Appendices

Appendix A
Field Procedures

Appendix A
Field Procedures

GROUNDWATER SAMPLE COLLECTION AND HANDLING

Groundwater samples were obtained using a peristaltic pump with dedicated Teflon tubing at low-flow sampling rates. The groundwater was pumped at approximately 0.5 liter per minute until the water purged clear, after which the samples were obtained at a flow rate of approximately 0.5 liter per minute (low flow). A YSI water quality meter with flow-through-cell was used to monitor the following parameters during purging:

- Acidity (pH)
- Specific conductivity
- Turbidity
- Dissolved oxygen (DO)
- Temperature
- Oxygen reduction potential (ORP)

Collection of water samples began once these parameters were observed to vary by less than 10 percent on three consecutive measurements. Purge water generated during these activities was transferred to the onsite dedicated purge water drum labeled with the date and origin of contents. Incidental waste generated during sampling activities such as gloves, plastic sheeting, paper towels and similar expended and discarded field supplies were disposed of in the local trash receptacle.

The groundwater samples were transferred directly from the tubing outlet to laboratory-prepared sample containers. New nitrile gloves were worn when collecting the groundwater samples. The sample containers were filled completely and placed in a cooler with ice pending transport to the analytical laboratory. Sample labels were completed for each sample. Chain-of-custody procedures were followed in transporting the samples to the laboratory.

INVESTIGATIVE WASTE DISPOSAL FOR GROUNDWATER

Purge water generated during quarterly sampling events was brought directly to Marine Vacuum Services Inc. for permitted disposal. pH measurements of investigation wastewater are tabulated in Table 2; wastewater pH was below 12.5 during all quarterly sampling events. No drums containing remediation waste remain in the KCHA owned storage facility. Purge water disposal tickets are provided in Appendix D.

Appendix B
Chemical Analytical Laboratory Reports

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

June 9, 2023

Katy Atakturk
GeoEngineers, Inc.
2101 4th Avenue, Suite 950
Seattle, WA 98121

Re: Analytical Data for Project 01329-003-30
Laboratory Reference No. 2305-286

Dear Katy:

Enclosed are the analytical results and associated quality control data for samples submitted on May 25, 2023.

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 9, 2023
Samples Submitted: May 25, 2023
Laboratory Reference: 2305-286
Project: 01329-003-30

Case Narrative

Samples were collected on May 25, 2023 and received by the laboratory on May 25, 2023. 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 9, 2023
Samples Submitted: May 25, 2023
Laboratory Reference: 2305-286
Project: 01329-003-30

ANALYTICAL REPORT FOR SAMPLES

Client ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
MW-1-230525	05-286-01	Water	5-25-23	5-25-23	
MW-2-230525	05-286-02	Water	5-25-23	5-25-23	

Date of Report: June 9, 2023
Samples Submitted: May 25, 2023
Laboratory Reference: 2305-286
Project: 01329-003-30

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-2-230525**					
Laboratory ID:	05-286-02					
Diesel Range Organics	**0.35**	0.20	NWTPH-Dx	6-5-23	6-5-23	
Lube Oil Range Organics	**1.5**	0.20	NWTPH-Dx	6-5-23	6-5-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*95*	*50-150*				
Client ID:	**MW-2-230525**					
Laboratory ID:	05-286-02					
Diesel Range Organics	**ND**	0.20	NWTPH-Dx	6-5-23	6-5-23	X2
Lube Oil Range Organics	**ND**	0.20	NWTPH-Dx	6-5-23	6-5-23	X2
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*96*	*50-150*				

Date of Report: June 9, 2023
Samples Submitted: May 25, 2023
Laboratory Reference: 2305-286
Project: 01329-003-30

TOTAL ORGANIC CARBON
SM 5310B

Matrix: Water
Units: mg/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**MW-1-230525**					
Laboratory ID:	05-286-01					
Total Organic Carbon	**1.4**	1.0	SM 5310B	6-8-23	6-8-23	
Client ID:	**MW-2-230525**					
Laboratory ID:	05-286-02					
Total Organic Carbon	**11**	1.0	SM 5310B	6-8-23	6-8-23	

Date of Report: June 9, 2023
Samples Submitted: May 25, 2023
Laboratory Reference: 2305-286
Project: 01329-003-30

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:	MB0605W1					
Diesel Range Organics	**ND**	0.16	NWTPH-Dx	6-5-23	6-5-23	
Lube Oil Range Organics	**ND**	0.16	NWTPH-Dx	6-5-23	6-5-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*114*	*50-150*				
Laboratory ID:	MB0605W1					
Diesel Range Organics	**ND**	0.16	NWTPH-Dx		6-5-23	X2
Lube Oil Range Organics	**ND**	0.16	NWTPH-Dx		6-5-23	X2
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*116*	*50-150*				

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE											
Laboratory ID:	SB0605W1										
	ORIG	DUP									
Diesel Fuel #2	**0.472**	**0.521**	NA	NA		NA		NA	10	40	
Surrogate:											
o-Terphenyl						*104*	*111*	*50-150*			
Laboratory ID:	SB0605W1										
	ORIG	DUP									
Diesel Fuel #2	**0.424**	**0.486**	NA	NA		NA		NA	14	40	X2
Surrogate:											
o-Terphenyl						*106*	*112*	*50-150*			

Date of Report: June 9, 2023
Samples Submitted: May 25, 2023
Laboratory Reference: 2305-286
Project: 01329-003-30

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:	MB0608W1					
Total Organic Carbon	**ND**	1.0	SM 5310B	6-8-23	6-8-23	

Analyte	Result		Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE									
Laboratory ID:	05-286-02								
	ORIG	DUP							
Total Organic Carbon	**10.8**	**11.1**	NA	NA	NA	NA	3	13	
MATRIX SPIKE									
Laboratory ID:	05-286-02								
	MS		MS		MS				
Total Organic Carbon	**20.7**		10.0	10.8	99	86-127	NA	NA	
SPIKE BLANK									
Laboratory ID:	SB0608W1								
	SB		SB		SB				
Total Organic Carbon	**9.59**		10.0	NA	96	90-122	NA	NA	

OnSite Environmental Inc.

