One Union Square, 600 University Street, Suite 1020
Seattle, WA 98101
(206) 342-1760 • FAX (206) 342-1761

GEOMATRIX

Transmittal

Sent Via: ☐ Messenger ☒ U.S. Mail ☐ Overnight Mail

Date: June 20, 2005

To: Mark Edens
Ecology Northwest Regional Office
3190 - 160th Ave. SE
Bellevue, WA 98008-5452

From: Carl Einberger

cc:

Project Number: 10360.000
Project Name: Sierra Pacific Industries, Everett Mill Site

Qty	Description
1	Laboratory Certificates of Analysis

Remarks

Enclosed are laboratory data from soil, groundwater, and sediment sampling performed at the former Weyerhaeuser Mill B Site, in Everett Washington. Sierra Pacific Industries is planning to build a new mill at this site. Sampling was performed between April 27 and May 12, 2005. Figures and summary tables presenting exploration locations and results were previously provided to Ecology. Please contact me at 206.342.1776 if you have any questions.

RECEIVED
JUN 22 2005
DEPT OF ECOLOGY

Analytical Resources, Incorporated
Analytical Chemists and Consultants

May 11, 2005

Joe Morrice
GeoMatrix Consultants
600 University, Suite 1020
Seattle, WA 98101

RE: Project: SPI Everett
ARI Job No: HZ68

Dear Joe:

Please find enclosed a sample custody record (COC) and a set of analytical results for the samples from the project referenced above. Analytical Resources, Inc. accepted six water samples in good condition on April 27, 2005.

The samples were analyzed for PAHs, PCP, NWTPH-Dx, TSS, hardness and total metals as requested on the COC.

These analyses proceeded without incident of note.

Copies of these reports and all associated raw data will be kept on file electronically at ARI. If you have any questions or require additional information, please contact me at your convenience.

Sincerely,

ANALYTICAL RESOURCES, INC.

Stephanie Lucas for
Stephanie Lucas
Project Manager
steph@arilabs.com
(206) 695-6213

enclosures

cc: file HZ68

SPL/mdh

RECEIVED
JUN 22 2005
DEPT OF ECOLOGY

Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number: HZ608	Turn-around Requested: STD
ARI Client Company: GEOMATRIX	Phone: 206-342-1760
Client Contact: Joe Morrice	
Client Project Name: SPI Everett	
Client Project #:	Samplers: Joe

Page: 1	of 1
Date:	Ice Present?
No. of Coolers:	Cooler Temps: 5.0 / 5.6 / 2.6

Analytical Resources, Incorporated
Analytical Chemists and Consultants
4611 South 134th Place, Suite 100
Tukwila, WA 98168
206-695-6200 206-695-6201 (fax)

Sample ID	Date	Time	Matrix	No. Containers	Analysis Requested: Total Metals	TPH-Dx	PAH	PCB	TBT	HMW SVOC			Notes/Comments
OF-02	4-27	1130	W	8	X	X	X	X	X				
OF-03	4-27	1310		8	X	X	X	X	X				
OF-05	4-27	1415		8	X	X	X	X	X				
OF-04	4-27	1440		8	X	X	X	X	X				
OF-01	4-27	1530		8	X	X	X	X	X	~~X~~			
RINSE-01	4-27			1						X			
				(41)									

Comments/Special Instructions	Relinquished by: (Signature)	Received by: (Signature)	Relinquished by: (Signature)	Received by: (Signature)
	Printed Name: Joe Morrice	Printed Name: Eric Branson	Printed Name:	Printed Name:
	Company: Geomatrix	Company: ARI	Company:	Company:
	Date & Time: 4-27-05 1711	Date & Time: 4/27/05 - 1711	Date & Time:	Date & Time:

Limits of Liability: *ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, not withstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.*

Sample Retention Policy: All samples submitted to ARI will be appropriately discarded no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer, unless alternate retention schedules have been established by work-order or contract.

Data Reporting Qualifiers

Effective 12/28/04

Inorganic Data

U Indicates that the target analyte was not detected at the reported concentration

* Duplicate RPD is not within established control limits

B Reported value is less than the CRDL but ≥ the Reporting Limit

N Matrix Spike recovery not within established control limits

NA Not Applicable, analyte not spiked

H The natural concentration of the spiked element is so much greater than the concentration spiked that an accurate determination of spike recovery is not possible

L Analyte concentration is ≤5 times the Reporting Limit and the replicate control limit defaults to ±1 RL instead of the normal 20% RPD

Organic Data

U Indicates that the target analyte was not detected at the reported concentration

* Flagged value is not within established control limits

B Analyte detected in an associated Method Blank at a concentration greater than one-half of ARI's Reporting Limit or 5% of the regulatory limit or 5% of the analyte concentration in the sample.

J Estimated concentration when the value is less than ARI's established reporting limits

D The spiked compound was not detected due to sample extract dilution

NR Spiked compound recovery is not reported due to chromatographic interference

E Estimated concentration calculated for an analyte response above the valid instrument calibration range. A dilution is required to obtain an accurate quantification of the analyte.

S Indicates an analyte response that has saturated the detector. The calculated concentration is not valid; a dilution is required to obtain valid quantification of the analyte

NA The flagged analyte was not analyzed for

NS The flagged analyte was not spiked into the sample

M Estimated value for an analyte detected and confirmed by an analyst but with low spectral match parameters. This flag is used only for GC-MS analyses

N The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification"

Y The analyte is not detected at or above the reported concentration. The reporting limit is raised due to chromatographic interference. The Y flag is equivalent to the U flag with a raised reporting limit.

C The analyte was positively identified on only one of two chromatographic columns. Chromatographic interference prevented a positive identification on the second column

P The analyte was detected on both chromatographic columns but the quantified values differ by ≥40% RPD with no obvious chromatographic interference

Geotechnical Data

SM Sample matrix was not appropriate for the requested analysis. This normally refers to samples contaminated with an organic product that interferes with the sieving process and/or moisture content, porosity and saturation calculations

SS Sample did not contain the proportion of "fines" required to perform the pipette portion of the grain size analysis

W Weight of sample in some pipette aliquots was below the level required for accurate weighting

F Samples were frozen prior to particle size determination

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS **Sample ID: OF-02**
Page 1 of 1 **SAMPLE**

Lab Sample ID: HZ68A
LIMS ID: 05-7314
Matrix: Surface Water
Data Release Authorized:
Reported: 05/10/05

QC Report No: HZ68-Geomatrix Consultants
Project: SPI EVERETT

Date Sampled: 04/27/05
Date Received: 04/27/05

Date Extracted: 05/04/05
Date Analyzed: 05/09/05 12:09
Instrument/Analyst: NT4/LJR

Sample Amount: 500 mL
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
87-86-5	Pentachlorophenol	5.0	< 5.0 U

Reported in µg/L (ppb)

Semivolatile Surrogate Recovery	
2,4,6-Tribromophenol	102%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS **Sample ID: OF-03**
Page 1 of 1 **SAMPLE**

Lab Sample ID: HZ68B
LIMS ID: 05-7315
Matrix: Surface Water
Data Release Authorized:
Reported: 05/10/05

QC Report No: HZ68-Geomatrix Consultants
Project: SPI EVERETT

Date Sampled: 04/27/05
Date Received: 04/27/05

Date Extracted: 05/04/05
Date Analyzed: 05/09/05 12:42
Instrument/Analyst: NT4/LJR

Sample Amount: 500 mL
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
87-86-5	**Pentachlorophenol**	5.0	1.0 J

Reported in µg/L (ppb)

Semivolatile Surrogate Recovery

2,4,6-Tribromophenol	87.2%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS **Sample ID: OF-05**
Page 1 of 1 **SAMPLE**

Lab Sample ID: HZ68C
LIMS ID: 05-7316
Matrix: Surface Water
Data Release Authorized:
Reported: 05/10/05

QC Report No: HZ68-Geomatrix Consultants
Project: SPI EVERETT
Date Sampled: 04/27/05
Date Received: 04/27/05

Date Extracted: 05/04/05
Date Analyzed: 05/09/05 13:15
Instrument/Analyst: NT4/LJR

Sample Amount: 500 mL
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
87-86-5	Pentachlorophenol	5.0	< 5.0 U

Reported in µg/L (ppb)

Semivolatile Surrogate Recovery	
2,4,6-Tribromophenol	93.9%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS
Page 1 of 1

Sample ID: OF-04
SAMPLE

Lab Sample ID: HZ68D
LIMS ID: 05-7317
Matrix: Surface Water
Data Release Authorized:
Reported: 05/10/05

QC Report No: HZ68-Geomatrix Consultants
Project: SPI EVERETT

Date Sampled: 04/27/05
Date Received: 04/27/05

Date Extracted: 05/04/05
Date Analyzed: 05/09/05 13:48
Instrument/Analyst: NT4/LJR

Sample Amount: 500 mL
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
87-86-5	Pentachlorophenol	5.0	< 5.0 U

Reported in µg/L (ppb)

Semivolatile Surrogate Recovery	
2,4,6-Tribromophenol	89.1%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS
Page 1 of 1

Sample ID: OF-01
SAMPLE

Lab Sample ID: HZ68E
LIMS ID: 05-7318
Matrix: Surface Water
Data Release Authorized:
Reported: 05/10/05

QC Report No: HZ68-Geomatrix Consultants
Project: SPI EVERETT

Date Sampled: 04/27/05
Date Received: 04/27/05

Date Extracted: 05/04/05
Date Analyzed: 05/09/05 14:22
Instrument/Analyst: NT4/LJR

Sample Amount: 500 mL
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
87-86-5	Pentachlorophenol	5.0	< 5.0 U

Reported in µg/L (ppb)

Semivolatile Surrogate Recovery	
2,4,6-Tribromophenol	85.3%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS
Page 1 of 1

Sample ID: MB-050405
METHOD BLANK

Lab Sample ID: MB-050405
LIMS ID: 05-7314
Matrix: Surface Water
Data Release Authorized:
Reported: 05/10/05

QC Report No: HZ68-Geomatrix Consultants
Project: SPI EVERETT

Date Sampled: NA
Date Received: NA

Date Extracted: 05/04/05
Date Analyzed: 05/09/05 09:24
Instrument/Analyst: NT4/LJR

Sample Amount: 500 mL
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
87-86-5	Pentachlorophenol	5.0	< 5.0 U

Reported in µg/L (ppb)

Semivolatile Surrogate Recovery	
2,4,6-Tribromophenol	96.0%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by LVI SW8270C SIM GC/MS
Page 1 of 1

Sample ID: LCS-050305
LCS/LCSD

Lab Sample ID: LCS-050305
LIMS ID: 05-7314
Matrix: Surface Water
Data Release Authorized:
Reported: 05/06/05

QC Report No: HZ68-Geomatrix Consultants
Project: SPI EVERETT

Date Sampled: 04/27/05
Date Received: 04/27/05

Date Extracted LCS/LCSD: 05/03/05

Date Analyzed LCS: 05/06/05 09:46
LCSD: 05/06/05 10:06
Instrument/Analyst LCS: NT2/Van
LCSD: NT2/Van

Sample Amount LCS: 500 mL
LCSD: 500 mL
Final Extract Volume LCS: 0.50 mL
LCSD: 0.50 mL
Dilution Factor LCS: 1.00
LCSD: 1.00

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
Phenanthrene	0.28	0.30	93.3%	0.28	0.30	93.3%	0.0%
Chrysene	0.28	0.30	93.3%	0.29	0.30	96.7%	3.5%
Benzo(k)fluoranthene	0.22	0.30	73.3%	0.22	0.30	73.3%	0.0%

SIM Semivolatile Surrogate Recovery

	LCS	LCSD
d10-2-Methylnaphthalene	99.7%	105%
d14-Dibenzo(a,h)anthracene	84.3%	99.7%

Results reported in µg/L
RPD calculated using sample concentrations per SW846.

ANALYTICAL RESOURCES INCORPORATED

SIM SW8270 SURROGATE RECOVERY SUMMARY

Matrix: Surface Water

QC Report No: HZ68-Geomatrix Consultants
Project: SPI EVERETT

Client ID	MNP	DBA	TOT OUT
MB-050305	86.3%	90.0%	0
LCS-050305	99.7%	84.3%	0
LCSD-050305	105%	99.7%	0
OF-02	105%	107%	0
OF-03	95.7%	99.3%	0
OF-05	97.0%	94.0%	0
OF-04	106%	109%	0
OF-01	98.0%	107%	0

	LCS/MB LIMITS	QC LIMITS
(MNP) = d10-2-Methylnaphthalene	(38-109)	(29-112)
(DBA) = d14-Dibenzo(a,h)anthracene	(28-131)	(10-133)

Prep Method: SW3520C
Log Number Range: 05-7314 to 05-7318

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS **Sample ID: LCS-050405**
Page 1 of 1 LCS/LCSD

Lab Sample ID: LCS-050405 QC Report No: HZ68-Geomatrix Consultants
LIMS ID: 05-7314 Project: SPI EVERETT
Matrix: Surface Water
Data Release Authorized:
Reported: 05/10/05 Date Sampled: 04/27/05
Date Received: 04/27/05

Date Extracted LCS/LCSD: 05/04/05 Sample Amount LCS: 500 mL
LCSD: 500 mL
Date Analyzed LCS: 05/09/05 09:57 Final Extract Volume LCS: 0.50 mL
LCSD: 05/09/05 10:30 LCSD: 0.50 mL
Instrument/Analyst LCS: NT4/LJR Dilution Factor LCS: 1.00
LCSD: NT4/LJR LCSD: 1.00
GPC Cleanup: NO

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
Pentachlorophenol	19.7	25.0	78.8%	22.0	25.0	88.0%	11.0%

Semivolatile Surrogate Recovery

	LCS	LCSD
2,4,6-Tribromophenol	100%	97.3%

Results reported in µg/L
RPD calculated using sample concentrations per SW846.

ANALYTICAL RESOURCES INCORPORATED

SW8270 SEMIVOLATILES WATER SURROGATE RECOVERY SUMMARY

Matrix: Surface Water

QC Report No: HZ68-Geomatrix Consultants
Project: SPI EVERETT

Client ID	TBP	TOT OUT
MB-050405	96.0%	0
LCS-050405	100%	0
LCSD-050405	97.3%	0
OF-02	102%	0
OF-03	87.2%	0
OF-05	93.9%	0
OF-04	89.1%	0
OF-01	85.3%	0

	LCS/MB LIMITS	QC LIMITS
(TBP) = 2,4,6-Tribromophenol	(38-116)	(27-136)

Prep Method: SW3520C
Log Number Range: 05-7314 to 05-7318

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
LVI SW8270C SIM GC/MS

Sample ID: OF-02
SAMPLE

Lab Sample ID: HZ68A
LIMS ID: 05-7314
Matrix: Surface Water
Data Release Authorized:
Reported: 05/06/05

QC Report No: HZ68-Geomatrix Consultants
Project: SPI EVERETT

Date Sampled: 04/27/05
Date Received: 04/27/05

Date Extracted: 05/03/05
Date Analyzed: 05/06/05 10:27
Instrument/Analyst: NT2/Van

Sample Amount: 500 mL
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
91-20-3	**Naphthalene**	**0.01**	**0.01 B**
208-96-8	Acenaphthylene	0.01	< 0.01 U
83-32-9	Acenaphthene	0.01	< 0.01 U
86-73-7	Fluorene	0.01	< 0.01 U
85-01-8	Phenanthrene	0.01	< 0.01 U
120-12-7	Anthracene	0.01	< 0.01 U
206-44-0	Fluoranthene	0.01	< 0.01 U
129-00-0	Pyrene	0.01	< 0.01 U
56-55-3	Benzo(a)anthracene	0.01	< 0.01 U
218-01-9	Chrysene	0.01	< 0.01 U
205-99-2	Benzo(b)fluoranthene	0.01	< 0.01 U
207-08-9	Benzo(k)fluoranthene	0.01	< 0.01 U
50-32-8	Benzo(a)pyrene	0.01	< 0.01 U
193-39-5	Indeno(1,2,3-cd)pyrene	0.01	< 0.01 U
53-70-3	Dibenz(a,h)anthracene	0.01	< 0.01 U
191-24-2	Benzo(g,h,i)perylene	0.01	< 0.01 U

Reported in µg/L (ppb)

SIM Semivolatile Surrogate Recovery	
d10-2-Methylnaphthalene	105%
d14-Dibenzo(a,h)anthracene	107%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
LVI SW8270C SIM GC/MS **Sample ID: OF-03**
Page 1 of 1 **SAMPLE**

Lab Sample ID: HZ68B
LIMS ID: 05-7315
Matrix: Surface Water
Data Release Authorized: MW
Reported: 05/06/05

QC Report No: HZ68-Geomatrix Consultants
Project: SPI EVERETT
Date Sampled: 04/27/05
Date Received: 04/27/05

Date Extracted: 05/03/05
Date Analyzed: 05/06/05 10:48
Instrument/Analyst: NT2/Van

Sample Amount: 470 mL
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
91-20-3	**Naphthalene**	**0.01**	**0.13 B**
208-96-8	Acenaphthylene	0.01	< 0.01 U
83-32-9	**Acenaphthene**	**0.01**	**0.06**
86-73-7	**Fluorene**	**0.01**	**0.03**
85-01-8	Phenanthrene	0.01	< 0.01 U
120-12-7	Anthracene	0.01	< 0.01 U
206-44-0	Fluoranthene	0.01	< 0.01 U
129-00-0	Pyrene	0.01	< 0.01 U
56-55-3	Benzo(a)anthracene	0.01	< 0.01 U
218-01-9	Chrysene	0.01	< 0.01 U
205-99-2	Benzo(b)fluoranthene	0.01	< 0.01 U
207-08-9	Benzo(k)fluoranthene	0.01	< 0.01 U
50-32-8	Benzo(a)pyrene	0.01	< 0.01 U
193-39-5	Indeno(1,2,3-cd)pyrene	0.01	< 0.01 U
53-70-3	Dibenz(a,h)anthracene	0.01	< 0.01 U
191-24-2	Benzo(g,h,i)perylene	0.01	< 0.01 U

Reported in µg/L (ppb)

SIM Semivolatile Surrogate Recovery	
d10-2-Methylnaphthalene	95.7%
d14-Dibenzo(a,h)anthracene	99.3%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
LVI SW8270C SIM GC/MS **Sample ID: OF-05**
Page 1 of 1 **SAMPLE**

Lab Sample ID: HZ68C
LIMS ID: 05-7316
Matrix: Surface Water
Data Release Authorized: MW
Reported: 05/06/05

QC Report No: HZ68-Geomatrix Consultants
Project: SPI EVERETT
Date Sampled: 04/27/05
Date Received: 04/27/05

Date Extracted: 05/03/05
Date Analyzed: 05/06/05 11:09
Instrument/Analyst: NT2/Van

Sample Amount: 500 mL
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
91-20-3	**Naphthalene**	**0.01**	**0.01 B**
208-96-8	Acenaphthylene	0.01	< 0.01 U
83-32-9	**Acenaphthene**	**0.01**	**0.01**
86-73-7	Fluorene	0.01	< 0.01 U
85-01-8	Phenanthrene	0.01	< 0.01 U
120-12-7	Anthracene	0.01	< 0.01 U
206-44-0	Fluoranthene	0.01	< 0.01 U
129-00-0	Pyrene	0.01	< 0.01 U
56-55-3	Benzo(a)anthracene	0.01	< 0.01 U
218-01-9	Chrysene	0.01	< 0.01 U
205-99-2	Benzo(b)fluoranthene	0.01	< 0.01 U
207-08-9	Benzo(k)fluoranthene	0.01	< 0.01 U
50-32-8	Benzo(a)pyrene	0.01	< 0.01 U
193-39-5	Indeno(1,2,3-cd)pyrene	0.01	< 0.01 U
53-70-3	Dibenz(a,h)anthracene	0.01	< 0.01 U
191-24-2	Benzo(g,h,i)perylene	0.01	< 0.01 U

Reported in µg/L (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene	97.0%
d14-Dibenzo(a,h)anthracene	94.0%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
LVI SW8270C SIM GC/MS
Page 1 of 1

Sample ID: OF-04
SAMPLE

Lab Sample ID: HZ68D
LIMS ID: 05-7317
Matrix: Surface Water
Data Release Authorized:
Reported: 05/06/05

QC Report No: HZ68-Geomatrix Consultants
Project: SPI EVERETT
Date Sampled: 04/27/05
Date Received: 04/27/05

Date Extracted: 05/03/05
Date Analyzed: 05/06/05 11:29
Instrument/Analyst: NT2/Van

Sample Amount: 500 mL
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
91-20-3	**Naphthalene**	**0.01**	**0.01 JB**
208-96-8	Acenaphthylene	0.01	< 0.01 U
83-32-9	Acenaphthene	0.01	< 0.01 U
86-73-7	Fluorene	0.01	< 0.01 U
85-01-8	Phenanthrene	0.01	< 0.01 U
120-12-7	Anthracene	0.01	< 0.01 U
206-44-0	Fluoranthene	0.01	< 0.01 U
129-00-0	Pyrene	0.01	< 0.01 U
56-55-3	Benzo(a)anthracene	0.01	< 0.01 U
218-01-9	Chrysene	0.01	< 0.01 U
205-99-2	Benzo(b)fluoranthene	0.01	< 0.01 U
207-08-9	Benzo(k)fluoranthene	0.01	< 0.01 U
50-32-8	Benzo(a)pyrene	0.01	< 0.01 U
193-39-5	Indeno(1,2,3-cd)pyrene	0.01	< 0.01 U
53-70-3	Dibenz(a,h)anthracene	0.01	< 0.01 U
191-24-2	Benzo(g,h,i)perylene	0.01	< 0.01 U

Reported in µg/L (ppb)

SIM Semivolatile Surrogate Recovery	
d10-2-Methylnaphthalene	106%
d14-Dibenzo(a,h)anthracene	109%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
LVI SW8270C SIM GC/MS
Page 1 of 1

Sample ID: OF-01
SAMPLE

Lab Sample ID: HZ68E
LIMS ID: 05-7318
Matrix: Surface Water
Data Release Authorized:
Reported: 05/06/05

QC Report No: HZ68-Geomatrix Consultants
Project: SPI EVERETT

Date Sampled: 04/27/05
Date Received: 04/27/05

Date Extracted: 05/03/05
Date Analyzed: 05/06/05 11:50
Instrument/Analyst: NT2/Van

Sample Amount: 500 mL
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
91-20-3	**Naphthalene**	**0.01**	**0.04 B**
208-96-8	Acenaphthylene	0.01	< 0.01 U
83-32-9	**Acenaphthene**	**0.01**	**0.02**
86-73-7	**Fluorene**	**0.01**	**0.01**
85-01-8	**Phenanthrene**	**0.01**	**0.03**
120-12-7	Anthracene	0.01	< 0.01 U
206-44-0	**Fluoranthene**	**0.01**	**0.01**
129-00-0	**Pyrene**	**0.01**	**0.01**
56-55-3	Benzo(a)anthracene	0.01	< 0.01 U
218-01-9	Chrysene	0.01	< 0.01 U
205-99-2	Benzo(b)fluoranthene	0.01	< 0.01 U
207-08-9	Benzo(k)fluoranthene	0.01	< 0.01 U
50-32-8	Benzo(a)pyrene	0.01	< 0.01 U
193-39-5	Indeno(1,2,3-cd)pyrene	0.01	< 0.01 U
53-70-3	Dibenz(a,h)anthracene	0.01	< 0.01 U
191-24-2	Benzo(g,h,i)perylene	0.01	< 0.01 U

Reported in µg/L (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene	98.0%
d14-Dibenzo(a,h)anthracene	107%

ORGANICS ANALYSIS DATA SHEET
LVI SW8270C SIM GC/MS

ANALYTICAL RESOURCES INCORPORATED

Sample ID: MB-050305
METHOD BLANK

Lab Sample ID: MB-050305
LIMS ID: 05-7314
Matrix: Surface Water
Data Release Authorized:
Reported: 05/06/05

QC Report No: HZ68-Geomatrix Consultants
Project: SPI EVERETT

Date Sampled: NA
Date Received: NA

Date Extracted: 05/03/05
Date Analyzed: 05/06/05 09:25
Instrument/Analyst: NT2/Van

Sample Amount: 500 mL
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
91-20-3	**Naphthalene**	**0.01**	**0.01 J**
208-96-8	Acenaphthylene	0.01	< 0.01 U
83-32-9	Acenaphthene	0.01	< 0.01 U
86-73-7	Fluorene	0.01	< 0.01 U
85-01-8	Phenanthrene	0.01	< 0.01 U
120-12-7	Anthracene	0.01	< 0.01 U
206-44-0	Fluoranthene	0.01	< 0.01 U
129-00-0	Pyrene	0.01	< 0.01 U
56-55-3	Benzo(a)anthracene	0.01	< 0.01 U
218-01-9	Chrysene	0.01	< 0.01 U
205-99-2	Benzo(b)fluoranthene	0.01	< 0.01 U
207-08-9	Benzo(k)fluoranthene	0.01	< 0.01 U
50-32-8	Benzo(a)pyrene	0.01	< 0.01 U
193-39-5	Indeno(1,2,3-cd)pyrene	0.01	< 0.01 U
53-70-3	Dibenz(a,h)anthracene	0.01	< 0.01 U
191-24-2	Benzo(g,h,i)perylene	0.01	< 0.01 U

Reported in µg/L (ppb)

SIM Semivolatile Surrogate Recovery	
d10-2-Methylnaphthalene	86.3%
d14-Dibenzo(a,h)anthracene	90.0%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
TOTAL DIESEL RANGE HYDROCARBONS
NWTPHD by GC/FID
Page 1 of 1
Matrix: Surface Water

QC Report No: HZ68-Geomatrix Consultants
Project: SPI EVERETT

Date Received: 04/27/05

Data Release Authorized:
Reported: 05/06/05

ARI ID	Sample ID	Extraction Date	Analysis Date	DL	Range	Result mg/L
MB-050405	Method Blank	05/04/05	05/04/05	1.0	Diesel	< 0.25 U
05-7314	HC ID: ---		FID3A		Motor Oil	< 0.50 U
					o-Terphenyl	94.9%
HZ68A	OF-02	05/04/05	05/04/05	1.0	Diesel	< 0.25 U
05-7314	HC ID: ---		FID3A		Motor Oil	< 0.50 U
					o-Terphenyl	97.3%
HZ68B	OF-03	05/04/05	05/04/05	1.0	Diesel	< 0.25 U
05-7315	HC ID: ---		FID3A		Motor Oil	< 0.50 U
					o-Terphenyl	93.1%
HZ68C	OF-05	05/04/05	05/04/05	1.0	Diesel	< 0.25 U
05-7316	HC ID: ---		FID3A		Motor Oil	< 0.50 U
					o-Terphenyl	87.6%
HZ68D	OF-04	05/04/05	05/04/05	1.0	Diesel	< 0.25 U
05-7317	HC ID: ---		FID3A		Motor Oil	< 0.50 U
					o-Terphenyl	99.1%
HZ68E	OF-01	05/04/05	05/04/05	1.0	Diesel	< 0.25 U
05-7318	HC ID: ---		FID3A		Motor Oil	< 0.50 U
					o-Terphenyl	91.1%

Diesel quantitation on total peaks in the range from C12 to C24.
Motor Oil quantitation on total peaks in the range from C24 to C38.
HC ID: DRO/RRO indicates results of organics or additional hydrocarbons in ranges are not identifiable.

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
NWTPHD by GC/FID

Sample ID: LCS-050405
LCS/LCSD

Lab Sample ID: LCS-050405
LIMS ID: 05-7314
Matrix: Surface Water
Data Release Authorized:
Reported: 05/06/05

QC Report No: HZ68-Geomatrix Consultants
Project: SPI EVERETT

Date Sampled: 04/27/05
Date Received: 04/27/05

Date Extracted LCS/LCSD: 05/04/05

Date Analyzed LCS: 05/04/05 18:13
LCSD: 05/04/05 18:29

Instrument/Analyst LCS: FID/JRains
LCSD: FID/JRains

Sample Amount LCS: 500 mL
LCSD: 500 mL

Final Extract Volume LCS: 1.0 mL
LCSD: 1.0 mL

Dilution Factor LCS: 1.00
LCSD: 1.00

Range	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
Diesel	2.65	3.00	88.3%	2.68	3.00	89.3%	1.1%

TPHD Surrogate Recovery

	LCS	LCSD
o-Terphenyl	91.8%	92.9%

Results reported in mg/L
RPD calculated using sample concentrations per SW846.

ANALYTICAL RESOURCES INCORPORATED

TPHD SURROGATE RECOVERY SUMMARY

Matrix: Surface Water

QC Report No: HZ68-Geomatrix Consultants
Project: SPI EVERETT

Client ID	OTER	TOT OUT
MB-050405	94.9%	0
LCS-050405	91.8%	0
LCSD-050405	92.9%	0
OF-02	97.3%	0
OF-03	93.1%	0
OF-05	87.6%	0
OF-04	99.1%	0
OF-01	91.1%	0

	LCS/MB LIMITS	QC LIMITS
(OTER) = o-Terphenyl	(54-131)	(46-123)

Prep Method: SW3510C
Log Number Range: 05-7314 to 05-7318

ANALYTICAL RESOURCES INCORPORATED

TOTAL DIESEL RANGE HYDROCARBONS-EXTRACTION REPORT

ARI Job: HZ68
Matrix: Surface Water Project: SPI EVERETT
Date Received: 04/27/05

ARI ID	Client ID	Client Amt	Final Vol	Prep Date
05-7314-050405MB1	Method Blank	500 mL	1.00 mL	05/04/05
05-7314-050405LCS1	Lab Control	500 mL	1.00 mL	05/04/05
05-7314-050405LCSD1	Lab Control Dup	500 mL	1.00 mL	05/04/05
05-7314-HZ68A	OF-02	500 mL	1.00 mL	05/04/05
05-7315-HZ68B	OF-03	500 mL	1.00 mL	05/04/05
05-7316-HZ68C	OF-05	500 mL	1.00 mL	05/04/05
05-7317-HZ68D	OF-04	500 mL	1.00 mL	05/04/05
05-7318-HZ68E	OF-01	500 mL	1.00 mL	05/04/05

SAMPLE RESULTS-CONVENTIONALS
HZ68-Geomatrix Consultants

ANALYTICAL RESOURCES INCORPORATED

Matrix: Surface Water
Data Release Authorized:
Reported: 05/10/05

Project: SPI EVERETT
Event: NA
Date Sampled: 04/27/05
Date Received: 04/27/05

Client ID: OF-02
ARI ID: 05-7314 HZ68A

Analyte	Date Batch	Method	Units	RL	Sample
Total Suspended Solids	04/28/05 042805#1	EPA 160.2	mg/L	1.1	2.5

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
HZ68-Geomatrix Consultants

ANALYTICAL RESOURCES INCORPORATED

Matrix: Surface Water
Data Release Authorized: ML
Reported: 05/10/05

Project: SPI EVERETT
Event: NA
Date Sampled: 04/27/05
Date Received: 04/27/05

Client ID: OF-03
ARI ID: 05-7315 HZ68B

Analyte	Date Batch	Method	Units	RL	Sample
Total Suspended Solids	04/28/05 042805#1	EPA 160.2	mg/L	2.2	8.9

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
HZ68-Geomatrix Consultants

ANALYTICAL RESOURCES INCORPORATED

Matrix: Surface Water
Data Release Authorized:
Reported: 05/10/05

Project: SPI EVERETT
Event: NA
Date Sampled: 04/27/05
Date Received: 04/27/05

Client ID: OF-05
ARI ID: 05-7316 HZ68C

Analyte	Date Batch	Method	Units	RL	Sample
Total Suspended Solids	04/28/05 042805#1	EPA 160.2	mg/L	1.3	28.7

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
HZ68-Geomatrix Consultants

ANALYTICAL RESOURCES INCORPORATED

Matrix: Surface Water
Data Release Authorized:
Reported: 05/10/05

Project: SPI EVERETT
Event: NA
Date Sampled: 04/27/05
Date Received: 04/27/05

Client ID: OF-04
ARI ID: 05-7317 HZ68D

Analyte	Date Batch	Method	Units	RL	Sample
Total Suspended Solids	04/28/05 042805#1	EPA 160.2	mg/L	1.0	< 1.0 U

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
HZ68-Geomatrix Consultants

ANALYTICAL RESOURCES INCORPORATED

Matrix: Surface Water
Data Release Authorized:
Reported: 05/10/05

Project: SPI EVERETT
Event: NA
Date Sampled: 04/27/05
Date Received: 04/27/05

Client ID: OF-01
ARI ID: 05-7318 HZ68E

Analyte	Date Batch	Method	Units	RL	Sample
Total Suspended Solids	04/28/05 042805#1	EPA 160.2	mg/L	1.1	11.9

RL Analytical reporting limit
U Undetected at reported detection limit

METHOD BLANK RESULTS-CONVENTIONALS
HZ68-Geomatrix Consultants

ANALYTICAL RESOURCES INCORPORATED

Matrix: Surface Water
Data Release Authorized:
Reported: 05/10/05

Project: SPI EVERETT
Event: NA
Date Sampled: NA
Date Received: NA

Analyte	Date	Units	Blank
Total Suspended Solids	04/28/05	mg/L	< 1.0 U

LAB CONTROL RESULTS-CONVENTIONALS
HZ68-Geomatrix Consultants

ANALYTICAL RESOURCES INCORPORATED

Matrix: Surface Water
Data Release Authorized: BL
Reported: 05/10/05

Project: SPI EVERETT
Event: NA
Date Sampled: NA
Date Received: NA

Analyte	Date	Units	LCS	Spike Added	Recovery
Total Suspended Solids	04/28/05	mg/L	49.6	50.0	99.2%

REPLICATE RESULTS-CONVENTIONALS
HZ68-Geomatrix Consultants

ANALYTICAL RESOURCES INCORPORATED

Matrix: Surface Water
Data Release Authorized:
Reported: 05/10/05

Project: SPI EVERETT
Event: NA
Date Sampled: 04/27/05
Date Received: 04/27/05

Analyte	Date	Units	Sample	Replicate(s)	RPD/RSD
ARI ID: HZ68B Client ID: OF-03					
Total Suspended Solids	04/28/05	mg/L	8.9	8.4	5.8%

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: OF-02
SAMPLE

Lab Sample ID: HZ68A
LIMS ID: 05-7314
Matrix: Surface Water
Data Release Authorized:
Reported: 05/09/05

QC Report No: HZ68-Geomatrix Consultants
Project: SPI EVERETT

Date Sampled: 04/27/05
Date Received: 04/27/05

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
200.8	05/02/05	200.8	05/05/05	7440-38-2	Arsenic	0.2	1.0	
200.8	05/02/05	200.8	05/05/05	7440-43-9	Cadmium	0.2	0.2	U
200.8	05/02/05	200.8	05/05/05	7440-47-3	Chromium	0.5	0.6	
200.8	05/02/05	200.8	05/05/05	7440-50-8	Copper	0.5	2.7	
200.8	05/02/05	200.8	05/05/05	7439-92-1	Lead	1	1	U
200.8	05/02/05	200.8	05/05/05	7440-66-6	Zinc	4	12	

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: OF-03
SAMPLE

Lab Sample ID: HZ68B
LIMS ID: 05-7315
Matrix: Surface Water
Data Release Authorized:
Reported: 05/09/05

QC Report No: HZ68-Geomatrix Consultants
Project: SPI EVERETT

Date Sampled: 04/27/05
Date Received: 04/27/05

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
200.8	05/02/05	200.8	05/05/05	7440-38-2	Arsenic	0.5	22.9	
200.8	05/02/05	200.8	05/05/05	7440-43-9	Cadmium	0.2	0.2	U
200.8	05/02/05	200.8	05/06/05	7440-47-3	Chromium	0.5	1.2	
200.8	05/02/05	200.8	05/05/05	7440-50-8	Copper	0.5	2.9	
200.8	05/02/05	200.8	05/05/05	7439-92-1	Lead	1	1	U
200.8	05/02/05	200.8	05/05/05	7440-66-6	Zinc	4	8	

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: OF-05
SAMPLE

Lab Sample ID: HZ68C
LIMS ID: 05-7316
Matrix: Surface Water
Data Release Authorized:
Reported: 05/09/05

QC Report No: HZ68-Geomatrix Consultants
Project: SPI EVERETT

Date Sampled: 04/27/05
Date Received: 04/27/05

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
200.8	05/02/05	200.8	05/05/05	7440-38-2	Arsenic	0.2	35.8	
200.8	05/02/05	200.8	05/05/05	7440-43-9	Cadmium	0.2	0.2	U
200.8	05/02/05	200.8	05/05/05	7440-47-3	Chromium	0.5	0.6	
200.8	05/02/05	200.8	05/05/05	7440-50-8	Copper	0.5	1.5	
200.8	05/02/05	200.8	05/05/05	7439-92-1	Lead	1	1	U
200.8	05/02/05	200.8	05/05/05	7440-66-6	Zinc	4	4	U

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: OF-04
SAMPLE

Lab Sample ID: HZ68D
LIMS ID: 05-7317
Matrix: Surface Water
Data Release Authorized:
Reported: 05/09/05

QC Report No: HZ68-Geomatrix Consultants
Project: SPI EVERETT

Date Sampled: 04/27/05
Date Received: 04/27/05

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
200.8	05/02/05	200.8	05/05/05	**7440-38-2**	**Arsenic**	0.2	**2.3**	
200.8	05/02/05	200.8	05/05/05	7440-43-9	Cadmium	0.2	0.2	U
200.8	05/02/05	200.8	05/05/05	**7440-47-3**	**Chromium**	0.5	**0.7**	
200.8	05/02/05	200.8	05/05/05	**7440-50-8**	**Copper**	0.5	**1.9**	
200.8	05/02/05	200.8	05/05/05	7439-92-1	Lead	1	1	U
200.8	05/02/05	200.8	05/05/05	7440-66-6	Zinc	4	4	U

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: OF-01
SAMPLE

Lab Sample ID: HZ68E
LIMS ID: 05-7318
Matrix: Surface Water
Data Release Authorized:
Reported: 05/09/05

QC Report No: HZ68-Geomatrix Consultants
Project: SPI EVERETT

Date Sampled: 04/27/05
Date Received: 04/27/05

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
200.8	05/02/05	200.8	05/05/05	7440-38-2	Arsenic	0.2	33.2	
200.8	05/02/05	200.8	05/05/05	7440-43-9	Cadmium	0.2	0.2	U
200.8	05/02/05	200.8	05/05/05	7440-47-3	Chromium	0.5	0.5	U
200.8	05/02/05	200.8	05/05/05	7440-50-8	Copper	0.5	1.2	
200.8	05/02/05	200.8	05/05/05	7439-92-1	Lead	1	1	U
200.8	05/02/05	200.8	05/05/05	7440-66-6	Zinc	4	4	

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: RIVER-01
SAMPLE

Lab Sample ID: HZ68F
LIMS ID: 05-7319
Matrix: Surface Water
Data Release Authorized:
Reported: 05/09/05

QC Report No: HZ68-Geomatrix Consultants
Project: SPI EVERETT

Date Sampled: 04/27/05
Date Received: 04/27/05

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
3010A	05/02/05	6010B	05/04/05	7440-70-2	Calcium	50	10,700	
3010A	05/02/05	6010B	05/04/05	7439-95-4	Magnesium	50	16,200	

Calculated Hardness (mg-CaCO3/L): 93

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: METHOD BLANK

Lab Sample ID: HZ68MB
LIMS ID: 05-7314
Matrix: Surface Water
Data Release Authorized:
Reported: 05/09/05

QC Report No: HZ68-Geomatrix Consultants
Project: SPI EVERETT

Date Sampled: NA
Date Received: NA

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
200.8	05/02/05	200.8	05/05/05	7440-38-2	Arsenic	0.2	0.2	U
200.8	05/02/05	200.8	05/05/05	7440-43-9	Cadmium	0.2	0.2	U
3010A	05/02/05	6010B	05/04/05	7440-70-2	Calcium	50	50	U
200.8	05/02/05	200.8	05/05/05	7440-47-3	Chromium	0.5	0.5	U
200.8	05/02/05	200.8	05/05/05	7440-50-8	Copper	0.5	0.5	U
200.8	05/02/05	200.8	05/05/05	7439-92-1	Lead	1	1	U
3010A	05/02/05	6010B	05/04/05	7439-95-4	Magnesium	50	50	U
200.8	05/02/05	200.8	05/05/05	7440-66-6	Zinc	4	4	U

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: LAB CONTROL

Lab Sample ID: HZ68LCS
LIMS ID: 05-7314
Matrix: Surface Water
Data Release Authorized:
Reported: 05/09/05

QC Report No: HZ68-Geomatrix Consultants
Project: SPI EVERETT

Date Sampled: NA
Date Received: NA

BLANK SPIKE QUALITY CONTROL REPORT

Analyte	Analysis Method	Spike Found	Spike Added	% Recovery	Q
Arsenic	200.8	24.5	25.0	98.0%	
Cadmium	200.8	23.6	25.0	94.4%	
Calcium	6010B	9510	10000	95.1%	
Chromium	200.8	24.4	25.0	97.6%	
Copper	200.8	25.1	25.0	100%	
Lead	200.8	24.6	25.0	98.4%	
Magnesium	6010B	9770	10000	97.7%	
Zinc	200.8	75.6	80.0	94.5%	

Reported in µg/L

N-Control limit not met
Control Limits: 80-120%

Analytical Resources, Incorporated
Analytical Chemists and Consultants

May 16, 2005

Joe Morrice
GeoMatrix Consultants
600 University Suite 1020
Seattle, WA 98101

RE: Project: Everett – Sierra Pacific
ARI Job No: HZ67

Dear Joe:

Please find enclosed a sample custody record (COC) and a set of analytical results for the above referenced project. Analytical Resources, Inc. accepted five sediment samples in good condition on April 27, 2005.

