



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

March 11, 2016

Adam Wilkinson
NRC Environmental Services
9520 10th Avenue S., Suite 150
Seattle, WA 98108

Re: Analytical Data for Project 102103
Laboratory Reference No. 1603-102

Dear Adam:

Enclosed are the analytical results and associated quality control data for samples submitted on March 10, 2016.

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 line extending to the right.

David Baumeister
Project Manager

Enclosures

Date of Report: March 11, 2016
Samples Submitted: March 10, 2016
Laboratory Reference: 1603-102
Project: 102103

Case Narrative

Samples were collected on March 10, 2016 and received by the laboratory on March 10, 2016. 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 11, 2016
 Samples Submitted: March 10, 2016
 Laboratory Reference: 1603-102
 Project: 102103

NWTPH-Dx

Matrix: Soil
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID: SC#1						
Laboratory ID:	03-102-01					
Diesel Range Organics	ND	28	NWTPH-Dx	3-10-16	3-11-16	
Lube Oil Range Organics	ND	57	NWTPH-Dx	3-10-16	3-11-16	
Surrogate:	Percent Recovery	Control Limits				
o-Terphenyl	89	50-150				
Client ID: SC#2						
Laboratory ID:	03-102-02					
Diesel Range Organics	ND	32	NWTPH-Dx	3-10-16	3-11-16	
Lube Oil Range Organics	ND	63	NWTPH-Dx	3-10-16	3-11-16	
Surrogate:	Percent Recovery	Control Limits				
o-Terphenyl	86	50-150				
Client ID: SC#3						
Laboratory ID:	03-102-03					
Diesel Range Organics	ND	33	NWTPH-Dx	3-10-16	3-11-16	
Lube Oil Range Organics	ND	66	NWTPH-Dx	3-10-16	3-11-16	
Surrogate:	Percent Recovery	Control Limits				
o-Terphenyl	90	50-150				

Date of Report: March 11, 2016
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 Laboratory Reference: 1603-102
 Project: 102103

**NWTPH-Dx
QUALITY CONTROL**

Matrix: Soil
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0310S3					
Diesel Range Organics	ND	25	NWTPH-Dx	3-10-16	3-11-16	
Lube Oil Range Organics	ND	50	NWTPH-Dx	3-10-16	3-11-16	
Surrogate:	Percent Recovery	Control Limits				
o-Terphenyl	92	50-150				

Analyte	Result		Spike Level		Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE										
Laboratory ID:	03-102-01									
	ORIG	DUP								
Diesel Range	ND	ND	NA	NA		NA	NA	NA	NA	
Lube Oil Range	ND	ND	NA	NA		NA	NA	NA	NA	
Surrogate:										
o-Terphenyl						89	95	50-150		

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% MOISTURE

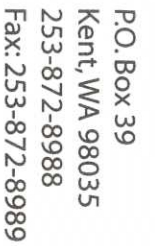
Date Analyzed: 3-10-16

Client ID	Lab ID	% Moisture
SC#1	03-102-01	12
SC#2	03-102-02	21
SC#3	03-102-03	24



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 method 8260C, 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



03-102

Date: _____
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Revised 12/08