 PM
2211023-002	Sed-5-221027	10/27/2022 12:15 PM	11/01/2022 1:27 PM
2211023-003	Sed-6-221027	10/27/2022 12:00 PM	11/01/2022 1:27 PM
2211023-004	Sed-7-221027	10/27/2022 11:45 AM	11/01/2022 1:27 PM
2211023-005	Sed-8-221027	10/27/2022 11:30 AM	11/01/2022 1:27 PM
2211023-006	Sed-9-221027	10/27/2022 11:15 AM	11/01/2022 1:27 PM
2211023-007	Sed-10-221027	10/27/2022 11:00 AM	11/01/2022 1:27 PM
2211023-008	Sed-11-221027	10/27/2022 10:20 AM	11/01/2022 1:27 PM
2211023-009	SWS-2-20221027	10/27/2022 9:55 AM	11/01/2022 1:27 PM
2211023-010	SWS-3-20221027	10/27/2022 2:00 PM	11/01/2022 1:27 PM

DRAFT

Note: If no "Time Collected" is supplied, a default of 12:00AM is assigned

CLIENT: OnSite Environmental Inc
Project: Go East

I. SAMPLE RECEIPT:

Samples receipt information is recorded on the attached Sample Receipt Checklist.

II. GENERAL REPORTING COMMENTS:

Results are reported on a wet weight basis unless dry-weight correction is denoted in the units field on the analytical report ("mg/kg-dry" or "ug/kg-dry").

Matrix Spike (MS) and MS Duplicate (MSD) samples are tested from an analytical batch of "like" matrix to check for possible matrix effect. The MS and MSD will provide site specific matrix data only for those samples which are spiked by the laboratory. The sample chosen for spike purposes may or may not have been a sample submitted in this sample delivery group. The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The LCS and the MB are processed with the samples and the MS/MSD to ensure method criteria are achieved throughout the entire analytical process.

III. ANALYSES AND EXCEPTIONS:

Exceptions associated with this report will be footnoted in the analytical results page(s) or the quality control summary page(s) and/or noted below.

DRAFT

Qualifiers:

- * - Flagged value is not within established control limits
- B - Analyte detected in the associated Method Blank
- D - Dilution was required
- E - Value above quantitation range
- H - Holding times for preparation or analysis exceeded
- I - Analyte with an internal standard that does not meet established acceptance criteria
- J - Analyte detected below Reporting Limit
- N - Tentatively Identified Compound (TIC)
- Q - Analyte with an initial or continuing calibration that does not meet established acceptance criteria
- S - Spike recovery outside accepted recovery limits
- ND - Not detected at the Reporting Limit
- R - High relative percent difference observed

Acronyms:

- %Rec - Percent Recovery
- CCB - Continued Calibration Blank
- CCV - Continued Calibration Verification
- DF - Dilution Factor
- DUP - Sample Duplicate
- HEM - Hexane Extractable Material
- ICV - Initial Calibration Verification
- LCS/LCSD - Laboratory Control Sample / Laboratory Control Sample Duplicate
- MCL - Maximum Contaminant Level
- MB or MBLANK - Method Blank
- MDL - Method Detection Limit
- MS/MSD - Matrix Spike / Matrix Spike Duplicate
- PDS - Post Digestion Spike
- Ref Val - Reference Value
- REP - Sample Replicate
- RL - Reporting Limit
- RPD - Relative Percent Difference
- SD - Serial Dilution
- SGT - Silica Gel Treatment
- SPK - Spike
- Surr - Surrogate



Client: OnSite Environmental Inc

Collection Date: 10/27/2022 12:30:00 PM

Project: Go East

Lab ID: 2211023-001

Matrix: Sediment

Client Sample ID: Sed-4-221027

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Herbicides by EPA Method 8151A (GC/MS)

Batch ID: 38395 Analyst: SK

Dicamba	ND	30.7		µg/Kg-dry	1	11/9/2022 2:34:49 PM
2,4-D	ND	30.7		µg/Kg-dry	1	11/9/2022 2:34:49 PM
2,4-DP	ND	30.7		µg/Kg-dry	1	11/9/2022 2:34:49 PM
2,4,5-TP (Silvex)	ND	30.7		µg/Kg-dry	1	11/9/2022 2:34:49 PM
2,4,5-T	ND	30.7		µg/Kg-dry	1	11/9/2022 2:34:49 PM
Dinoseb	ND	51.2		µg/Kg-dry	1	11/9/2022 2:34:49 PM
Dalapon	ND	205		µg/Kg-dry	1	11/9/2022 2:34:49 PM
2,4-DB	ND	30.7		µg/Kg-dry	1	11/9/2022 2:34:49 PM
MCPP	ND	51.2		µg/Kg-dry	1	11/9/2022 2:34:49 PM
MCPA	ND	51.2		µg/Kg-dry	1	11/9/2022 2:34:49 PM
Picloram	ND	51.2		µg/Kg-dry	1	11/9/2022 2:34:49 PM
Bentazon	ND	30.7		µg/Kg-dry	1	11/9/2022 2:34:49 PM
Chloramben	ND	30.7		µg/Kg-dry	1	11/9/2022 2:34:49 PM
Acifluorfen	ND	51.2		µg/Kg-dry	1	11/9/2022 2:34:49 PM
3,5-Dichlorobenzoic acid	ND	30.7		µg/Kg-dry	1	11/9/2022 2:34:49 PM
4-Nitrophenol	ND	30.7		µg/Kg-dry	1	11/9/2022 2:34:49 PM
Dacthal (DCPA)	ND	51.2		µg/Kg-dry	1	11/9/2022 2:34:49 PM
Surr: 2,4-Dichlorophenylacetic acid	45.6	5.89 - 160		%Rec	1	11/9/2022 2:34:49 PM

Sample Moisture (Percent Moisture)

Batch ID: R79577 Analyst: co

Percent Moisture	14.6	0.500		wt%	1	11/4/2022 1:40:50 PM
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Client: OnSite Environmental Inc

Collection Date: 10/27/2022 12:15:00 PM

Project: Go East

Lab ID: 2211023-002

Matrix: Sediment

Client Sample ID: Sed-5-221027

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Herbicides by EPA Method 8151A (GC/MS)