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

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

Company: GEOENGINEERS
Project Number: 01329-003-30
Project Name: KCHA - GREENBRIDGE
Project Manager: KATY ATAKTURK
Sampled by: BRIAN ANDERSON

Turnaround Request (in working days)

(Check One)

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

Laboratory Number: 05-286

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX (8021☐ 8260☐)	NWTPH-Gx	NWTPH-Dx (SG Clean-up ☐) SEE NOTE	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	TOC				% Moisture
1	MW-1-230525	5-25-23	1100	GW	1																		X				
2	MW-2-230525	5-25-23	1202	GW	3				X														X				

	Signature	Company	Date	Time
Relinquished	Brian Anderson	GEOENGINEERS	5-25-23	1324
Received		OSE	5/25/23	1345
Relinquished				
Received				
Relinquished				
Received				
Reviewed/Date		Reviewed/Date		

Comments/Special Instructions

RUN MW-2-230525 → FOR NWTPH-Dx WITH SG CLEAN (NO ACID)

ALSO FOR NWTPH-Dx NO → SG CLEAN

Data Package: Standard ☐ Level III ☐ Level IV ☐

Chromatograms with final report ☐ Electronic Data Deliverables (EDDs) ☐

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

September 1, 2023

Katy Atakturk
GeoEngineers, Inc.
2101 4th Avenue, Suite 950
Seattle, WA 98121

Re: Analytical Data for Project 1329-003-30
Laboratory Reference No. 2308-320

Dear Katy:

Enclosed are the analytical results and associated quality control data for samples submitted on August 29, 2023.

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: September 1, 2023
Samples Submitted: August 29, 2023
Laboratory Reference: 2308-320
Project: 1329-003-30

Case Narrative

Samples were collected on August 29, 2023 and received by the laboratory on August 29, 2023. 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: September 1, 2023
Samples Submitted: August 29, 2023
Laboratory Reference: 2308-320
Project: 1329-003-30

ANALYTICAL REPORT FOR SAMPLES

Client ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
MW-2	08-320-01	Water	8-29-23	8-29-23	

Date of Report: September 1, 2023
Samples Submitted: August 29, 2023
Laboratory Reference: 2308-320
Project: 1329-003-30

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**					
Laboratory ID:	08-320-01					
Diesel Range Organics	**0.31**	0.21	NWTPH-Dx	8-30-23	8-31-23	
Lube Oil Range Organics	**0.64**	0.21	NWTPH-Dx	8-30-23	8-31-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*98*	*50-150*				
Client ID:	**MW-2**					
Laboratory ID:	08-320-01					
Diesel Range Organics	**ND**	0.21	NWTPH-Dx	8-30-23	8-31-23	X2
Lube Oil Range Organics	**ND**	0.21	NWTPH-Dx	8-30-23	8-31-23	X2
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*100*	*50-150*				

Date of Report: September 1, 2023
Samples Submitted: August 29, 2023
Laboratory Reference: 2308-320
Project: 1329-003-30

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:	MB0830W1					
Diesel Range Organics	**ND**	0.16	NWTPH-Dx	8-30-23	8-31-23	
Lube Oil Range Organics	**ND**	0.16	NWTPH-Dx	8-30-23	8-31-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*96*	*50-150*				
Laboratory ID:	MB0830W1					
Diesel Range Organics	**ND**	0.16	NWTPH-Dx	8-30-23	8-31-23	X2
Lube Oil Range Organics	**ND**	0.16	NWTPH-Dx	8-30-23	8-31-23	X2
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*99*	*50-150*				

Analyte	Result		Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE									
Laboratory ID:	SB0830W1								
	ORIG	DUP							
Diesel Fuel #2	**0.396**	**0.376**	NA	NA	NA	NA	5	40	
Surrogate:									
o-Terphenyl					*97*	*98*	*50-150*		
Laboratory ID:	SB0830W1								
	ORIG	DUP							
Diesel Fuel #2	**0.375**	**0.373**	NA	NA	NA	NA	1	40	X2
Surrogate:									
o-Terphenyl					*99*	*103*	*50-150*		

OnSite Environmental Inc.

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.

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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

Page 1 of 1

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

Company: GEOENGINEERS
Project Number: 1329-003-30
Project Name: KCHA GREENBRIDGE
Project Manager: KATY ATAKTURK
Sampled by: BRIAN ANDERSON

Turnaround Request (in working days)

(Check One)

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

Laboratory Number: 08-320

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 8260C	Halogenated Volatiles 8260C	EDB EPA 8011 (Waters Only)	Semivolatiles 8270D/SIM (with low-level PAHs)	PAHs 8270D/SIM (low-level)	PCBs 8082A	Organochlorine Pesticides 8081B	Organophosphorus Pesticides 8270D/SIM	Chlorinated Acid Herbicides 8151A	Total RCRA Metals	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664A	NWTPH-Dx				% Moisture
									NO Acid																		
1	MW-2	8-29-23	1130	W	2				X														X				

	Signature	Company	Date	Time
Relinquished		GEOENGINEERS	8-29-23	1331
Received	Nichelle Tiffin	OSE	8/29/23	1331
Relinquished				
Received				
Relinquished				
Received				
Reviewed/Date		Reviewed/Date		