Selected samples were analyzed for NWTPH-D, PCB, PAH, TOC, PCP, and total metals as requested on the COC. Analysis for Dioxins was subcontracted to Pace Analytical of Minnesota. Dioxin data will follow in a separate report.

Please refer to the case narrative for anomalies associated with theses samples.

Quality control analysis results are included for your review. Copies of the reports and all associated raw data will be kept on file electronically at ARI. If you have any questions or require additional information, please contact your project manager.

Sincerely,
ANALYTICAL RESOURCES, INC.

Stephanie Lucas
Project Manager
steph@arilabs.com
(206) 695-6213

H Z67

5-6/2-8

MCS Environmental
6505 – 216th Street SW, Suite 100
Mountlake Terrace, WA 98043
(425) 697-4340 Ext: 2343
Gary Maxwell

CHAIN OF CUSTODY

Place COC Form Number Label Here or write in seq. number below:

Recorded by: GSM

Checked by: GSM

Sample	Date/Time		TPH-D, PCB, PAHs	TOC, PCP, metals		Dioxins								
MCS Environmental, Inc. OF-SED-02 COC Form Initials: GSM Date: 4/27/05 Time: 1130	Date:		\			\								Number of containers
	Time:													Number of Containers with Custody Seal Intact
MCS Environmental, Inc. OF-SED-01 COC Form Initials: GSM Date: 4/27/05 Time: 1220	Date:		\			\								Number of containers
	Time:													Number of Containers with Custody Seal Intact
MCS Environmental, Inc. OF-SED-03 COC Form Initials: GSM Date: 4/27/05 Time: 1310	Date:		\			\								Number of containers
	Time:													Number of Containers with Custody Seal Intact
OF-SED-05 COC Form Initials: GSM Date: 4/27/05 Time: 855	Date:		\			\								Number of containers
	Time:													Number of Containers with Custody Seal Intact
MCS Environmental, Inc. OF-SED-04 COC Form Initials: GSM Date: 4/27/05 [Ti]me: 934	Date:		\			\								Number of containers
	Time:													Number of Containers with Custody Seal Intact
Place Sample ID Label Here or Write ID Number Here	Date:													Number of containers
	Time:													Number of Containers with Custody Seal Intact
Place Sample ID Label Here or Write ID Number Here	Date:													Number of containers
	Time:													Number of Containers with Custody Seal Intact

Laboratory Sample Receipt	
Number of Sample Containers in Shipping Container	
Shipping Container Chain of Custody Seal Intact (Y/N)	
Receipt Condition Comments (e.g., thawed, warm)	

Relinquished By	Transported By	Received By
Name: Gary Maxwell Date: 4-27-05 Time: 1519		Name: [illegible] Date: 4-27-05 Time: 1519
Name: [illegible] Date: 4-27-05 Time: 1712		Name: [illegible] Date: Time: 4/27/05 - 1717
Name: Date: Time:		Name: Date: Time:

Admin\Field Forms\COC

ANALYTICAL
RESOURCES
INCORPORATED

Case Narrative
Everett - Sierra Pacific
ARI Job: HZ67
May 16, 2005

PAH by method 8270C

The soil samples were screened prior to extraction on 5/3/05. The samples were analyzed between 5/5/05 and 5/9/05 within the method recommended holding time

Surrogates: All surrogate recoveries were within ARI calculated control limits.

Method Blank: The method blank was free of analytes of interest.

Samples: Anthracene was "J" flagged in samples **OF-SED-05** and **OF-SED-04.** Pentachlorophenol was "J" flagged in sample **OF-SED-04.** The "J" indicates an estimated concentration when the value is less than ARI's established reporting limit(s).

No other anomalies were associated with these samples.

LCS/LCSD (s): All percent recoveries and RPDs were within control limits.

Low Level PCBs by 8082

The soil samples were screened prior to extraction on 5/3/05. The samples were analyzed on 5/6/05 within the method recommended holding time

Surrogates: All surrogate recoveries were within ARI calculated control limits.

Method Blank: The method blank was free of analytes of interest.

Samples: Aroclor 1260 has a raised reporting limit and has been "Y" flagged in sample **OF-SED-02.** Aroclor 1254 has a raised reporting limit and has been "Y" flagged in sample **OF-SED-01.** The "Y" indicates the analyte is not detected at or above the reported concentration. The reporting limit is raised due to chromatographic interference. The Y flag is equivalent to the U flag with a raised reporting limit.

No other anomalies were associated with these samples.

LCS/LCSD (s): All percent recoveries and RPDs were within control limits.

NWTPH-Dx by WDOE methods

The soil samples were extracted on 5/3/05 and analyzed on 5/4/05 within the method recommended holding time.

Surrogates: All surrogate recoveries were within ARI calculated control limits.

Method Blank: The method blank was free of analytes of interest.

Samples: No anomalies were associated with these samples.

LCS/LCSD (s): All percent recoveries and RPDs were within control limits.

Total Metals by 6010B

The soil samples were prepped on 5/2/05 and analyzed on 5/4/05 within the method recommended holding time.

Method Blank: The method blank was free of contamination.

Samples: No anomalies were associated with these samples.

LCS/Spike Blank: All percent recoveries were in control.

Total Organic Carbon

The samples were analyzed on 4/29/05, 5/2/05 and 5/12/05 within the method recommended holding times.

Method Blank: The method blank was free of contamination.

Samples: No anomalies were associated with these samples.

LCS/SRM/Replicate/MS/MSD: All percent recoveries were in control.

Data Reporting Qualifiers

Effective 12/28/04

Inorganic Data

U Indicates that the target analyte was not detected at the reported concentration

* Duplicate RPD is not within established control limits

B Reported value is less than the CRDL but ≥ the Reporting Limit

N Matrix Spike recovery not within established control limits

NA Not Applicable, analyte not spiked

H The natural concentration of the spiked element is so much greater than the concentration spiked that an accurate determination of spike recovery is not possible

L Analyte concentration is ≤5 times the Reporting Limit and the replicate control limit defaults to ±1 RL instead of the normal 20% RPD

Organic Data

U Indicates that the target analyte was not detected at the reported concentration

* Flagged value is not within established control limits

B Analyte detected in an associated Method Blank at a concentration greater than one-half of ARI's Reporting Limit or 5% of the regulatory limit or 5% of the analyte concentration in the sample.

J Estimated concentration when the value is less than ARI's established reporting limits

D The spiked compound was not detected due to sample extract dilution

NR Spiked compound recovery is not reported due to chromatographic interference

E Estimated concentration calculated for an analyte response above the valid instrument calibration range. A dilution is required to obtain an accurate quantification of the analyte.

S Indicates an analyte response that has saturated the detector. The calculated concentration is not valid; a dilution is required to obtain valid quantification of the analyte

NA The flagged analyte was not analyzed for

NS The flagged analyte was not spiked into the sample

M Estimated value for an analyte detected and confirmed by an analyst but with low spectral match parameters. This flag is used only for GC-MS analyses

N The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification"

Y The analyte is not detected at or above the reported concentration. The reporting limit is raised due to chromatographic interference. The Y flag is equivalent to the U flag with a raised reporting limit.

C The analyte was positively identified on only one of two chromatographic columns. Chromatographic interference prevented a positive identification on the second column

P The analyte was detected on both chromatographic columns but the quantified values differ by ≥40% RPD with no obvious chromatographic interference

Geotechnical Data

SM Sample matrix was not appropriate for the requested analysis. This normally refers to samples contaminated with an organic product that interferes with the sieving process and/or moisture content, porosity and saturation calculations

SS Sample did not contain the proportion of "fines" required to perform the pipette portion of the grain size analysis

W Weight of sample in some pipette aliquots was below the level required for accurate weighting

F Samples were frozen prior to particle size determination

ANALYTICAL RESOURCES INCORPORATED

SW8270 SURROGATE RECOVERY SUMMARY

Matrix: Sediment

QC Report No: HZ67-Geomatrix Consultants
Project:

Client ID	NBZ	FBP	TPH	DCB	PHL	2FP	TBP	2CP	TOT OUT
MB-050305	68.4%	66.8%	80.8%	60.0%	69.6%	68.8%	61.3%	64.0%	0
LCS-050305	67.2%	68.0%	77.6%	58.8%	66.9%	64.8%	59.5%	63.2%	0
LCSD-050305	69.6%	68.8%	76.0%	61.2%	68.3%	68.8%	59.5%	66.4%	0
OF-SED-02	63.6%	62.0%	61.6%	53.2%	63.5%	62.1%	59.7%	62.1%	0
OF-SED-01	71.2%	70.0%	61.6%	56.8%	68.8%	71.2%	66.7%	66.9%	0
OF-SED-03	66.0%	66.8%	54.0%	52.4%	63.2%	65.1%	61.1%	62.7%	0
OF-SED-05	65.6%	65.6%	51.2%	54.0%	62.1%	63.7%	54.4%	60.5%	0
OF-SED-04	56.4%	62.0%	48.4%	45.6%	58.7%	54.7%	55.2%	54.1%	0

	LCS/MB LIMITS	QC LIMITS
(NBZ) = d5-Nitrobenzene	(39-93)	(28-103)
(FBP) = 2-Fluorobiphenyl	(40-95)	(33-104)
(TPH) = d14-p-Terphenyl	(46-116)	(31-120)
(DCB) = d4-1,2-Dichlorobenzene	(41-86)	(30-84)
(PHL) = d5-Phenol	(45-91)	(29-109)
(2FP) = 2-Fluorophenol	(36-100)	(24-112)
(TBP) = 2,4,6-Tribromophenol	(34-110)	(27-134)
(2CP) = d4-2-Chlorophenol	(46-89)	(34-101)

Prep Method: SW3550B
Log Number Range: 05-7309 to 05-7313

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by SW8270 GC/MS
Page 1 of 1

Sample ID: MB-050305
METHOD BLANK

Lab Sample ID: MB-050305
LIMS ID: 05-7309
Matrix: Sediment
Data Release Authorized:
Reported: 05/11/05

QC Report No: HZ67-Geomatrix Consultants
Project:

Date Sampled: NA
Date Received: NA

Date Extracted: 05/03/05
Date Analyzed: 05/05/05 13:23
Instrument/Analyst: NT6/LJR
GPC Cleanup: No

Sample Amount: 25.0 g
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: NA
pH: NA

CAS Number	Analyte	RL	Result
91-20-3	Naphthalene	20	< 20 U
208-96-8	Acenaphthylene	20	< 20 U
83-32-9	Acenaphthene	20	< 20 U
86-73-7	Fluorene	20	< 20 U
87-86-5	Pentachlorophenol	100	< 100 U
85-01-8	Phenanthrene	20	< 20 U
120-12-7	Anthracene	20	< 20 U
206-44-0	Fluoranthene	20	< 20 U
129-00-0	Pyrene	20	< 20 U
56-55-3	Benzo(a)anthracene	20	< 20 U
218-01-9	Chrysene	20	< 20 U
205-99-2	Benzo(b)fluoranthene	20	< 20 U
207-08-9	Benzo(k)fluoranthene	20	< 20 U
50-32-8	Benzo(a)pyrene	20	< 20 U
193-39-5	Indeno(1,2,3-cd)pyrene	20	< 20 U
53-70-3	Dibenz(a,h)anthracene	20	< 20 U
191-24-2	Benzo(g,h,i)perylene	20	< 20 U

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	68.4%	2-Fluorobiphenyl	66.8%
d14-p-Terphenyl	80.8%	d4-1,2-Dichlorobenzene	60.0%
d5-Phenol	69.6%	2-Fluorophenol	68.8%
2,4,6-Tribromophenol	61.3%	d4-2-Chlorophenol	64.0%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by SW8270 GC/MS
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Sample ID: OF-SED-02
SAMPLE

Lab Sample ID: HZ67A
LIMS ID: 05-7309
Matrix: Sediment
Data Release Authorized:
Reported: 05/11/05

QC Report No: HZ67-Geomatrix Consultants
Project:

Date Sampled: 04/27/05
Date Received: 04/27/05

Date Extracted: 05/03/05
Date Analyzed: 05/09/05 18:33
Instrument/Analyst: NT6/LJR
GPC Cleanup: No

Sample Amount: 25.1 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: 49.8%
pH: 7.1

CAS Number	Analyte	RL	Result
91-20-3	Naphthalene	20	26
208-96-8	Acenaphthylene	20	28
83-32-9	Acenaphthene	20	32
86-73-7	Fluorene	20	20
87-86-5	Pentachlorophenol	100	< 100 U
85-01-8	Phenanthrene	20	120
120-12-7	Anthracene	20	130
206-44-0	Fluoranthene	20	1,200
129-00-0	Pyrene	20	910
56-55-3	Benzo(a)anthracene	20	340
218-01-9	Chrysene	20	780
205-99-2	Benzo(b)fluoranthene	20	1,200
207-08-9	Benzo(k)fluoranthene	20	780
50-32-8	Benzo(a)pyrene	20	700
193-39-5	Indeno(1,2,3-cd)pyrene	20	200
53-70-3	Dibenz(a,h)anthracene	20	82
191-24-2	Benzo(g,h,i)perylene	20	200

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	63.6%	2-Fluorobiphenyl	62.0%
d14-p-Terphenyl	61.6%	d4-1,2-Dichlorobenzene	53.2%
d5-Phenol	63.5%	2-Fluorophenol	62.1%
2,4,6-Tribromophenol	59.7%	d4-2-Chlorophenol	62.1%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by SW8270 GC/MS **Sample ID: OF-SED-01**
Page 1 of 1 **SAMPLE**

Lab Sample ID: HZ67B
LIMS ID: 05-7310
Matrix: Sediment
Data Release Authorized:
Reported: 05/11/05

QC Report No: HZ67-Geomatrix Consultants
Project:

Date Sampled: 04/27/05
Date Received: 04/27/05

Date Extracted: 05/03/05
Date Analyzed: 05/09/05 18:02
Instrument/Analyst: NT6/LJR
GPC Cleanup: No

Sample Amount: 25.2 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: 55.9%
pH: 7.1

CAS Number	Analyte	RL	Result
91-20-3	**Naphthalene**	20	35
208-96-8	**Acenaphthylene**	20	24
83-32-9	**Acenaphthene**	20	25
86-73-7	**Fluorene**	20	41
87-86-5	Pentachlorophenol	99	< 99 U
85-01-8	**Phenanthrene**	20	300
120-12-7	**Anthracene**	20	210
206-44-0	**Fluoranthene**	20	900
129-00-0	**Pyrene**	20	530
56-55-3	**Benzo(a)anthracene**	20	240
218-01-9	**Chrysene**	20	600
205-99-2	**Benzo(b)fluoranthene**	20	550
207-08-9	**Benzo(k)fluoranthene**	20	400
50-32-8	**Benzo(a)pyrene**	20	340
193-39-5	**Indeno(1,2,3-cd)pyrene**	20	96
53-70-3	**Dibenz(a,h)anthracene**	20	25
191-24-2	**Benzo(g,h,i)perylene**	20	94

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	71.2%	2-Fluorobiphenyl	70.0%
d14-p-Terphenyl	61.6%	d4-1,2-Dichlorobenzene	56.8%
d5-Phenol	68.8%	2-Fluorophenol	71.2%
2,4,6-Tribromophenol	66.7%	d4-2-Chlorophenol	66.9%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by SW8270 GC/MS
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Sample ID: OF-SED-03
SAMPLE

Lab Sample ID: HZ67C
LIMS ID: 05-7311
Matrix: Sediment
Data Release Authorized:
Reported: 05/11/05

QC Report No: HZ67-Geomatrix Consultants
Project:

Date Sampled: 04/27/05
Date Received: 04/27/05

Date Extracted: 05/03/05
Date Analyzed: 05/09/05 17:30
Instrument/Analyst: NT6/LJR
GPC Cleanup: No

Sample Amount: 25.6 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: 41.9%
pH: 7.0

CAS Number	Analyte	RL	Result
91-20-3	**Naphthalene**	20	27
208-96-8	Acenaphthylene	20	< 20 U
83-32-9	**Acenaphthene**	20	23
86-73-7	**Fluorene**	20	31
87-86-5	Pentachlorophenol	98	< 98 U
85-01-8	**Phenanthrene**	20	130
120-12-7	**Anthracene**	20	45
206-44-0	**Fluoranthene**	20	360
129-00-0	**Pyrene**	20	200
56-55-3	**Benzo(a)anthracene**	20	120
218-01-9	**Chrysene**	20	180
205-99-2	**Benzo(b)fluoranthene**	20	100
207-08-9	**Benzo(k)fluoranthene**	20	110
50-32-8	**Benzo(a)pyrene**	20	68
193-39-5	Indeno(1,2,3-cd)pyrene	20	< 20 U
53-70-3	Dibenz(a,h)anthracene	20	< 20 U
191-24-2	Benzo(g,h,i)perylene	20	< 20 U

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	66.0%	2-Fluorobiphenyl	66.8%
d14-p-Terphenyl	54.0%	d4-1,2-Dichlorobenzene	52.4%
d5-Phenol	63.2%	2-Fluorophenol	65.1%
2,4,6-Tribromophenol	61.1%	d4-2-Chlorophenol	62.7%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by SW8270 GC/MS

Sample ID: OF-SED-05
SAMPLE

Lab Sample ID: HZ67D
LIMS ID: 05-7312
Matrix: Sediment
Data Release Authorized:
Reported: 05/11/05

QC Report No: HZ67-Geomatrix Consultants
Project:

Date Sampled: 04/27/05
Date Received: 04/27/05

Date Extracted: 05/03/05
Date Analyzed: 05/09/05 16:59
Instrument/Analyst: NT6/LJR
GPC Cleanup: No

Sample Amount: 25.0 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: 41.8%
pH: 7.3

CAS Number	Analyte	RL	Result
91-20-3	Naphthalene	20	< 20 U
208-96-8	Acenaphthylene	20	< 20 U
83-32-9	Acenaphthene	20	< 20 U
86-73-7	Fluorene	20	< 20 U
87-86-5	Pentachlorophenol	100	< 100 U
85-01-8	**Phenanthrene**	**20**	**56**
120-12-7	**Anthracene**	**20**	**20 J**
206-44-0	**Fluoranthene**	**20**	**94**
129-00-0	**Pyrene**	**20**	**47**
56-55-3	**Benzo(a)anthracene**	**20**	**26**
218-01-9	**Chrysene**	**20**	**38**
205-99-2	**Benzo(b)fluoranthene**	**20**	**36**
207-08-9	**Benzo(k)fluoranthene**	**20**	**32**
50-32-8	**Benzo(a)pyrene**	**20**	**22**
193-39-5	Indeno(1,2,3-cd)pyrene	20	< 20 U
53-70-3	Dibenz(a,h)anthracene	20	< 20 U
191-24-2	Benzo(g,h,i)perylene	20	< 20 U

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	65.6%	2-Fluorobiphenyl	65.6%
d14-p-Terphenyl	51.2%	d4-1,2-Dichlorobenzene	54.0%
d5-Phenol	62.1%	2-Fluorophenol	63.7%
2,4,6-Tribromophenol	54.4%	d4-2-Chlorophenol	60.5%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by SW8270 GC/MS

Sample ID: OF-SED-04
SAMPLE

Lab Sample ID: HZ67E
LIMS ID: 05-7313
Matrix: Sediment
Data Release Authorized:
Reported: 05/11/05

QC Report No: HZ67-Geomatrix Consultants
Project:

Date Sampled: 04/27/05
Date Received: 04/27/05

Date Extracted: 05/03/05
Date Analyzed: 05/09/05 16:27
Instrument/Analyst: NT6/LJR
GPC Cleanup: No

Sample Amount: 25.1 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: 26.1%
pH: 7.5

CAS Number	Analyte	RL	Result
91-20-3	Naphthalene	20	< 20 U
208-96-8	**Acenaphthylene**	**20**	**22**
83-32-9	Acenaphthene	20	< 20 U
86-73-7	Fluorene	20	< 20 U
87-86-5	**Pentachlorophenol**	**100**	**20 J**
85-01-8	**Phenanthrene**	**20**	**35**
120-12-7	**Anthracene**	**20**	**20 J**
206-44-0	**Fluoranthene**	**20**	**110**
129-00-0	**Pyrene**	**20**	**98**
56-55-3	**Benzo(a)anthracene**	**20**	**49**
218-01-9	**Chrysene**	**20**	**63**
205-99-2	**Benzo(b)fluoranthene**	**20**	**32**
207-08-9	**Benzo(k)fluoranthene**	**20**	**42**
50-32-8	**Benzo(a)pyrene**	**20**	**43**
193-39-5	Indeno(1,2,3-cd)pyrene	20	< 20 U
53-70-3	Dibenz(a,h)anthracene	20	< 20 U
191-24-2	Benzo(g,h,i)perylene	20	< 20 U

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d5-Nitrobenzene	56.4%	2-Fluorobiphenyl	62.0%
d14-p-Terphenyl	48.4%	d4-1,2-Dichlorobenzene	45.6%
d5-Phenol	58.7%	2-Fluorophenol	54.7%
2,4,6-Tribromophenol	55.2%	d4-2-Chlorophenol	54.1%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PSDDA Semivolatiles by GC/MS
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Sample ID: LCS-050305
LCS/LCSD

Lab Sample ID: LCS-050305
LIMS ID: 05-7309
Matrix: Sediment
Data Release Authorized:
Reported: 05/11/05

QC Report No: HZ67-Geomatrix Consultants
Project:

Date Sampled: 04/27/05
Date Received: 04/27/05

Date Extracted LCS/LCSD: 05/03/05

Date Analyzed LCS: 05/05/05 13:55
LCSD: 05/05/05 14:27
Instrument/Analyst LCS: NT6/LJR
LCSD: NT6/LJR
GPC Cleanup: NO

Sample Amount LCS: 25.0 g
LCSD: 25.0 g
Final Extract Volume LCS: 0.5 mL
LCSD: 0.5 mL
Dilution Factor LCS: 1.00
LCSD: 1.00
Percent Moisture: NA
pH: NA

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
Acenaphthene	328	500	65.6%	376	500	75.2%	13.6%
Pentachlorophenol	479	750	63.9%	532	750	70.9%	10.5%
Pyrene	370	500	74.0%	397	500	79.4%	7.0%

Semivolatile Surrogate Recovery

	LCS	LCSD
d5-Nitrobenzene	67.2%	69.6%
2-Fluorobiphenyl	68.0%	68.8%
d14-p-Terphenyl	77.6%	76.0%
d4-1,2-Dichlorobenzene	58.8%	61.2%
d5-Phenol	66.9%	68.3%
2-Fluorophenol	64.8%	68.8%
2,4,6-Tribromophenol	59.5%	59.5%
d4-2-Chlorophenol	63.2%	66.4%

Results reported in µg/kg
RPD calculated using sample concentrations per SW846.

ANALYTICAL RESOURCES INCORPORATED

SW8082/PCB SOIL/SEDIMENTS SURROGATE RECOVERY SUMMARY

Matrix: Sediment

QC Report No: HZ67-Geomatrix Consultants
Project:

Client ID	DCBP	TCMX	TOT OUT
MB-050305	63.2%	58.8%	0
LCS-050305	69.8%	75.0%	0
LCSD-050305	63.5%	78.0%	0
OF-SED-02	50.5%	79.2%	0
OF-SED-01	65.0%	82.2%	0
OF-SED-03	62.0%	72.8%	0
OF-SED-05	69.8%	80.2%	0
OF-SED-04	59.8%	65.8%	0

	LCS/MB LIMITS	QC LIMITS
(DCBP) = Decachlorobiphenyl	(49-140)	(30-164)
(TCMX) = Tetrachlorometaxylene	(30-135)	(26-143)

Prep Method: SW3550B
Log Number Range: 05-7309 to 05-7313

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082
Page 1 of 1

Sample ID: MB-050305
METHOD BLANK

Lab Sample ID: MB-050305
LIMS ID: 05-7309
Matrix: Sediment
Data Release Authorized:
Reported: 05/10/05

QC Report No: HZ67-Geomatrix Consultants
Project:

Date Sampled: NA
Date Received: NA

Date Extracted: 05/03/05
Date Analyzed: 05/06/05 03:02
Instrument/Analyst: ECD4/Yev
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes

Sample Amount: 25.0 g
Final Extract Volume: 1.0 mL
Dilution Factor: 1.00
Silica Gel: No
pH: NA
Percent Moisture: NA

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	4.0	< 4.0 U
53469-21-9	Aroclor 1242	4.0	< 4.0 U
12672-29-6	Aroclor 1248	4.0	< 4.0 U
11097-69-1	Aroclor 1254	4.0	< 4.0 U
11096-82-5	Aroclor 1260	4.0	< 4.0 U
11104-28-2	Aroclor 1221	4.0	< 4.0 U
11141-16-5	Aroclor 1232	4.0	< 4.0 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	63.2%
Tetrachlorometaxylene	58.8%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082
Page 1 of 1

Sample ID: OF-SED-02
SAMPLE

Lab Sample ID: HZ67A
LIMS ID: 05-7309
Matrix: Sediment
Data Release Authorized:
Reported: 05/10/05

QC Report No: HZ67-Geomatrix Consultants
Project:

Date Sampled: 04/27/05
Date Received: 04/27/05

Date Extracted: 05/03/05
Date Analyzed: 05/06/05 04:13
Instrument/Analyst: ECD4/Yev
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes

Sample Amount: 25.2 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1.00
Silica Gel: No
pH: 7.1
Percent Moisture: 49.8%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	4.0	< 4.0 U
53469-21-9	Aroclor 1242	4.0	< 4.0 U
12672-29-6	Aroclor 1248	4.0	< 4.0 U
11097-69-1	**Aroclor 1254**	**4.0**	**13**
11096-82-5	Aroclor 1260	10	< 10 Y
11104-28-2	Aroclor 1221	4.0	< 4.0 U
11141-16-5	Aroclor 1232	4.0	< 4.0 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	50.5%
Tetrachlorometaxylene	79.2%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082
Page 1 of 1

Sample ID: OF-SED-01
SAMPLE

Lab Sample ID: HZ67B
LIMS ID: 05-7310
Matrix: Sediment
Data Release Authorized:
Reported: 05/10/05

QC Report No: HZ67-Geomatrix Consultants
Project:

Date Sampled: 04/27/05
Date Received: 04/27/05

Date Extracted: 05/03/05
Date Analyzed: 05/06/05 04:37
Instrument/Analyst: ECD4/Yev
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes

Sample Amount: 25.4 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1.00
Silica Gel: No
pH: 7.1
Percent Moisture: 55.9%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	3.9	< 3.9 U
53469-21-9	Aroclor 1242	3.9	< 3.9 U
12672-29-6	Aroclor 1248	3.9	< 3.9 U
11097-69-1	Aroclor 1254	9.4	< 9.4 Y
11096-82-5	Aroclor 1260	3.9	< 3.9 U
11104-28-2	Aroclor 1221	3.9	< 3.9 U
11141-16-5	Aroclor 1232	3.9	< 3.9 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	65.0%
Tetrachlorometaxylene	82.2%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082
Page 1 of 1

Sample ID: OF-SED-03
SAMPLE

Lab Sample ID: HZ67C
LIMS ID: 05-7311
Matrix: Sediment
Data Release Authorized:
Reported: 05/10/05

QC Report No: HZ67-Geomatrix Consultants
Project:

Date Sampled: 04/27/05
Date Received: 04/27/05

Date Extracted: 05/03/05
Date Analyzed: 05/06/05 05:01
Instrument/Analyst: ECD4/Yev
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes

Sample Amount: 25.7 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1.00
Silica Gel: No
pH: 7.0
Percent Moisture: 41.9%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	3.9	< 3.9 U
53469-21-9	Aroclor 1242	3.9	< 3.9 U
12672-29-6	Aroclor 1248	3.9	< 3.9 U
11097-69-1	Aroclor 1254	3.9	< 3.9 U
11096-82-5	Aroclor 1260	3.9	< 3.9 U
11104-28-2	Aroclor 1221	3.9	< 3.9 U
11141-16-5	Aroclor 1232	3.9	< 3.9 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	62.0%
Tetrachlorometaxylene	72.8%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082
Page 1 of 1

Sample ID: OF-SED-05
SAMPLE

Lab Sample ID: HZ67D
LIMS ID: 05-7312
Matrix: Sediment
Data Release Authorized:
Reported: 05/10/05

QC Report No: HZ67-Geomatrix Consultants
Project:

Date Sampled: 04/27/05
Date Received: 04/27/05

Date Extracted: 05/03/05
Date Analyzed: 05/06/05 05:24
Instrument/Analyst: ECD4/Yev
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes

Sample Amount: 25.3 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1.00
Silica Gel: No
pH: 7.3
Percent Moisture: 41.8%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	4.0	< 4.0 U
53469-21-9	Aroclor 1242	4.0	< 4.0 U
12672-29-6	Aroclor 1248	4.0	< 4.0 U
11097-69-1	Aroclor 1254	4.0	< 4.0 U
11096-82-5	Aroclor 1260	4.0	< 4.0 U
11104-28-2	Aroclor 1221	4.0	< 4.0 U
11141-16-5	Aroclor 1232	4.0	< 4.0 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery	
Decachlorobiphenyl	69.8%
Tetrachlorometaxylene	80.2%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082
Page 1 of 1

Sample ID: OF-SED-04
SAMPLE

Lab Sample ID: HZ67E
LIMS ID: 05-7313
Matrix: Sediment
Data Release Authorized:
Reported: 05/10/05

QC Report No: HZ67-Geomatrix Consultants
Project:

Date Sampled: 04/27/05
Date Received: 04/27/05

Date Extracted: 05/03/05
Date Analyzed: 05/06/05 05:48
Instrument/Analyst: ECD4/Yev
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes

Sample Amount: 25.6 g-dry-wt
Final Extract Volume: 1.0 mL
Dilution Factor: 1.00
Silica Gel: No
pH: 7.5
Percent Moisture: 26.1%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	3.9	< 3.9 U
53469-21-9	Aroclor 1242	3.9	< 3.9 U
12672-29-6	Aroclor 1248	3.9	< 3.9 U
11097-69-1	Aroclor 1254	3.9	< 3.9 U
11096-82-5	Aroclor 1260	3.9	< 3.9 U
11104-28-2	Aroclor 1221	3.9	< 3.9 U
11141-16-5	Aroclor 1232	3.9	< 3.9 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery	
Decachlorobiphenyl	59.8%
Tetrachlorometaxylene	65.8%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD MethodSW8082
Page 1 of 1

Sample ID: LCS-050305
LCS/LCSD

Lab Sample ID: LCS-050305
LIMS ID: 05-7309
Matrix: Sediment
Data Release Authorized:
Reported: 05/10/05

QC Report No: HZ67-Geomatrix Consultants
Project:

Date Sampled: NA
Date Received: NA

Date Extracted LCS/LCSD: 05/03/05

Date Analyzed LCS: 05/06/05 03:26
LCSD: 05/06/05 03:49
Instrument/Analyst LCS: ECD4/Yev
LCSD: ECD4/Yev
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes

Sample Amount LCS: 25.0 g-dry-wt
LCSD: 25.0 g-dry-wt
Final Extract Volume LCS: 1.0 mL
LCSD: 1.0 mL
Dilution Factor LCS: 1.00
LCSD: 1.00
Silica Gel: No
pH: NA
Percent Moisture: NA

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
Aroclor 1016	10.5	20.2	52.1%	12.9	20.2	64.0%	20.5%
Aroclor 1260	11.6	20.2	57.5%	14.0	20.2	69.4%	18.8%

PCB Surrogate Recovery

	LCS	LCSD
Decachlorobiphenyl	69.8%	63.5%
Tetrachlorometaxylene	75.0%	78.0%

Results reported in µg/kg (ppb)
RPD calculated using sample concentrations per SW846.