Batch ID: 38395 Analyst: SK

Dicamba	ND	30.2		µg/Kg-dry	1	11/9/2022 2:55:30 PM
2,4-D	ND	30.2		µg/Kg-dry	1	11/9/2022 2:55:30 PM
2,4-DP	ND	30.2		µg/Kg-dry	1	11/9/2022 2:55:30 PM
2,4,5-TP (Silvex)	ND	30.2		µg/Kg-dry	1	11/9/2022 2:55:30 PM
2,4,5-T	ND	30.2		µg/Kg-dry	1	11/9/2022 2:55:30 PM
Dinoseb	ND	50.3		µg/Kg-dry	1	11/9/2022 2:55:30 PM
Dalapon	ND	201		µg/Kg-dry	1	11/9/2022 2:55:30 PM
2,4-DB	ND	30.2		µg/Kg-dry	1	11/9/2022 2:55:30 PM
MCPP	ND	50.3		µg/Kg-dry	1	11/9/2022 2:55:30 PM
MCPA	ND	50.3		µg/Kg-dry	1	11/9/2022 2:55:30 PM
Picloram	ND	50.3		µg/Kg-dry	1	11/9/2022 2:55:30 PM
Bentazon	ND	30.2		µg/Kg-dry	1	11/9/2022 2:55:30 PM
Chloramben	ND	30.2		µg/Kg-dry	1	11/9/2022 2:55:30 PM
Acifluorfen	ND	50.3		µg/Kg-dry	1	11/9/2022 2:55:30 PM
3,5-Dichlorobenzoic acid	ND	30.2		µg/Kg-dry	1	11/9/2022 2:55:30 PM
4-Nitrophenol	ND	30.2		µg/Kg-dry	1	11/9/2022 2:55:30 PM
Dacthal (DCPA)	ND	50.3		µg/Kg-dry	1	11/9/2022 2:55:30 PM
Surr: 2,4-Dichlorophenylacetic acid	69.6	5.89 - 160		%Rec	1	11/9/2022 2:55:30 PM

Sample Moisture (Percent Moisture)

Batch ID: R79577 Analyst: co

Percent Moisture	21.6	0.500		wt%	1	11/4/2022 1:40:50 PM
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Client: OnSite Environmental Inc

Collection Date: 10/27/2022 12:00:00 PM

Project: Go East

Lab ID: 2211023-003

Matrix: Sediment

Client Sample ID: Sed-6-221027

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Herbicides by EPA Method 8151A (GC/MS)

Batch ID: 38395 Analyst: SK

Dicamba	ND	30.0		µg/Kg-dry	1	11/9/2022 3:16:09 PM
2,4-D	ND	30.0		µg/Kg-dry	1	11/9/2022 3:16:09 PM
2,4-DP	ND	30.0		µg/Kg-dry	1	11/9/2022 3:16:09 PM
2,4,5-TP (Silvex)	ND	30.0		µg/Kg-dry	1	11/9/2022 3:16:09 PM
2,4,5-T	ND	30.0		µg/Kg-dry	1	11/9/2022 3:16:09 PM
Dinoseb	ND	50.0		µg/Kg-dry	1	11/9/2022 3:16:09 PM
Dalapon	ND	200		µg/Kg-dry	1	11/9/2022 3:16:09 PM
2,4-DB	ND	30.0		µg/Kg-dry	1	11/9/2022 3:16:09 PM
MCPP	ND	50.0		µg/Kg-dry	1	11/9/2022 3:16:09 PM
MCPA	ND	50.0		µg/Kg-dry	1	11/9/2022 3:16:09 PM
Picloram	ND	50.0		µg/Kg-dry	1	11/9/2022 3:16:09 PM
Bentazon	ND	30.0		µg/Kg-dry	1	11/9/2022 3:16:09 PM
Chloramben	ND	30.0		µg/Kg-dry	1	11/9/2022 3:16:09 PM
Acifluorfen	ND	50.0		µg/Kg-dry	1	11/9/2022 3:16:09 PM
3,5-Dichlorobenzoic acid	ND	30.0		µg/Kg-dry	1	11/9/2022 3:16:09 PM
4-Nitrophenol	ND	30.0		µg/Kg-dry	1	11/9/2022 3:16:09 PM
Dacthal (DCPA)	ND	50.0		µg/Kg-dry	1	11/9/2022 3:16:09 PM
Surr: 2,4-Dichlorophenylacetic acid	82.6	5.89 - 160		%Rec	1	11/9/2022 3:16:09 PM

Sample Moisture (Percent Moisture)

Batch ID: R79577 Analyst: co

Percent Moisture	18.8	0.500		wt%	1	11/4/2022 1:40:50 PM
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Client: OnSite Environmental Inc

Collection Date: 10/27/2022 11:45:00 AM

Project: Go East

Lab ID: 2211023-004

Matrix: Sediment

Client Sample ID: Sed-7-221027

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Herbicides by EPA Method 8151A (GC/MS)

Batch ID: 38395 Analyst: SK

Dicamba	ND	29.9		µg/Kg-dry	1	11/9/2022 3:36:51 PM
2,4-D	ND	29.9		µg/Kg-dry	1	11/9/2022 3:36:51 PM
2,4-DP	ND	29.9		µg/Kg-dry	1	11/9/2022 3:36:51 PM
2,4,5-TP (Silvex)	ND	29.9		µg/Kg-dry	1	11/9/2022 3:36:51 PM
2,4,5-T	ND	29.9		µg/Kg-dry	1	11/9/2022 3:36:51 PM
Dinoseb	ND	49.8		µg/Kg-dry	1	11/9/2022 3:36:51 PM
Dalapon	ND	199		µg/Kg-dry	1	11/9/2022 3:36:51 PM
2,4-DB	ND	29.9		µg/Kg-dry	1	11/9/2022 3:36:51 PM
MCPP	ND	49.8		µg/Kg-dry	1	11/9/2022 3:36:51 PM
MCPA	ND	49.8		µg/Kg-dry	1	11/9/2022 3:36:51 PM
Picloram	ND	49.8		µg/Kg-dry	1	11/9/2022 3:36:51 PM
Bentazon	ND	29.9		µg/Kg-dry	1	11/9/2022 3:36:51 PM
Chloramben	ND	29.9		µg/Kg-dry	1	11/9/2022 3:36:51 PM
Acifluorfen	ND	49.8		µg/Kg-dry	1	11/9/2022 3:36:51 PM
3,5-Dichlorobenzoic acid	ND	29.9		µg/Kg-dry	1	11/9/2022 3:36:51 PM
4-Nitrophenol	ND	29.9		µg/Kg-dry	1	11/9/2022 3:36:51 PM
Dacthal (DCPA)	ND	49.8		µg/Kg-dry	1	11/9/2022 3:36:51 PM
Surr: 2,4-Dichlorophenylacetic acid	54.0	5.89 - 160		%Rec	1	11/9/2022 3:36:51 PM