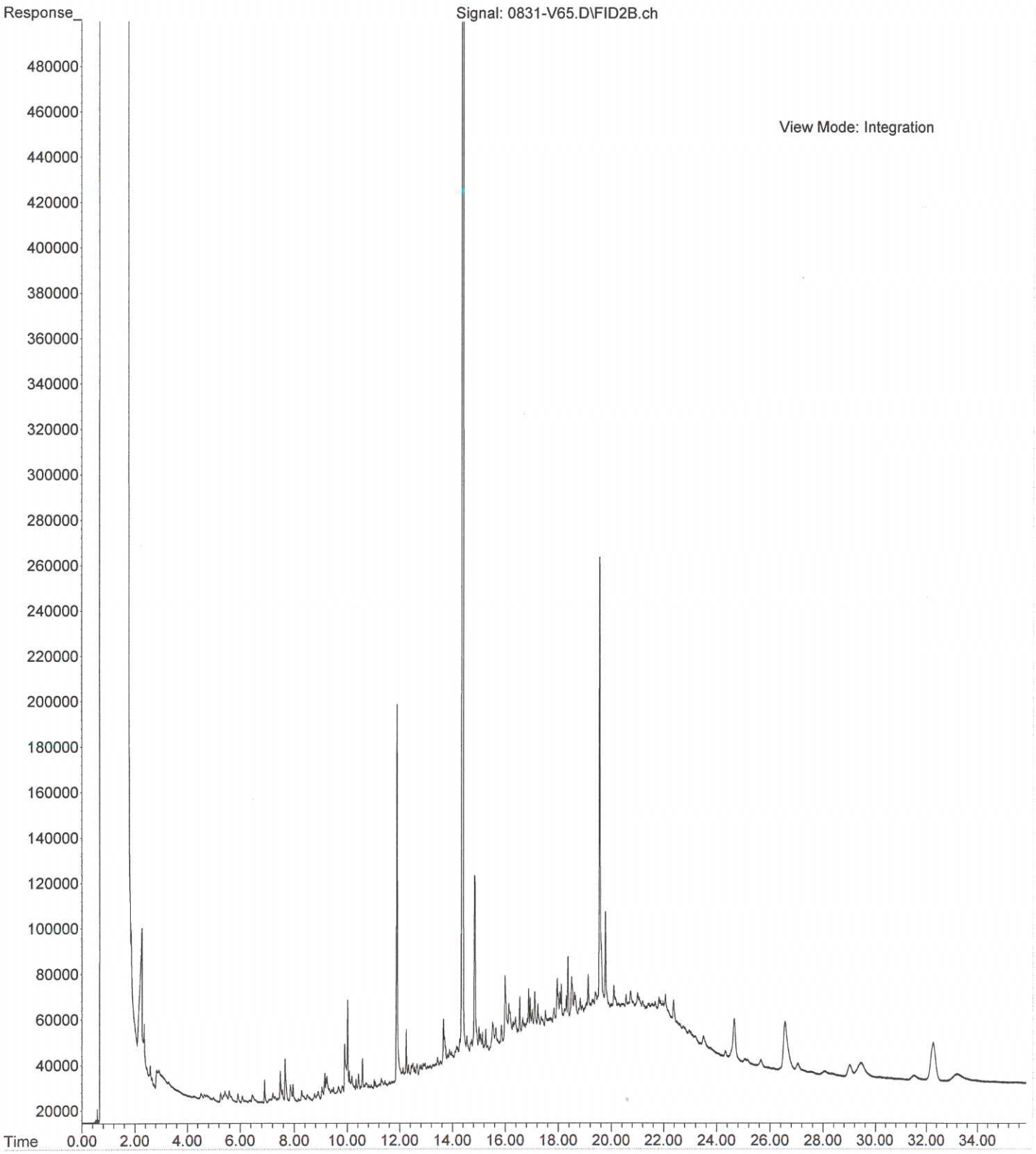
Comments/Special Instructions

RUN FOR NWTPH-Dx-SGC NO ACID AND NWTPH Dx

Data Package: Standard ☐ Level III ☐ Level IV ☐

Chromatograms with final report ☐ Electronic Data Deliverables (EDDs) ☐

File :X:\DIESELS\Vigo\Data\V230831.SEC\0831-V65.D
Operator : LW
Acquired : 31 Aug 2023 18:50 using AcqMethod V230830F.M
Instrument : Vigo
Sample Name: 08-320-01
Misc Info : RearSamp
Vial Number: 65



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

December 6, 2023

Katy Atakturk
GeoEngineers, Inc.
2101 4th Avenue, Suite 950
Seattle, WA 98121

Re: Analytical Data for Project 1329-003-30
Laboratory Reference No. 2311-269

Dear Katy:

Enclosed are the analytical results and associated quality control data for samples submitted on November 28, 2023.

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: December 6, 2023
Samples Submitted: November 28, 2023
Laboratory Reference: 2311-269
Project: 1329-003-30

Case Narrative

Samples were collected on November 28, 2023 and received by the laboratory on November 28, 2023. 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. However the soil results for the QA/QC samples are reported on a wet-weight basis.

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.

NWTPH-Dx Analysis

The ending CCV for sample MW-2 and the associated cleanup were high. The original sample was re-run with passing CCVs. The cleanup which showed no hits was not re-run since an increased response on the instrument was observed.

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 6, 2023
Samples Submitted: November 28, 2023
Laboratory Reference: 2311-269
Project: 1329-003-30

ANALYTICAL REPORT FOR SAMPLES

Client ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
MW-2	11-269-01	Water	11-28-23	11-28-23	

Date of Report: December 6, 2023
Samples Submitted: November 28, 2023
Laboratory Reference: 2311-269
Project: 1329-003-30

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**					
Laboratory ID:	11-269-01					
Diesel Fuel #2	**0.11**	0.11	NWTPH-Dx	11-30-23	12-1-23	
Lube Oil Range Organics	**0.37**	0.22	NWTPH-Dx	11-30-23	12-1-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*72*	*50-150*				
Client ID:	**MW-2**					
Laboratory ID:	11-269-01					
Diesel Range Organics	**ND**	0.11	NWTPH-Dx	11-30-23	11-30-23	X2
Lube Oil Range Organics	**ND**	0.22	NWTPH-Dx	11-30-23	11-30-23	X2
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*92*	*50-150*				

Date of Report: December 6, 2023
Samples Submitted: November 28, 2023
Laboratory Reference: 2311-269
Project: 1329-003-30

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:	MB1130W1					
Diesel Range Organics	**ND**	0.080	NWTPH-Dx	11-30-23	11-30-23	
Lube Oil Range Organics	**ND**	0.16	NWTPH-Dx	11-30-23	11-30-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*77*	*50-150*				
Laboratory ID:	MB1130W1					
Diesel Range Organics	**ND**	0.080	NWTPH-Dx	11-30-23	11-30-23	X2
Lube Oil Range Organics	**ND**	0.16	NWTPH-Dx	11-30-23	11-30-23	X2
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*95*	*50-150*				

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE											
Laboratory ID:	11-274-01										
	ORIG	DUP									
Diesel Range Organics	**0.681**	**0.636**	NA	NA		NA		NA	7	40	
Lube Oil Range Organics	**0.373**	**0.401**	NA	NA		NA		NA	7	40	
Surrogate:											
o-Terphenyl						*73*	*77*	*50-150*			
Laboratory ID:	11-274-01										
	ORIG	DUP									
Diesel Range	**ND**	**ND**	NA	NA		NA		NA	NA	40	X2
Lube Oil Range	**ND**	**ND**	NA	NA		NA		NA	NA	40	X2
Surrogate:											
o-Terphenyl						*84*	*93*	*50-150*			

OnSite Environmental Inc.