ANALYTICAL RESOURCES INCORPORATED

TPHD SURROGATE RECOVERY SUMMARY

Matrix: Sediment

QC Report No: HZ67-Geomatrix Consultants
Project:

Client ID	OTER	TOT OUT
050305MBS	86.7%	0
050305LCS	80.0%	0
050305LCSD	83.8%	0
OF-SED-02	92.2%	0
OF-SED-01	68.4%	0
OF-SED-03	82.2%	0
OF-SED-05	68.7%	0
OF-SED-04	79.3%	0

	LCS/MB LIMITS	QC LIMITS
(OTER) = o-Terphenyl	(39-134)	(26-128)

Prep Method: SW3550B
Log Number Range: 05-7309 to 05-7313

FORM-II TPHD

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
TOTAL DIESEL RANGE HYDROCARBONS
NWTPHD by GC/FID
Page 1 of 1
Matrix: Sediment

QC Report No: HZ67-Geomatrix Consultants
Project:

Date Received: 04/27/05

Data Release Authorized:
Reported: 05/06/05

ARI ID	Sample ID	Extraction Date	Analysis Date	DL	Range	Result
MB-050305	Method Blank	05/03/05	05/04/05	1.0	Diesel	< 5.0 U
05-7309	HC ID: ---		FID3A		Motor Oil	< 10 U
					o-Terphenyl	86.7%
HZ67A	OF-SED-02	05/03/05	05/04/05	1.0	**Diesel**	**17**
05-7309	HC ID: **DRO/RRO**		FID3A		**Motor Oil**	**63**
					o-Terphenyl	92.2%
HZ67B	OF-SED-01	05/03/05	05/04/05	1.0	**Diesel**	**15**
05-7310	HC ID: **DRO/RRO**		FID3A		**Motor Oil**	**61**
					o-Terphenyl	68.4%
HZ67C	OF-SED-03	05/03/05	05/04/05	1.0	Diesel	< 8.6 U
05-7311	HC ID: ---		FID3A		Motor Oil	< 17 U
					o-Terphenyl	82.2%
HZ67D	OF-SED-05	05/03/05	05/04/05	1.0	Diesel	< 8.6 U
05-7312	HC ID: ---		FID3A		Motor Oil	< 17 U
					o-Terphenyl	68.7%
HZ67E	OF-SED-04	05/03/05	05/04/05	1.0	**Diesel**	**8.9**
05-7313	HC ID: **DRO/MOTOR OIL**		FID3A		**Motor Oil**	**39**
					o-Terphenyl	79.3%

Reported in mg/kg (ppm)

Diesel quantitation on total peaks in the range from C12 to C24.
Motor Oil quantitation on total peaks in the range from C24 to C38.
HC ID: DRO/RRO indicates results of organics or additional hydrocarbons in ranges are not identifiable.

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
NWTPHD by GC/FID

Sample ID: LCS-050305
LCS/LCSD

Lab Sample ID: LCS-050305
LIMS ID: 05-7309
Matrix: Sediment
Data Release Authorized:
Reported: 05/06/05

QC Report No: HZ67-Geomatrix Consultants
Project:

Date Sampled: 04/27/05
Date Received: 04/27/05

Date Extracted LCS/LCSD: 05/03/05

Date Analyzed LCS: 05/04/05 14:20
LCSD: 05/04/05 14:35
Instrument/Analyst LCS: FID/JRains
LCSD: FID/JRains

Sample Amount LCS: 10.0 g
LCSD: 10.0 g
Final Extract Volume LCS: 1.0 mL
LCSD: 1.0 mL
Dilution Factor LCS: 1.00
LCSD: 1.00

Range	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
Diesel	116	150	77.3%	121	150	80.7%	4.2%

TPHD Surrogate Recovery

	LCS	LCSD
o-Terphenyl	80.0%	83.8%

Results reported in mg/kg
RPD calculated using sample concentrations per SW846.

ANALYTICAL RESOURCES INCORPORATED

TOTAL DIESEL RANGE HYDROCARBONS-EXTRACTION REPORT

ARI Job: HZ67
Matrix: Sediment
Project:
Date Received: 04/27/05

ARI ID	Client ID	Client Amt	Final Vol	Basis	Prep Date
05-7309-050305MB1	Method Blank	10.0 g	1.00 mL	-	05/03/05
05-7309-050305LCS1	Lab Control	10.0 g	1.00 mL	-	05/03/05
05-7309-050305LCSD1	Lab Control Dup	10.0 g	1.00 mL	-	05/03/05
05-7309-HZ67A	OF-SED-02	5.02 g	1.00 mL	D	05/03/05
05-7310-HZ67B	OF-SED-01	4.43 g	1.00 mL	D	05/03/05
05-7311-HZ67C	OF-SED-03	5.83 g	1.00 mL	D	05/03/05
05-7312-HZ67D	OF-SED-05	5.84 g	1.00 mL	D	05/03/05
05-7313-HZ67E	OF-SED-04	7.42 g	1.00 mL	D	05/03/05

Basis: D=Dry Weight W=As Received

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: OF-SED-02
SAMPLE

Lab Sample ID: HZ67A
LIMS ID: 05-7309
Matrix: Sediment
Data Release Authorized:
Reported: 05/05/05

QC Report No: HZ67-Geomatrix Consultants
Project:

Date Sampled: 04/27/05
Date Received: 04/27/05

Percent Total Solids: 48.5%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	05/02/05	6010B	05/04/05	7440-38-2	Arsenic	10	20	
3050B	05/02/05	6010B	05/04/05	7440-43-9	Cadmium	0.4	0.4	U
3050B	05/02/05	6010B	05/04/05	7440-47-3	Chromium	1	50	
3050B	05/02/05	6010B	05/04/05	7440-50-8	Copper	0.4	58.1	
3050B	05/02/05	6010B	05/04/05	7439-92-1	Lead	4	14	
3050B	05/02/05	6010B	05/04/05	7440-66-6	Zinc	1	90	

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: OF-SED-01
SAMPLE

Lab Sample ID: HZ67B
LIMS ID: 05-7310
Matrix: Sediment
Data Release Authorized:
Reported: 05/05/05

QC Report No: HZ67-Geomatrix Consultants
Project:

Date Sampled: 04/27/05
Date Received: 04/27/05

Percent Total Solids: 44.8%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	05/02/05	6010B	05/04/05	7440-38-2	Arsenic	10	30	
3050B	05/02/05	6010B	05/04/05	7440-43-9	Cadmium	0.4	0.4	U
3050B	05/02/05	6010B	05/04/05	7440-47-3	Chromium	1	55	
3050B	05/02/05	6010B	05/04/05	7440-50-8	Copper	0.4	76.7	
3050B	05/02/05	6010B	05/04/05	7439-92-1	Lead	4	18	
3050B	05/02/05	6010B	05/04/05	7440-66-6	Zinc	1	95	

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: OF-SED-03
SAMPLE

Lab Sample ID: HZ67C
LIMS ID: 05-7311
Matrix: Sediment
Data Release Authorized:
Reported: 05/05/05

QC Report No: HZ67-Geomatrix Consultants
Project:

Date Sampled: 04/27/05
Date Received: 04/27/05

Percent Total Solids: 58.7%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	05/02/05	6010B	05/04/05	7440-38-2	Arsenic	8	15	
3050B	05/02/05	6010B	05/04/05	7440-43-9	Cadmium	0.3	0.3	U
3050B	05/02/05	6010B	05/04/05	7440-47-3	Chromium	0.8	43.2	
3050B	05/02/05	6010B	05/04/05	7440-50-8	Copper	0.3	45.5	
3050B	05/02/05	6010B	05/04/05	7439-92-1	Lead	3	11	
3050B	05/02/05	6010B	05/04/05	7440-66-6	Zinc	0.9	71.6	

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: OF-SED-05
SAMPLE

Lab Sample ID: HZ67D
LIMS ID: 05-7312
Matrix: Sediment
Data Release Authorized:
Reported: 05/05/05

QC Report No: HZ67-Geomatrix Consultants
Project:

Date Sampled: 04/27/05
Date Received: 04/27/05

Percent Total Solids: 58.8%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	05/02/05	6010B	05/04/05	7440-38-2	Arsenic	8	22	
3050B	05/02/05	6010B	05/04/05	7440-43-9	Cadmium	0.3	0.3	U
3050B	05/02/05	6010B	05/04/05	7440-47-3	Chromium	0.8	43.4	
3050B	05/02/05	6010B	05/04/05	7440-50-8	Copper	0.3	51.1	
3050B	05/02/05	6010B	05/04/05	7439-92-1	Lead	3	13	
3050B	05/02/05	6010B	05/04/05	7440-66-6	Zinc	1	73	

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: OF-SED-04
SAMPLE

Lab Sample ID: HZ67E
LIMS ID: 05-7313
Matrix: Sediment
Data Release Authorized:
Reported: 05/05/05

QC Report No: HZ67-Geomatrix Consultants
Project:

Date Sampled: 04/27/05
Date Received: 04/27/05

Percent Total Solids: 74.8%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	05/02/05	6010B	05/04/05	7440-38-2	Arsenic	6	14	
3050B	05/02/05	6010B	05/04/05	7440-43-9	Cadmium	0.2	0.2	U
3050B	05/02/05	6010B	05/04/05	7440-47-3	Chromium	0.6	30.5	
3050B	05/02/05	6010B	05/04/05	7440-50-8	Copper	0.2	32.7	
3050B	05/02/05	6010B	05/04/05	7439-92-1	Lead	2	36	
3050B	05/02/05	6010B	05/04/05	7440-66-6	Zinc	0.7	57.6	

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: METHOD BLANK

Lab Sample ID: HZ67MB
LIMS ID: 05-7309
Matrix: Sediment
Data Release Authorized:
Reported: 05/05/05

QC Report No: HZ67-Geomatrix Consultants
Project:

Date Sampled: NA
Date Received: NA

Percent Total Solids: NA

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	05/02/05	6010B	05/04/05	7440-38-2	Arsenic	5	5	U
3050B	05/02/05	6010B	05/04/05	7440-43-9	Cadmium	0.2	0.2	U
3050B	05/02/05	6010B	05/04/05	7440-47-3	Chromium	0.5	0.5	U
3050B	05/02/05	6010B	05/04/05	7440-50-8	Copper	0.2	0.2	U
3050B	05/02/05	6010B	05/04/05	7439-92-1	Lead	2	2	U
3050B	05/02/05	6010B	05/04/05	7440-66-6	Zinc	0.6	0.6	U

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: LAB CONTROL

Lab Sample ID: HZ67LCS
LIMS ID: 05-7309
Matrix: Sediment
Data Release Authorized:
Reported: 05/05/05

QC Report No: HZ67-Geomatrix Consultants
Project:

Date Sampled: NA
Date Received: NA

BLANK SPIKE QUALITY CONTROL REPORT

Analyte	Analysis Method	Spike Found	Spike Added	% Recovery	Q
Arsenic	6010B	215	200	108%	
Cadmium	6010B	52.9	50.0	106%	
Chromium	6010B	49.6	50.0	99.2%	
Copper	6010B	51.6	50.0	103%	
Lead	6010B	207	200	104%	
Zinc	6010B	49.3	50.0	98.6%	

Reported in mg/kg-dry

N-Control limit not met
Control Limits: 80-120%

SAMPLE RESULTS-CONVENTIONALS
HZ67-Geomatrix Consultants

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 05/16/05

Project: NA
Event: NA
Date Sampled: 04/27/05
Date Received: 04/27/05

Client ID: OF-SED-02
ARI ID: 05-7309 HZ67A

Analyte	Date	Method	Units	RL	Sample
Total Solids	04/28/05 042805#1	EPA 160.3	Percent	0.01	49.80
Total Organic Carbon	05/02/05 050205#1	Plumb,1981	Percent	0.020	3.68

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
HZ67-Geomatrix Consultants

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized: MK
Reported: 05/16/05

Project: NA
Event: NA
Date Sampled: 04/27/05
Date Received: 04/27/05

Client ID: OF-SED-01
ARI ID: 05-7310 HZ67B

Analyte	Date	Method	Units	RL	Sample
Total Solids	04/28/05 042805#1	EPA 160.3	Percent	0.01	42.70
Total Organic Carbon	04/29/05 042905#1	Plumb,1981	Percent	0.020	4.56

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
HZ67-Geomatrix Consultants

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 05/16/05

Project: NA
Event: NA
Date Sampled: 04/27/05
Date Received: 04/27/05

Client ID: OF-SED-03
ARI ID: 05-7311 HZ67C

Analyte	Date	Method	Units	RL	Sample
Total Solids	04/28/05 042805#1	EPA 160.3	Percent	0.01	56.20
Total Organic Carbon	04/29/05 042905#1	Plumb,1981	Percent	0.020	1.69

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
HZ67-Geomatrix Consultants

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 05/16/05

Project: NA
Event: NA
Date Sampled: 04/27/05
Date Received: 04/27/05

Client ID: OF-SED-05
ARI ID: 05-7312 HZ67D

Analyte	Date	Method	Units	RL	Sample
Total Solids	04/28/05 042805#1	EPA 160.3	Percent	0.01	58.10
Total Organic Carbon	05/12/05 051205#1	Plumb,1981	Percent	0.020	1.05

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
HZ67-Geomatrix Consultants

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 05/16/05

Project: NA
Event: NA
Date Sampled: 04/27/05
Date Received: 04/27/05

Client ID: OF-SED-04
ARI ID: 05-7313 HZ67E

Analyte	Date	Method	Units	RL	Sample
Total Solids	04/28/05 042805#1	EPA 160.3	Percent	0.01	72.80
Total Organic Carbon	05/12/05 051205#1	Plumb,1981	Percent	0.020	0.585

RL Analytical reporting limit
U Undetected at reported detection limit

METHOD BLANK RESULTS-CONVENTIONALS
HZ67-Geomatrix Consultants

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 05/16/05

Project: NA
Event: NA
Date Sampled: NA
Date Received: NA

Analyte	Date	Units	Blank
Total Solids	04/28/05	Percent	< 0.01 U
	04/28/05		< 0.01 U
Total Organic Carbon	04/29/05	Percent	< 0.020 U
	05/02/05		< 0.020 U
	05/12/05		< 0.020 U

LAB CONTROL RESULTS-CONVENTIONALS
HZ67-Geomatrix Consultants

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 05/16/05

Project: NA
Event: NA
Date Sampled: NA
Date Received: NA

Analyte	Date	Units	LCS	Spike Added	Recovery
Total Organic Carbon	04/29/05	Percent	0.530	0.500	106.0%
	05/02/05		0.548	0.500	109.6%
	05/12/05		0.483	0.500	96.6%

STANDARD REFERENCE RESULTS-CONVENTIONALS
HZ67-Geomatrix Consultants

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized
Reported: 05/16/05

Project: NA
Event: NA
Date Sampled: NA
Date Received: NA

Analyte/SRM ID	Date	Units	SRM	True Value	Recovery
Total Organic Carbon	04/29/05	Percent	3.37	3.35	100.6%
NIST #8704	05/02/05		3.08	3.35	91.9%
	05/12/05		3.05	3.35	91.0%

REPLICATE RESULTS-CONVENTIONALS
HZ67-Geomatrix Consultants

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 05/16/05

Project: NA
Event: NA
Date Sampled: 04/27/05
Date Received: 04/27/05

Analyte	Date	Units	Sample	Replicate(s)	RPD/RSD
ARI ID: HZ67A Client ID: OF-SED-02					
Total Solids	04/28/05	Percent	49.80	48.40 49.80	1.6%
Total Organic Carbon	05/02/05	Percent	3.68	3.03 3.34	9.7%

MS/MSD RESULTS-CONVENTIONALS
HZ67-Geomatrix Consultants

ANALYTICAL RESOURCES INCORPORATED

Matrix: Sediment
Data Release Authorized:
Reported: 05/16/05

Project: NA
Event: NA
Date Sampled: 04/27/05
Date Received: 04/27/05

Analyte	Date	Units	Sample	Spike	Spike Added	Recovery
ARI ID: HZ67A Client ID: OF-SED-02						
Total Organic Carbon	05/02/05	Percent	3.68	8.14	4.58	97.4%

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1700 Elm Street
Minneapolis, MN 55414
Phone: 612.607.1700
Fax: 612.607.6444

DETERMINATION OF PCDD/PCDF LEVELS

Prepared for:
Analytical Resources, Inc.
Attn: ~~Mary Lou Fox~~ Stephanie Lucas
4611 South 134th Place, Suite 100
Tukwila, WA 98168

ACCREDITED IN ACCORDANCE WITH nelac

This report contains 19 pages.

The results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

Client Project Number: HZ67

Client Purchase Order Number: NA

REPORT OF LABORATORY ANALYSIS

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REPORT OF: CHEMICAL ANALYSES

Pace Analytical Services, Inc.
1700 Elm Street
Minneapolis, MN 55414
Phone: 612.607.1700
Fax: 612.607.6444

PROJECT: PCDD/PCDF ANALYSES

DATE: May 19, 2005

ISSUED TO: Analytical Resources, Inc.
Attn: Mary Lou Fox
4611 South 134th Place
Tukwila, WA 98168

REPORT NO: 05-1012437

INTRODUCTION

This report presents the results from the analyses performed on five samples submitted by a representative of Analytical Resources, Inc. The samples were analyzed for the presence or absence of polychlorinated dibenzo-p-dioxins (PCDDs) and dibenzofurans (PCDFs) using a modified version of USEPA Method 8290.

SAMPLE IDENTIFICATION

Client ID	Sample Type	Date Received	Pace ID
05-7309-HZ67A OF-SED-02	Sediment	04/29/05	1012437001
05-7310-HZ67B OF-SED-01	Sediment	04/29/05	1012437002
05-7311-HZ67C OF-SED-03	Sediment	04/29/05	1012437003
05-7312-HZ67D OF-SED-05	Sediment	04/29/05	1012437004
05-7313-HZ67E OF-SED-04	Sediment	04/29/05	1012437005

RESULTS

The results are included in the following:

Appendix A – Chain of Custody Documentation
Appendix B – PCDD/PCDF Results

REPORT OF LABORATORY ANALYSIS

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DISCUSSION

The recoveries of the isotopically-labeled PCDD/PCDF internal standards in the sample extracts generally ranged from 48-117%. Elevated recovery values were obtained for several internal standards in sample OF-SED-02, due to the presence of a suppressive interference that impacted the labeled HxCDD recovery standard; values above 135% were flagged "P" on the results table. All of the remaining labeled standard recoveries obtained for the samples were within the 40-135% target range for this method. Also, since the quantification of the native 2,3,7,8-substituted congeners was based on isotope dilution, the data were automatically corrected for variation in recovery and accurate values were obtained.

In some cases, the presence of interfering substances impacted the determinations of selected congeners. The affected values were flagged "E" where polychlorinated diphenyl ethers were present, or "I" where incorrect isotope ratios were obtained.

A laboratory method blank was prepared and analyzed with the sample batch as part of our routine quality control procedures. The results, found at the beginning of Appendix B, show the blank to be free of PCDDs and PCDFs, with the exception of a trace level Total HxCDD. This was below the calibration range for this method. The Total HxCDD levels reported for the field samples were higher than the corresponding blank level by one or more orders of magnitude. These results indicate that the sample processing procedures did not significantly impact the results of the field sample analyses.

Laboratory and matrix spike samples were also prepared with the sample batch using clean sand or sample material that had been fortified with native standard materials. The results show that the spiked native compounds in the laboratory spike sample were recovered at 110-144%. Five of the native congeners in the lab spike were recovered above the 70-130% target range; the affected values were flagged "P" on the results table. Somewhat variable recovery values were obtained for the spiked native congeners in the matrix spike samples, due to high levels of these compounds in the sample material. Relative percent differences for the matrix spike samples ranged from 1.0-42.8%.

It should be noted that several labeled standard recoveries in the laboratory blank and spike samples were below the 40-135% target range. The affected values were flagged "P" on the results tables.

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REPORT OF: CHEMICAL ANALYSES

PROJECT: PCDD/PCDF ANALYSES

DATE: May 19, 2005

REPORT NO: 05-1012437

REMARKS

The sample extracts will be retained for a period of 15 days from the date of this report and then discarded unless other arrangements are made. The raw mass spectral data will be archived for a period of not less than one year. Questions regarding the data contained in this report may be directed to the author at the number provided below.

Pace Analytical Services, Inc.

Scott C. Unze
Project Manager, HRMS
(612) 607-6383

REPORT OF LABORATORY ANALYSIS
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TABLE 1. 2,3,7,8-TCDD Equivalency Factors (TEFs) for the Polychlorinated Dibenzo-p-dioxins and Dibenzofurans

Number	Compound(s)	TEF
1	2,3,7,8-TCDD	1.00
2	1,2,3,7,8-PeCDD	0.50
3	1,2,3,6,7,8-HxCDD	0.1
4	1,2,3,7,8,9-HxCDD	0.1
5	1,2,3,4,7,8-HxCDD	0.1
6	1,2,3,4,6,7,8-HpCDD	0.01
7	OCDD	0.001
8	* Total - TCDD	0.0
9	* Total - PeCDD	0.0
10	* Total - HxCDD	0.0
11	* Total - HpCDD	0.0
12	2,3,7,8-TCDF	0.10
13	1,2,3,7,8-PeCDF	0.05
14	2,3,4,7,8-PeCDF	0.5
15	1,2,3,6,7,8-HxCDF	0.1
16	1,2,3,7,8,9-HxCDF	0.1
17	1,2,3,4,7,8-HxCDF	0.1
18	2,3,4,6,7,8-HxCDF	0.1
19	1,2,3,4,6,7,8-HpCDF	0.01
20	1,2,3,4,7,8,9-HpCDF	0.01
21	OCDF	0.001
22	* Total - TCDF	0.0
23	* Total - PeCDF	0.0
24	* Total - HxCDF	0.0
25	* Total - HpCDF	0.0

*Excluding the 2,3,7,8-substituted congeners.

Reference: 1989 ITEFs

REPORT OF LABORATORY ANALYSIS

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Appendix A

REPORT OF LABORATORY ANALYSIS
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SUBCONTRACTOR ANALYSIS REQUEST
CUSTODY TRANSFER 04\28\05

ANALYTICAL RESOURCES INCORPORATED

ARI Project: HZ67

1012437

Laboratory: Pace Analytical, Inc.
Lab Contact: Scott Unze
Lab Address: 1700 Elm St.
Minneapolis, MN 55414
Phone: 612-607-1700
Fax:

ARI Client: Geomatrix Consultants
Project ID:
ARI PMgr: Stephanie Lucas
Phone: (206) 340-2866 Ext 213
Fax: (206) 695-6201

Analytical Protocol: PSDDA
Special Instructions:

Requested Turn Around: 05/12/05
Fax Results (Y/N): Yes

Limits of Liability. *Subcontractor is expected to perform all requested services in accordance with appropriate methodology following Standard Operating Procedures that meet standards for the industry. The total liability of ARI, its officers, agents, employees, or sucessors, arising out of or in connection with the requested services, shall not exceed the negotiated amount for said services. The agreement by the Subcontractor to perform services requested by ARI releases ARI from any liability in excess thereof, not withstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Subcontractor.*

ARI Sample ID	Client Sample ID/ Add'l Sample ID	Sampled	Matrix	Bottles	Analyses
05-7309-HZ67A	OF-SED-02	4/27/05	Sediment	1	Dioxin (Low Res) 1012437001
Special Instructions: NONE					
05-7310-HZ67B	OF-SED-01	4/27/05	Sediment	1	Dioxin (Low Res) 002
Special Instructions: NONE					
05-7311-HZ67C	OF-SED-03	4/27/05	Sediment	1	Dioxin (Low Res) 003
Special Instructions: NONE					
05-7312-HZ67D	OF-SED-05	4/27/05	Sediment	1	Dioxin (Low Res) 004
Special Instructions: NONE					
05-7313-HZ67E	OF-SED-04	4/27/05	Sediment	1	Dioxin (Low Res) 005
Special Instructions: NONE					

Carrier	DHL	Airbill	260634243 54	Date	4/28/05
Relinquished by		Company	ARI	Date	4/28/05	Time	1500
Received by		Company	PAC	Date	4/29/05	Time	1010

SUBCONTRACTOR ANALYSIS REQUEST
CUSTODY TRANSFER 04\28\05

ANALYTICAL RESOURCES INCORPORATED

ARI Project: HZ67

Laboratory: Pace Analytical, Inc.
Lab Contact: ~~Scott Hase~~ Michelle Kruse
Lab Address: 1700 Elm St.
Minneapolis, MN 55414
Phone: 612-607-1700
Fax: 612-607-6444 Revised 4-29-05

Analytical Protocol: PSDDA
Special Instructions:

ARI Client: Geomatrix Consultants
Project ID:
ARI PMgr: Stephanie Lucas
Phone: (206) ~~240-2866~~ Ext 213
Fax: (206) 695-6201
(206) 695-6213 Direct

Requested Turn Around: 05/12/05
Fax Results (Y/N): Yes

Limits of Liability. *Subcontractor is expected to perform all requested services in accordance with appropriate methodology following Standard Operating Procedures that meet standards for the industry. The total liability of ARI, its officers, agents, employees, or sucessors, arising out of or in connection with the requested services, shall not exceed the negotiated amount for said services. The agreement by the Subcontractor to perform services requested by ARI releases ARI from any liability in excess thereof, not withstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Subcontractor.*

ARI Sample ID	Client Sample ID/ Add'l Sample ID	Sampled	Matrix	Bottles	Analyses
05-7309-HZ67A	OF-SED-02	4/27/05	Sediment	1	Dioxin (~~Low Res~~)
Special Instructions: NONE					
05-7310-HZ67B	OF-SED-01	4/27/05	Sediment	1	Dioxin (~~Low Res~~)
Special Instructions: NONE					
05-7311-HZ67C	OF-SED-03	4/27/05	Sediment	1	Dioxin (~~Low Res~~)
Special Instructions: NONE					
05-7312-HZ67D	OF-SED-05	4/27/05	Sediment	1	Dioxin (~~Low Res~~)
Special Instructions: NONE					
05-7313-HZ67E	OF-SED-04	4/27/05	Sediment	1	Dioxin (~~Low Res~~)
Special Instructions: NONE					

(*) Full scan Dioxin
PCDD/PCDF ☺
8290

Stephanie Lucas - ARI 4-29-05

Carrier	Airbill	Date
Relinquished by	Company	Date / Time
Received by	Company	Date / Time

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Appendix B

REPORT OF LABORATORY ANALYSIS

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Method 8290 Blank Analysis Results

Client - Analytical Resources Inc.

Lab Sample ID	BLANK-6952	Matrix	Solid
Filename	F50508B_03	Dilution	NA
Total Amount Extracted	20.2 g	Extracted	05/05/2005
ICAL Date	03/24/2005	Analyzed	05/08/2005 22:29
CCal Filename(s)	F50508A_16 & F50508B_16	Injected By	BAL

Native Isomers	Conc ng/Kg	EMPC ng/Kg	LRL ng/Kg		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	-----	0.120	A	2,3,7,8-TCDF-13C	2.00	23 P
Total TCDF	ND	-----	0.099		2,3,7,8-TCDD-13C	2.00	23 P
					1,2,3,7,8-PeCDF-13C	2.00	39 P
2,3,7,8-TCDD	ND	-----	0.150	A	2,3,4,7,8-PeCDF-13C	2.00	48
Total TCDD	ND	-----	0.099		1,2,3,7,8-PeCDD-13C	2.00	48
					1,2,3,4,7,8-HxCDF-13C	2.00	64
1,2,3,7,8-PeCDF	ND	-----	0.500		1,2,3,6,7,8-HxCDF-13C	2.00	59
2,3,4,7,8-PeCDF	ND	-----	0.500		2,3,4,6,7,8-HxCDF-13C	2.00	64
Total PeCDF	ND	-----	0.500		1,2,3,7,8,9-HxCDF-13C	2.00	66
					1,2,3,4,7,8-HxCDD-13C	2.00	65
1,2,3,7,8-PeCDD	ND	-----	0.500		1,2,3,6,7,8-HxCDD-13C	2.00	55
Total PeCDD	ND	-----	0.500		1,2,3,4,6,7,8-HpCDF-13C	2.00	48
					1,2,3,4,7,8,9-HpCDF-13C	2.00	47
1,2,3,4,7,8-HxCDF	ND	-----	0.500		1,2,3,4,6,7,8-HpCDD-13C	2.00	50
1,2,3,6,7,8-HxCDF	ND	-----	0.500		OCDD-13C	4.00	41
2,3,4,6,7,8-HxCDF	ND	-----	0.500				
1,2,3,7,8,9-HxCDF	ND	-----	0.500		1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND	-----	0.500		1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	-----	0.500		2,3,7,8-TCDD-37Cl4	0.20	25
1,2,3,6,7,8-HxCDD	ND	-----	0.500				
1,2,3,7,8,9-HxCDD	ND	-----	0.500				
Total HxCDD	0.50	-----	0.500	J			
1,2,3,4,6,7,8-HpCDF	ND	-----	0.500		Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	-----	0.500		Equivalence: 0.00 ng/Kg		
Total HpCDF	ND	-----	0.500		(Using ITE Factors)		
1,2,3,4,6,7,8-HpCDD	ND	-----	0.500				
Total HpCDD	ND	-----	0.500				
OCDF	ND	-----	0.990				
OCDD	ND	-----	0.990				

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
LRL = Lower Reporting Limit
J = Concentration detected is below the calibration range
P = Recovery outside of target range
A = Detection Limit based on signal-to-noise measurement

I = Interference
E = PCDE Interference
ND = Not Detected
NA = Not Applicable
NC = Not Calculated
* = See Discussion

Report No.....1012437

REPORT OF LABORATORY ANALYSIS

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1700 Elm Street - Suite 200
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Tel: 612-607-1700
Fax: 612-607-6444

Method 8290 Analysis Results

Client - Analytical Resources Inc.

Client's Sample ID	05-7310-HZ67B OF-SED-01		
Lab Sample ID	1012437002		
Filename	U50513A_13		
Injected By	SMT		
Total Amount Extracted	23.1 g	Matrix	Sediment
% Moisture	56.8	Dilution	NA
Dry Weight Extracted	10.0 g	Collected	04/27/2005
ICAL Date	01/26/2005	Received	04/29/2005
CCal Filename(s)	U50512B_16 & U50513A_16	Extracted	05/05/2005
Method Blank ID	BLANK-6952	Analyzed	05/13/2005 23:58

Native Isomers	Conc ng/Kg	EMPC ng/Kg	LRL ng/Kg		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	-----	1.5	0.20	E	2,3,7,8-TCDF-13C	2.00	73
Total TCDF	9.70	-----	0.20		2,3,7,8-TCDD-13C	2.00	78
					1,2,3,7,8-PeCDF-13C	2.00	64
2,3,7,8-TCDD	0.35	-----	0.33	JA	2,3,4,7,8-PeCDF-13C	2.00	69
Total TCDD	25.00	-----	0.20		1,2,3,7,8-PeCDD-13C	2.00	81
					1,2,3,4,7,8-HxCDF-13C	2.00	117
1,2,3,7,8-PeCDF	ND	-----	1.00		1,2,3,6,7,8-HxCDF-13C	2.00	91
2,3,4,7,8-PeCDF	1.30	-----	1.00	J	2,3,4,6,7,8-HxCDF-13C	2.00	96
Total PeCDF	5.50	-----	1.00		1,2,3,7,8,9-HxCDF-13C	2.00	94
					1,2,3,4,7,8-HxCDD-13C	2.00	106
1,2,3,7,8-PeCDD	1.20	-----	1.00	J	1,2,3,6,7,8-HxCDD-13C	2.00	80
Total PeCDD	19.00	-----	1.00		1,2,3,4,6,7,8-HpCDF-13C	2.00	90
					1,2,3,4,7,8,9-HpCDF-13C	2.00	80
1,2,3,4,7,8-HxCDF	ND	-----	1.00		1,2,3,4,6,7,8-HpCDD-13C	2.00	87
1,2,3,6,7,8-HxCDF	ND	-----	1.00		OCDD-13C	4.00	70
2,3,4,6,7,8-HxCDF	ND	-----	1.00				
1,2,3,7,8,9-HxCDF	-----	1.2	1.00	I	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	24.00	-----	1.00		1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	2.40	-----	1.00	J	2,3,7,8-TCDD-37Cl4	0.20	77
1,2,3,6,7,8-HxCDD	5.40	-----	1.00				
1,2,3,7,8,9-HxCDD	2.50	-----	1.00	J			
Total HxCDD	76.00	-----	1.00				
1,2,3,4,6,7,8-HpCDF	-----	23.0	1.00	I	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	-----	1.3	1.00	E	Equivalence: 4.6 ng/Kg		
Total HpCDF	50.00	-----	1.00		(Using ITE Factors)		
1,2,3,4,6,7,8-HpCDD	110.00	-----	1.00				
Total HpCDD	330.00	-----	1.00				
OCDF	62.00	-----	2.00				
OCDD	860.00	-----	2.00				

Results reported on a dry weight basis
Conc = Concentration (Totals include 2,3,7,8-substituted isomers)
EMPC = Estimated Maximum Possible Concentration
A = Detection Limit based on signal-to-noise measurement
J = Concentration detected is below the calibration range
B = Less than 10 times higher than method blank level
P = Recovery outside of target range
Nn = Value obtained from additional analysis

LRL = Lower Reporting Limit
I = Interference
E = PCDE Interference
S = Saturated signal
ND = Not Detected
NA = Not Applicable
NC = Not Calculated
* = See Discussion

Report No.....1012437

REPORT OF LABORATORY ANALYSIS

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Method 8290 Analysis Results

Client - Analytical Resources Inc.

Client's Sample ID	05-7309-HZ67A OF-SED-02		
Lab Sample ID	1012437001		
Filename	U50513A_12		
Injected By	SMT		
Total Amount Extracted	21.3 g	Matrix	Sediment
% Moisture	52.8	Dilution	NA
Dry Weight Extracted	10.0 g	Collected	04/27/2005
ICAL Date	01/26/2005	Received	04/29/2005
CCal Filename(s)	U50512B_16 & U50513A_16	Extracted	05/05/2005
Method Blank ID	BLANK-6952	Analyzed	05/13/2005 23:07

Native Isomers	Conc ng/Kg	EMPC ng/Kg	LRL ng/Kg		Internal Standards	ng's Added	Percent Recovery	
2,3,7,8-TCDF	----	3.0	0.67	EA	2,3,7,8-TCDF-13C	2.00	80	
Total TCDF	22.00	----	0.20		2,3,7,8-TCDD-13C	2.00	93	
					1,2,3,7,8-PeCDF-13C	2.00	87	
2,3,7,8-TCDD	0.46	----	0.34	JA	2,3,4,7,8-PeCDF-13C	2.00	92	
Total TCDD	31.00	----	0.20		1,2,3,7,8-PeCDD-13C	2.00	108	
					1,2,3,4,7,8-HxCDF-13C	2.00	204	P
1,2,3,7,8-PeCDF	ND	----	1.00		1,2,3,6,7,8-HxCDF-13C	2.00	150	P
2,3,4,7,8-PeCDF	3.30	----	1.00	J	2,3,4,6,7,8-HxCDF-13C	2.00	153	P
Total PeCDF	12.00	----	1.00		1,2,3,7,8,9-HxCDF-13C	2.00	169	P
					1,2,3,4,7,8-HxCDD-13C	2.00	176	P
1,2,3,7,8-PeCDD	1.80	----	1.00	J	1,2,3,6,7,8-HxCDD-13C	2.00	139	P
Total PeCDD	26.00	----	1.00		1,2,3,4,6,7,8-HpCDF-13C	2.00	160	P
					1,2,3,4,7,8,9-HpCDF-13C	2.00	157	P
1,2,3,4,7,8-HxCDF	1.80	----	1.00	J	1,2,3,4,6,7,8-HpCDD-13C	2.00	169	P
1,2,3,6,7,8-HxCDF	----	1.9	1.00	E	OCDD-13C	4.00	132	
2,3,4,6,7,8-HxCDF	2.10	----	1.00	J				
1,2,3,7,8,9-HxCDF	1.70	----	1.00	J	1,2,3,4-TCDD-13C	2.00	NA	
Total HxCDF	29.00	----	1.00		1,2,3,7,8,9-HxCDD-13C	2.00	NA	
1,2,3,4,7,8-HxCDD	2.20	----	1.00	J	2,3,7,8-TCDD-37Cl4	0.20	92	
1,2,3,6,7,8-HxCDD	8.70	----	1.00					
1,2,3,7,8,9-HxCDD	1.50	----	1.00	J				
Total HxCDD	85.00	----	1.00					
1,2,3,4,6,7,8-HpCDF	26.00	----	1.00		Total 2,3,7,8-TCDD			
1,2,3,4,7,8,9-HpCDF	-----	1.5	1.00	E	Equivalence: 7.6 ng/Kg			
Total HpCDF	80.00	----	1.00		(Using ITE Factors)			
1,2,3,4,6,7,8-HpCDD	140.00	----	1.00					
Total HpCDD	320.00	----	1.00					
OCDF	61.00	----	2.00					
OCDD	1100.00	----	2.00					

Results reported on a dry weight basis
Conc = Concentration (Totals include 2,3,7,8-substituted isomers)
EMPC = Estimated Maximum Possible Concentration
A = Detection Limit based on signal-to-noise measurement
J = Concentration detected is below the calibration range
B = Less than 10 times higher than method blank level
P = Recovery outside of target range
Nn = Value obtained from additional analysis

LRL = Lower Reporting Limit
I = Interference
E = PCDE Interference
S = Saturated signal
ND = Not Detected
NA = Not Applicable
NC = Not Calculated
* = See Discussion

Report No.....1012437

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1700 Elm Street - Suite 200
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Tel: 612-607-1700
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Pace Analytical™

Method 8290 Analysis Results

Client - Analytical Resources Inc.