Sample Moisture (Percent Moisture)

Batch ID: R79577 Analyst: co

Percent Moisture	24.0	0.500		wt%	1	11/4/2022 1:40:50 PM
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Client: OnSite Environmental Inc
Project: Go East
Lab ID: 2211023-005
Client Sample ID: Sed-8-221027

Collection Date: 10/27/2022 11:30:00 AM
Matrix: Sediment

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Herbicides by EPA Method 8151A (GC/MS)

Batch ID: 38395 Analyst: SK

Dicamba	ND	29.9		µg/Kg-dry	1	11/9/2022 3:57:30 PM
2,4-D	ND	29.9		µg/Kg-dry	1	11/9/2022 3:57:30 PM
2,4-DP	ND	29.9		µg/Kg-dry	1	11/9/2022 3:57:30 PM
2,4,5-TP (Silvex)	ND	29.9		µg/Kg-dry	1	11/9/2022 3:57:30 PM
2,4,5-T	ND	29.9		µg/Kg-dry	1	11/9/2022 3:57:30 PM
Dinoseb	ND	49.8		µg/Kg-dry	1	11/9/2022 3:57:30 PM
Dalapon	ND	199		µg/Kg-dry	1	11/9/2022 3:57:30 PM
2,4-DB	ND	29.9		µg/Kg-dry	1	11/9/2022 3:57:30 PM
MCPP	ND	49.8		µg/Kg-dry	1	11/9/2022 3:57:30 PM
MCPA	ND	49.8		µg/Kg-dry	1	11/9/2022 3:57:30 PM
Picloram	ND	49.8		µg/Kg-dry	1	11/9/2022 3:57:30 PM
Bentazon	ND	29.9		µg/Kg-dry	1	11/9/2022 3:57:30 PM
Chloramben	ND	29.9		µg/Kg-dry	1	11/9/2022 3:57:30 PM
Acifluorfen	ND	49.8		µg/Kg-dry	1	11/9/2022 3:57:30 PM
3,5-Dichlorobenzoic acid	ND	29.9		µg/Kg-dry	1	11/9/2022 3:57:30 PM
4-Nitrophenol	ND	29.9		µg/Kg-dry	1	11/9/2022 3:57:30 PM
Dacthal (DCPA)	ND	49.8		µg/Kg-dry	1	11/9/2022 3:57:30 PM
Surr: 2,4-Dichlorophenylacetic acid	29.2	5.89 - 160		%Rec	1	11/9/2022 3:57:30 PM

Sample Moisture (Percent Moisture)

Batch ID: R79577 Analyst: co

Percent Moisture	35.0	0.500		wt%	1	11/4/2022 1:40:50 PM
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Client: OnSite Environmental Inc

Collection Date: 10/27/2022 11:15:00 AM

Project: Go East

Lab ID: 2211023-006

Matrix: Sediment

Client Sample ID: Sed-9-221027

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Herbicides by EPA Method 8151A (GC/MS)

Batch ID: 38395 Analyst: SK

Dicamba	ND	29.7		µg/Kg-dry	1	11/9/2022 4:38:48 PM
2,4-D	ND	29.7		µg/Kg-dry	1	11/9/2022 4:38:48 PM
2,4-DP	ND	29.7		µg/Kg-dry	1	11/9/2022 4:38:48 PM
2,4,5-TP (Silvex)	ND	29.7		µg/Kg-dry	1	11/9/2022 4:38:48 PM
2,4,5-T	ND	29.7		µg/Kg-dry	1	11/9/2022 4:38:48 PM
Dinoseb	ND	49.5		µg/Kg-dry	1	11/9/2022 4:38:48 PM
Dalapon	ND	198		µg/Kg-dry	1	11/9/2022 4:38:48 PM
2,4-DB	ND	29.7		µg/Kg-dry	1	11/9/2022 4:38:48 PM
MCPP	ND	49.5		µg/Kg-dry	1	11/9/2022 4:38:48 PM
MCPA	ND	49.5		µg/Kg-dry	1	11/9/2022 4:38:48 PM
Picloram	ND	49.5		µg/Kg-dry	1	11/9/2022 4:38:48 PM
Bentazon	ND	29.7		µg/Kg-dry	1	11/9/2022 4:38:48 PM
Chloramben	ND	29.7		µg/Kg-dry	1	11/9/2022 4:38:48 PM
Acifluorfen	ND	49.5		µg/Kg-dry	1	11/9/2022 4:38:48 PM
3,5-Dichlorobenzoic acid	ND	29.7		µg/Kg-dry	1	11/9/2022 4:38:48 PM
4-Nitrophenol	ND	29.7		µg/Kg-dry	1	11/9/2022 4:38:48 PM
Dacthal (DCPA)	ND	49.5		µg/Kg-dry	1	11/9/2022 4:38:48 PM
Surr: 2,4-Dichlorophenylacetic acid	70.9	5.89 - 160		%Rec	1	11/9/2022 4:38:48 PM

Sample Moisture (Percent Moisture)

Batch ID: R79577 Analyst: co

Percent Moisture	24.1	0.500		wt%	1	11/4/2022 1:40:50 PM
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Client: OnSite Environmental Inc
Project: Go East
Lab ID: 2211023-007
Client Sample ID: Sed-10-221027