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

Page 1 of 1

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

Company: GEOENGINEERS
Project Number: 1329-003-30
Project Name: KCHA GREENBRIDGE
Project Manager: KATY ATAKTURK
Sampled by: BRIAN ANDERSON

Turnaround Request (in working days)

(Check One)

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

Laboratory Number: 11-269

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX (8021☐ 8260☐)	NWTPH-Gx	NWTPH-Dx (SG Clean-up☒ NO ACID)	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	8 NWTPH-Dx			% Moisture
1	MW-2	11-28-23	1230	W	2				X																	

	Signature	Company	Date	Time
Relinquished	B. Anderson	GEOENGINEERS	11-28-23	1405
Received	Nichelle Bolin	OSE	11/28/23	1405
Relinquished				
Received				
Relinquished				
Received				
Reviewed/Date		Reviewed/Date		

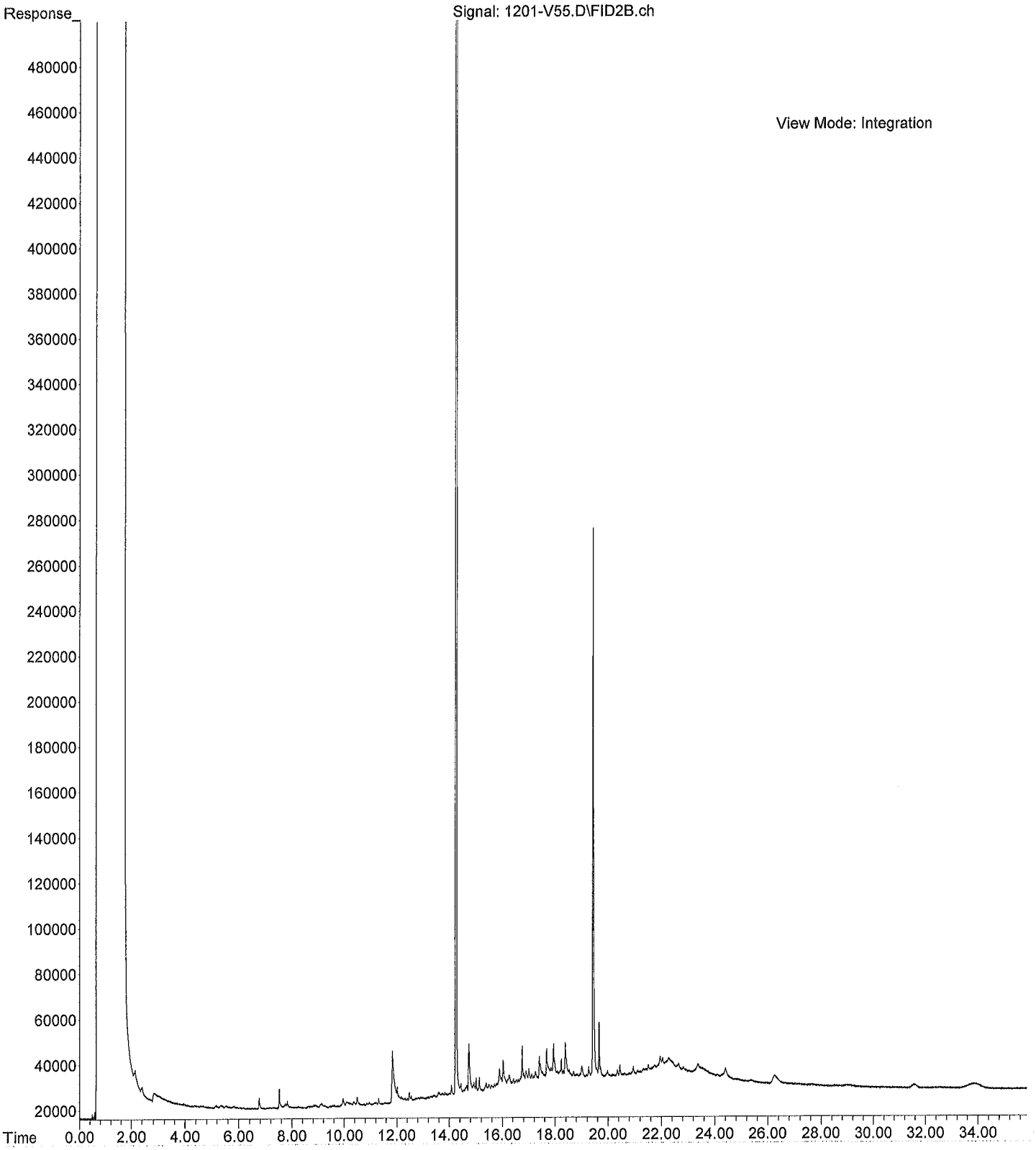
Comments/Special Instructions

RUN FOR NWTPH-Dx SGC NO ACID AND NWTPH-Dx

Data Package: Standard ☐ Level III ☐ Level IV ☐

Chromatograms with final report ☐ Electronic Data Deliverables (EDDs) ☐

File :C:\msdchem\2\data\V231201.SEC\1201-V55.D
Operator : LW
Acquired : 1 Dec 2023 11:49 using AcqMethod V230830F.M
Instrument : Vigo
Sample Name: 11-269-01 RR
Misc Info : RearSamp
Vial Number: 55



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

March 11, 2024

Katy Atakturk
GeoEngineers, Inc.
2101 4th Avenue, Suite 950
Seattle, WA 98121

Re: Analytical Data for Project 1329-003-30
Laboratory Reference No. 2403-009

Dear Katy:

Enclosed are the analytical results and associated quality control data for samples submitted on March 1, 2024.

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: March 11, 2024
Samples Submitted: March 1, 2024
Laboratory Reference: 2403-009
Project: 1329-003-30

Case Narrative

Samples were collected on February 28, 2024 and received by the laboratory on March 1, 2024. 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. However the soil results for the QA/QC samples are reported on a wet-weight basis.