Client's Sample ID	05-7311-HZ67C OF-SED-03		
Lab Sample ID	1012437003		
Filename	U50513B_12		
Injected By	SMT		
Total Amount Extracted	18.9 g	Matrix	Sediment
% Moisture	47.0	Dilution	NA
Dry Weight Extracted	10.0 g	Collected	04/27/2005
ICAL Date	01/26/2005	Received	04/29/2005
CCal Filename(s)	U50513A_16 & U50513B_17	Extracted	05/05/2005
Method Blank ID	BLANK-6952	Analyzed	05/14/2005 12:41

Native Isomers	Conc ng/Kg	EMPC ng/Kg	LRL ng/Kg		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	-----	1.60	0.24	EA	2,3,7,8-TCDF-13C	2.00	85
Total TCDF	10.0	-----	0.20		2,3,7,8-TCDD-13C	2.00	76
					1,2,3,7,8-PeCDF-13C	2.00	86
2,3,7,8-TCDD	-----	0.38	0.28	IA	2,3,4,7,8-PeCDF-13C	2.00	93
Total TCDD	35.0	-----	0.20		1,2,3,7,8-PeCDD-13C	2.00	92
					1,2,3,4,7,8-HxCDF-13C	2.00	115
1,2,3,7,8-PeCDF	-----	1.10	1.00	I	1,2,3,6,7,8-HxCDF-13C	2.00	90
2,3,4,7,8-PeCDF	1.2	-----	1.00	J	2,3,4,6,7,8-HxCDF-13C	2.00	96
Total PeCDF	6.2	-----	1.00		1,2,3,7,8,9-HxCDF-13C	2.00	97
					1,2,3,4,7,8-HxCDD-13C	2.00	97
1,2,3,7,8-PeCDD	1.1	-----	1.00	J	1,2,3,6,7,8-HxCDD-13C	2.00	68
Total PeCDD	22.0	-----	1.00		1,2,3,4,6,7,8-HpCDF-13C	2.00	67
					1,2,3,4,7,8,9-HpCDF-13C	2.00	56
1,2,3,4,7,8-HxCDF	1.3	-----	1.00	J	1,2,3,4,6,7,8-HpCDD-13C	2.00	53
1,2,3,6,7,8-HxCDF	ND	-----	1.00		OCDD-13C	4.00	50
2,3,4,6,7,8-HxCDF	ND	-----	1.00				
1,2,3,7,8,9-HxCDF	ND	-----	1.00		1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	19.0	-----	1.00		1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	1.4	-----	1.00	J	2,3,7,8-TCDD-37Cl4	0.20	78
1,2,3,6,7,8-HxCDD	3.6	-----	1.00	J			
1,2,3,7,8,9-HxCDD	1.8	-----	1.00	J			
Total HxCDD	41.0	-----	1.00				
1,2,3,4,6,7,8-HpCDF	13.0	-----	1.00		Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	-----	1.00		Equivalence: 3.1 ng/Kg		
Total HpCDF	39.0	-----	1.00		(Using ITE Factors)		
1,2,3,4,6,7,8-HpCDD	53.0	-----	1.00				
Total HpCDD	140.0	-----	1.00				
OCDF	29.0	-----	2.00				
OCDD	430.0	-----	2.00				

Results reported on a dry weight basis
Conc = Concentration (Totals include 2,3,7,8-substituted isomers)
EMPC = Estimated Maximum Possible Concentration
A = Detection Limit based on signal-to-noise measurement
J = Concentration detected is below the calibration range
B = Less than 10 times higher than method blank level
P = Recovery outside of target range
Nn = Value obtained from additional analysis

LRL = Lower Reporting Limit
I = Interference
E = PCDE Interference
S = Saturated signal
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Pace Analytical™

Method 8290 Analysis Results

Client - Analytical Resources Inc.

Client's Sample ID	05-7313-HZ67E OF-SED-04		
Lab Sample ID	1012437005		
Filename	U50513A_14		
Injected By	SMT		
Total Amount Extracted	13.6 g	Matrix	Sediment
% Moisture	25.2	Dilution	NA
Dry Weight Extracted	10.1 g	Collected	04/27/2005
ICAL Date	01/26/2005	Received	04/29/2005
CCal Filename(s)	U50512B_16 & U50513A_16	Extracted	05/05/2005
Method Blank ID	BLANK-6952	Analyzed	05/14/2005 00:49

Native Isomers	Conc ng/Kg	EMPC ng/Kg	LRL ng/Kg		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	-----	0.79	0.20	E	2,3,7,8-TCDF-13C	2.00	73
Total TCDF	6.60	-----	0.20		2,3,7,8-TCDD-13C	2.00	75
					1,2,3,7,8-PeCDF-13C	2.00	65
2,3,7,8-TCDD	0.31	-----	0.20	J	2,3,4,7,8-PeCDF-13C	2.00	71
Total TCDD	5.90	-----	0.20		1,2,3,7,8-PeCDD-13C	2.00	77
					1,2,3,4,7,8-HxCDF-13C	2.00	92
1,2,3,7,8-PeCDF	-----	4.70	0.99	E	1,2,3,6,7,8-HxCDF-13C	2.00	79
2,3,4,7,8-PeCDF	2.50	-----	0.99	J	2,3,4,6,7,8-HxCDF-13C	2.00	88
Total PeCDF	31.00	-----	0.99		1,2,3,7,8,9-HxCDF-13C	2.00	84
					1,2,3,4,7,8-HxCDD-13C	2.00	93
1,2,3,7,8-PeCDD	-----	1.70	0.99	I	1,2,3,6,7,8-HxCDD-13C	2.00	70
Total PeCDD	4.60	-----	0.99	J	1,2,3,4,6,7,8-HpCDF-13C	2.00	77
					1,2,3,4,7,8,9-HpCDF-13C	2.00	68
1,2,3,4,7,8-HxCDF	4.90	-----	0.99	J	1,2,3,4,6,7,8-HpCDD-13C	2.00	75
1,2,3,6,7,8-HxCDF	4.10	-----	0.99	J	OCDD-13C	4.00	68
2,3,4,6,7,8-HxCDF	3.60	-----	0.99	J			
1,2,3,7,8,9-HxCDF	ND	-----	0.99		1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	150.00	-----	0.99		1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	4.90	-----	0.99	J	2,3,7,8-TCDD-37Cl4	0.20	76
1,2,3,6,7,8-HxCDD	17.00	-----	0.99				
1,2,3,7,8,9-HxCDD	9.10	-----	0.99				
Total HxCDD	130.00	-----	0.99				
1,2,3,4,6,7,8-HpCDF	200.00	-----	0.99		Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	6.50	-----	0.99		Equivalence: 16 ng/Kg		
Total HpCDF	510.00	-----	0.99		(Using ITE Factors)		
1,2,3,4,6,7,8-HpCDD	390.00	-----	0.99				
Total HpCDD	940.00	-----	0.99				
OCDF	400.00	-----	2.00				
OCDD	3500.00	-----	2.00				

Results reported on a dry weight basis
Conc = Concentration (Totals include 2,3,7,8-substituted isomers)
EMPC = Estimated Maximum Possible Concentration
A = Detection Limit based on signal-to-noise measurement
J = Concentration detected is below the calibration range
B = Less than 10 times higher than method blank level
P = Recovery outside of target range
Nn = Value obtained from additional analysis

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I = Interference
E = PCDE Interference
S = Saturated signal
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Minneapolis, MN 55414

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Fax: 612- 607-6444

Pace Analytical™

Method 8290 Analysis Results

Client - Analytical Resources Inc.

Client's Sample ID	05-7312-HZ67D OF-SED-05		
Lab Sample ID	1012437004		
Filename	U50513B_13		
Injected By	SMT		
Total Amount Extracted	17.9 g	Matrix	Sediment
% Moisture	43.4	Dilution	NA
Dry Weight Extracted	10.1 g	Collected	04/27/2005
ICAL Date	01/26/2005	Received	04/29/2005
CCal Filename(s)	U50513A_16 & U50513B_17	Extracted	05/05/2005
Method Blank ID	BLANK-6952	Analyzed	05/14/2005 13:31

Native Isomers	Conc ng/Kg	EMPC ng/Kg	LRL ng/Kg		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	-----	1.1	0.20	I	2,3,7,8-TCDF-13C	2.00	97
Total TCDF	4.90	-----	0.20		2,3,7,8-TCDD-13C	2.00	72
					1,2,3,7,8-PeCDF-13C	2.00	84
2,3,7,8-TCDD	ND	-----	0.30	A	2,3,4,7,8-PeCDF-13C	2.00	96
Total TCDD	5.30	-----	0.20		1,2,3,7,8-PeCDD-13C	2.00	92
					1,2,3,4,7,8-HxCDF-13C	2.00	109
1,2,3,7,8-PeCDF	-----	3.6	0.99	E	1,2,3,6,7,8-HxCDF-13C	2.00	94
2,3,4,7,8-PeCDF	2.00	-----	0.99	J	2,3,4,6,7,8-HxCDF-13C	2.00	104
Total PeCDF	9.70	-----	0.99		1,2,3,7,8,9-HxCDF-13C	2.00	101
					1,2,3,4,7,8-HxCDD-13C	2.00	85
1,2,3,7,8-PeCDD	1.40	-----	0.99	J	1,2,3,6,7,8-HxCDD-13C	2.00	70
Total PeCDD	5.80	-----	0.99		1,2,3,4,6,7,8-HpCDF-13C	2.00	63
					1,2,3,4,7,8,9-HpCDF-13C	2.00	57
1,2,3,4,7,8-HxCDF	1.60	-----	0.99	J	1,2,3,4,6,7,8-HpCDD-13C	2.00	48
1,2,3,6,7,8-HxCDF	1.50	-----	0.99	J	OCDD-13C	4.00	54
2,3,4,6,7,8-HxCDF	1.00	-----	0.99	J			
1,2,3,7,8,9-HxCDF	ND	-----	0.99		1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	40.00	-----	0.99		1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	2.30	-----	0.99	J	2,3,7,8-TCDD-37Cl4	0.20	82
1,2,3,6,7,8-HxCDD	9.40	-----	0.99				
1,2,3,7,8,9-HxCDD	4.80	-----	0.99	J			
Total HxCDD	61.00	-----	0.99				
1,2,3,4,6,7,8-HpCDF	33.00	-----	0.99		Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	2.30	-----	0.99	J	Equivalence: 7.4 ng/Kg		
Total HpCDF	110.00	-----	0.99		(Using ITE Factors)		
1,2,3,4,6,7,8-HpCDD	170.00	-----	0.99				
Total HpCDD	410.00	-----	0.99				
OCDF	110.00	-----	2.00				
OCDD	1600.00	-----	2.00				

Results reported on a dry weight basis
Conc = Concentration (Totals include 2,3,7,8-substituted isomers)
EMPC = Estimated Maximum Possible Concentration
A = Detection Limit based on signal-to-noise measurement
J = Concentration detected is below the calibration range
B = Less than 10 times higher than method blank level
P = Recovery outside of target range
Nn = Value obtained from additional analysis

LRL = Lower Reporting Limit
I = Interference
E = PCDE Interference
S = Saturated signal
ND = Not Detected
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Minneapolis, MN 55414

Tel: 612-607-1700
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Method 8290 Laboratory Control Spike Results

Client - Analytical Resources Inc.

Lab Sample ID	LCS-6953		
Filename	F50508B_01	Matrix	Solid
Total Amount Extracted	20.2 g	Dilution	NA
ICAL Date	03/24/2005	Extracted	05/05/2005
CCal Filename(s)	F50508A_16 & F50508B_16	Analyzed	05/08/2005 20:17
Method Blank ID	BLANK-6952	Injected By	BAL

Native Isomers	Qs (ng)	Qm (ng)	% Rec.	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	0.20	0.24	121	2,3,7,8-TCDF-13C	2.00	6 P
				2,3,7,8-TCDD-13C	2.00	7 P
				1,2,3,7,8-PeCDF-13C	2.00	28 P
2,3,7,8-TCDD	0.20	0.24	121	2,3,4,7,8-PeCDF-13C	2.00	41
				1,2,3,7,8-PeCDD-13C	2.00	44
				1,2,3,4,7,8-HxCDF-13C	2.00	63
1,2,3,7,8-PeCDF	1.00	1.30	130	1,2,3,6,7,8-HxCDF-13C	2.00	56
2,3,4,7,8-PeCDF	1.00	1.28	128	2,3,4,6,7,8-HxCDF-13C	2.00	65
				1,2,3,7,8,9-HxCDF-13C	2.00	67
				1,2,3,4,7,8-HxCDD-13C	2.00	59
1,2,3,7,8-PeCDD	1.00	1.10	110	1,2,3,6,7,8-HxCDD-13C	2.00	56
				1,2,3,4,6,7,8-HpCDF-13C	2.00	51
				1,2,3,4,7,8,9-HpCDF-13C	2.00	47
1,2,3,4,7,8-HxCDF	1.00	1.14	114	1,2,3,4,6,7,8-HpCDD-13C	2.00	54
1,2,3,6,7,8-HxCDF	1.00	1.25	125	OCDD-13C	4.00	45
2,3,4,6,7,8-HxCDF	1.00	1.25	125			
1,2,3,7,8,9-HxCDF	1.00	1.18	118	1,2,3,4-TCDD-13C	2.00	NA
				1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	1.00	1.25	125	2,3,7,8-TCDD-37Cl4	0.20	8
1,2,3,6,7,8-HxCDD	1.00	1.31	131 P			
1,2,3,7,8,9-HxCDD	1.00	1.30	130			
1,2,3,4,6,7,8-HpCDF	1.00	1.38	138 P			
1,2,3,4,7,8,9-HpCDF	1.00	1.38	138 P			
1,2,3,4,6,7,8-HpCDD	1.00	1.16	116			
OCDF	2.00	2.87	144 P			
OCDD	2.00	2.65	132 P			

Qs = Quantity Spiked
Qm = Quantity Measured
Rec. = Recovery (Expressed as Percent)
P = Recovery outside of target range
X = Background subtracted value
Nn = Value obtained from additional analysis
NA = Not Applicable
* = See Discussion

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Method 8290 Spike Sample Results

Client - Analytical Resources Inc.

Client's Sample ID	05-7313-HZ67E OF-SED-04-MS		
Lab Sample ID	1012437005-MS		
Filename	U50513A_01	Matrix	Sediment
Total Amount Extracted	13.6 g	Dilution	NA
ICAL Date	01/26/2005	Extracted	05/05/2005
CCal Filename(s)	U50512B_16 & U50513A_16	Analyzed	05/13/2005 13:52
Method Blank ID	BLANK-6952	Injected By	SMT

Native Isomers	Qs (ng)	Qm (ng)	% Rec.	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	0.20	0.22	108	2,3,7,8-TCDF-13C	2.00	73
				2,3,7,8-TCDD-13C	2.00	78
				1,2,3,7,8-PeCDF-13C	2.00	70
2,3,7,8-TCDD	0.20	0.19	95	2,3,4,7,8-PeCDF-13C	2.00	77
				1,2,3,7,8-PeCDD-13C	2.00	87
				1,2,3,4,7,8-HxCDF-13C	2.00	97
1,2,3,7,8-PeCDF	1.00	0.79	79	1,2,3,6,7,8-HxCDF-13C	2.00	74
2,3,4,7,8-PeCDF	1.00	1.02	102	2,3,4,6,7,8-HxCDF-13C	2.00	83
				1,2,3,7,8,9-HxCDF-13C	2.00	86
				1,2,3,4,7,8-HxCDD-13C	2.00	91
1,2,3,7,8-PeCDD	1.00	0.92	92	1,2,3,6,7,8-HxCDD-13C	2.00	70
				1,2,3,4,6,7,8-HpCDF-13C	2.00	73
				1,2,3,4,7,8,9-HpCDF-13C	2.00	67
1,2,3,4,7,8-HxCDF	1.00	0.97	97	1,2,3,4,6,7,8-HpCDD-13C	2.00	78
1,2,3,6,7,8-HxCDF	1.00	1.00	100	OCDD-13C	4.00	71
2,3,4,6,7,8-HxCDF	1.00	0.95	95			
1,2,3,7,8,9-HxCDF	1.00	0.92	92	1,2,3,4-TCDD-13C	2.00	NA
				1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	1.00	1.08	108	2,3,7,8-TCDD-37Cl4	0.20	77
1,2,3,6,7,8-HxCDD	1.00	1.33	133			
1,2,3,7,8,9-HxCDD	1.00	1.15	115			
1,2,3,4,6,7,8-HpCDF	1.00	4.64	464			
1,2,3,4,7,8,9-HpCDF	1.00	1.24	124			
1,2,3,4,6,7,8-HpCDD	1.00	9.15	915			
OCDF	2.00	10.60	530			
OCDD	2.00	70.79	3540			

Qs = Quantity Spiked
Qm = Quantity Measured
Rec. = Recovery (Expressed as Percent)
P = Recovery outside of target range of 40-135%
X = Background subtracted value
E = PCDE Interference
Nn = Value obtained from additional analysis
NA = Not Applicable
* = See Discussion

Report No.....1012437

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc.

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612-607-6444

Pace Analytical™

Method 8290 Spike Sample Results

Client - Analytical Resources Inc.

Client's Sample ID	05-7313-HZ67E OF-SED-04-MSD		
Lab Sample ID	1012437005-MSD		
Filename	U50513A_02	Matrix	Sediment
Total Amount Extracted	13.6 g	Dilution	NA
ICAL Date	01/26/2005	Extracted	05/05/2005
CCal Filename(s)	U50512B_16 & U50513A_16	Analyzed	05/13/2005 14:38
Method Blank ID	BLANK-6952	Injected By	SMT

Native Isomers	Qs (ng)	Qm (ng)	% Rec.
2,3,7,8-TCDF	0.20	0.23	117
2,3,7,8-TCDD	0.20	0.20	102
1,2,3,7,8-PeCDF	1.00	0.78	78
2,3,4,7,8-PeCDF	1.00	1.11	111
1,2,3,7,8-PeCDD	1.00	0.96	96
1,2,3,4,7,8-HxCDF	1.00	1.02	102
1,2,3,6,7,8-HxCDF	1.00	1.05	105
2,3,4,6,7,8-HxCDF	1.00	1.06	106
1,2,3,7,8,9-HxCDF	1.00	0.98	98
1,2,3,4,7,8-HxCDD	1.00	1.09	109
1,2,3,6,7,8-HxCDD	1.00	1.36	136
1,2,3,7,8,9-HxCDD	1.00	1.12	112
1,2,3,4,6,7,8-HpCDF	1.00	3.19	319
1,2,3,4,7,8,9-HpCDF	1.00	1.22	122
1,2,3,4,6,7,8-HpCDD	1.00	7.06	706
OCDF	2.00	6.86	343
OCDD	2.00	52.00	2600

Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF-13C	2.00	67
2,3,7,8-TCDD-13C	2.00	72
1,2,3,7,8-PeCDF-13C	2.00	67
2,3,4,7,8-PeCDF-13C	2.00	73
1,2,3,7,8-PeCDD-13C	2.00	81
1,2,3,4,7,8-HxCDF-13C	2.00	91
1,2,3,6,7,8-HxCDF-13C	2.00	67
2,3,4,6,7,8-HxCDF-13C	2.00	70
1,2,3,7,8,9-HxCDF-13C	2.00	73
1,2,3,4,7,8-HxCDD-13C	2.00	81
1,2,3,6,7,8-HxCDD-13C	2.00	59
1,2,3,4,6,7,8-HpCDF-13C	2.00	60
1,2,3,4,7,8,9-HpCDF-13C	2.00	48
1,2,3,4,6,7,8-HpCDD-13C	2.00	60
OCDD-13C	4.00	44
1,2,3,4-TCDD-13C	2.00	NA
1,2,3,7,8,9-HxCDD-13C	2.00	NA
2,3,7,8-TCDD-37Cl4	0.20	72

Qs = Quantity Spiked
Qm = Quantity Measured
Rec. = Recovery (Expressed as Percent)
P = Recovery outside of target range of 40-135%
X = Background subtracted value
E = PCDE Interference
Nn = Value obtained from additional analysis
NA = Not Applicable
* = See Discussion

Report No.....1012437

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

Method 8290 Spike Sample Results

Client - Analytical Resources Inc.

Client Sample ID	05-7313-HZ67E OF-SED-04			Dry Weights	
Lab Sample ID	1012437005	Sample Filename	U50513A_14	Sample Amount	10.1 g
MS ID	1012437005-MS	MS Filename	U50513A_01	MS Amount	10.2 g
MSD ID	1012437005-MSD	MSD Filename	U50513A_02	MSD Amount	10.2 g

Analyte	Sample Conc. ng/Kg	MS/MSD Qs (ng)	MS Qm (ng)	MSD Qm (ng)	RPD	Background Subtracted MS % Rec.	Background Subtracted MSD % Rec.	Background Subtracted RPD
2,3,7,8-TCDF	0.000	0.20	0.22	0.23	8.5	104	113	8.8
2,3,7,8-TCDD	0.310	0.20	0.19	0.20	7.3	94	101	7.4
1,2,3,7,8-PeCDF	0.000	1.00	0.79	0.78	1.9	74	73	2.0
2,3,4,7,8-PeCDF	2.523	1.00	1.02	1.11	7.8	100	108	8.0
1,2,3,7,8-PeCDD	0.000	1.00	0.92	0.96	4.0	90	94	4.1
1,2,3,4,7,8-HxCDF	4.897	1.00	0.97	1.02	5.8	92	97	6.1
1,2,3,6,7,8-HxCDF	4.130	1.00	1.00	1.05	5.0	95	100	5.2
2,3,4,6,7,8-HxCDF	3.594	1.00	0.95	1.06	11.0	91	102	11.4
1,2,3,7,8,9-HxCDF	0.000	1.00	0.92	0.98	5.8	92	98	5.8
1,2,3,4,7,8-HxCDD	4.931	1.00	1.08	1.09	1.0	103	104	1.0
1,2,3,6,7,8-HxCDD	17.027	1.00	1.33	1.36	2.0	116	118	2.3
1,2,3,7,8,9-HxCDD	9.062	1.00	1.15	1.12	2.4	106	103	2.6
1,2,3,4,6,7,8-HpCDF	196.935	1.00	4.64	3.19	37.2	264	118	76.4
1,2,3,4,7,8,9-HpCDF	6.473	1.00	1.24	1.22	2.0	117	115	2.1
1,2,3,4,6,7,8-HpCDD	385.218	1.00	9.15	7.06	25.7	523	314	49.9
OCDF	397.005	2.00	10.60	6.86	42.8	328	141	79.8
OCDD	3501.427	2.00	70.79	52.00	30.6	1758	817	73.1

Definitions

MS = Matrix Spike
MSD = Matrix Spike Duplicate
Qm = Quantity Measured
Qs = Quantity Spiked
% Rec. = Percent Recovery
RPD = Relative Percent Difference

CDD = Chlorinated dibenzo-p-dioxin
CDF = Chlorinated dibenzo-p-furan
T = Tetra
Pe = Penta
Hx = Hexa
Hp = Hepta
O = Octa

Analytical Resources, Incorporated
Analytical Chemists and Consultants
May 24, 2005

Joe Morrice
GeoMatrix Consultants
600 University, Suite 1020
Seattle, WA 98101

RE: Project: SPI Everett
ARI Job No: IA71

Dear Joe:

Please find enclosed a sample custody record (COC) and a set of analytical results for the samples from the project referenced above. Analytical Resources, Inc. accepted seven water samples in good condition on May 9, 2005.

The samples were analyzed for PCP, TSS, dissolved metals as requested on the COC.

These analyses proceeded without incident of note.

Copies of these reports and all associated raw data will be kept on file electronically at ARI. If you have any questions or require additional information, please contact me at your convenience.

Sincerely,

ANALYTICAL RESOURCES, INC.

Stephanie Lucas

Stephanie Lucas
Project Manager
steph@arilabs.com
(206) 695-6213

Analytical Resources, Incorporated
Analytical Chemists and Consultants
May 24, 2005

Joe Morrice
GeoMatrix Consultants
600 University, Suite 1020
Seattle, WA 98101

RE: Project: SPI Everett
ARI Job No: IA71

Dear Joe:

Please find enclosed a sample custody record (COC) and a set of analytical results for the samples from the project referenced above. Analytical Resources, Inc. accepted seven water samples in good condition on April 27, 2005.

The samples were analyzed for PCP, TSS, dissolved metals as requested on the COC.

These analyses proceeded without incident of note.

Copies of these reports and all associated raw data will be kept on file electronically at ARI. If you have any questions or require additional information, please contact me at your convenience.

Sincerely,

ANALYTICAL RESOURCES, INC.

Stephanie Lucas
Project Manager
steph@arilabs.com
(206) 695-6213

Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number: IAFI	Turn-around Requested: STD	Page: 1 of 1	
ARI Client Company: GEOMATRIX	Phone: 206-342-1760	Date: 5-9-05	Ice Present?
Client Contact: JOE MARICE		No. of Coolers: 1	Cooler Temps: 7.8
Client Project Name: SPI EVERETT			
Client Project #: 10360	Samplers: JM		

Analytical Resources, Incorporated
Analytical Chemists and Consultants
4611 South 134th Place, Suite 100
Tukwila, WA 98168
206-695-6200 206-695-6201 (fax)

Sample ID	Date	Time	Matrix	No. Containers	Analysis Requested: Dissolved Metals	PCP (8270C)	TSS						Notes/Comments
MW-100S	5-9-05	1100	W	1	X								
MW-100D		1030		1	X								
MW-RA8-3		1205		3	X	X	X						
MW-103S		1205		1	X								
MW-103D		1330		1	X								
MW-105S		1440		1	X								
MW-105D		1505		1	X								

Comments/Special Instructions
* As, Cd, Cr, Cu, Pb, Zn by ICP-MS - Field Filtered.

Relinquished by: (Signature)	Received by: (Signature)	Relinquished by: (Signature)	Received by: (Signature)	
Printed Name: J. Marice	Printed Name: ERIC BRANSON	Printed Name:	Printed Name:	
Company: GEOMATRIX	Company: ARI	Company:	Company:	
Date & Time: 5-9-05 1703	Date & Time: 5/9/05 1703	Date & Time:	Date & Time:	

Limits of Liability: *ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, not withstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.*

Sample Retention Policy: All samples submitted to ARI will be appropriately discarded no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer, unless alternate retention schedules have been established by work-order or contract.

ANALYTICAL RESOURCES INCORPORATED

SW8270 SEMIVOLATILES WATER SURROGATE RECOVERY SUMMARY

Matrix: Water

QC Report No: IA71-Geomatrix Consultants
Project: SPI EVERETT
10360

Client ID	TBP	TOT OUT
MB-051005	73.3%	0
LCS-051005	70.7%	0
LCSD-051005	66.9%	0
MW-RA8-3	73.6%	0

	LCS/MB LIMITS	QC LIMITS
(TBP) = 2,4,6-Tribromophenol	(38-116)	(27-136)

Prep Method: SW3520C
Log Number Range: 05-8022 to 05-8022

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: MB-051005
METHOD BLANK

Lab Sample ID: MB-051005
LIMS ID: 05-8022
Matrix: Water
Data Release Authorized:
Reported: 05/13/05

QC Report No: IA71-Geomatrix Consultants
Project: SPI EVERETT
10360
Date Sampled: NA
Date Received: NA

Date Extracted: 05/10/05
Date Analyzed: 05/11/05 14:30
Instrument/Analyst: NT6/LJR

Sample Amount: 500 mL
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
87-86-5	Pentachlorophenol	5.0	< 5.0 U

Reported in µg/L (ppb)

Semivolatile Surrogate Recovery	
2,4,6-Tribromophenol	73.3%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS
Page 1 of 1

Sample ID: MW-RA8-3
SAMPLE

Lab Sample ID: IA71C
LIMS ID: 05-8022
Matrix: Water
Data Release Authorized:
Reported: 05/13/05

QC Report No: IA71-Geomatrix Consultants
Project: SPI EVERETT
10360
Date Sampled: 05/09/05
Date Received: 05/09/05

Date Extracted: 05/10/05
Date Analyzed: 05/11/05 16:37
Instrument/Analyst: NT6/LJR

Sample Amount: 500 mL
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
87-86-5	Pentachlorophenol	5.0	5.6

Reported in µg/L (ppb)

Semivolatile Surrogate Recovery	
2,4,6-Tribromophenol	73.6%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: LCS-051005
LCS/LCSD

Lab Sample ID: LCS-051005
LIMS ID: 05-8022
Matrix: Water
Data Release Authorized:
Reported: 05/13/05

QC Report No: IA71-Geomatrix Consultants
Project: SPI EVERETT
10360
Date Sampled: 05/09/05
Date Received: 05/09/05

Date Extracted LCS/LCSD: 05/10/05

Date Analyzed LCS: 05/11/05 15:02
LCSD: 05/11/05 15:34
Instrument/Analyst LCS: NT6/LJR
LCSD: NT6/LJR

Sample Amount LCS: 500 mL
LCSD: 500 mL
Final Extract Volume LCS: 0.50 mL
LCSD: 0.50 mL
Dilution Factor LCS: 1.00
LCSD: 1.00

GPC Cleanup: NO

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
Pentachlorophenol	28.3	37.5	75.5%	28.8	37.5	76.8%	1.8%

Semivolatile Surrogate Recovery

	LCS	LCSD
2,4,6-Tribromophenol	70.7%	66.9%

Results reported in µg/L
RPD calculated using sample concentrations per SW846.

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
DISSOLVED METALS

Sample ID: MW-100S
SAMPLE

Lab Sample ID: IA71A
LIMS ID: 05-8020
Matrix: Water
Data Release Authorized:
Reported: 05/23/05

QC Report No: IA71-Geomatrix Consultants
Project: SPI EVERETT
10360
Date Sampled: 05/09/05
Date Received: 05/09/05

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
200.8	05/12/05	200.8	05/16/05	7440-38-2	Arsenic	0.5	1.2	
200.8	05/12/05	200.8	05/16/05	7440-43-9	Cadmium	0.2	0.2	U
200.8	05/12/05	200.8	05/16/05	7440-47-3	Chromium	0.5	0.6	
200.8	05/19/05	200.8	05/20/05	7440-50-8	Copper	0.5	2.2	
200.8	05/12/05	200.8	05/16/05	7439-92-1	Lead	1	1	U
200.8	05/12/05	200.8	05/16/05	7440-66-6	Zinc	4	4	U

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
DISSOLVED METALS

Sample ID: MW-100S
DUPLICATE

Lab Sample ID: IA71A
LIMS ID: 05-8020
Matrix: Water
Data Release Authorized:
Reported: 05/23/05

QC Report No: IA71-Geomatrix Consultants
Project: SPI EVERETT
10360
Date Sampled: 05/09/05
Date Received: 05/09/05

MATRIX DUPLICATE QUALITY CONTROL REPORT

Analyte	Analysis Method	Sample	Duplicate	RPD	Control Limit	Q
Arsenic	200.8	1.2	1.2	0.0%	+/- 0.5	L
Cadmium	200.8	0.2 U	0.2 U	0.0%	+/- 0.2	L
Chromium	200.8	0.6	0.5	18.2%	+/- 0.5	L
Copper	200.8	2.2	2.3	4.4%	+/- 0.5	L
Lead	200.8	1 U	1 U	0.0%	+/- 1	L
Zinc	200.8	4 U	4 U	0.0%	+/- 4	L

Reported in µg/L

*-Control Limit Not Met
L-RPD Invalid, Limit = Detection Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
DISSOLVED METALS

Sample ID: MW-100S
MATRIX SPIKE

Lab Sample ID: IA71A
LIMS ID: 05-8020
Matrix: Water
Data Release Authorized:
Reported: 05/23/05

QC Report No: IA71-Geomatrix Consultants
Project: SPI EVERETT
10360
Date Sampled: 05/09/05
Date Received: 05/09/05

MATRIX SPIKE QUALITY CONTROL REPORT

Analyte	Analysis Method	Sample	Spike	Spike Added	% Recovery	Q
Arsenic	200.8	1.2	27.6	25.0	106%	
Cadmium	200.8	0.2 U	24.2	25.0	96.8%	
Chromium	200.8	0.6	24.4	25.0	95.2%	
Copper	200.8	2.2	23.9	25.0	86.8%	
Lead	200.8	1 U	26	25	104%	
Zinc	200.8	4 U	75	80	93.8%	

Reported in µg/L

N-Control Limit Not Met
H-% Recovery Not Applicable, Sample Concentration Too High
NA-Not Applicable, Analyte Not Spiked

Percent Recovery Limits: 75-125%

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
DISSOLVED METALS

Sample ID: MW-100D
SAMPLE

Lab Sample ID: IA71B
LIMS ID: 05-8021
Matrix: Water
Data Release Authorized:
Reported: 05/23/05

QC Report No: IA71-Geomatrix Consultants
Project: SPI EVERETT
10360
Date Sampled: 05/09/05
Date Received: 05/09/05

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
200.8	05/12/05	200.8	05/16/05	7440-38-2	Arsenic	0.5	9.1	
200.8	05/12/05	200.8	05/16/05	7440-43-9	Cadmium	0.2	0.2	U
200.8	05/12/05	200.8	05/16/05	7440-47-3	Chromium	0.5	1.0	
200.8	05/12/05	200.8	05/16/05	7440-50-8	Copper	0.5	2.4	
200.8	05/12/05	200.8	05/16/05	7439-92-1	Lead	1	1	U
200.8	05/12/05	200.8	05/16/05	7440-66-6	Zinc	4	4	U

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
DISSOLVED METALS
Page 1 of 1

Sample ID: MW-RA8-3
SAMPLE

Lab Sample ID: IA71C
LIMS ID: 05-8022
Matrix: Water
Data Release Authorized:
Reported: 05/23/05

QC Report No: IA71-Geomatrix Consultants
Project: SPI EVERETT
10360
Date Sampled: 05/09/05
Date Received: 05/09/05

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
200.8	05/12/05	200.8	05/16/05	7440-38-2	Arsenic	0.2	2.1	
200.8	05/12/05	200.8	05/16/05	7440-43-9	Cadmium	0.2	0.2	U
200.8	05/12/05	200.8	05/16/05	7440-47-3	Chromium	0.5	0.5	U
200.8	05/12/05	200.8	05/16/05	7440-50-8	Copper	0.5	0.7	
200.8	05/12/05	200.8	05/16/05	7439-92-1	Lead	1	1	U
200.8	05/12/05	200.8	05/16/05	7440-66-6	Zinc	4	5	

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
DISSOLVED METALS

Sample ID: MW-103S
SAMPLE

Lab Sample ID: IA71D
LIMS ID: 05-8023
Matrix: Water
Data Release Authorized:
Reported: 05/23/05

QC Report No: IA71-Geomatrix Consultants
Project: SPI EVERETT
10360
Date Sampled: 05/09/05
Date Received: 05/09/05

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
200.8	05/12/05	200.8	05/16/05	7440-38-2	Arsenic	0.2	1.0	
200.8	05/12/05	200.8	05/16/05	7440-43-9	Cadmium	0.2	0.2	U
200.8	05/12/05	200.8	05/17/05	7440-47-3	Chromium	0.5	0.5	
200.8	05/12/05	200.8	05/16/05	7440-50-8	Copper	0.5	3.4	
200.8	05/12/05	200.8	05/16/05	7439-92-1	Lead	1	1	U
200.8	05/12/05	200.8	05/16/05	7440-66-6	Zinc	4	7	

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
DISSOLVED METALS

Sample ID: MW-103D
SAMPLE

Lab Sample ID: IA71E
LIMS ID: 05-8024
Matrix: Water
Data Release Authorized:
Reported: 05/23/05

QC Report No: IA71-Geomatrix Consultants
Project: SPI EVERETT
10360
Date Sampled: 05/09/05
Date Received: 05/09/05

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
200.8	05/12/05	200.8	05/16/05	7440-38-2	Arsenic	0.2	6.3	
200.8	05/12/05	200.8	05/16/05	7440-43-9	Cadmium	0.2	0.2	U
200.8	05/12/05	200.8	05/16/05	7440-47-3	Chromium	0.5	1.1	
200.8	05/12/05	200.8	05/16/05	7440-50-8	Copper	0.5	3.2	
200.8	05/12/05	200.8	05/16/05	7439-92-1	Lead	1	1	U
200.8	05/12/05	200.8	05/16/05	7440-66-6	Zinc	4	4	U

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
DISSOLVED METALS

Sample ID: MW-105S
SAMPLE

Lab Sample ID: IA71F
LIMS ID: 05-8025
Matrix: Water
Data Release Authorized:
Reported: 05/23/05