Collection Date: 10/27/2022 11:00:00 AM
Matrix: Sediment

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<u>Herbicides by EPA Method 8151A (GC/MS)</u>				Batch ID: 38395		Analyst: SK
Dicamba	ND	29.9		µg/Kg-dry	1	11/9/2022 4:59:30 PM
2,4-D	ND	29.9		µg/Kg-dry	1	11/9/2022 4:59:30 PM
2,4-DP	ND	29.9		µg/Kg-dry	1	11/9/2022 4:59:30 PM
2,4,5-TP (Silvex)	ND	29.9		µg/Kg-dry	1	11/9/2022 4:59:30 PM
2,4,5-T	ND	29.9		µg/Kg-dry	1	11/9/2022 4:59:30 PM
Dinoseb	ND	49.8		µg/Kg-dry	1	11/9/2022 4:59:30 PM
Dalapon	ND	199		µg/Kg-dry	1	11/9/2022 4:59:30 PM
2,4-DB	ND	29.9		µg/Kg-dry	1	11/9/2022 4:59:30 PM
MCPP	ND	49.8		µg/Kg-dry	1	11/9/2022 4:59:30 PM
MCPA	ND	49.8		µg/Kg-dry	1	11/9/2022 4:59:30 PM
Picloram	ND	49.8		µg/Kg-dry	1	11/9/2022 4:59:30 PM
Bentazon	ND	29.9		µg/Kg-dry	1	11/9/2022 4:59:30 PM
Chloramben	ND	29.9		µg/Kg-dry	1	11/9/2022 4:59:30 PM
Acifluorfen	ND	49.8		µg/Kg-dry	1	11/9/2022 4:59:30 PM
3,5-Dichlorobenzoic acid	ND	29.9		µg/Kg-dry	1	11/9/2022 4:59:30 PM
4-Nitrophenol	ND	29.9		µg/Kg-dry	1	11/9/2022 4:59:30 PM
Dacthal (DCPA)	ND	49.8		µg/Kg-dry	1	11/9/2022 4:59:30 PM
Surr: 2,4-Dichlorophenylacetic acid	76.1	5.89 - 160		%Rec	1	11/9/2022 4:59:30 PM
<u>Sample Moisture (Percent Moisture)</u>				Batch ID: R79577		Analyst: co
Percent Moisture	31.4	0.500		wt%	1	11/4/2022 1:40:50 PM



Client: OnSite Environmental Inc
Project: Go East
Lab ID: 2211023-008
Client Sample ID: Sed-11-221027

Collection Date: 10/27/2022 10:20:00 AM
Matrix: Sediment

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Herbicides by EPA Method 8151A (GC/MS)

Batch ID: 38395 Analyst: SK

Dicamba	ND	29.5		µg/Kg-dry	1	11/9/2022 5:20:08 PM
2,4-D	ND	29.5		µg/Kg-dry	1	11/9/2022 5:20:08 PM
2,4-DP	ND	29.5		µg/Kg-dry	1	11/9/2022 5:20:08 PM
2,4,5-TP (Silvex)	ND	29.5		µg/Kg-dry	1	11/9/2022 5:20:08 PM
2,4,5-T	ND	29.5		µg/Kg-dry	1	11/9/2022 5:20:08 PM
Dinoseb	ND	49.1		µg/Kg-dry	1	11/9/2022 5:20:08 PM
Dalapon	ND	197		µg/Kg-dry	1	11/9/2022 5:20:08 PM
2,4-DB	ND	29.5		µg/Kg-dry	1	11/9/2022 5:20:08 PM
MCPP	ND	49.1		µg/Kg-dry	1	11/9/2022 5:20:08 PM
MCPA	ND	49.1		µg/Kg-dry	1	11/9/2022 5:20:08 PM
Picloram	ND	49.1		µg/Kg-dry	1	11/9/2022 5:20:08 PM
Bentazon	ND	29.5		µg/Kg-dry	1	11/9/2022 5:20:08 PM
Chloramben	ND	29.5		µg/Kg-dry	1	11/9/2022 5:20:08 PM
Acifluorfen	ND	49.1		µg/Kg-dry	1	11/9/2022 5:20:08 PM
3,5-Dichlorobenzoic acid	ND	29.5		µg/Kg-dry	1	11/9/2022 5:20:08 PM
4-Nitrophenol	ND	29.5		µg/Kg-dry	1	11/9/2022 5:20:08 PM
Dacthal (DCPA)	ND	49.1		µg/Kg-dry	1	11/9/2022 5:20:08 PM
Surr: 2,4-Dichlorophenylacetic acid	45.8	5.89 - 160		%Rec	1	11/9/2022 5:20:08 PM

Sample Moisture (Percent Moisture)

Batch ID: R79577 Analyst: co

Percent Moisture	30.2	0.500		wt%	1	11/4/2022 1:40:50 PM
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Client: OnSite Environmental Inc

Collection Date: 10/27/2022 9:55:00 AM

Project: Go East

Lab ID: 2211023-009

Matrix: Water

Client Sample ID: SWS-2-20221027

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Herbicides by EPA Method 8151A (GC/MS)

Batch ID: 38369

Analyst: SK

Dicamba	ND	0.997		µg/L	1	11/8/2022 8:05:13 PM
2,4-D	ND	0.997		µg/L	1	11/8/2022 8:05:13 PM
2,4-DP	ND	0.997		µg/L	1	11/8/2022 8:05:13 PM
2,4,5-TP (Silvex)	ND	0.997		µg/L	1	11/8/2022 8:05:13 PM
2,4,5-T	ND	0.997		µg/L	1	11/8/2022 8:05:13 PM
Dinoseb	ND	0.997		µg/L	1	11/8/2022 8:05:13 PM
Dalapon	ND	3.99		µg/L	1	11/8/2022 8:05:13 PM
2,4-DB	ND	0.997		µg/L	1	11/8/2022 8:05:13 PM
MCPP	ND	4.99		µg/L	1	11/8/2022 8:05:13 PM
MCPA	ND	4.99		µg/L	1	11/8/2022 8:05:13 PM
Picloram	ND	0.997		µg/L	1	11/8/2022 8:05:13 PM
Bentazon	ND	0.997		µg/L	1	11/8/2022 8:05:13 PM
Chloramben	ND	0.997		µg/L	1	11/8/2022 8:05:13 PM
Acifluorfen	ND	4.99		µg/L	1	11/8/2022 8:05:13 PM
3,5-Dichlorobenzoic acid	ND	0.997		µg/L	1	11/8/2022 8:05:13 PM
4-Nitrophenol	ND	4.99		µg/L	1	11/8/2022 8:05:13 PM
Dacthal (DCPA)	ND	4.99		µg/L	1	11/8/2022 8:05:13 PM
Surr: 2,4-Dichlorophenylacetic acid	88.6	70.4 - 145		%Rec	1	11/8/2022 8:05:13 PM