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 11, 2024
Samples Submitted: March 1, 2024
Laboratory Reference: 2403-009
Project: 1329-003-30

ANALYTICAL REPORT FOR SAMPLES

Client ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
MW-2	03-009-01	Water	2-28-24	3-1-24	

Date of Report: March 11, 2024
Samples Submitted: March 1, 2024
Laboratory Reference: 2403-009
Project: 1329-003-30

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**					
Laboratory ID:	03-009-01					
Diesel Range Organics	**ND**	0.15	NWTPH-Dx	3-4-24	3-5-24	
Lube Oil Range Organics	**0.32**	0.20	NWTPH-Dx	3-4-24	3-5-24	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*80*	*50-150*				
Client ID:	**MW-2**					
Laboratory ID:	03-009-01					
Diesel Range Organics	**ND**	0.15	NWTPH-Dx	3-4-24	3-4-24	X2
Lube Oil Range Organics	**ND**	0.20	NWTPH-Dx	3-4-24	3-4-24	X2
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*84*	*50-150*				

Date of Report: March 11, 2024
Samples Submitted: March 1, 2024
Laboratory Reference: 2403-009
Project: 1329-003-30

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:	MB0304W1					
Diesel Range Organics	**ND**	0.12	NWTPH-Dx	3-4-24	3-4-24	
Lube Oil Range Organics	**ND**	0.16	NWTPH-Dx	3-4-24	3-4-24	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*82*	*50-150*				
Laboratory ID:	MB0304W1					
Diesel Range Organics	**ND**	0.12	NWTPH-Dx	3-4-24	3-4-24	X2
Lube Oil Range Organics	**ND**	0.16	NWTPH-Dx	3-4-24	3-4-24	X2
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*85*	*50-150*				

Analyte	Result		Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE									
Laboratory ID:	SB0304W1								
	ORIG	DUP							
Diesel Fuel #2	**0.365**	**0.354**	NA	NA	NA	NA	3	40	
Surrogate:									
o-Terphenyl					*79*	*73*	*50-150*		
Laboratory ID:	SB0304W1								
	ORIG	DUP							
Diesel Fuel #2	**0.334**	**0.323**	NA	NA	NA	NA	3	40	X2
Surrogate:									
o-Terphenyl					*73*	*81*	*50-150*		

OnSite Environmental Inc.

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

Page 1 of 1

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

Company: GEOENGINEERS
Project Number: 1329-003-30
Project Name: KCHA GREENBRIDGE
Project Manager: KATY ATAKTURK
Sampled by: BRIAN ANDERSON

Turnaround Request (in working days)

(Check One)

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

Laboratory Number: 03-009

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX (8021☐ 8260☐)	NWTPH-Gx	NWTPH-Dx (SG Clean-up ☒ No Acid)	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	NWTPH-Dx				% Moisture
1	MW-2	2-28-24	1225	W	2				X														X				

	Signature	Company	Date	Time
Relinquished	B Cadena	GeoEngineers	3-1-24	
Received				
Relinquished	B Cadena	GEI	3-1-24	1250
Received		GEI	3/1/24	1250
Relinquished				
Received				
Reviewed/Date		Reviewed/Date		