QC Report No: IA71-Geomatrix Consultants
Project: SPI EVERETT
10360
Date Sampled: 05/09/05
Date Received: 05/09/05

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
200.8	05/12/05	200.8	05/16/05	7440-38-2	Arsenic	0.2	1.4	
200.8	05/12/05	200.8	05/16/05	7440-43-9	Cadmium	0.2	0.2	U
200.8	05/12/05	200.8	05/17/05	7440-47-3	Chromium	0.5	0.5	U
200.8	05/12/05	200.8	05/16/05	7440-50-8	Copper	0.5	3.8	
200.8	05/12/05	200.8	05/16/05	7439-92-1	Lead	1	1	U
200.8	05/12/05	200.8	05/16/05	7440-66-6	Zinc	4	164	

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
DISSOLVED METALS

Sample ID: MW-105D
SAMPLE

Lab Sample ID: IA71G
LIMS ID: 05-8026
Matrix: Water
Data Release Authorized:
Reported: 05/23/05

QC Report No: IA71-Geomatrix Consultants
Project: SPI EVERETT
10360
Date Sampled: 05/09/05
Date Received: 05/09/05

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
200.8	05/12/05	200.8	05/16/05	7440-38-2	Arsenic	0.2	0.8	
200.8	05/12/05	200.8	05/16/05	7440-43-9	Cadmium	0.2	0.2	U
200.8	05/12/05	200.8	05/17/05	7440-47-3	Chromium	1	1	
200.8	05/12/05	200.8	05/16/05	7440-50-8	Copper	0.5	0.5	U
200.8	05/12/05	200.8	05/16/05	7439-92-1	Lead	1	1	U
200.8	05/12/05	200.8	05/16/05	7440-66-6	Zinc	4	4	U

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
DISSOLVED METALS

Sample ID: METHOD BLANK

Lab Sample ID: IA71MB
LIMS ID: 05-8021
Matrix: Water
Data Release Authorized:
Reported: 05/23/05

QC Report No: IA71-Geomatrix Consultants
Project: SPI EVERETT
10360
Date Sampled: NA
Date Received: NA

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
200.8	05/12/05	200.8	05/16/05	7440-38-2	Arsenic	0.2	0.2	U
200.8	05/12/05	200.8	05/16/05	7440-43-9	Cadmium	0.2	0.2	U
200.8	05/12/05	200.8	05/16/05	7440-47-3	Chromium	0.5	0.5	U
200.8	05/12/05	200.8	05/16/05	7440-50-8	Copper	0.5	0.5	U
200.8	05/12/05	200.8	05/16/05	7439-92-1	Lead	1	1	U
200.8	05/12/05	200.8	05/16/05	7440-66-6	Zinc	4	4	U

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
DISSOLVED METALS

Sample ID: LAB CONTROL

Lab Sample ID: IA71LCS
LIMS ID: 05-8021
Matrix: Water
Data Release Authorized:
Reported: 05/23/05

QC Report No: IA71-Geomatrix Consultants
Project: SPI EVERETT
10360
Date Sampled: NA
Date Received: NA

BLANK SPIKE QUALITY CONTROL REPORT

Analyte	Analysis Method	Spike Found	Spike Added	% Recovery	Q
Arsenic	200.8	26.0	25.0	104%	
Cadmium	200.8	25.1	25.0	100%	
Chromium	200.8	26.0	25.0	104%	
Copper	200.8	26.0	25.0	104%	
Lead	200.8	26	25	104%	
Zinc	200.8	79	80	98.8%	

Reported in µg/L

N-Control limit not met
Control Limits: 80-120%

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
DISSOLVED METALS

Sample ID: METHOD BLANK

Lab Sample ID: IA71MB
LIMS ID: 05-8020
Matrix: Water
Data Release Authorized:
Reported: 05/23/05

QC Report No: IA71-Geomatrix Consultants
Project: SPI EVERETT
10360
Date Sampled: NA
Date Received: NA

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	pg/L	Q
200.8	05/19/05	200.8	05/20/05	7440-50-8	Copper	0.5	0.5	U

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
DISSOLVED METALS
Page 1 of 1

Sample ID: LAB CONTROL

Lab Sample ID: IA71LCS
LIMS ID: 05-8020
Matrix: Water
Data Release Authorized:
Reported: 05/23/05

QC Report No: IA71-Geomatrix Consultants
Project: SPI EVERETT
10360
Date Sampled: NA
Date Received: NA

BLANK SPIKE QUALITY CONTROL REPORT

Analyte	Analysis Method	Spike Found	Spike Added	% Recovery	Q
Copper	200.8	26.1	25.0	104%	

Reported in µg/L

N-Control limit not met
Control Limits: 80-120%

SAMPLE RESULTS-CONVENTIONALS
IA71-Geomatrix Consultants

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized: MV
Reported: 05/12/05

Project: SPI EVERETT
Event: 10360
Date Sampled: 05/09/05
Date Received: 05/09/05

Client ID: MW-RA8-3
ARI ID: 05-8022 IA71C

Analyte	Date Batch	Method	Units	RL	Sample
Total Suspended Solids	05/10/05 051005#1	EPA 160.2	mg/L	2.2	3.7

RL Analytical reporting limit
U Undetected at reported detection limit

METHOD BLANK RESULTS-CONVENTIONALS
IA71-Geomatrix Consultants

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized: [signature]
Reported: 05/12/05

Project: SPI EVERETT
Event: 10360
Date Sampled: NA
Date Received: NA

Analyte	Date	Units	Blank
Total Suspended Solids	05/10/05	mg/L	< 1.0 U

LAB CONTROL RESULTS-CONVENTIONALS
IA71-Geomatrix Consultants

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized:
Reported: 05/12/05

Project: SPI EVERETT
Event: 10360
Date Sampled: NA
Date Received: NA

Analyte	Date	Units	LCS	Spike Added	Recovery
Total Suspended Solids	05/10/05	mg/L	49.6	50.0	99.2%

REPLICATE RESULTS-CONVENTIONALS
IA71-Geomatrix Consultants

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized:
Reported: 05/12/05

Project: SPI EVERETT
Event: 10360
Date Sampled: 05/09/05
Date Received: 05/09/05

Analyte	Date	Units	Sample	Replicate(s)	RPD/RSD
ARI ID: IA71C Client ID: MW-RA8-3					
Total Suspended Solids	05/10/05	mg/L	3.7	3.0	20.9%

Analytical Resources, Incorporated
Analytical Chemists and Consultants
May 24, 2005

Joe Morrice
GeoMatrix Consultants
600 University, Suite 1020
Seattle, WA 98101

RE: Project: SPI Everett
ARI Job No: IB06

Dear Joe:

Please find enclosed a sample custody record (COC) and a set of analytical results for the samples from the project referenced above. Analytical Resources, Inc. accepted six soil samples and sixteen water samples in good condition on May 12, 2005.

Selected samples were analyzed for PCP, TSS, PAH, SIM PAH, hardness, PCB, NWTPH-Dx, and total metals, as requested on the COC.

Please refer to the case narrative for anomalies associated with these samples.

Copies of these reports and all associated raw data will be kept on file electronically at ARI. If you have any questions or require additional information, please contact me at your convenience.

Sincerely,

ANALYTICAL RESOURCES, INC.

Stephanie Lucas
Project Manager
steph@arilabs.com
(206) 695-6213

Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number: IBOLe	Turn-around Requested: STD	Page: 3 of 5	
ARI Client Company: GEOMATRIX	Phone: 206-342-1775	Date: 5-11-05	Ice Present? Y
Client Contact: Joe Munoz		No. of Coolers: 3	Cooler Temps: 3.5, 4.0, 6.0
Client Project Name: SPE Ormet			
Client Project #: 10360	Samplers: SNM		

Analytical Resources, Incorporated
Analytical Chemists and Consultants
4611 South 134th Place, Suite 100
Tukwila, WA 98168
206-695-6200 206-695-6201 (fax)

Sample ID	Date	Time	Matrix	No. Containers	Analysis Requested: METALS	PCB	TSS	PAHs	Hardness				Notes/Comments
GP-09 5-8	5-11	1600	S	1	X								
GP-09 5		1610	W	1	X								
GP-09 D		1645	W	1	X								
GP-10 7-9		1730	S	~~3~~ 1	X	~~X~~	~~X~~						
GP-10 5	1745	~~1745~~	~~BW~~	3	X	X	X						
GP-10 D	1845	~~1845~~	W	3	X	X	X						
GP-11 4-7		1900	S	2	X	X		X					
GP-11 5		1910	W	3	X	X	X						
GP-11 D		1925	W	3	X	X	X						
River 5/11/05		2005	W	1					X				

Comments/Special Instructions	Relinquished by: (Signature)	Received by: (Signature)	Relinquished by: (Signature)	Received by: (Signature)
	Printed Name: Joe Munoz	Printed Name: BRIAN LEGGE	Printed Name:	Printed Name:
	Company: GMX	Company: ARI	Company:	Company:
	Date & Time: 5-12-05 1416	Date & Time: 5/12/05 1416	Date & Time:	Date & Time:

Limits of Liability: *ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, not withstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.*

Sample Retention Policy: All samples submitted to ARI will be appropriately discarded no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer, unless alternate retention schedules have been established by work-order or contract.

Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number: IBO4	Turn-around Requested: STD	Page: 4	of 5
ARI Client Company: GeoMatrix	Phone: 206 342-1760	Date: 5-11	Ice Present?
Client Contact: Joe Maniscalco		No. of Coolers:	Cooler Temps: 3.5, 4.0, 6.0
Client Project Name: SPE Everett			
Client Project #: 10360	Samplers: JWM		

Analytical Resources, Incorporated
Analytical Chemists and Consultants
4611 South 134th Place, Suite 100
Tukwila, WA 98168
206-695-6200 206-695-6201 (fax)

Sample ID	Date	Time	Matrix	No. Containers	Analysis Requested: MTBE	PCBs	TPH-Dx						Notes/Comments
GP-06 2-6	5-11	930	S	2	X	X	X						
GP-06 S		940	W	1	X								
GP-06 D		1025	W	1	X								
GP-04 2-6		1105	S	1	X		X						
GP-04 S		1120	W	1	X								
GP-04 D		1200	W	1	X								
GP-04 DD		1340	W	1	X								
GP-05 4-6		1450	S	1	X								
GP-05 S		1500	W	1	X								
GP-05 D		1530	W	1	X								

Comments/Special Instructions	Relinquished by: (Signature)	Received by: (Signature)	Relinquished by: (Signature)	Received by: (Signature)
	Printed Name: Joe Maniscalco	Printed Name: Brian Lecke	Printed Name:	Printed Name:
	Company: GMX	Company: ARI	Company:	Company:
	Date & Time: 5-12-05 1416	Date & Time: 5/12/05 1416	Date & Time:	Date & Time:

Limits of Liability: *ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, not withstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.*

Sample Retention Policy: All samples submitted to ARI will be appropriately discarded no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer, unless alternate retention schedules have been established by work-order or contract.

Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number: IB006	Turn-around Requested: STD	Page: 5 of 5	
ARI Client Company: GeoMatrix	Phone: 206 342-1760	Date: 5-12-05	Ice Present?
Client Contact: Joe Mundell		No. of Coolers:	Cooler Temps: 3.5, 4.0, 6.0
Client Project Name: SPI Everett			
Client Project #: 1036	Samplers: JMM		

Analytical Resources, Incorporated
Analytical Chemists and Consultants
4611 South 134th Place, Suite 100
Tukwila, WA 98168
206-695-6200 206-695-6201 (fax)

Sample ID	Date	Time	Matrix	No. Containers	Analysis Requested: MetHg	PCP	TBT						Notes/Comments
MW102S	5-12	1115	W	3	X	X	X						
MW104S	↓	1155	↓	1	X								

Comments/Special Instructions	Relinquished by: (Signature)	Received by: (Signature)	Relinquished by: (Signature)	Received by: (Signature)
	Printed Name: Joe Mundell	Printed Name: Brian Kegel	Printed Name:	Printed Name:
	Company: GeoM	Company: ARI	Company:	Company:
	Date & Time: 5-12-05 1466	Date & Time: 5/12/05 1416	Date & Time:	Date & Time:

Limits of Liability: *ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, not withstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.*

Sample Retention Policy: All samples submitted to ARI will be appropriately discarded no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer, unless alternate retention schedules have been established by work-order or contract.

ANALYTICAL
RESOURCES
INCORPORATED

Case Narrative
SPI Everett
ARI Job: IB06
May 24, 2005

Pentachlorophenol by 8270C

The water samples were extracted on 5/16/05. The samples were analyzed on 5/18/05 and 5/19/05 within the method recommended holding time

Surrogates: All surrogate recoveries were within ARI calculated control limits. Due to a high dilution necessary to get PCP within calibration range, the surrogate was diluted out of sample **GP-10S-dilution.**

Method Blank: The method blank was free of analytes of interest.

Samples: Sample **GP-10S** contained PCP at an "E" flag concentration that exceeded the linear range of the detector. The sample was diluted and re-analyzed. Both runs are reported.

No other anomalies were associated with these samples.

LCS/LCSD (s): All percent recoveries and RPDs were within control limits.

Pentachlorophenol by 8270C-SIM

The soil samples were screened prior to extraction on 5/18/05. The samples were analyzed on 5/20/05 within the method recommended holding time

Surrogates: All surrogate recoveries were within ARI calculated control limits.

Method Blank: The method blank was free of analytes of interest.

Samples: No anomalies were associated with these samples.

LCS/LCSD (s): All percent recoveries and RPDs were within control limits.

PAH by 8270C

The soil samples were screened prior to extraction on 5/18/05. The samples were analyzed on 5/19/05 within the method recommended holding time

Surrogates: All surrogate recoveries were within ARI calculated control limits.

Method Blank: The method blank was free of analytes of interest.

Samples: No anomalies were associated with these samples.

LCS/LCSD (s): All percent recoveries and RPDs were within control limits.

PCBs by 8082

The soil samples were screened prior to extraction on 5/16/05. The samples were analyzed on 5/17/05 within the method recommended holding time

Surrogates: All surrogate recoveries were within ARI calculated control limits.

Method Blank: The method blank was free of analytes of interest.

Samples: Aroclor 1254 is "J" flagged in sample **GP-06 2-6**. The "J" indicates an estimated concentration when the value is less than ARI's established reporting limit(s).

No other anomalies were associated with these samples.

LCS/LCSD (s): All percent recoveries and RPDs were within control limits.

NWTWPH-Dx

The soil samples were extracted on 5/19/05. The samples were analyzed on 5/20/05 within the method recommended holding time

Surrogates: All surrogate recoveries were within ARI calculated control limits.

Method Blank: The method blank was free of analytes of interest.

Samples: No anomalies were associated with these samples.

LCS/LCSD (s): All percent recoveries and RPDs were within control limits.

Total Metals by 6010B

The samples were prepped on 5/17/05 and 5/18/05. The samples were analyzed between 5/19/05 and 5/23/05 within the method recommended holding time.

Method Blank: The method blanks were free of contamination.

Samples: No anomalies were associated with these samples.

LCS/Spike Blank: All percent recoveries were in control.

Total Suspended Solids

The samples were analyzed on 5/13/05 within the method recommended holding time.

Method Blank: The method blank was free of contamination.

Samples: No anomalies were associated with these samples.

LCS/Replicate: All percent recoveries and RPDs were in control.

ANALYTICAL RESOURCES INCORPORATED

SW8270 SEMIVOLATILES WATER SURROGATE RECOVERY SUMMARY

Matrix: Water

QC Report No: IB06-Geomatrix Consultants
Project: SPI Everett
10360

Client ID	TBP	TOT OUT
MB-051605	89.3%	0
LCS-051605	87.2%	0
LCSD-051605	86.1%	0
GP-10 S	70.8%	0
GP-10 S DL	D	0
GP-10 D	78.9%	0
GP-11 S	75.5%	0
GP-11 D	64.8%	0
MW-102S	76.5%	0

	LCS/MB LIMITS	QC LIMITS
(TBP) = 2,4,6-Tribromophenol	(38-116)	(27-136)

Prep Method: SW3520C
Log Number Range: 05-8256 to 05-8268

FORM-II SW8270

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS
Page 1 of 1

Sample ID: MB-051605
METHOD BLANK

Lab Sample ID: MB-051605
LIMS ID: 05-8256
Matrix: Water
Data Release Authorized:
Reported: 05/23/05

QC Report No: IB06-Geomatrix Consultants
Project: SPI Everett
10360
Date Sampled: NA
Date Received: NA

Date Extracted: 05/16/05
Date Analyzed: 05/18/05 10:16
Instrument/Analyst: NT6/LJR

Sample Amount: 500 mL
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
87-86-5	Pentachlorophenol	5.0	< 5.0 U

Reported in µg/L (ppb)

Semivolatile Surrogate Recovery	
2,4,6-Tribromophenol	89.3%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS **Sample ID: GP-10 S**
Page 1 of 1 **SAMPLE**

Lab Sample ID: IB06I
LIMS ID: 05-8256
Matrix: Water
Data Release Authorized:
Reported: 05/23/05

QC Report No: IB06-Geomatrix Consultants
Project: SPI Everett
10360
Date Sampled: 05/11/05
Date Received: 05/12/05

Date Extracted: 05/16/05
Date Analyzed: 05/19/05 14:18
Instrument/Analyst: NT6/LJR

Sample Amount: 500 mL
Final Extract Volume: 0.50 mL
Dilution Factor: 5.00

CAS Number	Analyte	RL	Result
87-86-5	Pentachlorophenol	25	10,000 E

Reported in µg/L (ppb)

Semivolatile Surrogate Recovery	
2,4,6-Tribromophenol	70.8%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: GP-10 S
DILUTION

Lab Sample ID: IB06I
LIMS ID: 05-8256
Matrix: Water
Data Release Authorized:
Reported: 05/23/05

QC Report No: IB06-Geomatrix Consultants
Project: SPI Everett
10360
Date Sampled: 05/11/05
Date Received: 05/12/05

Date Extracted: 05/16/05
Date Analyzed: 05/19/05 17:29
Instrument/Analyst: NT6/LJR

Sample Amount: 500 mL
Final Extract Volume: 0.50 mL
Dilution Factor: 250

CAS Number	Analyte	RL	Result
87-86-5	Pentachlorophenol	1,200	14,000

Reported in µg/L (ppb)

Semivolatile Surrogate Recovery	
2,4,6-Tribromophenol	D

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS
Page 1 of 1

Sample ID: GP-10 D
SAMPLE

Lab Sample ID: IB06J
LIMS ID: 05-8257
Matrix: Water
Data Release Authorized:
Reported: 05/23/05

QC Report No: IB06-Geomatrix Consultants
Project: SPI Everett
10360
Date Sampled: 05/11/05
Date Received: 05/12/05

Date Extracted: 05/16/05
Date Analyzed: 05/19/05 14:50
Instrument/Analyst: NT6/LJR

Sample Amount: 500 mL
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
87-86-5	Pentachlorophenol	5.0	15

Reported in µg/L (ppb)

Semivolatile Surrogate Recovery	
2,4,6-Tribromophenol	78.9%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS
Page 1 of 1

Sample ID: GP-11 S
SAMPLE

Lab Sample ID: IB06K
LIMS ID: 05-8258
Matrix: Water
Data Release Authorized:
Reported: 05/23/05

QC Report No: IB06-Geomatrix Consultants
Project: SPI Everett
10360
Date Sampled: 05/11/05
Date Received: 05/12/05

Date Extracted: 05/16/05
Date Analyzed: 05/18/05 14:31
Instrument/Analyst: NT6/LJR

Sample Amount: 500 mL
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
87-86-5	Pentachlorophenol	5.0	< 5.0 U

Reported in µg/L (ppb)

Semivolatile Surrogate Recovery	
2,4,6-Tribromophenol	75.5%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS
Page 1 of 1

Sample ID: GP-11 D
SAMPLE

Lab Sample ID: IB06L
LIMS ID: 05-8259
Matrix: Water
Data Release Authorized:
Reported: 05/23/05

QC Report No: IB06-Geomatrix Consultants
Project: SPI Everett
10360
Date Sampled: 05/11/05
Date Received: 05/12/05

Date Extracted: 05/16/05
Date Analyzed: 05/18/05 15:03
Instrument/Analyst: NT6/LJR

Sample Amount: 500 mL
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
87-86-5	Pentachlorophenol	5.0	< 5.0 U

Reported in µg/L (ppb)

Semivolatile Surrogate Recovery	
2,4,6-Tribromophenol	64.8%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS
Page 1 of 1

Sample ID: MW-102S
SAMPLE

Lab Sample ID: IB06U
LIMS ID: 05-8268
Matrix: Water
Data Release Authorized:
Reported: 05/23/05

QC Report No: IB06-Geomatrix Consultants
Project: SPI Everett
10360
Date Sampled: 05/12/05
Date Received: 05/12/05

Date Extracted: 05/16/05
Date Analyzed: 05/18/05 15:36
Instrument/Analyst: NT6/LJR

Sample Amount: 500 mL
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
87-86-5	Pentachlorophenol	5.0	< 5.0 U

Reported in µg/L (ppb)

Semivolatile Surrogate Recovery	
2,4,6-Tribromophenol	76.5%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS
Page 1 of 1

Sample ID: LCS-051605
LCS/LCSD

Lab Sample ID: LCS-051605
LIMS ID: 05-8256
Matrix: Water
Data Release Authorized:
Reported: 05/23/05

QC Report No: IB06-Geomatrix Consultants
Project: SPI Everett
10360
Date Sampled: 05/11/05
Date Received: 05/12/05

Date Extracted LCS/LCSD: 05/16/05

Date Analyzed LCS: 05/18/05 10:48
LCSD: 05/18/05 11:20
Instrument/Analyst LCS: NT6/LJR
LCSD: NT6/LJR
GPC Cleanup: NO

Sample Amount LCS: 500 mL
LCSD: 500 mL
Final Extract Volume LCS: 0.50 mL
LCSD: 0.50 mL
Dilution Factor LCS: 1.00
LCSD: 1.00

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
Pentachlorophenol	20.0	25.0	80.0%	21.9	25.0	87.6%	9.1%

Semivolatile Surrogate Recovery

	LCS	LCSD
2,4,6-Tribromophenol	87.2%	86.1%

Results reported in µg/L
RPD calculated using sample concentrations per SW846.

ANALYTICAL RESOURCES INCORPORATED

SIM SW8270 SURROGATE RECOVERY SUMMARY

Matrix: Soil

QC Report No: IB06-Geomatrix Consultants
Project: SPI Everett
10360

Client ID	TBP	TOT OUT
MB-051805	91.5%	0
LCS-051805	82.9%	0
LCSD-051805	100%	0
GP-11 4-7	72.0%	0

	LCS/MB LIMITS	QC LIMITS
(TBP) = 2,4,6-Tribromophenol	(30-160)	(30-160)

Prep Method: SW3550B
Log Number Range: 05-8250 to 05-8250

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by Selected Ion Monitoring GC/MS **Sample ID: MB-051805**
Page 1 of 1 **METHOD BLANK**

Lab Sample ID: MB-051805
LIMS ID: 05-8250
Matrix: Soil
Data Release Authorized:
Reported: 05/20/05

QC Report No: IB06-Geomatrix Consultants
Project: SPI Everett
10360
Date Sampled: NA
Date Received: NA

Date Extracted: 05/18/05
Date Analyzed: 05/20/05 12:38
Instrument/Analyst: NT1/Van
GPC Cleanup: No

Sample Amount: 7.50 g
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00
Percent Moisture: NA
pH: NA

CAS Number	Analyte	RL	Result
87-86-5	Pentachlorophenol	33	< 33 U

Reported in µg/kg (ppb)

SIM Semivolatile Surrogate Recovery	
2,4,6-Tribromophenol	91.5%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by Selected Ion Monitoring GC/MS **Sample ID: GP-11 4-7**
Page 1 of 1 **SAMPLE**

Lab Sample ID: IB06C
LIMS ID: 05-8250
Matrix: Soil
Data Release Authorized:
Reported: 05/20/05

QC Report No: IB06-Geomatrix Consultants
Project: SPI Everett
10360
Date Sampled: 05/11/05
Date Received: 05/12/05

Date Extracted: 05/18/05
Date Analyzed: 05/20/05 13:54
Instrument/Analyst: NT1/Van
GPC Cleanup: No

Sample Amount: 5.96 g-dry-wt
Final Extract Volume: 0.50 mL
Dilution Factor: 1.00
Percent Moisture: 20.6 %
pH: 6.7

CAS Number	Analyte	RL	Result
87-86-5	Pentachlorophenol	42	< 42 U

Reported in µg/kg (ppb)

SIM Semivolatile Surrogate Recovery	
2,4,6-Tribromophenol	72.0%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C SIM GC/MS
Page 1 of 1

Sample ID: LCS-051805
LCS/LCSD

Lab Sample ID: LCS-051805
LIMS ID: 05-8250
Matrix: Soil
Data Release Authorized: GNB
Reported: 05/23/05

QC Report No: IB06-Geomatrix Consultants
Project: SPI Everett
10360
Date Sampled: 05/11/05
Date Received: 05/12/05

Date Extracted LCS/LCSD: 05/18/05

Date Analyzed LCS: 05/20/05 13:03
LCSD: 05/20/05 13:29
Instrument/Analyst LCS: NT1/Van
LCSD: NT1/Van
GPC Cleanup: No
Alumina Cleanup: No

Sample Amount LCS: 7.50 g
LCSD: 7.50 g
Final Extract Volume LCS: 0.50 g
LCSD: 0.50 mL
Dilution Factor LCS: 1.00
LCSD: 1.00
pH: NA
Moisture: NA

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
Pentachlorophenol	1920	2500	76.8%	2260	2500	90.4%	16.3%

Reported in µg/kg (ppb)
RPD calculated using sample concentrations per SW846.

SIM Semivolatile Surrogate Recovery

	LCS	LCSD
2,4,6-Tribromophenol	82.9%	100%

ANALYTICAL RESOURCES INCORPORATED

SW8270 PNA SURROGATE RECOVERY SUMMARY

Matrix: Soil

QC Report No: IB06-Geomatrix Consultants
Project: SPI Everett
10360

Client ID	TER	FBP	TOT OUT
MB-051805	83.2%	67.2%	0
LCS-051805	79.6%	65.6%	0
LCSD-051805	76.0%	62.8%	0
GP-11 4-7	85.2%	59.6%	0

	LCS/MB LIMITS	QC LIMITS
(TER) = d14-p-Terphenyl	(50-113)	(30-123)
(FBP) = 2-Fluorobiphenyl	(30-160)	(30-160)

Prep Method: SW3550B
Log Number Range: 05-8250 to 05-8250

FORM-II SW8270 PNA

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by SW8270C GC/MS
Page 1 of 1

Sample ID: MB-051805
METHOD BLANK

Lab Sample ID: MB-051805
LIMS ID: 05-8250
Matrix: Soil
Data Release Authorized:
Reported: 05/23/05

QC Report No: IB06-Geomatrix Consultants
Project: SPI Everett
10360
Date Sampled: NA
Date Received: NA

Date Extracted: 05/18/05
Date Analyzed: 05/19/05 11:09
Instrument/Analyst: NT6/LJR
GPC Cleanup: No
Alumina: Yes

Sample Amount: 7.50 g
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: NA
pH: NA

CAS Number	Analyte	RL	Result
91-20-3	Naphthalene	67	< 67 U
208-96-8	Acenaphthylene	67	< 67 U
83-32-9	Acenaphthene	67	< 67 U
86-73-7	Fluorene	67	< 67 U
85-01-8	Phenanthrene	67	< 67 U
120-12-7	Anthracene	67	< 67 U
206-44-0	Fluoranthene	67	< 67 U
129-00-0	Pyrene	67	< 67 U
56-55-3	Benzo(a)anthracene	67	< 67 U
218-01-9	Chrysene	67	< 67 U
205-99-2	Benzo(b)fluoranthene	67	< 67 U
207-08-9	Benzo(k)fluoranthene	67	< 67 U
50-32-8	Benzo(a)pyrene	67	< 67 U
193-39-5	Indeno(1,2,3-cd)pyrene	67	< 67 U
53-70-3	Dibenz(a,h)anthracene	67	< 67 U
191-24-2	Benzo(g,h,i)perylene	67	< 67 U

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery	
d14-p-Terphenyl	83.2%
2-Fluorobiphenyl	67.2%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by SW8270C GC/MS
Page 1 of 1

Sample ID: GP-11 4-7
SAMPLE

Lab Sample ID: IB06C
LIMS ID: 05-8250
Matrix: Soil
Data Release Authorized:
Reported: 05/23/05

QC Report No: IB06-Geomatrix Consultants
Project: SPI Everett
10360
Date Sampled: 05/11/05
Date Received: 05/12/05

Date Extracted: 05/18/05
Date Analyzed: 05/19/05 16:57
Instrument/Analyst: NT6/LJR
GPC Cleanup: No
Alumina: Yes

Sample Amount: 5.99 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: 20.6%
pH: 6.7

CAS Number	Analyte	RL	Result
91-20-3	Naphthalene	84	< 84 U
208-96-8	Acenaphthylene	84	< 84 U
83-32-9	Acenaphthene	84	< 84 U
86-73-7	Fluorene	84	< 84 U
85-01-8	Phenanthrene	84	< 84 U
120-12-7	Anthracene	84	< 84 U
206-44-0	Fluoranthene	84	< 84 U
129-00-0	Pyrene	84	< 84 U
56-55-3	Benzo(a)anthracene	84	< 84 U
218-01-9	Chrysene	84	< 84 U
205-99-2	Benzo(b)fluoranthene	84	< 84 U
207-08-9	Benzo(k)fluoranthene	84	< 84 U
50-32-8	Benzo(a)pyrene	84	< 84 U
193-39-5	Indeno(1,2,3-cd)pyrene	84	< 84 U
53-70-3	Dibenz(a,h)anthracene	84	< 84 U
191-24-2	Benzo(g,h,i)perylene	84	< 84 U

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery

d14-p-Terphenyl	85.2%
2-Fluorobiphenyl	59.6%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by SW8270C GC/MS
Page 1 of 1

Sample ID: LCS-051805
LCS/LCSD

Lab Sample ID: LCS-051805
LIMS ID: 05-8250
Matrix: Soil
Data Release Authorized:
Reported: 05/23/05

QC Report No: IB06-Geomatrix Consultants
Project: SPI Everett
10360
Date Sampled: NA
Date Received: 05/12/05

Date Extracted LCS/LCSD: 05/18/05

Date Analyzed LCS: 05/19/05 11:40
LCSD: 05/19/05 12:12
Instrument/Analyst LCS: NT6/LJR
LCSD: NT6/LJR
GPC Cleanup: NO

Sample Amount LCS: 7.50 g
LCSD: 7.50 g
Final Extract Volume LCS: 0.50 mL
LCSD: 0.50 mL
Dilution Factor LCS: 1.00
LCSD: 1.00
Alumina Cleanup: YES

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
Naphthalene	973	1670	58.3%	985	1670	59.0%	1.2%
Acenaphthene	1040	1670	62.3%	1050	1670	62.9%	1.0%
Fluoranthene	1250	1670	74.9%	1240	1670	74.3%	0.8%
Benzo(a)anthracene	1220	1670	73.1%	1220	1670	73.1%	0.0%

Semivolatile Surrogate Recovery

	LCS	LCSD
d14-p-Terphenyl	79.6%	76.0%
2-Fluorobiphenyl	65.6%	62.8%

Results reported in µg/kg
RPD calculated using sample concentrations per SW846.

ANALYTICAL RESOURCES INCORPORATED

SW8082/PCB SOIL/SEDIMENTS SURROGATE RECOVERY SUMMARY

Matrix: Soil

QC Report No: IB06-Geomatrix Consultants
Project: SPI Everett
10360

Client ID	DCBP	TCMX	TOT OUT
MB-051605	117%	78.5%	0
LCS-051605	111%	90.2%	0
LCSD-051605	110%	90.2%	0
GP-06 2-6	137%	111%	0

	LCS/MB LIMITS	QC LIMITS
(DCBP) = Decachlorobiphenyl	(49-140)	(30-164)
(TCMX) = Tetrachlorometaxylene	(30-135)	(26-143)

Prep Method: SW3550B
Log Number Range: 05-8251 to 05-8251

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082
Page 1 of 1

Sample ID: MB-051605
METHOD BLANK

Lab Sample ID: MB-051605
LIMS ID: 05-8251
Matrix: Soil
Data Release Authorized:
Reported: 05/18/05

QC Report No: IB06-Geomatrix Consultants
Project: SPI Everett
10360
Date Sampled: NA
Date Received: NA

Date Extracted: 05/16/05
Date Analyzed: 05/17/05 18:42
Instrument/Analyst: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes

Sample Amount: 12.0 g
Final Extract Volume: 4.0 mL
Dilution Factor: 1.00
Silica Gel: No
pH: NA
Percent Moisture: NA

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	33	< 33 U
53469-21-9	Aroclor 1242	33	< 33 U
12672-29-6	Aroclor 1248	33	< 33 U
11097-69-1	Aroclor 1254	33	< 33 U
11096-82-5	Aroclor 1260	33	< 33 U
11104-28-2	Aroclor 1221	33	< 33 U
11141-16-5	Aroclor 1232	33	< 33 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery	
Decachlorobiphenyl	117%
Tetrachlorometaxylene	78.5%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082
Page 1 of 1

Sample ID: GP-06 2-6
SAMPLE

Lab Sample ID: IB06D
LIMS ID: 05-8251
Matrix: Soil
Data Release Authorized:
Reported: 05/18/05

QC Report No: IB06-Geomatrix Consultants
Project: SPI Everett
10360
Date Sampled: 05/11/05
Date Received: 05/12/05

Date Extracted: 05/16/05
Date Analyzed: 05/17/05 20:07
Instrument/Analyst: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes

Sample Amount: 9.60 g-dry-wt
Final Extract Volume: 4.0 mL
Dilution Factor: 1.00
Silica Gel: No
pH: 6.5
Percent Moisture: 20.3%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	42	< 42 U
53469-21-9	Aroclor 1242	42	< 42 U
12672-29-6	Aroclor 1248	42	< 42 U
11097-69-1	**Aroclor 1254**	**42**	**37 J**
11096-82-5	Aroclor 1260	42	< 42 U
11104-28-2	Aroclor 1221	42	< 42 U
11141-16-5	Aroclor 1232	42	< 42 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	137%
Tetrachlorometaxylene	111%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD MethodSW8082
Page 1 of 1

Sample ID: LCS-051605
LCS/LCSD

Lab Sample ID: LCS-051605
LIMS ID: 05-8251
Matrix: Soil
Data Release Authorized:
Reported: 05/18/05

QC Report No: IB06-Geomatrix Consultants
Project: SPI Everett
10360
Date Sampled: NA
Date Received: NA

Date Extracted LCS/LCSD: 05/16/05

Date Analyzed LCS: 05/17/05 18:59
LCSD: 05/17/05 19:16
Instrument/Analyst LCS: ECD5/PK
LCSD: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes

Sample Amount LCS: 12.0 g-dry-wt
LCSD: 12.0 g-dry-wt
Final Extract Volume LCS: 4.0 mL
LCSD: 4.0 mL
Dilution Factor LCS: 1.00
LCSD: 1.00
Silica Gel: No
pH: NA
Percent Moisture: NA

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
Aroclor 1016	130	167	78.0%	143	167	85.8%	9.5%
Aroclor 1260	176	167	106%	183	167	110%	3.9%

PCB Surrogate Recovery

	LCS	LCSD
Decachlorobiphenyl	111%	110%
Tetrachlorometaxylene	90.2%	90.2%

Results reported in µg/kg (ppb)
RPD calculated using sample concentrations per SW846.

ANALYTICAL RESOURCES INCORPORATED

TPHD SURROGATE RECOVERY SUMMARY

Matrix: Soil

QC Report No: IB06-Geomatrix Consultants
Project: SPI Everett
10360

Client ID	OTER	TOT OUT
051905MBS	84.0%	0
051905LCS	72.4%	0
GP-06 2-6	86.9%	0
GP-04 2-6	82.9%	0

	LCS/MB LIMITS	QC LIMITS
(OTER) = o-Terphenyl	(39-134)	(26-128)

Prep Method: SW3550B
Log Number Range: 05-8251 to 05-8252

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
TOTAL DIESEL RANGE HYDROCARBONS
NWTPHD by GC/FID
Page 1 of 1
Matrix: Soil

QC Report No: IB06-Geomatrix Consultants
Project: SPI Everett
10360
Date Received: 05/12/05

Data Release Authorized:
Reported: 05/23/05

ARI ID	Sample ID	Extraction Date	Analysis Date	DL	Range	Result
MB-051905	Method Blank	05/19/05	05/20/05	1.0	Diesel	< 5.0 U
05-8251	HC ID: ---		FID3A		Motor Oil	< 10 U
					o-Terphenyl	84.0%
IB06D	GP-06 2-6	05/19/05	05/20/05	1.0	**Diesel**	**38**
05-8251	HC ID: **DRO/RRO**		FID3A		**Motor Oil**	**93**
					o-Terphenyl	86.9%
IB06E	GP-04 2-6	05/19/05	05/20/05	1.0	Diesel	< 6.2 U
05-8252	HC ID: ---		FID3A		Motor Oil	< 12 U
					o-Terphenyl	82.9%

Reported in mg/kg (ppm)

Diesel quantitation on total peaks in the range from C12 to C24.
Motor Oil quantitation on total peaks in the range from C24 to C38.
HC ID: DRO/RRO indicates results of organics or additional hydrocarbons in ranges are not identifiable.