Client: OnSite Environmental Inc

Collection Date: 10/27/2022 2:00:00 PM

Project: Go East

Lab ID: 2211023-010

Matrix: Water

Client Sample ID: SWS-3-20221027

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Herbicides by EPA Method 8151A (GC/MS)

Batch ID: 38369

Analyst: SK

Dicamba	ND	0.992		µg/L	1	11/8/2022 9:05:49 PM
2,4-D	ND	0.992		µg/L	1	11/8/2022 9:05:49 PM
2,4-DP	ND	0.992		µg/L	1	11/8/2022 9:05:49 PM
2,4,5-TP (Silvex)	ND	0.992		µg/L	1	11/8/2022 9:05:49 PM
2,4,5-T	ND	0.992		µg/L	1	11/8/2022 9:05:49 PM
Dinoseb	ND	0.992		µg/L	1	11/8/2022 9:05:49 PM
Dalapon	ND	3.97		µg/L	1	11/8/2022 9:05:49 PM
2,4-DB	ND	0.992		µg/L	1	11/8/2022 9:05:49 PM
MCPP	ND	4.96		µg/L	1	11/8/2022 9:05:49 PM
MCPA	ND	4.96		µg/L	1	11/8/2022 9:05:49 PM
Picloram	ND	0.992		µg/L	1	11/8/2022 9:05:49 PM
Bentazon	ND	0.992		µg/L	1	11/8/2022 9:05:49 PM
Chloramben	ND	0.992		µg/L	1	11/8/2022 9:05:49 PM
Acifluorfen	ND	4.96		µg/L	1	11/8/2022 9:05:49 PM
3,5-Dichlorobenzoic acid	ND	0.992		µg/L	1	11/8/2022 9:05:49 PM
4-Nitrophenol	ND	4.96		µg/L	1	11/8/2022 9:05:49 PM
Dacthal (DCPA)	ND	4.96		µg/L	1	11/8/2022 9:05:49 PM
Surr: 2,4-Dichlorophenylacetic acid	94.9	70.4 - 145		%Rec	1	11/8/2022 9:05:49 PM

Work Order: 2211023
 CLIENT: OnSite Environmental Inc
 Project: Go East

QC SUMMARY REPORT
Herbicides by EPA Method 8151A (GC/MS)

Sample ID: MB-38395	SampType: MBLK	Units: µg/Kg	Prep Date: 11/4/2022	RunNo: 79861							
Client ID: MBLKS	Batch ID: 38395		Analysis Date: 11/9/2022	SeqNo: 1647685							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Dicamba	ND	30.0									
2,4-D	ND	30.0									
2,4-DP	ND	30.0									
2,4,5-TP (Silvex)	ND	30.0									
2,4,5-T	ND	30.0									
Dinoseb	ND	50.0									
Dalapon	ND	200									
2,4-DB	ND	30.0									
MCPP	ND	50.0									
MCPA	ND	50.0									
Picloram	ND	50.0									
Bentazon	ND	30.0									
Chloramben	ND	30.0									
Acifluorfen	ND	50.0									
3,5-Dichlorobenzoic acid	ND	30.0									
4-Nitrophenol	ND	30.0									
Dacthal (DCPA)	ND	50.0									
Surr: 2,4-Dichlorophenylacetic acid	837		1,000		83.7	5.89	160				

Sample ID: LCS-38395	SampType: LCS	Units: µg/Kg	Prep Date: 11/4/2022	RunNo: 79861							
Client ID: LCSS	Batch ID: 38395		Analysis Date: 11/9/2022	SeqNo: 1647686							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Dicamba	27.5	30.0	20.00	0	138	52	157				
2,4-D	24.6	30.0	20.00	0	123	54.7	176				
2,4-DP	26.2	30.0	20.00	0	131	55.1	160				
2,4,5-TP (Silvex)	25.1	30.0	20.00	0	126	56.8	169				
2,4,5-T	23.9	30.0	20.00	0	120	54	175				
Dinoseb	18.0	50.0	20.00	0	90.0	5	110				
Dalapon	202	200	100.0	0	202	39.5	170				S
2,4-DB	21.6	30.0	20.00	0	108	44.1	184				

Work Order: 2211023
 CLIENT: OnSite Environmental Inc
 Project: Go East

QC SUMMARY REPORT
Herbicides by EPA Method 8151A (GC/MS)

Sample ID: LCS-38395	SampType: LCS	Units: µg/Kg	Prep Date: 11/4/2022	RunNo: 79861							
Client ID: LCSS	Batch ID: 38395		Analysis Date: 11/9/2022	SeqNo: 1647686							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

MCPP	136	50.0	100.0	0	136	46.2	159				
MCPA	134	50.0	100.0	0	134	42.5	169				
Picloram	21.5	50.0	20.00	0	107	70.5	196				
Bentazon	26.0	30.0	20.00	0	130	60	165				
Chloramben	13.6	30.0	20.00	0	68.2	8.12	127				
Acifluorfen	17.5	50.0	20.00	0	87.3	5	127				
3,5-Dichlorobenzoic acid	27.9	30.0	20.00	0	139	47.2	152				
4-Nitrophenol	26.1	30.0	20.00	0	131	47.9	155				
Dacthal (DCPA)	24.6	50.0	20.00	0	123	64.7	178				
Surr: 2,4-Dichlorophenylacetic acid	996		1,000		99.6	5.89	160				

NOTES:

S - Outlying spike recovery observed (high bias). Samples are non-detect; result meets QC requirements.