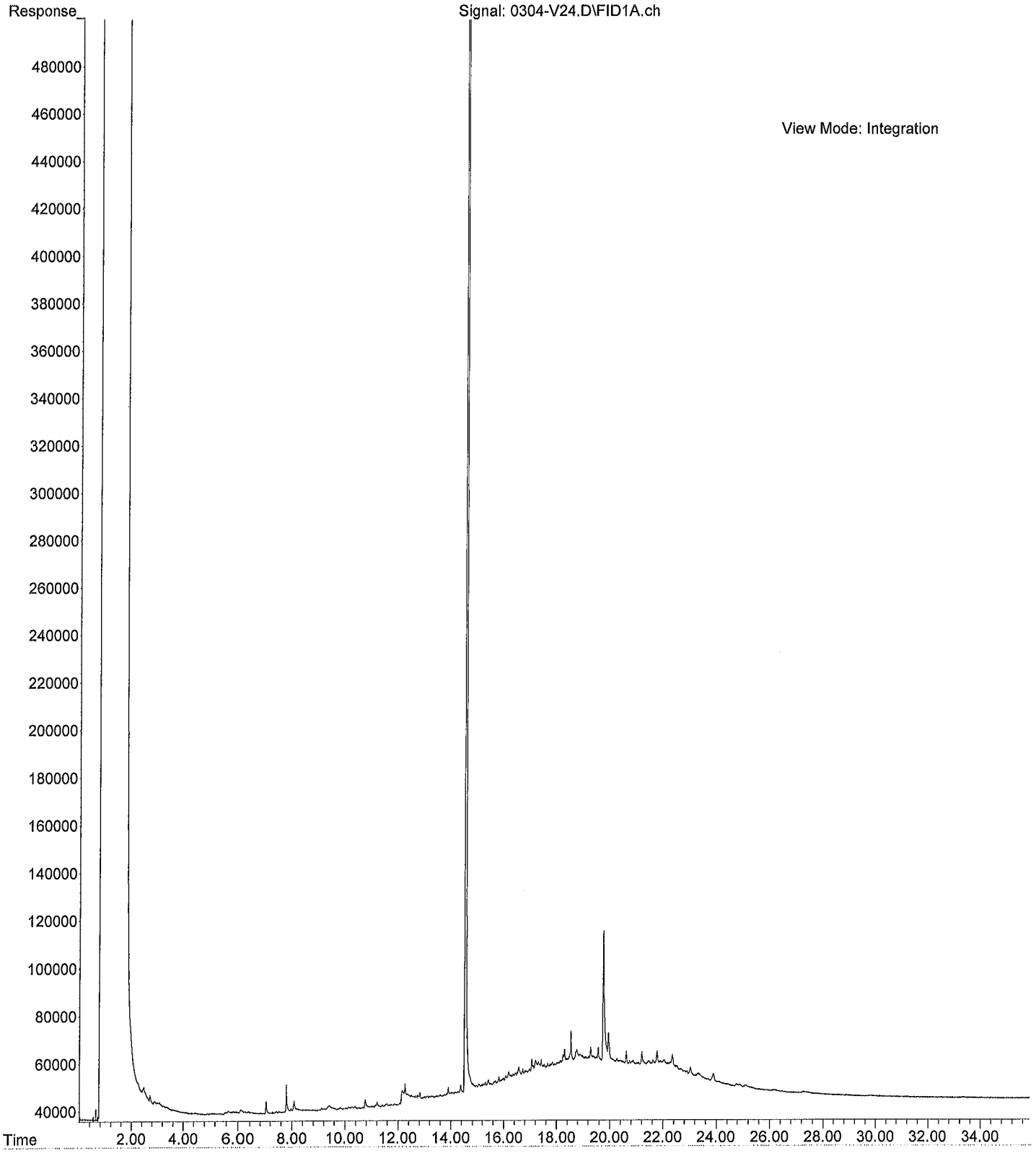
Comments/Special Instructions

NWTPH-Dx SGC No Acid
NWTPH-Dx

Data Package: Standard ☐ Level III ☐ Level IV ☐

Chromatograms with final report ☐ Electronic Data Deliverables (EDDs) ☐

File :C:\msdchem\2\data\V240304\0304-V24.D
Operator : LW
Acquired : 5 Mar 2024 00:39 using AcqMethod V230830F.M
Instrument : Vigo
Sample Name: 03-009-01
Misc Info : Sample
Vial Number: 24



Appendix C
EIM Submittal Confirmation

From: Denell Warren
To: Katy R. Atakturk
Cc: Dana Carlisle
Subject: FW: EIM data submission - VCNW3033
Date: Monday, May 8, 2023 1:39:52 PM

See below. The data has been accepted and is now viewable in EIM.

Denell

From: Baus, Nevan (ECY) <nbau461@ECY.WA.GOV>
Sent: Monday, May 1, 2023 1:59 PM
To: Denell Warren <dwarren@geoengineers.com>
Cc: Warfel, Michael (ECY) <MWAR461@ECY.WA.GOV>
Subject: EIM data submission - VCNW3033

Hi Denell,

Thank you for submitting data for the Park Lake Homes Maintenance Shop study. Submitted data for this study loaded into EIM successfully. Please verify the data and let me know if you have questions.

Below is further information on the loaded data.

Facility Site ID: 24359391

Study ID: VCNW3033

Study Name Park Lake Homes Maintenance Shop

Date Range: Historic Data 2017-2023

New Locations: 2

New Results: 1452

Information for data submitter:

- You can view the data by using the following link. https://apps.ecology.wa.gov/eim/search/Map/Map.aspx?MapType=EIM&StudySystemIds=99972722&StudyUserIds=VCNW3033&StudyUserIdSearchType=Equals&MapLocationExtent=-13619362.4609264%2C6026459.32887733%2C-13619324.6122885%2C6026490.64457796&CustomMap=y&BBox=-13619423,6026432,-13619263,6026517&Layers=0,1,2,3,4,5,6,7,8,9&Opacity=0.95&Basemap=bmHybrid&Options=v,h,h,h,h,h,h
- Verify study, location, and result information.

Information for Ecology employees:

- You can view the data by using the following link. http://ecyeim/search/Map/Map.aspx?MapType=EIM&StudySystemIds=99972722&StudyUserIds=VCNW3033&StudyUserIdSearchType=Equals&MapLocationExtent=-13619362.4609264%2C6026459.32887733%2C-13619324.6122885%2C6026490.64457796&CustomMap=y&BBox=-13619423,6026432,-13619263,6026517&Layers=0,1,2,3,4,5,6,7,8,9&Opacity=0.95&Basemap=bmHybrid&Options=v,h,h,h,h,h,h
- Verify study, location, and result information.
- The EIM Data Entry Review Checklist, updated May 2018, can be found in the EIM Help Center.
- There is a video training on how to review the data.

Thanks,
Nevan

Nevan Baus
Environmental Assessment Program
Washington State Department of Ecology
Olympia, WA
(509) 202-5256

From: Erik Strandhagen
To: Katy R. Atakturk
Subject: RE: EIM data submission - VCNW3033
Date: Tuesday, May 7, 2024 1:47:07 PM
Attachments: image001.png

The EDDS listed below have been submitted to EIM per the screenshot below.

- 2308-320
- 2311-269
- 2403-009
- 2305-286

Batch Metadata

Source File Name: Results_VCNW3033_ParkLakeHomes_2024_0507_ERS.csv	**Batch Number:** 57
Submitted By: estrandhagen@geoengineers.com	**Batch Upload Date:** 05/07/2024
Submitter Name: Erik Strandhagen	**Batch Type:** RESULT
Owner Name: estrandhagen@geoengineers.com	**System:** EXTERNAL
Submitting To: TCP-Cleanup	**Total Records in Batch:** 8 Loaded: 0 Unloaded: 8 Error: 0 Warning: 0 Duplicate: 0 Deferred: 0
Submitting Entity: GeoEngineers - Portland OR	

Erik Strandhagen
GeoEngineers
541-729-1507

From: Katy R. Atakturk <katakturk@geoengineers.com>
Sent: Monday, April 29, 2024 10:13 AM
To: Erik Strandhagen <estrandhagen@geoengineers.com>
Subject: FW: EIM data submission - VCNW3033

Hey Erik,

These are quarterly gw results for wells that have previous data uploaded previously (location data already exists). I just found the previous email confirmation I received from Denell below. We're running tight on the final budget as we get ready for closeout, please give me a heads up if you anticipate the work taking any longer than your time estimate.

Thanks,
Katy Ataktürk, LG
Geologist | GeoEngineers, Inc.
Telephone: 425.861.6045
Mobile: 206.419.4290
Email: katakturk@geoengineers.com

2101 4th Ave Ste 950
Seattle, WA 98121
www.geoengineers.com

From: Denell Warren <dwarren@geoengineers.com>
Sent: Monday, May 8, 2023 1:40 PM
To: Katy R. Atakturk <katakturk@geoengineers.com>
Cc: Dana Carlisle <dcarlisle@geoengineers.com>
Subject: FW: EIM data submission - VCNW3033

See below. The data has been accepted and is now viewable in EIM.

Denell

From: Baus, Nevan (ECY) <nbau461@ECY.WA.GOV>
Sent: Monday, May 1, 2023 1:59 PM
To: Denell Warren <dwarren@geoengineers.com>
Cc: Warfel, Michael (ECY) <MWAR461@ECY.WA.GOV>
Subject: EIM data submission - VCNW3033

Hi Denell,

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Below is further information on the loaded data.