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
NWTPHD by GC/FID
Page 1 of 1

Sample ID: LCS-051905
LAB CONTROL

Lab Sample ID: LCS-051905
LIMS ID: 05-8251
Matrix: Soil
Data Release Authorized:
Reported: 05/23/05

QC Report No: IB06-Geomatrix Consultants
Project: SPI Everett
10360
Date Sampled: 05/11/05
Date Received: 05/12/05

Date Extracted: 05/19/05
Date Analyzed: 05/20/05 07:59
Instrument/Analyst: FID/JGR

Sample Amount: 10.0 g
Final Extract Volume: 1.0 mL
Dilution Factor: 1.00

Range	Lab Control	Spike Added	Recovery
Diesel	105	150	70.0%

TPHD Surrogate Recovery

o-Terphenyl	72.4%

Results reported in mg/kg

ANALYTICAL RESOURCES INCORPORATED

TOTAL DIESEL RANGE HYDROCARBONS-EXTRACTION REPORT

Matrix: Soil
Date Received: 05/12/05

ARI Job: IB06
Project: SPI Everett
10360

ARI ID	Client ID	Client Amt	Final Vol	Basis	Prep Date
05-8251-051905MB1	Method Blank	10.0 g	1.00 mL	-	05/19/05
05-8251-051905LCS1	Lab Control	10.0 g	1.00 mL	-	05/19/05
05-8251-IB06D	GP-06 2-6	8.00 g	1.00 mL	D	05/19/05
05-8252-IB06E	GP-04 2-6	8.05 g	1.00 mL	D	05/19/05

Basis: D=Dry Weight W=As Received

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS
Page 1 of 1

Sample ID: GP-09 5-8
SAMPLE

Lab Sample ID: IB06A
LIMS ID: 05-8248
Matrix: Soil
Data Release Authorized:
Reported: 05/25/05

QC Report No: IB06-Geomatrix Consultants
Project: SPI Everett
10360
Date Sampled: 05/11/05
Date Received: 05/12/05

Percent Total Solids: 89.4%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	05/17/05	6010B	05/23/05	**7440-38-2**	**Arsenic**	5	22	
3050B	05/17/05	6010B	05/23/05	7440-43-9	Cadmium	0.2	0.2	U
3050B	05/17/05	6010B	05/23/05	**7440-47-3**	**Chromium**	0.5	28.6	
3050B	05/17/05	6010B	05/23/05	**7440-50-8**	**Copper**	0.2	24.8	
3050B	05/17/05	6010B	05/23/05	**7439-92-1**	**Lead**	2	5	
3050B	05/17/05	6010B	05/23/05	**7440-66-6**	**Zinc**	0.6	44.3	

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS
Page 1 of 1

Sample ID: GP-09 5-8
DUPLICATE

Lab Sample ID: IB06A
LIMS ID: 05-8248
Matrix: Soil
Data Release Authorized:
Reported: 05/25/05

QC Report No: IB06-Geomatrix Consultants
Project: SPI Everett
10360
Date Sampled: 05/11/05
Date Received: 05/12/05

MATRIX DUPLICATE QUALITY CONTROL REPORT

Analyte	Analysis Method	Sample	Duplicate	RPD	Control Limit	Q
Arsenic	6010B	22	24	8.7%	+/- 5	L
Cadmium	6010B	0.2 U	0.2 U	0.0%	+/- 0.2	L
Chromium	6010B	28.6	29.5	3.1%	+/- 20%	
Copper	6010B	24.8	24.9	0.4%	+/- 20%	
Lead	6010B	5	5	0.0%	+/- 2	L
Zinc	6010B	44.3	44.1	0.5%	+/- 20%	

Reported in mg/kg-dry

*-Control Limit Not Met
L-RPD Invalid, Limit = Detection Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: GP-09 5-8
MATRIX SPIKE

Lab Sample ID: IB06A
LIMS ID: 05-8248
Matrix: Soil
Data Release Authorized:
Reported: 05/25/05

QC Report No: IB06-Geomatrix Consultants
Project: SPI Everett
10360
Date Sampled: 05/11/05
Date Received: 05/12/05

MATRIX SPIKE QUALITY CONTROL REPORT

Analyte	Analysis Method	Sample	Spike	Spike Added	% Recovery	Q
Arsenic	6010B	22	236	209	102%	
Cadmium	6010B	0.2 U	51.4	52.2	98.5%	
Chromium	6010B	28.6	88.6	52.2	115%	
Copper	6010B	24.8	81.5	52.2	109%	
Lead	6010B	5	211	209	98.6%	
Zinc	6010B	44.3	93.4	52.2	94.1%	

Reported in mg/kg-dry

N-Control Limit Not Met
H-% Recovery Not Applicable, Sample Concentration Too High
NA-Not Applicable, Analyte Not Spiked

Percent Recovery Limits: 75-125%

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: GP-10 7-9
SAMPLE

Lab Sample ID: IB06B
LIMS ID: 05-8249
Matrix: Soil
Data Release Authorized:
Reported: 05/25/05

QC Report No: IB06-Geomatrix Consultants
Project: SPI Everett
10360
Date Sampled: 05/11/05
Date Received: 05/12/05

Percent Total Solids: 86.3%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	05/17/05	6010B	05/23/05	**7440-38-2**	**Arsenic**	6	16	
3050B	05/17/05	6010B	05/23/05	7440-43-9	Cadmium	0.2	0.2	U
3050B	05/17/05	6010B	05/23/05	**7440-47-3**	**Chromium**	0.6	25.3	
3050B	05/17/05	6010B	05/23/05	**7440-50-8**	**Copper**	0.2	23.1	
3050B	05/17/05	6010B	05/23/05	**7439-92-1**	**Lead**	2	10	
3050B	05/17/05	6010B	05/23/05	**7440-66-6**	**Zinc**	0.7	43.9	

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: GP-11 4-7
SAMPLE

Lab Sample ID: IB06C
LIMS ID: 05-8250
Matrix: Soil
Data Release Authorized:
Reported: 05/25/05

QC Report No: IB06-Geomatrix Consultants
Project: SPI Everett
10360
Date Sampled: 05/11/05
Date Received: 05/12/05

Percent Total Solids: 83.3%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	05/17/05	6010B	05/23/05	**7440-38-2**	**Arsenic**	6	51	
3050B	05/17/05	6010B	05/23/05	7440-43-9	Cadmium	0.2	0.2	U
3050B	05/17/05	6010B	05/23/05	**7440-47-3**	**Chromium**	0.6	27.8	
3050B	05/17/05	6010B	05/23/05	**7440-50-8**	**Copper**	0.2	21.1	
3050B	05/17/05	6010B	05/23/05	**7439-92-1**	**Lead**	2	22	
3050B	05/17/05	6010B	05/23/05	**7440-66-6**	**Zinc**	0.7	48.6	

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: GP-06 2-6
SAMPLE

Lab Sample ID: IB06D
LIMS ID: 05-8251
Matrix: Soil
Data Release Authorized:
Reported: 05/25/05

QC Report No: IB06-Geomatrix Consultants
Project: SPI Everett
10360
Date Sampled: 05/11/05
Date Received: 05/12/05

Percent Total Solids: 74.5%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	05/17/05	6010B	05/23/05	7440-38-2	Arsenic	6	17	
3050B	05/17/05	6010B	05/23/05	7440-43-9	Cadmium	0.3	0.3	U
3050B	05/17/05	6010B	05/23/05	7440-47-3	Chromium	0.6	25.1	
3050B	05/17/05	6010B	05/23/05	7440-50-8	Copper	0.3	45.4	
3050B	05/17/05	6010B	05/23/05	7439-92-1	Lead	3	48	
3050B	05/17/05	6010B	05/23/05	7440-66-6	Zinc	0.8	86.7	

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: GP-04 2-6
SAMPLE

Lab Sample ID: IB06E
LIMS ID: 05-8252
Matrix: Soil
Data Release Authorized:
Reported: 05/25/05

QC Report No: IB06-Geomatrix Consultants
Project: SPI Everett
10360
Date Sampled: 05/11/05
Date Received: 05/12/05

Percent Total Solids: 81.3%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	05/17/05	6010B	05/23/05	**7440-38-2**	**Arsenic**	6	40	
3050B	05/17/05	6010B	05/23/05	7440-43-9	Cadmium	0.2	0.2	U
3050B	05/17/05	6010B	05/23/05	**7440-47-3**	**Chromium**	0.6	30.5	
3050B	05/17/05	6010B	05/23/05	**7440-50-8**	**Copper**	0.2	28.5	
3050B	05/17/05	6010B	05/23/05	**7439-92-1**	**Lead**	2	52	
3050B	05/17/05	6010B	05/23/05	**7440-66-6**	**Zinc**	0.7	79.0	

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: GP-05 4-6
SAMPLE

Lab Sample ID: IB06F
LIMS ID: 05-8253
Matrix: Soil
Data Release Authorized:
Reported: 05/25/05

QC Report No: IB06-Geomatrix Consultants
Project: SPI Everett
10360
Date Sampled: 05/11/05
Date Received: 05/12/05

Percent Total Solids: 79.8%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	05/17/05	6010B	05/23/05	**7440-38-2**	**Arsenic**	6	6	
3050B	05/17/05	6010B	05/23/05	7440-43-9	Cadmium	0.2	0.2	U
3050B	05/17/05	6010B	05/23/05	**7440-47-3**	**Chromium**	0.6	28.2	
3050B	05/17/05	6010B	05/23/05	**7440-50-8**	**Copper**	0.2	20.1	
3050B	05/17/05	6010B	05/23/05	**7439-92-1**	**Lead**	2	5	
3050B	05/17/05	6010B	05/23/05	**7440-66-6**	**Zinc**	0.7	41.9	

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: GP-09 S
SAMPLE

Lab Sample ID: IB06G
LIMS ID: 05-8254
Matrix: Water
Data Release Authorized:
Reported: 05/25/05

QC Report No: IB06-Geomatrix Consultants
Project: SPI Everett
10360
Date Sampled: 05/11/05
Date Received: 05/12/05

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
200.8	05/18/05	200.8	05/20/05	**7440-38-2**	**Arsenic**	2	836	
200.8	05/18/05	200.8	05/19/05	7440-43-9	Cadmium	0.2	0.2	U
200.8	05/18/05	200.8	05/19/05	7440-47-3	Chromium	0.5	0.5	U
200.8	05/18/05	200.8	05/19/05	7440-50-8	Copper	0.5	0.5	U
200.8	05/18/05	200.8	05/19/05	7439-92-1	Lead	1	1	U
200.8	05/18/05	200.8	05/19/05	7440-66-6	Zinc	4	4	U

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: GP-09 S
DUPLICATE

Lab Sample ID: IB06G
LIMS ID: 05-8254
Matrix: Water
Data Release Authorized:
Reported: 05/25/05

QC Report No: IB06-Geomatrix Consultants
Project: SPI Everett
10360
Date Sampled: 05/11/05
Date Received: 05/12/05

MATRIX DUPLICATE QUALITY CONTROL REPORT

Analyte	Analysis Method	Sample	Duplicate	RPD	Control Limit	Q
Arsenic	200.8	836	839	0.4%	+/- 20%	
Cadmium	200.8	0.2 U	0.2 U	0.0%	+/- 0.2	L
Chromium	200.8	0.5 U	0.5 U	0.0%	+/- 0.5	L
Copper	200.8	0.5 U	0.5 U	0.0%	+/- 0.5	L
Lead	200.8	1 U	1 U	0.0%	+/- 1	L
Zinc	200.8	4 U	4 U	0.0%	+/- 4	L

Reported in µg/L

*-Control Limit Not Met
L-RPD Invalid, Limit = Detection Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: GP-09 S
MATRIX SPIKE

Lab Sample ID: IB06G
LIMS ID: 05-8254
Matrix: Water
Data Release Authorized:
Reported: 05/25/05

QC Report No: IB06-Geomatrix Consultants
Project: SPI Everett
10360
Date Sampled: 05/11/05
Date Received: 05/12/05

MATRIX SPIKE QUALITY CONTROL REPORT

Analyte	Analysis Method	Sample	Spike	Spike Added	% Recovery	Q
Arsenic	200.8	836	856	25.0	80.0%	H
Cadmium	200.8	0.200 U	23.9	25.0	95.6%	
Chromium	200.8	0.500 U	19.3	25.0	77.2%	
Copper	200.8	0.500 U	23.2	25.0	92.8%	
Lead	200.8	1.00 U	25.3	25.0	101%	
Zinc	200.8	4.00 U	73.0	80.0	91.2%	

Reported in µg/L

N-Control Limit Not Met
H-% Recovery Not Applicable, Sample Concentration Too High
NA-Not Applicable, Analyte Not Spiked

Percent Recovery Limits: 75-125%

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: GP-09 D
SAMPLE

Lab Sample ID: IB06H
LIMS ID: 05-8255
Matrix: Water
Data Release Authorized:
Reported: 05/25/05

QC Report No: IB06-Geomatrix Consultants
Project: SPI Everett
10360
Date Sampled: 05/11/05
Date Received: 05/12/05

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
200.8	05/18/05	200.8	05/19/05	**7440-38-2**	**Arsenic**	0.2	1.8	
200.8	05/18/05	200.8	05/19/05	7440-43-9	Cadmium	0.2	0.2	U
200.8	05/18/05	200.8	05/20/05	**7440-47-3**	**Chromium**	1	11	
200.8	05/18/05	200.8	05/19/05	7440-50-8	Copper	0.5	0.5	U
200.8	05/18/05	200.8	05/19/05	7439-92-1	Lead	1	1	U
200.8	05/18/05	200.8	05/19/05	7440-66-6	Zinc	4	4	U

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: GP-10 S
SAMPLE

Lab Sample ID: IB06I
LIMS ID: 05-8256
Matrix: Water
Data Release Authorized:
Reported: 05/25/05

QC Report No: IB06-Geomatrix Consultants
Project: SPI Everett
10360
Date Sampled: 05/11/05
Date Received: 05/12/05

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
200.8	05/18/05	200.8	05/19/05	**7440-38-2**	**Arsenic**	0.2	59.3	
200.8	05/18/05	200.8	05/19/05	7440-43-9	Cadmium	0.2	0.2	U
200.8	05/18/05	200.8	05/19/05	7440-47-3	Chromium	0.5	0.5	U
200.8	05/18/05	200.8	05/19/05	**7440-50-8**	**Copper**	0.5	1.1	
200.8	05/18/05	200.8	05/19/05	7439-92-1	Lead	1	1	U
200.8	05/18/05	200.8	05/19/05	7440-66-6	Zinc	4	4	U

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: GP-10 D
SAMPLE

Lab Sample ID: IB06J
LIMS ID: 05-8257
Matrix: Water
Data Release Authorized:
Reported: 05/25/05

QC Report No: IB06-Geomatrix Consultants
Project: SPI Everett
10360
Date Sampled: 05/11/05
Date Received: 05/12/05

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
200.8	05/18/05	200.8	05/19/05	7440-38-2	Arsenic	0.2	6.6	
200.8	05/18/05	200.8	05/19/05	7440-43-9	Cadmium	0.2	0.2	U
200.8	05/18/05	200.8	05/19/05	7440-47-3	Chromium	0.5	0.5	U
200.8	05/18/05	200.8	05/19/05	7440-50-8	Copper	0.5	1.0	
200.8	05/18/05	200.8	05/19/05	7439-92-1	Lead	1	1	U
200.8	05/18/05	200.8	05/19/05	7440-66-6	Zinc	4	4	U

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: GP-11 S
SAMPLE

Lab Sample ID: IB06K
LIMS ID: 05-8258
Matrix: Water
Data Release Authorized:
Reported: 05/25/05

QC Report No: IB06-Geomatrix Consultants
Project: SPI Everett
10360
Date Sampled: 05/11/05
Date Received: 05/12/05

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
200.8	05/18/05	200.8	05/19/05	**7440-38-2**	**Arsenic**	0.2	53.2	
200.8	05/18/05	200.8	05/19/05	7440-43-9	Cadmium	0.2	0.2	U
200.8	05/18/05	200.8	05/19/05	7440-47-3	Chromium	0.5	0.5	U
200.8	05/18/05	200.8	05/19/05	**7440-50-8**	**Copper**	0.5	2.3	
200.8	05/18/05	200.8	05/19/05	7439-92-1	Lead	1	1	U
200.8	05/18/05	200.8	05/19/05	7440-66-6	Zinc	4	4	U

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: GP-11 D
SAMPLE

Lab Sample ID: IB06L
LIMS ID: 05-8259
Matrix: Water
Data Release Authorized:
Reported: 05/25/05

QC Report No: IB06-Geomatrix Consultants
Project: SPI Everett
10360
Date Sampled: 05/11/05
Date Received: 05/12/05

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
200.8	05/18/05	200.8	05/19/05	**7440-38-2**	**Arsenic**	0.5	1.2	
200.8	05/18/05	200.8	05/19/05	7440-43-9	Cadmium	0.2	0.2	U
200.8	05/18/05	200.8	05/19/05	**7440-47-3**	**Chromium**	0.5	0.9	
200.8	05/18/05	200.8	05/19/05	7440-50-8	Copper	0.5	0.5	U
200.8	05/18/05	200.8	05/19/05	7439-92-1	Lead	1	1	U
200.8	05/18/05	200.8	05/19/05	7440-66-6	Zinc	4	4	U

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: RIVER 5/11/05
SAMPLE

Lab Sample ID: IB06M
LIMS ID: 05-8260
Matrix: Water
Data Release Authorized:
Reported: 05/25/05

QC Report No: IB06-Geomatrix Consultants
Project: SPI Everett
10360
Date Sampled: 05/11/05
Date Received: 05/12/05

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
3010A	05/18/05	6010B	05/23/05	**7440-70-2**	**Calcium**	50	38,900	
3010A	05/18/05	6010B	05/23/05	**7439-95-4**	**Magnesium**	50	115,000	

Calculated Hardness (mg-CaCO3/L): 570

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS
Page 1 of 1

Sample ID: GP-06 S
SAMPLE

Lab Sample ID: IB06N
LIMS ID: 05-8261
Matrix: Water
Data Release Authorized: BC
Reported: 05/25/05

QC Report No: IB06-Geomatrix Consultants
Project: SPI Everett
10360
Date Sampled: 05/11/05
Date Received: 05/12/05

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
200.8	05/18/05	200.8	05/20/05	**7440-38-2**	**Arsenic**	0.2	**4.8**	
200.8	05/18/05	200.8	05/20/05	7440-43-9	Cadmium	0.2	0.2	U
200.8	05/18/05	200.8	05/23/05	7440-47-3	Chromium	1	1	U
200.8	05/18/05	200.8	05/20/05	**7440-50-8**	**Copper**	0.5	**0.8**	
200.8	05/18/05	200.8	05/20/05	7439-92-1	Lead	1	1	U
200.8	05/18/05	200.8	05/20/05	7440-66-6	Zinc	4	4	U

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: GP-06 D
SAMPLE

Lab Sample ID: IB06O
LIMS ID: 05-8262
Matrix: Water
Data Release Authorized:
Reported: 05/25/05

QC Report No: IB06-Geomatrix Consultants
Project: SPI Everett
10360
Date Sampled: 05/11/05
Date Received: 05/12/05

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
200.8	05/18/05	200.8	05/19/05	**7440-38-2**	**Arsenic**	0.2	2.3	
200.8	05/18/05	200.8	05/19/05	7440-43-9	Cadmium	0.2	0.2	U
200.8	05/18/05	200.8	05/20/05	**7440-47-3**	**Chromium**	0.5	4.0	
200.8	05/18/05	200.8	05/19/05	**7440-50-8**	**Copper**	0.5	0.7	
200.8	05/18/05	200.8	05/19/05	7439-92-1	Lead	1	1	U
200.8	05/18/05	200.8	05/19/05	7440-66-6	Zinc	4	4	U

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: GP-04 S
SAMPLE

Lab Sample ID: IB06P
LIMS ID: 05-8263
Matrix: Water
Data Release Authorized:
Reported: 05/25/05

QC Report No: IB06-Geomatrix Consultants
Project: SPI Everett
10360
Date Sampled: 05/11/05
Date Received: 05/12/05

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
200.8	05/18/05	200.8	05/20/05	7440-38-2	Arsenic	1	420	
200.8	05/18/05	200.8	05/19/05	7440-43-9	Cadmium	0.2	0.2	U
200.8	05/18/05	200.8	05/20/05	7440-47-3	Chromium	0.5	0.6	
200.8	05/18/05	200.8	05/19/05	7440-50-8	Copper	0.5	0.6	
200.8	05/18/05	200.8	05/19/05	7439-92-1	Lead	1	1	U
200.8	05/18/05	200.8	05/19/05	7440-66-6	Zinc	4	4	U

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: GP-04 D
SAMPLE

Lab Sample ID: IB06Q
LIMS ID: 05-8264
Matrix: Water
Data Release Authorized:
Reported: 05/25/05

QC Report No: IB06-Geomatrix Consultants
Project: SPI Everett
10360
Date Sampled: 05/11/05
Date Received: 05/12/05

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
200.8	05/18/05	200.8	05/19/05	**7440-38-2**	**Arsenic**	0.2	2.8	
200.8	05/18/05	200.8	05/19/05	7440-43-9	Cadmium	0.2	0.2	U
200.8	05/18/05	200.8	05/20/05	**7440-47-3**	**Chromium**	0.5	4.7	
200.8	05/18/05	200.8	05/19/05	**7440-50-8**	**Copper**	0.5	0.6	
200.8	05/18/05	200.8	05/19/05	7439-92-1	Lead	1	1	U
200.8	05/18/05	200.8	05/19/05	7440-66-6	Zinc	4	4	U

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: GP-04 DD
SAMPLE

Lab Sample ID: IB06R
LIMS ID: 05-8265
Matrix: Water
Data Release Authorized:
Reported: 05/25/05

QC Report No: IB06-Geomatrix Consultants
Project: SPI Everett
10360
Date Sampled: 05/11/05
Date Received: 05/12/05

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
200.8	05/18/05	200.8	05/19/05	**7440-38-2**	**Arsenic**	0.2	1.1	
200.8	05/18/05	200.8	05/19/05	7440-43-9	Cadmium	0.2	0.2	U
200.8	05/18/05	200.8	05/19/05	7440-47-3	Chromium	0.5	0.5	U
200.8	05/18/05	200.8	05/19/05	7440-50-8	Copper	0.5	0.5	U
200.8	05/18/05	200.8	05/19/05	7439-92-1	Lead	1	1	U
200.8	05/18/05	200.8	05/19/05	7440-66-6	Zinc	4	4	U

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: GP-05 S
SAMPLE

Lab Sample ID: IB06S
LIMS ID: 05-8266
Matrix: Water
Data Release Authorized:
Reported: 05/25/05

QC Report No: IB06-Geomatrix Consultants
Project: SPI Everett
10360
Date Sampled: 05/11/05
Date Received: 05/12/05

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
200.8	05/18/05	200.8	05/19/05	7440-38-2	Arsenic	0.2	17.8	
200.8	05/18/05	200.8	05/19/05	7440-43-9	Cadmium	0.2	0.2	U
200.8	05/18/05	200.8	05/20/05	7440-47-3	Chromium	0.5	3.8	
200.8	05/18/05	200.8	05/19/05	7440-50-8	Copper	0.5	6.2	
200.8	05/18/05	200.8	05/19/05	7439-92-1	Lead	1	3	
200.8	05/18/05	200.8	05/19/05	7440-66-6	Zinc	4	15	

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: GP-05 D
SAMPLE

Lab Sample ID: IB06T
LIMS ID: 05-8267
Matrix: Water
Data Release Authorized:
Reported: 05/25/05

QC Report No: IB06-Geomatrix Consultants
Project: SPI Everett
10360
Date Sampled: 05/11/05
Date Received: 05/12/05

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
200.8	05/18/05	200.8	05/19/05	**7440-38-2**	**Arsenic**	0.2	**1.4**	
200.8	05/18/05	200.8	05/19/05	7440-43-9	Cadmium	0.2	0.2	U
200.8	05/18/05	200.8	05/20/05	**7440-47-3**	**Chromium**	0.5	**3.7**	
200.8	05/18/05	200.8	05/19/05	**7440-50-8**	**Copper**	0.5	**2.0**	
200.8	05/18/05	200.8	05/19/05	7439-92-1	Lead	1	1	U
200.8	05/18/05	200.8	05/19/05	7440-66-6	Zinc	4	4	U

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS
Page 1 of 1

Sample ID: MW-102S
SAMPLE

Lab Sample ID: IB06U
LIMS ID: 05-8268
Matrix: Water
Data Release Authorized:
Reported: 05/25/05

QC Report No: IB06-Geomatrix Consultants
Project: SPI Everett
10360
Date Sampled: 05/12/05
Date Received: 05/12/05

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
200.8	05/18/05	200.8	05/19/05	**7440-38-2**	**Arsenic**	0.2	**1.6**	
200.8	05/18/05	200.8	05/19/05	7440-43-9	Cadmium	0.2	0.2	U
200.8	05/18/05	200.8	05/19/05	7440-47-3	Chromium	0.5	0.5	U
200.8	05/18/05	200.8	05/19/05	**7440-50-8**	**Copper**	0.5	**0.7**	
200.8	05/18/05	200.8	05/19/05	7439-92-1	Lead	1	1	U
200.8	05/18/05	200.8	05/19/05	**7440-66-6**	**Zinc**	4	5	

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: MW104 S
SAMPLE

Lab Sample ID: IB06V
LIMS ID: 05-8269
Matrix: Water
Data Release Authorized:
Reported: 05/25/05

QC Report No: IB06-Geomatrix Consultants
Project: SPI Everett
10360
Date Sampled: 05/12/05
Date Received: 05/12/05

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
200.8	05/18/05	200.8	05/19/05	7440-38-2	Arsenic	0.2	0.4	
200.8	05/18/05	200.8	05/19/05	7440-43-9	Cadmium	0.2	0.2	U
200.8	05/18/05	200.8	05/19/05	7440-47-3	Chromium	0.5	0.5	U
200.8	05/18/05	200.8	05/19/05	7440-50-8	Copper	0.5	2.0	
200.8	05/18/05	200.8	05/19/05	7439-92-1	Lead	1	1	U
200.8	05/18/05	200.8	05/19/05	7440-66-6	Zinc	4	4	U

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS
Page 1 of 1

Sample ID: METHOD BLANK

Lab Sample ID: IB06MB
LIMS ID: 05-8249
Matrix: Soil
Data Release Authorized:
Reported: 05/25/05

QC Report No: IB06-Geomatrix Consultants
Project: SPI Everett
10360
Date Sampled: NA
Date Received: NA

Percent Total Solids: NA

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	05/17/05	6010B	05/23/05	7440-38-2	Arsenic	5	5	U
3050B	05/17/05	6010B	05/23/05	7440-43-9	Cadmium	0.2	0.2	U
3050B	05/17/05	6010B	05/23/05	7440-47-3	Chromium	0.5	0.5	U
3050B	05/17/05	6010B	05/23/05	7440-50-8	Copper	0.2	0.2	U
3050B	05/17/05	6010B	05/23/05	7439-92-1	Lead	2	2	U
3050B	05/17/05	6010B	05/23/05	7440-66-6	Zinc	0.6	0.6	U

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS
Page 1 of 1

Sample ID: LAB CONTROL

Lab Sample ID: IB06LCS
LIMS ID: 05-8249
Matrix: Soil
Data Release Authorized:
Reported: 05/25/05

QC Report No: IB06-Geomatrix Consultants
Project: SPI Everett
10360
Date Sampled: NA
Date Received: NA

BLANK SPIKE QUALITY CONTROL REPORT

Analyte	Analysis Method	Spike Found	Spike Added	% Recovery	Q
Arsenic	6010B	211	200	106%	
Cadmium	6010B	50.9	50.0	102%	
Chromium	6010B	50.1	50.0	100%	
Copper	6010B	50.1	50.0	100%	
Lead	6010B	205	200	102%	
Zinc	6010B	50.0	50.0	100%	

Reported in mg/kg-dry

N-Control limit not met
Control Limits: 80-120%

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: METHOD BLANK

Lab Sample ID: IB06MB
LIMS ID: 05-8255
Matrix: Water
Data Release Authorized:
Reported: 05/25/05

QC Report No: IB06-Geomatrix Consultants
Project: SPI Everett
10360
Date Sampled: NA
Date Received: NA

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
200.8	05/18/05	200.8	05/19/05	7440-38-2	Arsenic	0.2	0.2	U
200.8	05/18/05	200.8	05/19/05	7440-43-9	Cadmium	0.2	0.2	U
3010A	05/18/05	6010B	05/23/05	7440-70-2	Calcium	50	50	U
200.8	05/18/05	200.8	05/19/05	7440-47-3	Chromium	0.5	0.5	U
200.8	05/18/05	200.8	05/19/05	7440-50-8	Copper	0.5	0.5	U
200.8	05/18/05	200.8	05/19/05	7439-92-1	Lead	1	1	U
3010A	05/18/05	6010B	05/23/05	7439-95-4	Magnesium	50	50	U
200.8	05/18/05	200.8	05/19/05	7440-66-6	Zinc	4	4	U

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: LAB CONTROL

Lab Sample ID: IB06LCS
LIMS ID: 05-8255
Matrix: Water
Data Release Authorized:
Reported: 05/25/05

QC Report No: IB06-Geomatrix Consultants
Project: SPI Everett
10360
Date Sampled: NA
Date Received: NA

BLANK SPIKE QUALITY CONTROL REPORT

Analyte	Analysis Method	Spike Found	Spike Added	% Recovery	Q
Arsenic	200.8	25.3	25.0	101%	
Cadmium	200.8	24.5	25.0	98.0%	
Calcium	6010B	10400	10000	104%	
Chromium	200.8	25.2	25.0	101%	
Copper	200.8	25.5	25.0	102%	
Lead	200.8	25.8	25.0	103%	
Magnesium	6010B	10800	10000	108%	
Zinc	200.8	77.4	80.0	96.8%	

Reported in µg/L

N-Control limit not met
Control Limits: 80-120%

SAMPLE RESULTS-CONVENTIONALS
IB06-Geomatrix Consultants

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized: JC
Reported: 05/17/05

Project: SPI Everett
Event: 10360
Date Sampled: 05/11/05
Date Received: 05/12/05

Client ID: GP-10 S
ARI ID: 05-8256 IB06I

Analyte	Date Batch	Method	Units	RL	Sample
Total Suspended Solids	05/13/05 051305#1	EPA 160.2	mg/L	10.0	409

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
IB06-Geomatrix Consultants

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized: JL
Reported: 05/17/05

Project: SPI Everett
Event: 10360
Date Sampled: 05/11/05
Date Received: 05/12/05

Client ID: GP-10 D
ARI ID: 05-8257 IB06J

Analyte	Date Batch	Method	Units	RL	Sample
Total Suspended Solids	05/13/05 051305#1	EPA 160.2	mg/L	33.3	4,000

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
IB06-Geomatrix Consultants

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized:
Reported: 05/17/05

Project: SPI Everett
Event: 10360
Date Sampled: 05/11/05
Date Received: 05/12/05

Client ID: GP-11 S
ARI ID: 05-8258 IB06K

Analyte	Date Batch	Method	Units	RL	Sample
Total Suspended Solids	05/13/05 051305#1	EPA 160.2	mg/L	1.1	6.6

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
IB06-Geomatrix Consultants

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized:
Reported: 05/17/05

Project: SPI Everett
Event: 10360
Date Sampled: 05/11/05
Date Received: 05/12/05

Client ID: GP-11 D
ARI ID: 05-8259 IB06L

Analyte	Date Batch	Method	Units	RL	Sample
Total Suspended Solids	05/13/05 051305#1	EPA 160.2	mg/L	10.0	1,380

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
IB06-Geomatrix Consultants

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized:
Reported: 05/17/05

Project: SPI Everett
Event: 10360
Date Sampled: 05/12/05
Date Received: 05/12/05

Client ID: MW-102S
ARI ID: 05-8268 IB06U

Analyte	Date Batch	Method	Units	RL	Sample
Total Suspended Solids	05/13/05 051305#1	EPA 160.2	mg/L	1.1	4.6

RL Analytical reporting limit
U Undetected at reported detection limit

METHOD BLANK RESULTS-CONVENTIONALS
IB06-Geomatrix Consultants

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized:
Reported: 05/17/05

Project: SPI Everett
Event: 10360
Date Sampled: NA
Date Received: NA

Analyte	Date	Units	Blank
Total Suspended Solids	05/13/05	mg/L	< 1.0 U

LAB CONTROL RESULTS-CONVENTIONALS
IB06-Geomatrix Consultants

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized:
Reported: 05/17/05

Project: SPI Everett
Event: 10360
Date Sampled: NA
Date Received: NA

Analyte	Date	Units	LCS	Spike Added	Recovery
Total Suspended Solids	05/13/05	mg/L	49.9	50.0	99.8%

REPLICATE RESULTS-CONVENTIONALS
IB06-Geomatrix Consultants

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized
Reported: 05/17/05

Project: SPI Everett
Event: 10360
Date Sampled: 05/11/05
Date Received: 05/12/05

Analyte	Date	Units	Sample	Replicate(s)	RPD/RSD
ARI ID: IB06I Client ID: GP-10 S					
Total Suspended Solids	05/13/05	mg/L	409	458	11.3%

Data Reporting Qualifiers

Effective 12/28/04

Inorganic Data

U Indicates that the target analyte was not detected at the reported concentration

* Duplicate RPD is not within established control limits

B Reported value is less than the CRDL but ≥ the Reporting Limit

N Matrix Spike recovery not within established control limits

NA Not Applicable, analyte not spiked

H The natural concentration of the spiked element is so much greater than the concentration spiked that an accurate determination of spike recovery is not possible

L Analyte concentration is ≤5 times the Reporting Limit and the replicate control limit defaults to ±1 RL instead of the normal 20% RPD

Organic Data

U Indicates that the target analyte was not detected at the reported concentration

* Flagged value is not within established control limits

B Analyte detected in an associated Method Blank at a concentration greater than one-half of ARI's Reporting Limit or 5% of the regulatory limit or 5% of the analyte concentration in the sample.

J Estimated concentration when the value is less than ARI's established reporting limits

D The spiked compound was not detected due to sample extract dilution

NR Spiked compound recovery is not reported due to chromatographic interference

E Estimated concentration calculated for an analyte response above the valid instrument calibration range. A dilution is required to obtain an accurate quantification of the analyte.

S Indicates an analyte response that has saturated the detector. The calculated concentration is not valid; a dilution is required to obtain valid quantification of the analyte

NA The flagged analyte was not analyzed for

NS The flagged analyte was not spiked into the sample

M Estimated value for an analyte detected and confirmed by an analyst but with low spectral match parameters. This flag is used only for GC-MS analyses

N The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification"

Y The analyte is not detected at or above the reported concentration. The reporting limit is raised due to chromatographic interference. The Y flag is equivalent to the U flag with a raised reporting limit.

C The analyte was positively identified on only one of two chromatographic columns. Chromatographic interference prevented a positive identification on the second column

P The analyte was detected on both chromatographic columns but the quantified values differ by ≥40% RPD with no obvious chromatographic interference

Geotechnical Data

SM Sample matrix was not appropriate for the requested analysis. This normally refers to samples contaminated with an organic product that interferes with the sieving process and/or moisture content, porosity and saturation calculations

SS Sample did not contain the proportion of "fines" required to perform the pipette portion of the grain size analysis

W Weight of sample in some pipette aliquots was below the level required for accurate weighting

F Samples were frozen prior to particle size determination

Analytical Resources, Incorporated
Analytical Chemists and Consultants
May 25, 2005

Joe Morrice
GeoMatrix Consultants
600 University, Suite 1020
Seattle, WA 98101

RE: Project: SPI Everett
ARI Job No: IB04

Dear Joe:

Please find enclosed a sample custody record (COC) and a set of analytical results for the samples from the project referenced above. Analytical Resources, Inc. accepted five soil samples and ten water samples in good condition on May 12, 2005.

Selected samples were analyzed for PAH, PCB, NWTPH-Dx, and total metals, as requested on the COC.

Please refer to the case narrative for anomalies associated with these samples.

Copies of these reports and all associated raw data will be kept on file electronically at ARI. If you have any questions or require additional information, please contact me at your convenience.

