



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

August 7, 2009

Ron Hicks
Riverside Associates
1123 Pomona Road
Yakima, WA 98901

Re: Analytical Data for Project 809
Laboratory Reference No. 0908-040

Dear Ron:

Enclosed are the analytical results and associated quality control data for samples submitted on August 6, 2009.

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 "DeB" followed by a stylized flourish or checkmark.

David Baumeister
Project Manager

Enclosures

Date of Report: August 7, 2009
Samples Submitted: August 6, 2009
Laboratory Reference: 0908-040
Project: 809

Case Narrative

Samples were collected on August 4, 2009, and received by the laboratory on August 6, 2009. They were maintained at the laboratory at a temperature of 2°C to 6°C except as 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: August 7, 2009
 Samples Submitted: August 6, 2009
 Laboratory Reference: 0908-040
 Project: 809

NWTPH-Dx

Date Extracted: 8-6-09
 Date Analyzed: 8-6-09

Matrix: Soil
 Units: mg/kg (ppm)

Client ID:	809B124	809B125	809B126
Lab ID:	08-040-01	08-040-02	08-040-03
Diesel Range:	ND	ND	140
PQL:	30	31	29
Identification:	---	---	Diesel Fuel#2
Lube Oil Range:	ND	ND	160
PQL:	60	61	59
Identification:	---	---	Lube Oil
Surrogate Recovery			
o-Terphenyl:	77%	90%	98%
Flags:	Y	Y	Y,N

Date of Report: August 7, 2009
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NWTPH-Dx

Date Extracted: 8-6-09
 Date Analyzed: 8-6&7-09

Matrix: Soil
 Units: mg/kg (ppm)

Client ID:	809B127	809B128	809B129
Lab ID:	08-040-04	08-040-05	08-040-06
Diesel Range:	500	ND	ND
PQL:	160	31	33
Identification:	Diesel Fuel#2	---	---
Lube Oil Range:	3300	ND	ND
PQL:	310	63	66
Identification:	Lube Oil	---	---
Surrogate Recovery			
o-Terphenyl:	88%	88%	94%
Flags:	Y,N	Y	Y

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NWTPH-Dx

Date Extracted: 8-6-09
 Date Analyzed: 8-6&7-09

Matrix: Soil
 Units: mg/kg (ppm)

Client ID:	809B130	809B131	809B132
Lab ID:	08-040-07	08-040-08	08-040-09
Diesel Range:	ND	ND	1800
PQL:	33	33	170
Identification:	---	---	Diesel Fuel#2
Lube Oil Range:	ND	74	4000
PQL:	67	67	340
Identification:	---	Lube Oil	Lube Oil
Surrogate Recovery			
o-Terphenyl:	99%	118%	81%
Flags:	Y	Y	Y,N

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NWTPH-Dx

Date Extracted: 8-6-09
Date Analyzed: 8-7-09

Matrix: Soil
Units: mg/kg (ppm)

Client ID:	809B133	809B134
Lab ID:	08-040-10	08-040-11

Diesel Range:	630	ND
PQL:	170	31
Identification:	Diesel Fuel#2	---

Lube Oil Range:	5200	170
PQL:	330	63
Identification:	Lube Oil	Lube Oil

Surrogate Recovery		
o-Terphenyl:	74%	68%
Flags:	Y,N	Y

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NWTPH-Dx
METHOD BLANK QUALITY CONTROL

Date Extracted: 8-6-09
Date Analyzed: 8-6-09

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: MB0806S1

Diesel Range: **ND**
PQL: 25
Identification: ---

Lube Oil Range: **ND**
PQL: 50
Identification: ---

Surrogate Recovery
o-Terphenyl: 117%

Flags: Y

Date of Report: August 7, 2009
Samples Submitted: August 6, 2009
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Project: 809

NWTPH-Dx
DUPLICATE QUALITY CONTROL

Date Extracted: 8-6-09
Date Analyzed: 8-6-09

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 08-038-04 08-038-04 DUP

Diesel Range: **ND** **ND**
PQL: 25 25

RPD: N/A

Surrogate Recovery
o-Terphenyl: 85% 85%

Flags: Y Y

Date of Report: August 7, 2009
Samples Submitted: August 6, 2009
Laboratory Reference: 0908-040
Project: 809

NWTPH-Dx
DUPLICATE QUALITY CONTROL

Date Extracted: 8-6-09
Date Analyzed: 8-6-09

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 08-040-01 08-040-01 DUP

Diesel Range: **ND** **ND**
PQL: 25 25

RPD: N/A

Surrogate Recovery
o-Terphenyl: 77% 105%

Flags: Y Y

Date of Report: August 7, 2009
Samples Submitted: August 6, 2009
Lab Traveler: 0908-040
Project: 809

% MOISTURE

Date Analyzed: 8-6-09

Client ID	Lab ID	% Moisture
809B124	08-040-01	17
809B125	08-040-02	18
809B126	08-040-03	15
809B127	08-040-04	20
809B128	08-040-05	20
809B129	08-040-06	24
809B130	08-040-07	25
809B131	08-040-08	25
809B132	08-040-09	26
809B133	08-040-10	25
809B134	08-040-11	20

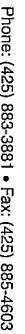


Data Qualifiers and Abbreviations

- 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.
- 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.
- Y - Sample extract treated with an acid/silica gel cleanup procedure.
- Z -
- ND - Not Detected at PQL
- PQL - Practical Quantitation Limit
- RPD - Relative Percent Difference

Chain of Custody

Company: <u>Riverside Associates</u>										(Check One)										Requested Analysis																													
Project Number: <u>809</u>										<input type="checkbox"/> Same Day <input checked="" type="checkbox"/> 1 Day																																							
Project Name: <u>Double H site B1</u>										<input type="checkbox"/> 2 Day <input type="checkbox"/> 3 Day																																							
Project Manager: <u>Ron Hicks</u>										<input type="checkbox"/> Standard (7 working days) (TPH analysis 5 working days)																																							
Sampled by: <u>CESI</u>										<input type="checkbox"/> (other)																																							
Lab ID										Date Sampled		Time Sampled		Matrix		# of Cont.		NWTPH-HCID NWTPH-Gx/BTEX NWTPH-Dx Volatiles by 8260B Halogenated Volatiles by 8260B Semivolatiles by 8270D PAHs by 8270D / SIM PCBs by 8082 Pesticides by 8081A Herbicides by 8151A Total RCRA Metals (8) TCLP Metals HEM by 1664 % Moisture																															
Sample Identification																																																	
1 809 B124										8/4/09		1350		S		1																																	
2 809 B125										8/4/09		1352		S		1																																	
3 809 B126										8/4/09		1355		S		1																																	
4 809 B127										8/4/09		1357		S		1																																	
5 809 B128										8/4/09		1400		S		1																																	
6 809 B129										8/4/09		1402		S		1																																	
7 809 B130										8/4/09		1404		S		1																																	
8 809 B131										8/4/09		1406		S		1																																	
9 809 B132										8/4/09		1408		S		1																																	
10 809 B133										8/4/09		1410		S		1																																	
Signature										Company										Date										Time										Comments/Special Instructions Please email copy of results to: <u>cesias@packetnet.com</u>									
Relinquished by										CESI										8/5/09										1400																			
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