Facility Site ID: 24359391

Study ID: VCNW3033

Study Name Park Lake Homes Maintenance Shop

Date Range: Historic Data 2017-2023

New Locations: 2

New Results: 1452

Information for data submitter:

- You can view the data by using the following link. https://apps.ecology.wa.gov/eim/search/Map/Map.aspx?MapType=EIM&StudySystemIds=99972722&StudyUserIds=VCNW3033&StudyUserIdSearchType=Equals&MapLocationExtent=-13619362.4609264%2C6026459.32887733%2C-13619324.6122885%2C6026490.64457796&CustomMap=y&BBox=-13619423,6026432,-13619263,6026517&Layers=0,1,2,3,4,5,6,7,8,9&Opacity=0.95&Basemap=bmHybrid&Options=v,h,h,h,h,h,h

- Verify study, location, and result information.

Information for Ecology employees:

- You can view the data by using the following link. http://ecyeim/search/Map/Map.aspx?MapType=EIM&StudySystemIds=99972722&StudyUserIds=VCNW3033&StudyUserIdSearchType=Equals&MapLocationExtent=-13619362.4609264%2C6026459.32887733%2C-13619324.6122885%2C6026490.64457796&CustomMap=y&BBox=-13619423,6026432,-13619263,6026517&Layers=0,1,2,3,4,5,6,7,8,9&Opacity=0.95&Basemap=bmHybrid&Options=v,h,h,h,h,h,h

- Verify study, location, and result information.

- The EIM Data Entry Review Checklist, updated May 2018, can be found in the EIM Help Center.

- There is a video training on how to review the data.

Thanks,
Nevan

Nevan Baus
Environmental Assessment Program
Washington State Department of Ecology
Olympia, WA
(509) 202-5256

Appendix D
Disposal Tickets

BILL OF LADING
PRODUCT TRANSPORT MANIFEST
MARINE VACUUM SERVICE, INC.

24 HOUR EMERGENCY PHONE NUMBER (206) 762-0240
FAX NUMBER 206-763-8084

N° 33768

TRUCK NUMBER ~~606~~ DATE MAY 25th - 23

TO
DESTINATION
NAME Marine Vacuum Service, Inc.
STREET 1516 South Graham Street
CITY/STATE Seattle, WA 98108

FROM
SHIPPER
NAME GEO Engineering
STREET
CITY/STATE

Project # 1329-003-30

QUANTITY	PROPER SHIPPING NAME	UN (PLACARD) NUMBER
8gal ✓	Waste Water	

RECEIVER MVS: Ray
SLUDGE
DATE 5/25/23
SHIPPER X Brian Cook
DATE 5.25.23

NOTE:

Customer warrants that the waste petroleum products being transferred by the above collector do not contain any contaminates including without limitations, pesticides, chlorinated solvents at concentrations greater than 1000 PPM, any detectable levels of PCBs, or any other material classified as dangerous or hazardous waste by 40 CFR Part 261, Subpart C and D (implementing the Federal Resource Conservation and Recover Act), or by any equivalent state dangerous or hazardous substance classification programs. Should laboratory tests find this waste not in compliance with 40 CFR Part 261, customer (generator) agrees to pay for all disposal costs incurred.

BILL OF LADING

PRODUCT TRANSPORT MANIFEST

MARINE VACUUM SERVICE, INC.

24 HOUR EMERGENCY PHONE NUMBER (206) 762-0240

FAX NUMBER 206-763-8084

TRUCK NUMBER _____ DATE 08-29-23

N° 34127

TO
DESTINATION
NAME Marine Vacuum Service, Inc.
STREET 1516 South Graham Street
CITY/STATE Seattle, WA 98108

FROM
SHIPPER
NAME C & O Eng.
STREET 9934 8th AVE SW
CITY/STATE Seattle, WA.

QUANTITY	PROPER SHIPPING NAME	UN (PLACARD) NUMBER
2 gls	Purge WTR	
	SLUDGE	

RECEIVER Carl DATE

SHIPPER [signature] DATE 8-29-23

NOTE: Plastic Bag. Disp.?

Customer warrants that the waste petroleum products being transferred by the above collector do not contain any contaminates including without limitations, pesticides, chlorinated solvents at concentrations greater than 1000 PPM, any detectable levels of PCBs, or any other material classified as dangerous or hazardous waste by 40 CFR Part 261, Subpart C and D (implementing the Federal Resource Conservation and Recover Act), or by any equivalent state dangerous or hazardous substance classification programs. Should laboratory tests find this waste not in compliance with 40 CFR Part 261, customer (generator) agrees to pay for all disposal costs incurred.

BILL OF LADING

PRODUCT TRANSPORT MANIFEST

MARINE VACUUM SERVICE, INC.

24 HOUR EMERGENCY PHONE NUMBER (206) 762-0240

FAX NUMBER 206-763-8084

TRUCK NUMBER _____ DATE 11-28-23

N° 33992

TO
DESTINATION
NAME Marine Vacuum Service, Inc.
STREET 1516 South Graham Street
CITY/STATE Seattle, WA 98108

FROM
SHIPPER
NAME Geo Eng. / Project # 1329-03-30
STREET 9934 8th AVE SW
CITY/STATE Seattle, W

QUANTITY	PROPER SHIPPING NAME	UN (PLACARD) NUMBER
4 gls	Purge WTR	
	SLUDGE	

RECEIVER Carl DATE

SHIPPER [signature] DATE 11-28-23

NOTE:

Customer warrants that the waste petroleum products being transferred by the above collector do not contain any contaminates including without limitations, pesticides, chlorinated solvents at concentrations greater than 1000 PPM, any detectable levels of PCBs, or any other material classified as dangerous or hazardous waste by 40 CFR Part 261, Subpart C and D (implementing the Federal Resource Conservation and Recover Act), or by any equivalent state dangerous or hazardous substance classification programs. Should laboratory tests find this waste not in compliance with 40 CFR Part 261, customer (generator) agrees to pay for all disposal costs incurred.

BILL OF LADING

N° 33394

PRODUCT TRANSPORT MANIFEST

MARINE VACUUM SERVICE, INC.

24 HOUR EMERGENCY PHONE NUMBER (206) 762-0240

FAX NUMBER 206-763-8084

TRUCK NUMBER _____ DATE 2/28/24

TO
DESTINATION
NAME Marine Vacuum Service, Inc.
STREET 1516 South Graham Street
CITY/STATE Seattle, WA 98108

FROM
SHIPPER
NAME Geo Enginal
STREET 9934 8th Ave SW
CITY/STATE Seattle, WA.