Sample ID: 2211088-014AMS	SampType: MS	Units: µg/Kg-dry	Prep Date: 11/4/2022	RunNo: 79861							
Client ID: BATCH	Batch ID: 38395		Analysis Date: 11/9/2022	SeqNo: 1647700							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Dicamba	138	31.1	207.5	0	66.7	5	127				
2,4-D	139	31.1	207.5	0	66.8	5.62	147				
2,4-DP	150	31.1	207.5	0	72.3	8.5	138				
2,4,5-TP (Silvex)	155	31.1	207.5	0	74.7	11.6	141				
2,4,5-T	136	31.1	207.5	0	65.6	7.25	138				
Dinoseb	98.6	51.9	207.5	0	47.5	11.5	123				
Dalapon	556	207	1,037	0	53.6	5	139				
2,4-DB	149	31.1	207.5	0	71.8	28.3	146				
MCPP	764	51.9	1,037	0	73.6	16.7	128				
MCPA	748	51.9	1,037	0	72.1	16.1	126				
Picloram	60.7	51.9	207.5	0	29.3	5	148				
Bentazon	159	31.1	207.5	0	76.7	26.1	123				
Chloramben	64.1	31.1	207.5	0	30.9	5	110				
Acifluorfen	98.6	51.9	207.5	0	47.5	3.83	137				
3,5-Dichlorobenzoic acid	151	31.1	207.5	0	72.8	9.63	114				

Work Order: 2211023
 CLIENT: OnSite Environmental Inc
 Project: Go East

QC SUMMARY REPORT
Herbicides by EPA Method 8151A (GC/MS)

Sample ID: 2211088-014AMS	SampType: MS	Units: µg/Kg-dry	Prep Date: 11/4/2022	RunNo: 79861							
Client ID: BATCH	Batch ID: 38395		Analysis Date: 11/9/2022	SeqNo: 1647700							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
4-Nitrophenol	173	31.1	207.5	0	83.1	21.3	124				
Dacthal (DCPA)	31.8	51.9	207.5	0	15.3	5	139				
Surr: 2,4-Dichlorophenylacetic acid	729		1,037		70.3	5.89	160				

Sample ID: 2211088-014AMSD	SampType: MSD	Units: µg/Kg-dry	Prep Date: 11/4/2022	RunNo: 79861							
Client ID: BATCH	Batch ID: 38395		Analysis Date: 11/9/2022	SeqNo: 1647701							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dicamba	154	31.2	208.1	0	73.9	5	127	138.3	10.5	30	
2,4-D	153	31.2	208.1	0	73.6	5.62	147	138.7	9.90	30	
2,4-DP	165	31.2	208.1	0	79.5	8.5	138	150.0	9.78	30	
2,4,5-TP (Silvex)	168	31.2	208.1	0	80.6	11.6	141	154.9	7.87	30	
2,4,5-T	149	31.2	208.1	0	71.7	7.25	138	136.1	9.25	30	
Dinoseb	108	52.0	208.1	0	52.1	11.5	123	98.62	9.45	30	
Dalapon	636	208	1,041	0	61.1	5	139	556.3	13.4	30	
2,4-DB	163	31.2	208.1	0	78.5	28.3	146	149.1	9.10	30	
MCPP	840	52.0	1,041	0	80.8	16.7	128	764.1	9.50	30	
MCPA	821	52.0	1,041	0	78.9	16.1	126	748.2	9.27	30	
Picloram	77.7	52.0	208.1	0	37.4	5	148	60.73	24.6	30	
Bentazon	176	31.2	208.1	0	84.7	26.1	123	159.1	10.3	30	
Chloramben	65.1	31.2	208.1	0	31.3	5	110	64.06	1.63	30	
Acifluorfen	107	52.0	208.1	0	51.5	3.83	137	98.59	8.35	30	
3,5-Dichlorobenzoic acid	165	31.2	208.1	0	79.4	9.63	114	151.1	8.90	30	
4-Nitrophenol	190	31.2	208.1	0	91.3	21.3	124	172.5	9.61	30	
Dacthal (DCPA)	47.9	52.0	208.1	0	23.0	5	139	31.85	40.3	30	
Surr: 2,4-Dichlorophenylacetic acid	804		1,041		77.2	5.89	160		0		

Work Order: 2211023
 CLIENT: OnSite Environmental Inc
 Project: Go East

QC SUMMARY REPORT
Herbicides by EPA Method 8151A (GC/MS)

Sample ID: MB-38369	SampType: MBLK	Units: µg/L	Prep Date: 11/2/2022	RunNo: 79703							
Client ID: MBLKW	Batch ID: 38369		Analysis Date: 11/8/2022	SeqNo: 1643515							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dicamba	ND	0.994									
2,4-D	ND	0.994									
2,4-DP	ND	0.994									
2,4,5-TP (Silvex)	ND	0.994									
2,4,5-T	ND	0.994									
Dinoseb	ND	0.994									
Dalapon	ND	1.99									
2,4-DB	ND	0.994									
MCPP	ND	4.97									
MCPA	ND	4.97									
Picloram	ND	0.994									
Bentazon	ND	0.994									
Chloramben	ND	0.994									
Acifluorfen	ND	4.97									
3,5-Dichlorobenzoic acid	ND	0.994									
4-Nitrophenol	ND	0.994									
Dacthal (DCPA)	ND	1.99									
Surr: 2,4-Dichlorophenylacetic acid	19.0		19.87		95.6	70.4	145				

Sample ID: LCS-38369	SampType: LCS	Units: µg/L	Prep Date: 11/2/2022	RunNo: 79703							
Client ID: LCSW	Batch ID: 38369		Analysis Date: 11/8/2022	SeqNo: 1643516							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dicamba	3.85	0.993	3.972	0	96.9	49.5	161				
2,4-D	3.70	0.993	3.972	0	93.1	48.2	184				
2,4-DP	3.84	0.993	3.972	0	96.6	48.5	168				
2,4,5-TP (Silvex)	3.88	0.993	3.972	0	97.7	48	173				
2,4,5-T	3.62	0.993	3.972	0	91.2	46.1	171				
Dinoseb	3.19	0.993	3.972	0	80.4	3.97	158				
Dalapon	14.0	1.99	19.86	0	70.7	30.9	106				
2,4-DB	3.37	0.993	3.972	0	84.8	44.9	176				

Work Order: 2211023
 CLIENT: OnSite Environmental Inc
 Project: Go East

QC SUMMARY REPORT
Herbicides by EPA Method 8151A (GC/MS)