Sincerely,

ANALYTICAL RESOURCES, INC.

Stephanie Lucas
Project Manager
steph@arilabs.com
(206) 695-6213

Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number: IB04	Turn-around Requested: STD	Page: 1 of 5	
ARI Client Company: GEOMATRIX	Phone: 206-342-1760	Date: 5-10-05	Ice Present? Y
Client Contact: Joe Marcic		No. of Coolers: 3	Cooler Temps: 3.5, 4.0, 6.0
Client Project Name: SPI Everett			
Client Project #: 10360	Samplers: JAM		

Analytical Resources, Incorporated
Analytical Chemists and Consultants
4611 South 134th Place, Suite 100
Tukwila, WA 98168
206-695-6200 206-695-6201 (fax)

Sample ID	Date	Time	Matrix	No. Containers	Analysis Requested: METALS	TPH-Dx	PCB's						Notes/Comments
GP-01 0.1-1.0	5-10	930	S	1	X								
GP-01 S		945	W	1	X								
GP-01 D		1030	W	1	X								
GP-02 1-1.0		1115	S	1	X								
GP-02 S		1125	W	1	X								
GP-02 D		1200	W	1	X								
GP-03 2-3		1240	S	1	X								
GP-03 S		1255	W	1	X								
GP-03 D		1400	W	1	X								
GP-07 4-12		1455	S	1	X	X	X						

Comments/Special Instructions	Relinquished by: (Signature)	Received by: (Signature)	Relinquished by: (Signature)	Received by: (Signature)
	Printed Name: Joe Marcic	Printed Name: Brian Kegel	Printed Name:	Printed Name:
	Company: GMX	Company: ARI	Company:	Company:
	Date & Time: 5-12-05 1416	Date & Time: 5/12/05 1416	Date & Time:	Date & Time:

Limits of Liability: *ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, not withstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.*

Sample Retention Policy: All samples submitted to ARI will be appropriately discarded no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer, unless alternate retention schedules have been established by work-order or contract.

Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number:	Turn-around Requested: STD	Page: 2 of 5	
ARI Client Company: GEOMATRIX	Phone: 206-342-1760	Date: 5-12-05	Ice Present?
Client Contact: JOE MORRICS		No. of Coolers:	Cooler Temps: 3.5, 4.0, 6.0
Client Project Name: SPU CROFT			
Client Project #: 10360	Samplers: JWM		

Analytical Resources, Incorporated
Analytical Chemists and Consultants
4611 South 134th Place, Suite 100
Tukwila, WA 98168
206-695-6200 206-695-6201 (fax)

Sample ID	Date	Time	Matrix	No. Containers	Analysis Requested: METALS	TPH-DX	PCBS	PAHS					Notes/Comments
~~SPU~~ GP-07 S	5-10	1520	W	1	X								
GP-07 D		1550	W	1	X								
GP-08 6-11		1620	S	2	X	X	X	X					
GP-08 S		1640	W	1	X								
GP-08 D		1720	W	1	X								

Comments/Special Instructions	Relinquished by: (Signature)	Received by: (Signature)	Relinquished by: (Signature)	Received by: (Signature)
	Printed Name: JOE MORRICS	Printed Name: BRIAN MCGEE	Printed Name:	Printed Name:
	Company: GMX	Company: ARI	Company:	Company:
	Date & Time: 5-12-05 1416	Date & Time: 5/12/05 1416	Date & Time:	Date & Time:

Limits of Liability: *ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, not withstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.*

Sample Retention Policy: All samples submitted to ARI will be appropriately discarded no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer, unless alternate retention schedules have been established by work-order or contract.

ANALYTICAL
RESOURCES
INCORPORATED

Case Narrative
SPI Everett
ARI Job: IB04
May 25, 2005

PAH by 8270C

The soil samples were screened prior to extraction on 5/18/05. The samples were analyzed on 5/19/05 within the method recommended holding time

Surrogates: All surrogate recoveries were within ARI calculated control limits.

Method Blank: The method blank was free of analytes of interest.

Samples: No anomalies were associated with these samples.

LCS/LCSD (s): All percent recoveries and RPDs were within control limits.

PCBs by 8082

The soil samples were screened prior to extraction on 5/16/05. The samples were analyzed on 5/17/05 within the method recommended holding time

Surrogates: All surrogate recoveries were within ARI calculated control limits.

Method Blank: The method blank was free of analytes of interest.

Samples: Aroclor 1254 is "J" flagged in sample **GP-07 4-12.** The "J" indicates an estimated concentration when the value is less than ARI's established reporting limit(s).

No other anomalies were associated with these samples.

LCS/LCSD (s): All percent recoveries and RPDs were within control limits.

NWTWPH-Dx

The soil samples were extracted on 5/13/05. The samples were analyzed on 5/16/05 within the method recommended holding time

Surrogates: All surrogate recoveries were within ARI calculated control limits.

Method Blank: The method blank was free of analytes of interest.

Samples: Sample **GP-07 4-12** was analyzed at a 10X dilution. No anomalies were associated with these samples.

LCS/LCSD (s): All percent recoveries and RPDs were within control limits.

ANALYTICAL
RESOURCES
INCORPORATED

Case Narrative
SPI Everett
ARI Job: IB04
May 25, 2005

Total Metals by 6010B

The samples were prepped on 5/16/05. The samples were analyzed between 5/19/05 and 5/23/05 within the method recommended holding time.

Method Blank: The method blanks were free of contamination.

Samples: No anomalies were associated with these samples.

LCS/Spike Blank: All percent recoveries were in control.

ANALYTICAL RESOURCES INCORPORATED

SW8270 PNA SURROGATE RECOVERY SUMMARY

Matrix: Soil

QC Report No: IB04-Geomatrix Consultants
Project: SPI EVERETT
10360

Client ID	TER	FBP	TOT OUT
MB-051805	83.2%	67.2%	0
LCS-051805	79.6%	65.6%	0
LCSD-051805	76.0%	62.8%	0
GP-08 6-11	74.0%	61.2%	0

	LCS/MB LIMITS	QC LIMITS
(TER) = d14-p-Terphenyl	(50-113)	(30-123)
(FBP) = 2-Fluorobiphenyl	(30-160)	(30-160)

Prep Method: SW3550B
Log Number Range: 05-8234 to 05-8234

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by SW8270C GC/MS
Page 1 of 1

Sample ID: MB-051805
METHOD BLANK

Lab Sample ID: MB-051805
LIMS ID: 05-8234
Matrix: Soil
Data Release Authorized:
Reported: 05/23/05

QC Report No: IB04-Geomatrix Consultants
Project: SPI EVERETT
10360
Date Sampled: NA
Date Received: NA

Date Extracted: 05/18/05
Date Analyzed: 05/19/05 11:09
Instrument/Analyst: NT6/LJR
GPC Cleanup: No
Alumina: Yes

Sample Amount: 7.50 g
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: NA
pH: NA

CAS Number	Analyte	RL	Result
91-20-3	Naphthalene	67	< 67 U
91-57-6	2-Methylnaphthalene	67	< 67 U
208-96-8	Acenaphthylene	67	< 67 U
83-32-9	Acenaphthene	67	< 67 U
86-73-7	Fluorene	67	< 67 U
85-01-8	Phenanthrene	67	< 67 U
120-12-7	Anthracene	67	< 67 U
206-44-0	Fluoranthene	67	< 67 U
129-00-0	Pyrene	67	< 67 U
56-55-3	Benzo(a)anthracene	67	< 67 U
218-01-9	Chrysene	67	< 67 U
205-99-2	Benzo(b)fluoranthene	67	< 67 U
207-08-9	Benzo(k)fluoranthene	67	< 67 U
50-32-8	Benzo(a)pyrene	67	< 67 U
193-39-5	Indeno(1,2,3-cd)pyrene	67	< 67 U
53-70-3	Dibenz(a,h)anthracene	67	< 67 U
191-24-2	Benzo(g,h,i)perylene	67	< 67 U
132-64-9	Dibenzofuran	67	< 67 U

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery	
d14-p-Terphenyl	83.2%
2-Fluorobiphenyl	67.2%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by SW8270C GC/MS
Page 1 of 1

Sample ID: GP-08 6-11
SAMPLE

Lab Sample ID: IB04E
LIMS ID: 05-8234
Matrix: Soil
Data Release Authorized:
Reported: 05/23/05

QC Report No: IB04-Geomatrix Consultants
Project: SPI EVERETT
10360
Date Sampled: 05/10/05
Date Received: 05/12/05

Date Extracted: 05/18/05
Date Analyzed: 05/19/05 16:25
Instrument/Analyst: NT6/LJR
GPC Cleanup: No
Alumina: Yes

Sample Amount: 6.36 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: 15.4%
pH: 7.0

CAS Number	Analyte	RL	Result
91-20-3	Naphthalene	79	< 79 U
91-57-6	2-Methylnaphthalene	79	< 79 U
208-96-8	Acenaphthylene	79	< 79 U
83-32-9	Acenaphthene	79	< 79 U
86-73-7	Fluorene	79	< 79 U
85-01-8	Phenanthrene	79	< 79 U
120-12-7	Anthracene	79	< 79 U
206-44-0	Fluoranthene	79	< 79 U
129-00-0	Pyrene	79	< 79 U
56-55-3	Benzo(a)anthracene	79	< 79 U
218-01-9	Chrysene	79	< 79 U
205-99-2	Benzo(b)fluoranthene	79	< 79 U
207-08-9	Benzo(k)fluoranthene	79	< 79 U
50-32-8	Benzo(a)pyrene	79	< 79 U
193-39-5	Indeno(1,2,3-cd)pyrene	79	< 79 U
53-70-3	Dibenz(a,h)anthracene	79	< 79 U
191-24-2	Benzo(g,h,i)perylene	79	< 79 U
132-64-9	Dibenzofuran	79	< 79 U

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery	
d14-p-Terphenyl	74.0%
2-Fluorobiphenyl	61.2%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by SW8270C GC/MS
Page 1 of 1

Sample ID: LCS-051805
LCS/LCSD

Lab Sample ID: LCS-051805
LIMS ID: 05-8234
Matrix: Soil
Data Release Authorized:
Reported: 05/23/05

QC Report No: IB04-Geomatrix Consultants
Project: SPI EVERETT
10360
Date Sampled: NA
Date Received: 05/12/05

Date Extracted LCS/LCSD: 05/18/05

Date Analyzed LCS: 05/19/05 11:40
LCSD: 05/19/05 12:12
Instrument/Analyst LCS: NT6/LJR
LCSD: NT6/LJR
GPC Cleanup: NO

Sample Amount LCS: 7.50 g
LCSD: 7.50 g
Final Extract Volume LCS: 0.50 mL
LCSD: 0.50 mL
Dilution Factor LCS: 1.00
LCSD: 1.00
Alumina Cleanup: YES

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
Naphthalene	973	1670	58.3%	985	1670	59.0%	1.2%
Acenaphthene	1040	1670	62.3%	1050	1670	62.9%	1.0%
Fluoranthene	1250	1670	74.9%	1240	1670	74.3%	0.8%
Benzo(a)anthracene	1220	1670	73.1%	1220	1670	73.1%	0.0%

Semivolatile Surrogate Recovery

	LCS	LCSD
d14-p-Terphenyl	79.6%	76.0%
2-Fluorobiphenyl	65.6%	62.8%

Results reported in µg/kg
RPD calculated using sample concentrations per SW846.

ANALYTICAL RESOURCES INCORPORATED

SW8082/PCB SOIL/SEDIMENTS SURROGATE RECOVERY SUMMARY

Matrix: Soil

QC Report No: IB04-Geomatrix Consultants
Project: SPI EVERETT
10360

Client ID	DCBP	TCMX	TOT OUT
MB-051605	117%	78.5%	0
LCS-051605	111%	90.2%	0
LCSD-051605	110%	90.2%	0
GP-07 4-12	127%	100%	0
GP-08 6-11	131%	94.8%	0

	LCS/MB LIMITS	QC LIMITS
(DCBP) = Decachlorobiphenyl	(49-140)	(30-164)
(TCMX) = Tetrachlorometaxylene	(30-135)	(26-143)

Prep Method: SW3550B
Log Number Range: 05-8233 to 05-8234

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082
Page 1 of 1

Sample ID: MB-051605
METHOD BLANK

Lab Sample ID: MB-051605
LIMS ID: 05-8233
Matrix: Soil
Data Release Authorized:
Reported: 05/18/05

QC Report No: IB04-Geomatrix Consultants
Project: SPI EVERETT
10360
Date Sampled: NA
Date Received: NA

Date Extracted: 05/16/05
Date Analyzed: 05/17/05 18:42
Instrument/Analyst: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes

Sample Amount: 12.0 g
Final Extract Volume: 4.0 mL
Dilution Factor: 1.00
Silica Gel: No
pH: NA
Percent Moisture: NA

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	33	< 33 U
53469-21-9	Aroclor 1242	33	< 33 U
12672-29-6	Aroclor 1248	33	< 33 U
11097-69-1	Aroclor 1254	33	< 33 U
11096-82-5	Aroclor 1260	33	< 33 U
11104-28-2	Aroclor 1221	33	< 33 U
11141-16-5	Aroclor 1232	33	< 33 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	117%
Tetrachlorometaxylene	78.5%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082
Page 1 of 1

Sample ID: GP-07 4-12
SAMPLE

Lab Sample ID: IB04D
LIMS ID: 05-8233
Matrix: Soil
Data Release Authorized:
Reported: 05/18/05

QC Report No: IB04-Geomatrix Consultants
Project: SPI EVERETT
10360
Date Sampled: 05/10/05
Date Received: 05/12/05

Date Extracted: 05/16/05
Date Analyzed: 05/17/05 19:33
Instrument/Analyst: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes

Sample Amount: 10.0 g-dry-wt
Final Extract Volume: 4.0 mL
Dilution Factor: 1.00
Silica Gel: No
pH: 7.1
Percent Moisture: 16.7%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	40	< 40 U
53469-21-9	Aroclor 1242	40	< 40 U
12672-29-6	Aroclor 1248	40	< 40 U
11097-69-1	**Aroclor 1254**	**40**	**47 J**
11096-82-5	Aroclor 1260	40	< 40 U
11104-28-2	Aroclor 1221	40	< 40 U
11141-16-5	Aroclor 1232	40	< 40 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	127%
Tetrachlorometaxylene	100%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082
Page 1 of 1

Sample ID: GP-08 6-11
SAMPLE

Lab Sample ID: IB04E
LIMS ID: 05-8234
Matrix: Soil
Data Release Authorized:
Reported: 05/18/05

QC Report No: IB04-Geomatrix Consultants
Project: SPI EVERETT
10360
Date Sampled: 05/10/05
Date Received: 05/12/05

Date Extracted: 05/16/05
Date Analyzed: 05/17/05 19:50
Instrument/Analyst: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes

Sample Amount: 10.2 g-dry-wt
Final Extract Volume: 4.0 mL
Dilution Factor: 1.00
Silica Gel: No
pH: 7.0
Percent Moisture: 15.4%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	39	< 39 U
53469-21-9	Aroclor 1242	39	< 39 U
12672-29-6	Aroclor 1248	39	< 39 U
11097-69-1	Aroclor 1254	39	< 39 U
11096-82-5	Aroclor 1260	39	< 39 U
11104-28-2	Aroclor 1221	39	< 39 U
11141-16-5	Aroclor 1232	39	< 39 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	131%
Tetrachlorometaxylene	94.8%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD MethodSW8082
Page 1 of 1

Sample ID: LCS-051605
LCS/LCSD

Lab Sample ID: LCS-051605
LIMS ID: 05-8233
Matrix: Soil
Data Release Authorized:
Reported: 05/18/05

QC Report No: IB04-Geomatrix Consultants
Project: SPI EVERETT
10360
Date Sampled: NA
Date Received: NA

Date Extracted LCS/LCSD: 05/16/05

Date Analyzed LCS: 05/17/05 18:59
LCSD: 05/17/05 19:16
Instrument/Analyst LCS: ECD5/PK
LCSD: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes

Sample Amount LCS: 12.0 g-dry-wt
LCSD: 12.0 g-dry-wt
Final Extract Volume LCS: 4.0 mL
LCSD: 4.0 mL
Dilution Factor LCS: 1.00
LCSD: 1.00
Silica Gel: No
pH: NA
Percent Moisture: NA

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
Aroclor 1016	130	167	78.0%	143	167	85.8%	9.5%
Aroclor 1260	176	167	106%	183	167	110%	3.9%

PCB Surrogate Recovery

	LCS	LCSD
Decachlorobiphenyl	111%	110%
Tetrachlorometaxylene	90.2%	90.2%

Results reported in µg/kg (ppb)
RPD calculated using sample concentrations per SW846.

ANALYTICAL RESOURCES INCORPORATED

TPHD SURROGATE RECOVERY SUMMARY

Matrix: Soil

QC Report No: IB04-Geomatrix Consultants
Project: SPI EVERETT
10360

Client ID	OTER	TOT OUT
051305MBS	91.8%	0
051305LCS	86.0%	0
051305LCSD	86.9%	0
GP-07 4-12	78.7%	0
GP-08 6-11	95.6%	0

	LCS/MB LIMITS	QC LIMITS
(OTER) = o-Terphenyl	(39-134)	(26-128)

Prep Method: SW3550B
Log Number Range: 05-8233 to 05-8234

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
TOTAL DIESEL RANGE HYDROCARBONS
NWTPHD by GC/FID
Page 1 of 1
Matrix: Soil

QC Report No: IB04-Geomatrix Consultants
Project: SPI EVERETT
10360
Date Received: 05/12/05

Data Release Authorized:
Reported: 05/17/05

ARI ID	Sample ID	Extraction Date	Analysis Date	DL	Range	Result
MB-051305	Method Blank	05/13/05	05/16/05	1.0	Diesel	< 5.0 U
05-8233	HC ID: ---		FID3A		Motor Oil	< 10 U
					o-Terphenyl	91.8%
IB04D	GP-07 4-12	05/13/05	05/16/05	10	**Diesel**	**80**
05-8233	HC ID: **DRO/MOTOR OIL**		FID3A		**Motor Oil**	**590**
					o-Terphenyl	78.7%
IB04E	GP-08 6-11	05/13/05	05/16/05	1.0	Diesel	< 5.9 U
05-8234	HC ID: **RRO**		FID3A		**Motor Oil**	**12**
					o-Terphenyl	95.6%

Reported in mg/kg (ppm)

Diesel quantitation on total peaks in the range from C12 to C24.
Motor Oil quantitation on total peaks in the range from C24 to C38.
HC ID: DRO/RRO indicates results of organics or additional hydrocarbons in ranges are not identifiable.

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
NWTPHD by GC/FID
Page 1 of 1

Sample ID: LCS-051305
LCS/LCSD

Lab Sample ID: LCS-051305
LIMS ID: 05-8233
Matrix: Soil
Data Release Authorized:
Reported: 05/17/05

QC Report No: IB04-Geomatrix Consultants
Project: SPI EVERETT
10360
Date Sampled: 05/10/05
Date Received: 05/12/05

Date Extracted LCS/LCSD: 05/13/05

Date Analyzed LCS: 05/16/05 22:05
LCSD: 05/16/05 22:20
Instrument/Analyst LCS: FID/JGR
LCSD: FID/JGR

Sample Amount LCS: 10.0 g
LCSD: 10.0 g
Final Extract Volume LCS: 1.0 mL
LCSD: 1.0 mL
Dilution Factor LCS: 1.00
LCSD: 1.00

Range	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
Diesel	127	150	84.7%	127	150	84.7%	0.0%

TPHD Surrogate Recovery

	LCS	LCSD
o-Terphenyl	86.0%	86.9%

Results reported in mg/kg
RPD calculated using sample concentrations per SW846.

ANALYTICAL RESOURCES INCORPORATED

TOTAL DIESEL RANGE HYDROCARBONS-EXTRACTION REPORT

Matrix: Soil
Date Received: 05/12/05

ARI Job: IB04
Project: SPI EVERETT
10360

ARI ID	Client ID	Client Amt	Final Vol	Basis	Prep Date
05-8233-051305MB1	Method Blank	10.0 g	1.00 mL	-	05/13/05
05-8233-051305LCS1	Lab Control	10.0 g	1.00 mL	-	05/13/05
05-8233-051305LCSD1	Lab Control Dup	10.0 g	1.00 mL	-	05/13/05
05-8233-IB04D	GP-07 4-12	8.35 g	1.00 mL	D	05/13/05
05-8234-IB04E	GP-08 6-11	8.49 g	1.00 mL	D	05/13/05

Basis: D=Dry Weight W=As Received

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS
Page 1 of 1

Sample ID: GP-01 1-10
SAMPLE

Lab Sample ID: IB04A
LIMS ID: 05-8230
Matrix: Soil
Data Release Authorized: BK
Reported: 05/25/05

QC Report No: IB04-Geomatrix Consultants
Project: SPI EVERETT
10360
Date Sampled: 05/10/05
Date Received: 05/12/05

Percent Total Solids: 83.4%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	05/16/05	6010B	05/19/05	7440-38-2	Arsenic	6	31	
3050B	05/16/05	6010B	05/19/05	7440-43-9	Cadmium	0.2	0.2	U
3050B	05/16/05	6010B	05/19/05	7440-47-3	Chromium	0.6	28.8	
3050B	05/16/05	6010B	05/19/05	7440-50-8	Copper	0.2	24.3	
3050B	05/16/05	6010B	05/19/05	7439-92-1	Lead	2	36	
3050B	05/16/05	6010B	05/19/05	7440-66-6	Zinc	0.7	87.5	

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: GP-01 1-10
DUPLICATE

Lab Sample ID: IB04A
LIMS ID: 05-8230
Matrix: Soil
Data Release Authorized:
Reported: 05/25/05

QC Report No: IB04-Geomatrix Consultants
Project: SPI EVERETT
10360
Date Sampled: 05/10/05
Date Received: 05/12/05

MATRIX DUPLICATE QUALITY CONTROL REPORT

Analyte	Analysis Method	Sample	Duplicate	RPD	Control Limit	Q
Arsenic	6010B	31	29	6.7%	+/- 6	L
Cadmium	6010B	0.2 U	0.2 U	0.0%	+/- 0.2	L
Chromium	6010B	28.8	31.2	8.0%	+/- 20%	
Copper	6010B	24.3	24.9	2.4%	+/- 20%	
Lead	6010B	36	30	18.2%	+/- 20%	
Zinc	6010B	87.5	67.4	26.0%	+/- 20%	*

Reported in mg/kg-dry

*-Control Limit Not Met
L-RPD Invalid, Limit = Detection Limit

Analytical Resources, Incorporated
Analytical Chemists and Consultants
May 25, 2005

Joe Morrice
GeoMatrix Consultants
600 University, Suite 1020
Seattle, WA 98101

RE: Project: SPI Everett
ARI Job No: IB04

Dear Joe:

Please find enclosed a sample custody record (COC) and a set of analytical results for the samples from the project referenced above. Analytical Resources, Inc. accepted five soil samples and ten water samples in good condition on May 12, 2005.

Selected samples were analyzed for PAH, PCB, NWTPH-Dx, and total metals, as requested on the COC.

Please refer to the case narrative for anomalies associated with these samples.

Copies of these reports and all associated raw data will be kept on file electronically at ARI. If you have any questions or require additional information, please contact me at your convenience.

Sincerely,

ANALYTICAL RESOURCES, INC.

Stephanie Lucas

Stephanie Lucas
Project Manager
steph@arilabs.com
(206) 695-6213

Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number: IB04	Turn-around Requested: STD	Page: 1 of 5	
ARI Client Company: GEOMATRIX	Phone: 206-342-1760	Date: 5-10-05	Ice Present? Y
Client Contact: JOE MARICICH		No. of Coolers: 3	Cooler Temps: 3.5, 4.0, 6.0
Client Project Name: SPI EVERETT			
Client Project #: 10360	Samplers: JMM		

Analytical Resources, Incorporated
Analytical Chemists and Consultants
4611 South 134th Place, Suite 100
Tukwila, WA 98168
206-695-6200 206-695-6201 (fax)

Sample ID	Date	Time	Matrix	No. Containers	Analysis Requested: METALS	TPH-Dx	PCB's						Notes/Comments
GA-01 @ 1-10	5-10	930	S	1	X								
GP-01 S		945	W	1	X								
GP-01 D		1030	W	1	X								
GP-02 1-10		1115	S	1	X								
GP-02 S		1125	W	1	X								
GP-02 D		1200	W	1	X								
GP-03 2-9		1240	S	1	X								
GP-03 S		1255	W	1	X								
GP-03 D		1400	W	1	X								
GP-07 9-12		1455	S	1	X	X	X						

Comments/Special Instructions	Relinquished by: (Signature)	Received by: (Signature)	Relinquished by: (Signature)	Received by: (Signature)
	Printed Name: JOE MARICICH	Printed Name: BRIAN ILGEL	Printed Name:	Printed Name:
	Company: GMX	Company: ARI	Company:	Company:
	Date & Time: 5-12-05 1416	Date & Time: 5/12/05 1416	Date & Time:	Date & Time:

Limits of Liability: *ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, not withstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.*

Sample Retention Policy: All samples submitted to ARI will be appropriately discarded no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer, unless alternate retention schedules have been established by work-order or contract.

Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number:	Turn-around Requested: STD	Page: 2 of 5	
ARI Client Company: GEOMATRIX	Phone: 206-342-1760	Date: 5-10-05	Ice Present?
Client Contact: JOE MORRICE		No. of Coolers:	Cooler Temps: 3.5, 4.0, 6.0
Client Project Name: SPU EVERETT			
Client Project #: 10360	Samplers: JNM		

Analytical Resources, Incorporated
Analytical Chemists and Consultants
4611 South 134th Place, Suite 100
Tukwila, WA 98168
206-695-6200 206-695-6201 (fax)

Sample ID	Date	Time	Matrix	No. Containers	Analysis Requested: METALS	TPH-DX	PCBs	PAHs					Notes/Comments
~~SPU~~ GP-07 S	5-10	1520	W	1	X								
GP-07 D		1550	W	1	X								
GP-08 6-11		1620	S	2	X	X	X	X					
GP-08 S		1640	W	1	X								
GP-08 D		1720	W	1	X								

Comments/Special Instructions	Relinquished by: (Signature)	Received by: (Signature)	Relinquished by: (Signature)	Received by: (Signature)
	Printed Name: JOE MORRICE	Printed Name: BRIAN MEGEL	Printed Name:	Printed Name:
	Company: GMX	Company: ARI	Company:	Company:
	Date & Time: 5-12-05 1416	Date & Time: 5/12/05 1416	Date & Time:	Date & Time:

Limits of Liability: *ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, not withstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.*

Sample Retention Policy: All samples submitted to ARI will be appropriately discarded no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer, unless alternate retention schedules have been established by work-order or contract.

ANALYTICAL
RESOURCES
INCORPORATED

Case Narrative
SPI Everett
ARI Job: IB04
May 25, 2005

PAH by 8270C

The soil samples were screened prior to extraction on 5/18/05. The samples were analyzed on 5/19/05 within the method recommended holding time

Surrogates: All surrogate recoveries were within ARI calculated control limits.

Method Blank: The method blank was free of analytes of interest.

Samples: No anomalies were associated with these samples.

LCS/LCSD (s): All percent recoveries and RPDs were within control limits.

PCBs by 8082

The soil samples were screened prior to extraction on 5/16/05. The samples were analyzed on 5/17/05 within the method recommended holding time

Surrogates: All surrogate recoveries were within ARI calculated control limits.

Method Blank: The method blank was free of analytes of interest.

Samples: Aroclor 1254 is "J" flagged in sample **GP-07 4-12.** The "J" indicates an estimated concentration when the value is less than ARI's established reporting limit(s).

No other anomalies were associated with these samples.

LCS/LCSD (s): All percent recoveries and RPDs were within control limits.

NWTWPH-Dx

The soil samples were extracted on 5/13/05. The samples were analyzed on 5/16/05 within the method recommended holding time

Surrogates: All surrogate recoveries were within ARI calculated control limits.

Method Blank: The method blank was free of analytes of interest.

Samples: Sample **GP-07 4-12** was analyzed at a 10X dilution. No anomalies were associated with these samples.

LCS/LCSD (s): All percent recoveries and RPDs were within control limits.

ANALYTICAL
RESOURCES
INCORPORATED

Case Narrative
SPI Everett
ARI Job: IB04
May 25, 2005

Total Metals by 6010B

The samples were prepped on 5/16/05. The samples were analyzed between 5/19/05 and 5/23/05 within the method recommended holding time.

Method Blank: The method blanks were free of contamination.

Samples: No anomalies were associated with these samples.

LCS/Spike Blank: All percent recoveries were in control.

ANALYTICAL RESOURCES INCORPORATED

SW8270 PNA SURROGATE RECOVERY SUMMARY

Matrix: Soil

QC Report No: IB04-Geomatrix Consultants
Project: SPI EVERETT
10360

Client ID	TER	FBP	TOT OUT
MB-051805	83.2%	67.2%	0
LCS-051805	79.6%	65.6%	0
LCSD-051805	76.0%	62.8%	0
GP-08 6-11	74.0%	61.2%	0

	LCS/MB LIMITS	QC LIMITS
(TER) = d14-p-Terphenyl	(50-113)	(30-123)
(FBP) = 2-Fluorobiphenyl	(30-160)	(30-160)

Prep Method: SW3550B
Log Number Range: 05-8234 to 05-8234

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by SW8270C GC/MS

Sample ID: MB-051805
METHOD BLANK

Lab Sample ID: MB-051805
LIMS ID: 05-8234
Matrix: Soil
Data Release Authorized:
Reported: 05/23/05

QC Report No: IB04-Geomatrix Consultants
Project: SPI EVERETT
10360
Date Sampled: NA
Date Received: NA

Date Extracted: 05/18/05
Date Analyzed: 05/19/05 11:09
Instrument/Analyst: NT6/LJR
GPC Cleanup: No
Alumina: Yes

Sample Amount: 7.50 g
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: NA
pH: NA

CAS Number	Analyte	RL	Result
91-20-3	Naphthalene	67	< 67 U
91-57-6	2-Methylnaphthalene	67	< 67 U
208-96-8	Acenaphthylene	67	< 67 U
83-32-9	Acenaphthene	67	< 67 U
86-73-7	Fluorene	67	< 67 U
85-01-8	Phenanthrene	67	< 67 U
120-12-7	Anthracene	67	< 67 U
206-44-0	Fluoranthene	67	< 67 U
129-00-0	Pyrene	67	< 67 U
56-55-3	Benzo(a)anthracene	67	< 67 U
218-01-9	Chrysene	67	< 67 U
205-99-2	Benzo(b)fluoranthene	67	< 67 U
207-08-9	Benzo(k)fluoranthene	67	< 67 U
50-32-8	Benzo(a)pyrene	67	< 67 U
193-39-5	Indeno(1,2,3-cd)pyrene	67	< 67 U
53-70-3	Dibenz(a,h)anthracene	67	< 67 U
191-24-2	Benzo(g,h,i)perylene	67	< 67 U
132-64-9	Dibenzofuran	67	< 67 U

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery	
d14-p-Terphenyl	83.2%
2-Fluorobiphenyl	67.2%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by SW8270C GC/MS

Sample ID: GP-08 6-11
SAMPLE

Lab Sample ID: IB04E
LIMS ID: 05-8234
Matrix: Soil
Data Release Authorized:
Reported: 05/23/05

QC Report No: IB04-Geomatrix Consultants
Project: SPI EVERETT
10360
Date Sampled: 05/10/05
Date Received: 05/12/05

Date Extracted: 05/18/05
Date Analyzed: 05/19/05 16:25
Instrument/Analyst: NT6/LJR
GPC Cleanup: No
Alumina: Yes

Sample Amount: 6.36 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: 15.4%
pH: 7.0

CAS Number	Analyte	RL	Result
91-20-3	Naphthalene	79	< 79 U
91-57-6	2-Methylnaphthalene	79	< 79 U
208-96-8	Acenaphthylene	79	< 79 U
83-32-9	Acenaphthene	79	< 79 U
86-73-7	Fluorene	79	< 79 U
85-01-8	Phenanthrene	79	< 79 U
120-12-7	Anthracene	79	< 79 U
206-44-0	Fluoranthene	79	< 79 U
129-00-0	Pyrene	79	< 79 U
56-55-3	Benzo(a)anthracene	79	< 79 U
218-01-9	Chrysene	79	< 79 U
205-99-2	Benzo(b)fluoranthene	79	< 79 U
207-08-9	Benzo(k)fluoranthene	79	< 79 U
50-32-8	Benzo(a)pyrene	79	< 79 U
193-39-5	Indeno(1,2,3-cd)pyrene	79	< 79 U
53-70-3	Dibenz(a,h)anthracene	79	< 79 U
191-24-2	Benzo(g,h,i)perylene	79	< 79 U
132-64-9	Dibenzofuran	79	< 79 U

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery	
d14-p-Terphenyl	74.0%
2-Fluorobiphenyl	61.2%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by SW8270C GC/MS

Sample ID: LCS-051805
LCS/LCSD

Lab Sample ID: LCS-051805
LIMS ID: 05-8234
Matrix: Soil
Data Release Authorized:
Reported: 05/23/05

QC Report No: IB04-Geomatrix Consultants
Project: SPI EVERETT
10360
Date Sampled: NA
Date Received: 05/12/05

Date Extracted LCS/LCSD: 05/18/05

Date Analyzed LCS: 05/19/05 11:40
LCSD: 05/19/05 12:12
Instrument/Analyst LCS: NT6/LJR
LCSD: NT6/LJR
GPC Cleanup: NO

Sample Amount LCS: 7.50 g
LCSD: 7.50 g
Final Extract Volume LCS: 0.50 mL
LCSD: 0.50 mL
Dilution Factor LCS: 1.00
LCSD: 1.00
Alumina Cleanup: YES

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
Naphthalene	973	1670	58.3%	985	1670	59.0%	1.2%
Acenaphthene	1040	1670	62.3%	1050	1670	62.9%	1.0%
Fluoranthene	1250	1670	74.9%	1240	1670	74.3%	0.8%
Benzo(a)anthracene	1220	1670	73.1%	1220	1670	73.1%	0.0%

Semivolatile Surrogate Recovery

	LCS	LCSD
d14-p-Terphenyl	79.6%	76.0%
2-Fluorobiphenyl	65.6%	62.8%

Results reported in µg/kg
RPD calculated using sample concentrations per SW846.