QUANTITY	PROPER SHIPPING NAME	UN (PLACARD) NUMBER
2½ gal	Purge Water	
	SLUDGE	

RECEIVER MVS: Roy DATE 2/28/24 SHIPPER X [signature] DATE 2-28-24

NOTE:

Customer warrants that the waste petroleum products being transferred by the above collector do not contain any contaminates including without limitations, pesticides, chlorinated solvents at concentrations greater than 1000 PPM, any detectable levels of PCBs, or any other material classified as dangerous or hazardous waste by 40 CFR Part 261, Subpart C and D (implementing the Federal Resource Conservation and Recover Act), or by any equivalent state dangerous or hazardous substance classification programs. Should laboratory tests find this waste not in compliance with 40 CFR Part 261, customer (generator) agrees to pay for all disposal costs incurred.

Appendix E
Report Limitations and Guidelines for Use

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Report Limitations and Guidelines For Use[1]

This appendix provides information to help you manage your risks with respect to the use of this report.

Read These Provisions Closely

Some clients, design professionals and contractors may not recognize that the geosciences practices (geotechnical engineering, geology and environmental science) are far less exact than other engineering and natural science disciplines. This lack of understanding can create unrealistic expectations that could lead to disappointments, claims and disputes. GeoEngineers includes these explanatory "limitations" provisions in our reports to help reduce such risks. Please confer with GeoEngineers if you are unclear how these "Report Limitations and Guidelines for Use" apply to your project or site.

Environmental Services Are Performed for Specific Purposes, Persons and Projects

This report has been prepared for the exclusive use of King County Housing Authority (KCHA) and their authorized agents. This report may be reviewed by regulatory agencies. This report is not intended for use by others, and the information contained herein is not applicable to other sites.

GeoEngineers structures our services to meet the specific needs of our clients. For example, an environmental site assessment or remedial action study conducted for a property owner may not fulfill the needs of a prospective purchaser of the same property. Because each environmental study is unique, each environmental report is unique, prepared solely for the specific client and project site. No one except KCHA should rely on this report without first conferring with GeoEngineers. This report should not be applied for any purpose or project except the one originally contemplated.

This Environmental Report Is Based on a Unique Set of Project-Specific Factors

This report applies to the Former Park Lake Homes Maintenance Center Site located at 9800 8th Avenue SW located in Seattle, Washington. GeoEngineers considered a number of unique, project-specific factors when establishing the scope of services for this project and report. Unless GeoEngineers specifically indicates otherwise, do not rely on this report if it was:

- Not prepared for you,
- Not prepared for your project,
- Not prepared for the specific site explored, or
- Completed before important project changes were made.

If important changes are made after the date of this report, GeoEngineers should be given the opportunity to review our interpretations and recommendations and provide written modifications or confirmation, as appropriate.

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[1] Developed based on material provided by GBA, The GeoProfessional Business Association; www.gba.org.

Reliance Conditions for Third Parties

No third party may rely on the product of our services unless GeoEngineers agrees in advance, and in writing to such reliance. This is to provide our firm with reasonable protection against open-ended liability claims by third parties with whom there would otherwise be no contractual limits to their actions.

Environmental Regulations Are Always Evolving

Some substances may be present in the site vicinity in quantities or under conditions that may have led, or may lead, to contamination of the subject site, but are not included in current local, state or federal regulatory definitions of hazardous substances or do not otherwise present current potential liability. GeoEngineers cannot be responsible if the standards for appropriate inquiry, or regulatory definitions of hazardous substance, change or if more stringent environmental standards are developed in the future.

Subsurface Conditions Can Change

This report is based on conditions that existed at the time our site studies were performed. The findings and conclusions of this report may be affected by the passage of time, by manmade events such as construction on or adjacent to the site, by new releases of hazardous substances, or by natural events such as floods, earthquakes and slope instability or groundwater fluctuations. Always contact GeoEngineers before applying this report to determine if it is still applicable.

Biological Pollutants

GeoEngineers' Scope of Work specifically excludes the investigation, detection, prevention or assessment of the presence of Biological Pollutants. Accordingly, this report does not include any interpretations, recommendations, findings, or conclusions regarding the detecting, assessing, preventing or abating of Biological Pollutants and no conclusions or inferences should be drawn regarding Biological Pollutants, as they may relate to this project. The term "Biological Pollutants" includes, but is not limited to, molds, fungi, spores, bacteria, and viruses, and/or any of their byproducts.

If Client desires these specialized services, they should be obtained from a consultant who offers services in this specialized field.

Geotechnical, Geologic and Environmental Reports Should Not Be Interchanged

The equipment, techniques and personnel used to perform an environmental study differ significantly from those used to perform a geotechnical or geologic study and vice versa. For that reason, a geotechnical engineering or geologic report does not usually relate any environmental findings, conclusions or recommendations; e.g., about the likelihood of encountering underground storage tanks or regulated contaminants. Similarly, environmental reports are not used to address geotechnical or geologic concerns regarding a specific project.

Soil and Groundwater End Use

The cleanup levels referenced in this report are site- and situation-specific. The cleanup levels may not be applicable for other sites or for other on-site uses of the affected media (soil and/or groundwater). Note that hazardous substances may be present in some of the site soil and/or groundwater at detectable concentrations that are less than the referenced cleanup levels. GeoEngineers should be contacted prior to the export of soil or groundwater from the subject site or reuse of the affected media on site to evaluate the potential for associated environmental liabilities. We cannot be responsible for potential environmental liability arising out of the transfer of soil and/or groundwater from the subject site to another location or its reuse on site in instances that we were not aware of or could not control.

Most Environmental Findings Are Professional Opinions

Our interpretations of subsurface conditions are based on field observations and chemical analytical data from widely spaced sampling locations at the site. Site exploration identifies subsurface conditions only at those points where subsurface tests are conducted or samples are taken. GeoEngineers reviewed field and laboratory data and then applied our professional judgment to render an opinion about subsurface conditions throughout the site. Actual subsurface conditions may differ – sometimes significantly – from those indicated in this report. Our report, conclusions and interpretations should not be construed as a warranty of the subsurface conditions.