Sample ID: LCS-38369	SampType: LCS	Units: µg/L			Prep Date: 11/2/2022	RunNo: 79703					
Client ID: LCSW	Batch ID: 38369				Analysis Date: 11/8/2022	SeqNo: 1643516					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
MCPP	19.4	4.96	19.86	0	97.9	59.2	150				
MCPA	19.5	4.96	19.86	0	98.0	61.2	150				
Picloram	2.02	0.993	3.972	0	50.9	17.1	147				
Bentazon	3.70	0.993	3.972	0	93.1	37.7	178				
Chloramben	1.34	0.993	3.972	0	33.7	5	132				
Acifluorfen	3.40	4.96	3.972	0	85.5	5	172				
3,5-Dichlorobenzoic acid	3.92	0.993	3.972	0	98.8	40.6	153				
4-Nitrophenol	0.661	0.993	3.972	0	16.6	5	125				
Dacthal (DCPA)	0.919	1.99	3.972	0	23.1	17.3	84.3				
Surr: 2,4-Dichlorophenylacetic acid	18.4		19.86		92.8	70.4	145				

Sample ID: 2211023-009AMS	SampType: MS	Units: µg/L			Prep Date: 11/2/2022	RunNo: 79703					
Client ID: SWS-2-20221027	Batch ID: 38369				Analysis Date: 11/8/2022	SeqNo: 1647788					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dicamba	3.52	0.993	3.974	0	88.5	31	142				
2,4-D	3.60	0.993	3.974	0	90.6	50.3	149				
2,4-DP	3.66	0.993	3.974	0	92.0	49.9	143				
2,4,5-TP (Silvex)	3.74	0.993	3.974	0	94.2	47.7	141				
2,4,5-T	3.59	0.993	3.974	0	90.3	34.4	139				
Dinoseb	3.34	0.993	3.974	0	83.9	27.3	117				
Dalapon	12.0	3.97	19.87	0	60.3	14.2	113				
2,4-DB	3.39	0.993	3.974	0	85.2	31.3	147				
MCPP	18.1	4.97	19.87	0	91.0	30.5	177				
MCPA	18.1	4.97	19.87	0	91.1	36.8	163				
Picloram	2.16	0.993	3.974	0	54.4	18.8	115				
Bentazon	3.86	0.993	3.974	0	97.1	11.9	176				
Chloramben	1.66	0.993	3.974	0	41.9	5	112				
Acifluorfen	3.54	2.98	3.974	0	89.0	28.1	146				
3,5-Dichlorobenzoic acid	3.64	0.993	3.974	0	91.7	36.2	146				
4-Nitrophenol	0.473	0.199	3.974	0	11.9	5	116				

Work Order: 2211023
 CLIENT: OnSite Environmental Inc
 Project: Go East

QC SUMMARY REPORT
Herbicides by EPA Method 8151A (GC/MS)

Sample ID: 2211023-009AMS	SampType: MS	Units: µg/L	Prep Date: 11/2/2022	RunNo: 79703							
Client ID: SWS-2-20221027	Batch ID: 38369		Analysis Date: 11/8/2022	SeqNo: 1647788							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Dacthal (DCPA) 1.04 0.497 3.974 0 26.2 5 84.6
 Surr: 2,4-Dichlorophenylacetic acid 18.1 19.87 91.2 70.4 145

Sample ID: 2211023-009AMSD	SampType: MSD	Units: µg/L	Prep Date: 11/2/2022	RunNo: 79703							
Client ID: SWS-2-20221027	Batch ID: 38369		Analysis Date: 11/8/2022	SeqNo: 1647789							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Dicamba 3.50 0.992 3.968 0 88.3 31 142 3.517 0.347 50
 2,4-D 3.52 0.992 3.968 0 88.7 50.3 149 3.602 2.33 50
 2,4-DP 3.58 0.992 3.968 0 90.1 49.9 143 3.655 2.19 50
 2,4,5-TP (Silvex) 3.70 0.992 3.968 0 93.2 47.7 141 3.742 1.21 50
 2,4,5-T 3.50 0.992 3.968 0 88.2 34.4 139 3.589 2.59 50
 Dinoseb 3.29 0.992 3.968 0 82.8 27.3 117 3.336 1.49 50
 Dalapon 11.6 3.97 19.84 0 58.4 14.2 113 11.99 3.44 50
 2,4-DB 3.35 0.992 3.968 0 84.5 31.3 147 3.387 0.975 50
 MCPP 17.8 4.96 19.84 0 89.8 30.5 177 18.07 1.39 50
 MCPA 17.8 4.96 19.84 0 89.6 36.8 163 18.10 1.82 50
 Picloram 2.16 0.992 3.968 0 54.5 18.8 115 2.162 0.0270 50
 Bentazon 3.85 0.992 3.968 0 96.9 11.9 176 3.859 0.365 50
 Chloramben 1.86 0.992 3.968 0 47.0 5 112 1.665 11.2 50
 Acifluorfen 3.50 2.98 3.968 0 88.3 28.1 146 3.538 0.953 50
 3,5-Dichlorobenzoic acid 3.59 0.992 3.968 0 90.5 36.2 146 3.642 1.39 50
 4-Nitrophenol 0.749 0.0992 3.968 0 18.9 5 116 0.4728 45.2 50 R
 Dacthal (DCPA) 0.956 0.496 3.968 0 24.1 5 84.6 1.041 8.54 50
 Surr: 2,4-Dichlorophenylacetic acid 17.9 19.84 90.2 70.4 145 0

NOTES:

R - High RPD observed, spike recovery is within range.