ANALYTICAL RESOURCES INCORPORATED

SW8082/PCB SOIL/SEDIMENTS SURROGATE RECOVERY SUMMARY

Matrix: Soil

QC Report No: IB04-Geomatrix Consultants
Project: SPI EVERETT
10360

Client ID	DCBP	TCMX	TOT OUT
MB-051605	117%	78.5%	0
LCS-051605	111%	90.2%	0
LCSD-051605	110%	90.2%	0
GP-07 4-12	127%	100%	0
GP-08 6-11	131%	94.8%	0

	LCS/MB LIMITS	QC LIMITS
(DCBP) = Decachlorobiphenyl	(49-140)	(30-164)
(TCMX) = Tetrachlorometaxylene	(30-135)	(26-143)

Prep Method: SW3550B
Log Number Range: 05-8233 to 05-8234

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082
Page 1 of 1

Sample ID: MB-051605
METHOD BLANK

Lab Sample ID: MB-051605
LIMS ID: 05-8233
Matrix: Soil
Data Release Authorized:
Reported: 05/18/05

QC Report No: IB04-Geomatrix Consultants
Project: SPI EVERETT
10360
Date Sampled: NA
Date Received: NA

Date Extracted: 05/16/05
Date Analyzed: 05/17/05 18:42
Instrument/Analyst: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes

Sample Amount: 12.0 g
Final Extract Volume: 4.0 mL
Dilution Factor: 1.00
Silica Gel: No
pH: NA
Percent Moisture: NA

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	33	< 33 U
53469-21-9	Aroclor 1242	33	< 33 U
12672-29-6	Aroclor 1248	33	< 33 U
11097-69-1	Aroclor 1254	33	< 33 U
11096-82-5	Aroclor 1260	33	< 33 U
11104-28-2	Aroclor 1221	33	< 33 U
11141-16-5	Aroclor 1232	33	< 33 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	117%
Tetrachlorometaxylene	78.5%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082
Page 1 of 1

Sample ID: GP-07 4-12
SAMPLE

Lab Sample ID: IB04D
LIMS ID: 05-8233
Matrix: Soil
Data Release Authorized:
Reported: 05/18/05

QC Report No: IB04-Geomatrix Consultants
Project: SPI EVERETT
10360
Date Sampled: 05/10/05
Date Received: 05/12/05

Date Extracted: 05/16/05
Date Analyzed: 05/17/05 19:33
Instrument/Analyst: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes

Sample Amount: 10.0 g-dry-wt
Final Extract Volume: 4.0 mL
Dilution Factor: 1.00
Silica Gel: No
pH: 7.1
Percent Moisture: 16.7%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	40	< 40 U
53469-21-9	Aroclor 1242	40	< 40 U
12672-29-6	Aroclor 1248	40	< 40 U
11097-69-1	**Aroclor 1254**	**40**	**47 J**
11096-82-5	Aroclor 1260	40	< 40 U
11104-28-2	Aroclor 1221	40	< 40 U
11141-16-5	Aroclor 1232	40	< 40 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	127%
Tetrachlorometaxylene	100%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD Method SW8082
Page 1 of 1

Sample ID: GP-08 6-11
SAMPLE

Lab Sample ID: IB04E
LIMS ID: 05-8234
Matrix: Soil
Data Release Authorized:
Reported: 05/18/05

QC Report No: IB04-Geomatrix Consultants
Project: SPI EVERETT
10360
Date Sampled: 05/10/05
Date Received: 05/12/05

Date Extracted: 05/16/05
Date Analyzed: 05/17/05 19:50
Instrument/Analyst: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes

Sample Amount: 10.2 g-dry-wt
Final Extract Volume: 4.0 mL
Dilution Factor: 1.00
Silica Gel: No
pH: 7.0
Percent Moisture: 15.4%

CAS Number	Analyte	RL	Result
12674-11-2	Aroclor 1016	39	< 39 U
53469-21-9	Aroclor 1242	39	< 39 U
12672-29-6	Aroclor 1248	39	< 39 U
11097-69-1	Aroclor 1254	39	< 39 U
11096-82-5	Aroclor 1260	39	< 39 U
11104-28-2	Aroclor 1221	39	< 39 U
11141-16-5	Aroclor 1232	39	< 39 U

Reported in µg/kg (ppb)

PCB Surrogate Recovery

Decachlorobiphenyl	131%
Tetrachlorometaxylene	94.8%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCB by GC/ECD MethodSW8082
Page 1 of 1

Sample ID: LCS-051605
LCS/LCSD

Lab Sample ID: LCS-051605
LIMS ID: 05-8233
Matrix: Soil
Data Release Authorized:
Reported: 05/18/05

QC Report No: IB04-Geomatrix Consultants
Project: SPI EVERETT
10360
Date Sampled: NA
Date Received: NA

Date Extracted LCS/LCSD: 05/16/05

Date Analyzed LCS: 05/17/05 18:59
LCSD: 05/17/05 19:16
Instrument/Analyst LCS: ECD5/PK
LCSD: ECD5/PK
GPC Cleanup: No
Sulfur Cleanup: Yes
Acid Cleanup: Yes

Sample Amount LCS: 12.0 g-dry-wt
LCSD: 12.0 g-dry-wt
Final Extract Volume LCS: 4.0 mL
LCSD: 4.0 mL
Dilution Factor LCS: 1.00
LCSD: 1.00
Silica Gel: No
pH: NA
Percent Moisture: NA

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
Aroclor 1016	130	167	78.0%	143	167	85.8%	9.5%
Aroclor 1260	176	167	106%	183	167	110%	3.9%

PCB Surrogate Recovery

	LCS	LCSD
Decachlorobiphenyl	111%	110%
Tetrachlorometaxylene	90.2%	90.2%

Results reported in µg/kg (ppb)
RPD calculated using sample concentrations per SW846.

ANALYTICAL RESOURCES INCORPORATED

TPHD SURROGATE RECOVERY SUMMARY

Matrix: Soil

QC Report No: IB04-Geomatrix Consultants
Project: SPI EVERETT
10360

Client ID	OTER	TOT OUT
051305MBS	91.8%	0
051305LCS	86.0%	0
051305LCSD	86.9%	0
GP-07 4-12	78.7%	0
GP-08 6-11	95.6%	0

	LCS/MB LIMITS	QC LIMITS
(OTER) = o-Terphenyl	(39-134)	(26-128)

Prep Method: SW3550B
Log Number Range: 05-8233 to 05-8234

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
TOTAL DIESEL RANGE HYDROCARBONS
NWTPHD by GC/FID
Page 1 of 1
Matrix: Soil

QC Report No: IB04-Geomatrix Consultants
Project: SPI EVERETT
10360
Date Received: 05/12/05

Data Release Authorized:
Reported: 05/17/05

ARI ID	Sample ID	Extraction Date	Analysis Date	DL	Range	Result
MB-051305	Method Blank	05/13/05	05/16/05	1.0	Diesel	< 5.0 U
05-8233	HC ID: ---		FID3A		Motor Oil	< 10 U
					o-Terphenyl	91.8%
IB04D	GP-07 4-12	05/13/05	05/16/05	10	**Diesel**	**80**
05-8233	HC ID: **DRO/MOTOR OIL**		FID3A		**Motor Oil**	**590**
					o-Terphenyl	78.7%
IB04E	GP-08 6-11	05/13/05	05/16/05	1.0	Diesel	< 5.9 U
05-8234	HC ID: **RRO**		FID3A		**Motor Oil**	**12**
					o-Terphenyl	95.6%

Reported in mg/kg (ppm)

Diesel quantitation on total peaks in the range from C12 to C24.
Motor Oil quantitation on total peaks in the range from C24 to C38.
HC ID: DRO/RRO indicates results of organics or additional hydrocarbons in ranges are not identifiable.

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
NWTPHD by GC/FID
Page 1 of 1

Sample ID: LCS-051305
LCS/LCSD

Lab Sample ID: LCS-051305
LIMS ID: 05-8233
Matrix: Soil
Data Release Authorized:
Reported: 05/17/05

QC Report No: IB04-Geomatrix Consultants
Project: SPI EVERETT
10360
Date Sampled: 05/10/05
Date Received: 05/12/05

Date Extracted LCS/LCSD: 05/13/05

Date Analyzed LCS: 05/16/05 22:05
LCSD: 05/16/05 22:20
Instrument/Analyst LCS: FID/JGR
LCSD: FID/JGR

Sample Amount LCS: 10.0 g
LCSD: 10.0 g
Final Extract Volume LCS: 1.0 mL
LCSD: 1.0 mL
Dilution Factor LCS: 1.00
LCSD: 1.00

Range	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
Diesel	127	150	84.7%	127	150	84.7%	0.0%

TPHD Surrogate Recovery

	LCS	LCSD
o-Terphenyl	86.0%	86.9%

Results reported in mg/kg
RPD calculated using sample concentrations per SW846.

ANALYTICAL RESOURCES INCORPORATED

TOTAL DIESEL RANGE HYDROCARBONS-EXTRACTION REPORT

ARI Job: IB04
Project: SPI EVERETT 10360

Matrix: Soil
Date Received: 05/12/05

ARI ID	Client ID	Client Amt	Final Vol	Basis	Prep Date
05-8233-051305MB1	Method Blank	10.0 g	1.00 mL	-	05/13/05
05-8233-051305LCS1	Lab Control	10.0 g	1.00 mL	-	05/13/05
05-8233-051305LCSD1	Lab Control Dup	10.0 g	1.00 mL	-	05/13/05
05-8233-IB04D	GP-07 4-12	8.35 g	1.00 mL	D	05/13/05
05-8234-IB04E	GP-08 6-11	8.49 g	1.00 mL	D	05/13/05

Basis: D=Dry Weight W=As Received

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS
Page 1 of 1

Sample ID: GP-01 1-10
SAMPLE

Lab Sample ID: IB04A
LIMS ID: 05-8230
Matrix: Soil
Data Release Authorized:
Reported: 05/25/05

QC Report No: IB04-Geomatrix Consultants
Project: SPI EVERETT
10360
Date Sampled: 05/10/05
Date Received: 05/12/05

Percent Total Solids: 83.4%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	05/16/05	6010B	05/19/05	7440-38-2	Arsenic	6	31	
3050B	05/16/05	6010B	05/19/05	7440-43-9	Cadmium	0.2	0.2	U
3050B	05/16/05	6010B	05/19/05	7440-47-3	Chromium	0.6	28.8	
3050B	05/16/05	6010B	05/19/05	7440-50-8	Copper	0.2	24.3	
3050B	05/16/05	6010B	05/19/05	7439-92-1	Lead	2	36	
3050B	05/16/05	6010B	05/19/05	7440-66-6	Zinc	0.7	87.5	

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: GP-01 1-10
DUPLICATE

Lab Sample ID: IB04A
LIMS ID: 05-8230
Matrix: Soil
Data Release Authorized:
Reported: 05/25/05

QC Report No: IB04-Geomatrix Consultants
Project: SPI EVERETT
10360
Date Sampled: 05/10/05
Date Received: 05/12/05

MATRIX DUPLICATE QUALITY CONTROL REPORT

Analyte	Analysis Method	Sample	Duplicate	RPD	Control Limit	Q
Arsenic	6010B	31	29	6.7%	+/- 6	L
Cadmium	6010B	0.2 U	0.2 U	0.0%	+/- 0.2	L
Chromium	6010B	28.8	31.2	8.0%	+/- 20%	
Copper	6010B	24.3	24.9	2.4%	+/- 20%	
Lead	6010B	36	30	18.2%	+/- 20%	
Zinc	6010B	87.5	67.4	26.0%	+/- 20%	*

Reported in mg/kg-dry

*-Control Limit Not Met
L-RPD Invalid, Limit = Detection Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: GP-01 1-10
MATRIX SPIKE

Lab Sample ID: IB04A
LIMS ID: 05-8230
Matrix: Soil
Data Release Authorized:
Reported: 05/25/05

QC Report No: IB04-Geomatrix Consultants
Project: SPI EVERETT
10360
Date Sampled: 05/10/05
Date Received: 05/12/05

MATRIX SPIKE QUALITY CONTROL REPORT

Analyte	Analysis Method	Sample	Spike	Spike Added	% Recovery	Q
Arsenic	6010B	31	270	239	100%	
Cadmium	6010B	0.2 U	58.3	59.9	97.3%	
Chromium	6010B	28.8	87.8	59.9	98.5%	
Copper	6010B	24.3	84.9	59.9	101%	
Lead	6010B	36	263	239	95.0%	
Zinc	6010B	87.5	121	59.9	55.9%	N

Reported in mg/kg-dry

N-Control Limit Not Met
H-% Recovery Not Applicable, Sample Concentration Too High
NA-Not Applicable, Analyte Not Spiked

Percent Recovery Limits: 75-125%

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: GP-02 1-10
SAMPLE

Lab Sample ID: IB04B
LIMS ID: 05-8231
Matrix: Soil
Data Release Authorized:
Reported: 05/25/05

QC Report No: IB04-Geomatrix Consultants
Project: SPI EVERETT
10360
Date Sampled: 05/10/05
Date Received: 05/12/05

Percent Total Solids: 79.6%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	05/16/05	6010B	05/19/05	7440-38-2	Arsenic	6	26	
3050B	05/16/05	6010B	05/19/05	7440-43-9	Cadmium	0.2	0.2	U
3050B	05/16/05	6010B	05/19/05	7440-47-3	Chromium	0.6	29.3	
3050B	05/16/05	6010B	05/19/05	7440-50-8	Copper	0.2	23.2	
3050B	05/16/05	6010B	05/19/05	7439-92-1	Lead	2	12	
3050B	05/16/05	6010B	05/19/05	7440-66-6	Zinc	0.7	54.9	

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: GP-03 2-9
SAMPLE

Lab Sample ID: IB04C
LIMS ID: 05-8232
Matrix: Soil
Data Release Authorized:
Reported: 05/25/05

QC Report No: IB04-Geomatrix Consultants
Project: SPI EVERETT
10360
Date Sampled: 05/10/05
Date Received: 05/12/05

Percent Total Solids: 75.0%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	05/16/05	6010B	05/19/05	7440-38-2	Arsenic	6	10	
3050B	05/16/05	6010B	05/19/05	7440-43-9	Cadmium	0.3	0.3	
3050B	05/16/05	6010B	05/19/05	7440-47-3	Chromium	0.6	29.0	
3050B	05/16/05	6010B	05/19/05	7440-50-8	Copper	0.3	63.7	
3050B	05/16/05	6010B	05/19/05	7439-92-1	Lead	3	44	
3050B	05/16/05	6010B	05/19/05	7440-66-6	Zinc	0.8	83.5	

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS
Page 1 of 1

Sample ID: GP-07 4-12
SAMPLE

Lab Sample ID: IB04D
LIMS ID: 05-8233
Matrix: Soil
Data Release Authorized:
Reported: 05/25/05

QC Report No: IB04-Geomatrix Consultants
Project: SPI EVERETT
10360
Date Sampled: 05/10/05
Date Received: 05/12/05

Percent Total Solids: 84.9%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	05/16/05	6010B	05/19/05	7440-38-2	Arsenic	6	7	
3050B	05/16/05	6010B	05/19/05	7440-43-9	Cadmium	0.2	0.2	U
3050B	05/16/05	6010B	05/19/05	7440-47-3	Chromium	0.6	31.2	
3050B	05/16/05	6010B	05/19/05	7440-50-8	Copper	0.2	42.8	
3050B	05/16/05	6010B	05/19/05	7439-92-1	Lead	2	37	
3050B	05/16/05	6010B	05/19/05	7440-66-6	Zinc	0.7	114	

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: GP-08 6-11
SAMPLE

Lab Sample ID: IB04E
LIMS ID: 05-8234
Matrix: Soil
Data Release Authorized:
Reported: 05/25/05

QC Report No: IB04-Geomatrix Consultants
Project: SPI EVERETT
10360
Date Sampled: 05/10/05
Date Received: 05/12/05

Percent Total Solids: 86.2%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	05/16/05	6010B	05/19/05	7440-38-2	Arsenic	6	6	U
3050B	05/16/05	6010B	05/19/05	7440-43-9	Cadmium	0.2	0.2	U
3050B	05/16/05	6010B	05/19/05	7440-47-3	Chromium	0.6	21.0	
3050B	05/16/05	6010B	05/19/05	7440-50-8	Copper	0.2	16.5	
3050B	05/16/05	6010B	05/19/05	7439-92-1	Lead	2	4	
3050B	05/16/05	6010B	05/19/05	7440-66-6	Zinc	0.7	39.3	

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: GP-01 S
SAMPLE

Lab Sample ID: IB04F
LIMS ID: 05-8235
Matrix: Water
Data Release Authorized:
Reported: 05/25/05

QC Report No: IB04-Geomatrix Consultants
Project: SPI EVERETT
10360
Date Sampled: 05/10/05
Date Received: 05/12/05

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
200.8	05/16/05	200.8	05/19/05	**7440-38-2**	**Arsenic**	0.2	25.2	
200.8	05/16/05	200.8	05/19/05	7440-43-9	Cadmium	0.2	0.2	U
200.8	05/16/05	200.8	05/19/05	7440-47-3	Chromium	0.5	0.5	U
200.8	05/16/05	200.8	05/19/05	7440-50-8	Copper	0.5	0.5	U
200.8	05/16/05	200.8	05/19/05	7439-92-1	Lead	1	1	U
200.8	05/16/05	200.8	05/19/05	**7440-66-6**	**Zinc**	4	**9**	

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: GP-01 S
DUPLICATE

Lab Sample ID: IB04F
LIMS ID: 05-8235
Matrix: Water
Data Release Authorized:
Reported: 05/25/05

QC Report No: IB04-Geomatrix Consultants
Project: SPI EVERETT
10360
Date Sampled: 05/10/05
Date Received: 05/12/05

MATRIX DUPLICATE QUALITY CONTROL REPORT

Analyte	Analysis Method	Sample	Duplicate	RPD	Control Limit	Q
Arsenic	200.8	25.2	26.2	3.9%	+/- 20%	
Cadmium	200.8	0.2 U	0.2 U	0.0%	+/- 0.2	L
Chromium	200.8	0.5 U	0.5 U	0.0%	+/- 0.5	L
Copper	200.8	0.5 U	0.5 U	0.0%	+/- 0.5	L
Lead	200.8	1 U	1 U	0.0%	+/- 1	L
Zinc	200.8	9	9	0.0%	+/- 4	L

Reported in µg/L

*-Control Limit Not Met
L-RPD Invalid, Limit = Detection Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: GP-01 S
MATRIX SPIKE

Lab Sample ID: IB04F
LIMS ID: 05-8235
Matrix: Water
Data Release Authorized:
Reported: 05/25/05

QC Report No: IB04-Geomatrix Consultants
Project: SPI EVERETT
10360
Date Sampled: 05/10/05
Date Received: 05/12/05

MATRIX SPIKE QUALITY CONTROL REPORT

Analyte	Analysis Method	Sample	Spike	Spike Added	% Recovery	Q
Arsenic	200.8	25.2	51.7	25.0	106%	
Cadmium	200.8	0.200 U	24.5	25.0	98.0%	
Chromium	200.8	0.500 U	22.9	25.0	91.6%	
Copper	200.8	0.500 U	24.0	25.0	96.0%	
Lead	200.8	1.00 U	25.9	25.0	104%	
Zinc	200.8	9.42	82.8	80.0	91.7%	

Reported in µg/L

N-Control Limit Not Met
H-% Recovery Not Applicable, Sample Concentration Too High
NA-Not Applicable, Analyte Not Spiked

Percent Recovery Limits: 75-125%

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: GP-01 D
SAMPLE

Lab Sample ID: IB04G
LIMS ID: 05-8236
Matrix: Water
Data Release Authorized:
Reported: 05/25/05

QC Report No: IB04-Geomatrix Consultants
Project: SPI EVERETT
10360
Date Sampled: 05/10/05
Date Received: 05/12/05

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
200.8	05/16/05	200.8	05/19/05	**7440-38-2**	**Arsenic**	0.2	2.4	
200.8	05/16/05	200.8	05/19/05	7440-43-9	Cadmium	0.2	0.2	U
200.8	05/16/05	200.8	05/23/05	**7440-47-3**	**Chromium**	1	6	
200.8	05/16/05	200.8	05/19/05	**7440-50-8**	**Copper**	0.5	0.6	
200.8	05/16/05	200.8	05/19/05	7439-92-1	Lead	1	1	U
200.8	05/16/05	200.8	05/19/05	7440-66-6	Zinc	4	4	U

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: GP-02 S
SAMPLE

Lab Sample ID: IB04H
LIMS ID: 05-8237
Matrix: Water
Data Release Authorized:
Reported: 05/25/05

QC Report No: IB04-Geomatrix Consultants
Project: SPI EVERETT
10360
Date Sampled: 05/10/05
Date Received: 05/12/05

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
200.8	05/16/05	200.8	05/20/05	7440-38-2	Arsenic	10	1,220	
200.8	05/16/05	200.8	05/19/05	7440-43-9	Cadmium	0.2	0.2	U
200.8	05/16/05	200.8	05/19/05	7440-47-3	Chromium	0.5	0.5	U
200.8	05/16/05	200.8	05/19/05	7440-50-8	Copper	0.5	0.5	U
200.8	05/16/05	200.8	05/19/05	7439-92-1	Lead	1	1	U
200.8	05/16/05	200.8	05/19/05	7440-66-6	Zinc	4	4	U

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: GP-02 D
SAMPLE

Lab Sample ID: IB04I
LIMS ID: 05-8238
Matrix: Water
Data Release Authorized:
Reported: 05/25/05

QC Report No: IB04-Geomatrix Consultants
Project: SPI EVERETT
10360
Date Sampled: 05/10/05
Date Received: 05/12/05

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
200.8	05/16/05	200.8	05/19/05	**7440-38-2**	**Arsenic**	0.2	3.2	
200.8	05/16/05	200.8	05/19/05	7440-43-9	Cadmium	0.2	0.2	U
200.8	05/16/05	200.8	05/20/05	**7440-47-3**	**Chromium**	0.5	5.5	
200.8	05/16/05	200.8	05/19/05	**7440-50-8**	**Copper**	0.5	0.7	
200.8	05/16/05	200.8	05/19/05	7439-92-1	Lead	1	1	U
200.8	05/16/05	200.8	05/19/05	7440-66-6	Zinc	4	4	U

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: GP-03 S
SAMPLE

Lab Sample ID: IB04J
LIMS ID: 05-8239
Matrix: Water
Data Release Authorized:
Reported: 05/25/05

QC Report No: IB04-Geomatrix Consultants
Project: SPI EVERETT
10360
Date Sampled: 05/10/05
Date Received: 05/12/05

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
200.8	05/16/05	200.8	05/19/05	7440-38-2	Arsenic	0.2	233	
200.8	05/16/05	200.8	05/19/05	7440-43-9	Cadmium	0.2	0.2	U
200.8	05/16/05	200.8	05/19/05	7440-47-3	Chromium	0.5	0.5	U
200.8	05/16/05	200.8	05/19/05	7440-50-8	Copper	0.5	0.7	
200.8	05/16/05	200.8	05/19/05	7439-92-1	Lead	1	1	U
200.8	05/16/05	200.8	05/19/05	7440-66-6	Zinc	4	5	

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: GP-03 D
SAMPLE

Lab Sample ID: IB04K
LIMS ID: 05-8240
Matrix: Water
Data Release Authorized:
Reported: 05/25/05

QC Report No: IB04-Geomatrix Consultants
Project: SPI EVERETT
10360
Date Sampled: 05/10/05
Date Received: 05/12/05

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
200.8	05/16/05	200.8	05/19/05	7440-38-2	Arsenic	0.2	3.7	
200.8	05/16/05	200.8	05/19/05	7440-43-9	Cadmium	0.2	0.2	U
200.8	05/16/05	200.8	05/20/05	7440-47-3	Chromium	1	5	
200.8	05/16/05	200.8	05/19/05	7440-50-8	Copper	0.5	0.6	
200.8	05/16/05	200.8	05/19/05	7439-92-1	Lead	1	1	U
200.8	05/16/05	200.8	05/19/05	7440-66-6	Zinc	4	4	U

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: GP-07 S
SAMPLE

Lab Sample ID: IB04L
LIMS ID: 05-8241
Matrix: Water
Data Release Authorized:
Reported: 05/25/05

QC Report No: IB04-Geomatrix Consultants
Project: SPI EVERETT
10360
Date Sampled: 05/10/05
Date Received: 05/12/05

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
200.8	05/16/05	200.8	05/20/05	**7440-38-2**	**Arsenic**	0.5	5.5	
200.8	05/16/05	200.8	05/20/05	7440-43-9	Cadmium	0.5	0.5	U
200.8	05/16/05	200.8	05/20/05	7440-47-3	Chromium	1	1	U
200.8	05/16/05	200.8	05/20/05	**7440-50-8**	**Copper**	1	3	
200.8	05/16/05	200.8	05/20/05	7439-92-1	Lead	2	2	U
200.8	05/16/05	200.8	05/20/05	**7440-66-6**	**Zinc**	10	30	

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: GP-07 D
SAMPLE

Lab Sample ID: IB04M
LIMS ID: 05-8242
Matrix: Water
Data Release Authorized:
Reported: 05/25/05

QC Report No: IB04-Geomatrix Consultants
Project: SPI EVERETT
10360
Date Sampled: 05/10/05
Date Received: 05/12/05

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
200.8	05/16/05	200.8	05/19/05	7440-38-2	Arsenic	0.5	2.7	
200.8	05/16/05	200.8	05/19/05	7440-43-9	Cadmium	0.2	0.2	U
200.8	05/16/05	200.8	05/20/05	7440-47-3	Chromium	1	5	
200.8	05/16/05	200.8	05/19/05	7440-50-8	Copper	0.5	4.3	
200.8	05/16/05	200.8	05/19/05	7439-92-1	Lead	1	1	
200.8	05/16/05	200.8	05/19/05	7440-66-6	Zinc	4	11	

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS
Page 1 of 1

Sample ID: GP-08 S
SAMPLE

Lab Sample ID: IB04N
LIMS ID: 05-8243
Matrix: Water
Data Release Authorized:
Reported: 05/25/05

QC Report No: IB04-Geomatrix Consultants
Project: SPI EVERETT
10360
Date Sampled: 05/10/05
Date Received: 05/12/05

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
200.8	05/16/05	200.8	05/20/05	**7440-38-2**	**Arsenic**	0.5	2.2	
200.8	05/16/05	200.8	05/19/05	7440-43-9	Cadmium	0.2	0.2	U
200.8	05/16/05	200.8	05/20/05	7440-47-3	Chromium	1	1	U
200.8	05/16/05	200.8	05/20/05	7440-50-8	Copper	1	1	U
200.8	05/16/05	200.8	05/19/05	7439-92-1	Lead	1	1	U
200.8	05/16/05	200.8	05/20/05	7440-66-6	Zinc	10	10	U

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: GP-08 D
SAMPLE

Lab Sample ID: IB04O
LIMS ID: 05-8244
Matrix: Water
Data Release Authorized:
Reported: 05/25/05

QC Report No: IB04-Geomatrix Consultants
Project: SPI EVERETT
10360
Date Sampled: 05/10/05
Date Received: 05/12/05

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
200.8	05/16/05	200.8	05/20/05	**7440-38-2**	**Arsenic**	0.5	4.0	
200.8	05/16/05	200.8	05/19/05	7440-43-9	Cadmium	0.2	0.2	U
200.8	05/16/05	200.8	05/20/05	**7440-47-3**	**Chromium**	1	1	
200.8	05/16/05	200.8	05/20/05	**7440-50-8**	**Copper**	1	1	
200.8	05/16/05	200.8	05/19/05	7439-92-1	Lead	1	1	U
200.8	05/16/05	200.8	05/20/05	7440-66-6	Zinc	10	10	U

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS
Page 1 of 1

Sample ID: METHOD BLANK

Lab Sample ID: IB04MB
LIMS ID: 05-8231
Matrix: Soil
Data Release Authorized:
Reported: 05/25/05

QC Report No: IB04-Geomatrix Consultants
Project: SPI EVERETT
10360
Date Sampled: NA
Date Received: NA

Percent Total Solids: NA

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/kg-dry	Q
3050B	05/16/05	6010B	05/19/05	7440-38-2	Arsenic	5	5	U
3050B	05/16/05	6010B	05/19/05	7440-43-9	Cadmium	0.2	0.2	U
3050B	05/16/05	6010B	05/19/05	7440-47-3	Chromium	0.5	0.5	U
3050B	05/16/05	6010B	05/19/05	7440-50-8	Copper	0.2	0.2	U
3050B	05/16/05	6010B	05/19/05	7439-92-1	Lead	2	2	U
3050B	05/16/05	6010B	05/19/05	7440-66-6	Zinc	0.6	0.6	U

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: LAB CONTROL

Lab Sample ID: IB04LCS
LIMS ID: 05-8231
Matrix: Soil
Data Release Authorized:
Reported: 05/25/05

QC Report No: IB04-Geomatrix Consultants
Project: SPI EVERETT
10360
Date Sampled: NA
Date Received: NA

BLANK SPIKE QUALITY CONTROL REPORT

Analyte	Analysis Method	Spike Found	Spike Added	% Recovery	Q
Arsenic	6010B	192	200	96.0%	
Cadmium	6010B	49.1	50.0	98.2%	
Chromium	6010B	50.1	50.0	100%	
Copper	6010B	49.0	50.0	98.0%	
Lead	6010B	203	200	102%	
Zinc	6010B	49.8	50.0	99.6%	

Reported in mg/kg-dry

N-Control limit not met
Control Limits: 80-120%

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS
Page 1 of 1

Sample ID: METHOD BLANK

Lab Sample ID: IB04MB
LIMS ID: 05-8236
Matrix: Water
Data Release Authorized:
Reported: 05/25/05

QC Report No: IB04-Geomatrix Consultants
Project: SPI EVERETT
10360
Date Sampled: NA
Date Received: NA

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
200.8	05/16/05	200.8	05/19/05	7440-38-2	Arsenic	0.2	0.2	U
200.8	05/16/05	200.8	05/19/05	7440-43-9	Cadmium	0.2	0.2	U
200.8	05/16/05	200.8	05/19/05	7440-47-3	Chromium	0.5	0.5	U
200.8	05/16/05	200.8	05/19/05	7440-50-8	Copper	0.5	0.5	U
200.8	05/16/05	200.8	05/19/05	7439-92-1	Lead	1	1	U
200.8	05/16/05	200.8	05/19/05	7440-66-6	Zinc	4	4	U

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: LAB CONTROL

Lab Sample ID: IB04LCS
LIMS ID: 05-8236
Matrix: Water
Data Release Authorized:
Reported: 05/25/05

QC Report No: IB04-Geomatrix Consultants
Project: SPI EVERETT
10360
Date Sampled: NA
Date Received: NA

BLANK SPIKE QUALITY CONTROL REPORT

Analyte	Analysis Method	Spike Found	Spike Added	% Recovery	Q
Arsenic	200.8	25.8	25.0	103%	
Cadmium	200.8	25.0	25.0	100%	
Chromium	200.8	25.5	25.0	102%	
Copper	200.8	26.0	25.0	104%	
Lead	200.8	26.8	25.0	107%	
Zinc	200.8	79.3	80.0	99.1%	

Reported in µg/L

N-Control limit not met
Control Limits: 80-120%

Data Reporting Qualifiers

Effective 12/28/04

Inorganic Data

U Indicates that the target analyte was not detected at the reported concentration

* Duplicate RPD is not within established control limits

B Reported value is less than the CRDL but ≥ the Reporting Limit

N Matrix Spike recovery not within established control limits

NA Not Applicable, analyte not spiked

H The natural concentration of the spiked element is so much greater than the concentration spiked that an accurate determination of spike recovery is not possible

L Analyte concentration is ≤5 times the Reporting Limit and the replicate control limit defaults to ±1 RL instead of the normal 20% RPD

Organic Data

U Indicates that the target analyte was not detected at the reported concentration

* Flagged value is not within established control limits

B Analyte detected in an associated Method Blank at a concentration greater than one-half of ARI's Reporting Limit or 5% of the regulatory limit or 5% of the analyte concentration in the sample.

J Estimated concentration when the value is less than ARI's established reporting limits

D The spiked compound was not detected due to sample extract dilution

NR Spiked compound recovery is not reported due to chromatographic interference

E Estimated concentration calculated for an analyte response above the valid instrument calibration range. A dilution is required to obtain an accurate quantification of the analyte.

S Indicates an analyte response that has saturated the detector. The calculated concentration is not valid; a dilution is required to obtain valid quantification of the analyte

NA The flagged analyte was not analyzed for

NS The flagged analyte was not spiked into the sample

M Estimated value for an analyte detected and confirmed by an analyst but with low spectral match parameters. This flag is used only for GC-MS analyses

N The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification"

Y The analyte is not detected at or above the reported concentration. The reporting limit is raised due to chromatographic interference. The Y flag is equivalent to the U flag with a raised reporting limit.

C The analyte was positively identified on only one of two chromatographic columns. Chromatographic interference prevented a positive identification on the second column

P The analyte was detected on both chromatographic columns but the quantified values differ by ≥40% RPD with no obvious chromatographic interference

Geotechnical Data

SM Sample matrix was not appropriate for the requested analysis. This normally refers to samples contaminated with an organic product that interferes with the sieving process and/or moisture content, porosity and saturation calculations

SS Sample did not contain the proportion of "fines" required to perform the pipette portion of the grain size analysis

W Weight of sample in some pipette aliquots was below the level required for accurate weighting

F Samples were frozen prior to particle size determination

Analytical Resources, Incorporated
Analytical Chemists and Consultants
June 10, 2005

GEOMATRIX
Received
JUN 13 2005
SEATTLE

Joe Morrice
GeoMatrix Consultants
600 University, Suite 1020
Seattle, WA 98101

RE: Project: SPI Everett
ARI Job No: IC47

Dear Joe:

Please find enclosed a copy of the original sample custody record (COC) and a set of analytical results for the project referenced above. Analytical Resources, Inc. accepted six soil samples and sixteen water samples in good condition on May 12, 2005.

Selected samples were analyzed for PCP, TSS, PAH, SIM PAH, hardness, PCB, NWTPH-Dx, and total metals, as requested on the COC.

On 5/26/05, it was requested to have sample **GP-10 7-9** analyzed for PCP (pentachlorophenol). The sample was extracted two days out of holding on 5/28/05 and analyzed on 5/31/05 at a 10X dilution.

There were no anomalies associated with these samples.

Copies of these reports and all associated raw data will be kept on file electronically at ARI. If you have any questions or require additional information, please contact me at your convenience.

Sincerely,

ANALYTICAL RESOURCES, INC.

Stephanie Lucas
Project Manager
steph@arilabs.com
(206) 695-6213

Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number: IBOLE / IC47	Turn-around Requested: STD	Page: 3 of 5	
ARI Client Company: GeoMatrix	Phone: 206-342-1775	Date: 5-11-05	Ice Present? Y
Client Contact: Joe Munsch		No. of Coolers: 3	Cooler Temps: 3.5, 4.0, 6.0
Client Project Name: SPE Omnet			
Client Project #: 10360	Samplers: JMM		

Analytical Resources, Incorporated
Analytical Chemists and Consultants
4611 South 134th Place, Suite 100
Tukwila, WA 98168
206-695-6200 206-695-6201 (fax)

Sample ID	Date	Time	Matrix	No. Containers	Analysis Requested: METALS	PCP	TSS	PAHs	Hardness				Notes/Comments
GP-09 5-8	5-11	1600	S	1	X								
GP-09 5		1610	W	1	X								
GP-09 D		1645	W	1	X								
GP-10 7-9		1730	S	~~3~~ 1	X	~~X~~	~~X~~						
GP-10 5	1745	~~1810~~	~~SW~~ W	3	X	X	X						
GP-10 D	1845	~~1815~~	W	3	X	X	X						
GP-11 4-7		1900	S	2	X	X		X					
GP-11 5		1910	W	3	X	X	X						
GP-11 D		1925	W	3	X	X	X						
RINSE 5/11/05		2005	W	1					X				

COPY

Comments/Special Instructions	Relinquished by: (Signature)	Received by: (Signature)	Relinquished by: (Signature)	Received by: (Signature)
	Printed Name: Joe Munsch	Printed Name: Brian Legel	Printed Name:	Printed Name:
	Company: GMX	Company: ARI	Company:	Company:
	Date & Time: 5-12-05 1416	Date & Time: 5/12/05 1416	Date & Time:	Date & Time:

Limits of Liability: ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, not withstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.

Sample Retention Policy: All samples submitted to ARI will be appropriately discarded no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer, unless alternate retention schedules have been established by work-order or contract.

ANALYTICAL RESOURCES INCORPORATED

SW8270 SURROGATE RECOVERY SUMMARY

Matrix: Soil

QC Report No: IC47-Geomatrix Consultants
Project: SPI Everett
10360

Client ID	TBP	TOT OUT
MB-052805	81.9%	0
LCS-052805	84.8%	0
GP-10 7-9	58.7%	0

	LCS/MB LIMITS	QC LIMITS
(TBP) = 2,4,6-Tribromophenol	(28-113)	(22-127)

Prep Method: SW3550B
Log Number Range: 05-9066 to 05-9066

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: MB-052805
METHOD BLANK

Lab Sample ID: MB-052805
LIMS ID: 05-9066
Matrix: Soil
Data Release Authorized:
Reported: 06/06/05

QC Report No: IC47-Geomatrix Consultants
Project: SPI Everett
10360
Date Sampled: NA
Date Received: NA

Date Extracted: 05/28/05
Date Analyzed: 05/30/05 12:49
Instrument/Analyst: NT4/LJR
GPC Cleanup: No

Sample Amount: 7.50 g
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: NA
pH: NA

CAS Number	Analyte	RL	Result
87-86-5	Pentachlorophenol	330	< 330 U

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery	
2,4,6-Tribromophenol	81.9%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: GP-10 7-9
SAMPLE

Lab Sample ID: IC47A
LIMS ID: 05-9066
Matrix: Soil
Data Release Authorized:
Reported: 06/06/05

QC Report No: IC47-Geomatrix Consultants
Project: SPI Everett
10360
Date Sampled: 05/11/05
Date Received: 05/12/05

Date Extracted: 05/28/05
Date Analyzed: 05/31/05 16:54
Instrument/Analyst: NT4/LJR
GPC Cleanup: No

Sample Amount: 6.42 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 10.0
Percent Moisture: 14.7%
pH: 6.9

CAS Number	Analyte	RL	Result
87-86-5	Pentachlorophenol	3,900	43,000

Reported in µg/kg (ppb)

Semivolatile Surrogate Recovery	
2,4,6-Tribromophenol	58.7%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Semivolatiles by SW8270C GC/MS

Sample ID: LCS-052805
LAB CONTROL

Lab Sample ID: LCS-052805
LIMS ID: 05-9066
Matrix: Soil
Data Release Authorized:
Reported: 06/06/05

QC Report No: IC47-Geomatrix Consultants
Project: SPI Everett
10360
Date Sampled: 05/11/05
Date Received: 05/12/05

Date Extracted: 05/28/05
Date Analyzed: 05/30/05 13:22
Instrument/Analyst: NT4/LJR
GPC Cleanup: NO

Sample Amount: 7.50 g
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: NA
pH: NA

Analyte	Lab Control	Spike Added	Recovery
Pentachlorophenol	2160	2500	86.4%

Semivolatile Surrogate Recovery	
2,4,6-Tribromophenol	84.8%

Results reported in µg/kg