Client Name: ONSITE	Work Order Number: 2211023
Logged by: Elisabeth Samoray	Date Received: 11/1/2022 1:27:00 PM

Chain of Custody

1. Is Chain of Custody complete? Yes No Not Present
2. How was the sample delivered? Client

Log In

3. Coolers are present? Yes No NA
4. Shipping container/cooler in good condition? Yes No
5. Custody Seals present on shipping container/cooler?
(Refer to comments for Custody Seals not intact) Yes No Not Present
6. Was an attempt made to cool the samples? Yes No NA
7. Were all items received at a temperature of >2°C to 6°C * Yes No NA
8. Sample(s) in proper container(s)? Yes No
9. Sufficient sample volume for indicated test(s)? Yes No
10. Are samples properly preserved? Yes No
11. Was preservative added to bottles? Yes No NA
12. Is there headspace in the VOA vials? Yes No NA
13. Did all samples containers arrive in good condition(unbroken)? Yes No
14. Does paperwork match bottle labels? Yes No
15. Are matrices correctly identified on Chain of Custody? Yes No
16. Is it clear what analyses were requested? Yes No
17. Were all holding times able to be met? Yes No

Special Handling (if applicable)

18. Was client notified of all discrepancies with this order? Yes No NA

Person Notified:	<input type="text"/>	Date:	<input type="text"/>
By Whom:	<input type="text"/>	Via:	<input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:	<input type="text"/>		
Client Instructions:	<input type="text"/>		

19. Additional remarks:

Item Information

Item #	Temp °C
Sample 1	5.4

* Note: DoD/ELAP and TNI require items to be received at 4°C +/- 2°C



14648 NE 95th Street, Redmond, WA 98052 · (425) 883-3881

2211023

Laboratory Reference #: 10-348

Laboratory: Fremont Analytical

Turnaround Request

Project Manager: David Baumeister

Attention: Chelsea Ward

1 Day 2 Day 3 Day

email: dbaumeister@onsite-env.com

3600 Fremont Avenue N, Seattle, WA 98103

Standard

Project Number: Go East

Phone Number: (206) 352-3790

Other:

Project Name:

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	# of Cont.	Requested Analyses
	Sed-4-221027	10/27/22	12:30	Sed	1	Chlorinated Acid Herbicides 8151A
	Sed-5-221027	10/27/22	12:15	Sed	1	Chlorinated Acid Herbicides 8151A
	Sed-6-221027	10/27/22	12:00	Sed	1	Chlorinated Acid Herbicides 8151A
	Sed-7-221027	10/27/22	11:45	Sed	1	Chlorinated Acid Herbicides 8151A
	Sed-8-221027	10/27/22	11:30	Sed	1	Chlorinated Acid Herbicides 8151A
	Sed-9-221027	10/27/22	11:15	Sed	1	Chlorinated Acid Herbicides 8151A
	Sed-10-221027	10/27/22	11:00	Sed	1	Chlorinated Acid Herbicides 8151A
	Sed-11-221027	10/27/22	10:20	Sed	1	Chlorinated Acid Herbicides 8151A
	SWS-2-20221027	10/27/22	9:55	W	1	Chlorinated Acid Herbicides 8151A
	SWS-3-20221027	10/27/22	14:00	W	1	Chlorinated Acid Herbicides 8151A
Signature		Company		Date	Time	Comments/Special Instructions
Relinquished by: <i>[Signature]</i>		OSE		11/1/22	1245	EDDs
Received by: <i>Van</i>		<i>Spdy</i>		11/1/22	1245	
Relinquished by: <i>Van</i>		<i>Spdy</i>		11/1/22	1325	
Received by: <i>Alace O'Connor</i>		FA		11/1/22	13:27	
Relinquished by:						
Received by:						

Sample/Cooler Receipt and Acceptance Checklist

Client: GET

Client Project Name/Number: Go East

OnSite Project Number: 10-348

Initiated by: QMV

Date Initiated: 10/28/11

1.0 Cooler Verification

1.1 Were there custody seals on the outside of the cooler?	Yes	<input checked="" type="radio"/> No	N/A	1	2	3	4
1.2 Were the custody seals intact?	Yes	No	<input checked="" type="radio"/> N/A	1	2	3	4
1.3 Were the custody seals signed and dated by last custodian?	Yes	No	<input checked="" type="radio"/> N/A	1	2	3	4
1.4 Were the samples delivered on ice or blue ice?	<input checked="" type="radio"/> Yes	No	N/A	1	2	3	4
1.5 Were samples received between 0-6 degrees Celsius?	<input checked="" type="radio"/> Yes	No	N/A	Temperature: <u>0,0</u>			
1.6 Have shipping bills (if any) been attached to the back of this form?	Yes	<input checked="" type="radio"/> N/A					
1.7 How were the samples delivered?	Client	<input checked="" type="radio"/> Courier	<input type="radio"/> UPS/FedEx	<input type="radio"/> OSE Pickup	<input type="radio"/> Other		

2.0 Chain of Custody Verification

2.1 Was a Chain of Custody submitted with the samples?	<input checked="" type="radio"/> Yes	No		1	2	3	4
2.2 Was the COC legible and written in permanent ink?	<input checked="" type="radio"/> Yes	No		1	2	3	4
2.3 Have samples been relinquished and accepted by each custodian?	<input checked="" type="radio"/> Yes	No		1	2	3	4
2.4 Did the sample labels (ID, date, time, preservative) agree with COC?	<input checked="" type="radio"/> Yes	No		1	2	3	4
2.5 Were all of the samples listed on the COC submitted?	<input checked="" type="radio"/> Yes	No		1	2	3	4
2.6 Were any of the samples submitted omitted from the COC?	Yes	<input checked="" type="radio"/> No		1	2	3	4

3.0 Sample Verification

3.1 Were any sample containers broken or compromised?	Yes	<input checked="" type="radio"/> No		1	2	3	4
3.2 Were any sample labels missing or illegible?	Yes	<input checked="" type="radio"/> No		1	2	3	4
3.3 Have the correct containers been used for each analysis requested?	<input checked="" type="radio"/> Yes	No		1	2	3	4
3.4 Have the samples been correctly preserved?	Yes	<input checked="" type="radio"/> No	N/A	1	2	3	4
3.5 Are volatiles samples free from headspace and bubbles greater than 6mm?	<input checked="" type="radio"/> Yes	No	N/A	1	2	3	4
3.6 Is there sufficient sample submitted to perform requested analyses?	<input checked="" type="radio"/> Yes	No		1	2	3	4
3.7 Have any holding times already expired or will expire in 24 hours?	Yes	<input checked="" type="radio"/> No		1	2	3	4
3.8 Was method 5035A used?	Yes	No	<input checked="" type="radio"/> N/A	1	2	3	4
3.9 If 5035A was used, which sampling option was used (#1, 2, or 3).	#		<input checked="" type="radio"/> N/A	1	2	3	4

Explain any discrepancies:

3.4) #9) 1 amber pH 6

1 - Discuss issue in Case Narrative

2 - Process Sample As-is

3 - Client contacted to discuss problem

4 - Sample cannot be analyzed or client does not wish to proceed