Geomatrix

APPENDIX E

Confirmation Sample Analytical Results and Data Validation Memoranda

Geomatrix

Memorandum

TO:	Larry McGaughey	**DATE:**	September 7, 2006
FROM:	Tasya Gray	**PROJ. NO.:**	8769.006
CC:	Project File	**PROJ. NAME:**	Former Rhone-Poulenc Site
SUBJECT:	**East Parcel Redevelopment Soil Sampling Summary Data Quality Review – SDGs K0606703, K0606709, K0606713, K0606717, K0606980, K0607044**		

This memorandum presents a summary data quality review of 41 primary soil samples, two field duplicate samples, and one equipment blank sample collected between August 9 and 19, 2006. The samples were submitted to Columbia Analytical Services (CAS), a Washington State Department of Ecology (Ecology)-accredited laboratory, located in Kelso, Washington. The samples were analyzed for the following analyses:

- Polychlorinated Biphenyls (PCBs) by EPA Method 8082
- Copper by EPA Method 6020

The analyses were performed in general accordance with methods specified in U.S. Environmental Protection Agency's (EPA) Test Methods for Evaluating Solid Waste (SW-846), January 1995 and associated revisions.

Laboratory sample delivery groups (SDGs) associated with the August 2006 sampling events are listed below. The samples associated with each SDG are presented in the table at the end of this memorandum.

Laboratory SDG	Date(s) Collected
K0606703	August 9, 2006
K0606709	August 9, 2006
K0606713	August 10, 2006
K0606717	August 10, 2006
K0606980	August 17, 2006
K0607044	August 19, 2006

Upon receipt by CAS, the sample jar information was compared to the chain-of-custody form. Discrepancies were noted by the laboratory and addressed with Geomatrix personnel prior to sample analyses. The temperatures of the coolers were recorded as part of the check-in

procedure. The coolers were within the acceptable range of 4 +/- 2 °C, with the exception of a cooler associated with SDG K0606703, which was -0.5°C, a cooler associated with SDG K0606709 which was 0.7°C, and a cooler associated with SDG K0607044 which was 8.17°C. Samples were all shipped to the laboratory in ice-filled coolers and results were not qualified due to the temperature exceedances.

Data review is based on method performance criteria and QC criteria as documented in the May 2006 Soil Sampling Quality Assurance Project Plan (QAPP). The laboratory provided validatable packages containing summarized sample results and associated QA/QC data as well as instrument printouts and sample preparation and injection log pages as required by the QAPP. The data review conducted on these SDGs included a review of summarized results and QA/QC data per the requirements set forth in Section D1 of the QAPP. The control limits provided in the QAPP are advisory limits; therefore, the most current control limits provided by the laboratory were used to evaluate the quality control data. In cases where the laboratory did not track limits for an analyte, the limits in the QAPP were used. Hold times, calibration verification, method blanks, surrogate recoveries, laboratory control samples (LCS), matrix spike/matrix spike duplicate (MS/MSD) results, laboratory duplicate results, field QC results, and reporting limits were reviewed to assess compliance with applicable methods and the QAPP. If data qualification was required, data were qualified in general accordance with the definitions and use of qualifying flags outlined in the following EPA documents: USEPA Contract Laboratory Program (CLP) National Functional Guidelines for Organic Data Review, October 1999, and USEPA Contract Laboratory Program (CLP) National Functional Guidelines for Inorganic Data Review, October 2004.

The following qualifiers may be added to the data:

- U: The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
- J: The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
- UJ: The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
- R: The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

ORGANIC ANALYSES

Samples were analyzed for PCBs by the methods identified in the introduction to this report, and were evaluated for the following criteria.

1. Holding Times – Acceptable
2. Initial Calibration – Acceptable
3. Calibration Verification – Acceptable
4. Blanks – Acceptable
5. Surrogates – Acceptable
6. Laboratory Control Samples (LCS) – Acceptable
7. Laboratory Duplicates – Acceptable except as noted:

   Lab duplicates were not included in SDG K0606717, but the LCS duplicates showed good RPDs.

8. Matrix Spike/Matrix Spike Duplicates (MS/MSD) – Acceptable
9. Field Duplicates – Acceptable

   Field duplicates were not collected in the field. They were collected in the laboratory after the composite samples were ground and homogenized. A field duplicate was collected by the laboratory for this sampling event for composite sample COMP-4 and was given the sample ID COMP-4-DUP. The relative percent differences (RPDs) for all duplicates were below the project specific control limit of 30%, as shown in the table below.

Sample ID/ Field Duplicate ID	Analyte	Primary Result (mg/kg)	Duplicate Result mg/kg)	RPD (%)
COMP-4/COMP-4-UP	Aroclor 1254	0.26	0.30	14

10. Reporting Limits – Acceptable except as noted:

The reporting limits for PCBs in SDG K0606717 were elevated due to relatively high levels of non-target background components, requiring dilution of the samples prior to analysis. According to the case narrative, non-target background components that showed in the chromatogram also prevented adequate resolution of the target compounds at the reporting limit, resulting in the flagging of results as estimated, "J".

INORGANIC ANALYSES

The sample was analyzed for copper by the method identified in the introduction to this report, and was evaluated for the following criteria.

1. Holding Times – Acceptable

2. Initial Calibration – Acceptable

3. Calibration Verification – Acceptable except as noted:

   The laboratory noted in the case narrative that the CRDL standard analyzed in association with SDG K0606709 was above the upper control limit (200%) at 221%. Since the CRDL standard is a measure of accuracy and at the method reporting limit (MRL) and associated concentrations are at least 20 times the MRL, no data required qualification.

4. Blanks – Acceptable except as noted:

   Copper was detected in the equipment blank sample, ER-1 (SDG K0606717), at a concentration of 0.19 µg/L. The copper concentration in the associated sample was at least five times greater than the blank concentrations; therefore, the sample result was not qualified.

   Copper was detected in the method blank associated with SDG K0607044 at 0.07 mg/kg. Since the associated sample concentration was greater than 5 times the blank concentration results are not qualified.

5. Laboratory Control Samples (LCS) – Acceptable

6. Laboratory Duplicates – Acceptable except as noted:

   The RPD for the laboratory duplicate analyzed for SDG 0606709 sample MAINT-4-2A was above the control limit at 147%. The laboratory concluded that the RPD exceedance is attributable to the heterogeneous character of the sample. The sample

contained relatively large amounts of rocks, which created difficulties during the homogenization process. Standard mixing techniques were used, but were not sufficient for complete homogenization (as was carefully done for the composite samples). The MAINT-4-2A result was consequently flagged "J" as estimated.

7. Matrix Spike/Matrix Spike Duplicate (MS/MSD) – Acceptable except as noted:

   MS/MSD for copper analyses were not included in SDGs K0606703, K0606709, K0606713, K0606717, K0607044, or K0606980; however, spike sample results were included. Results were evaluated based on the spike samples and LCS.

8. Field Duplicates – Acceptable

   Field duplicates were not collected in the field. They were collected in the laboratory after the composite samples were ground and homogenized. A field duplicate was collected by the laboratory for this sampling event for SDG K0606709 composite sample MAINT-4 and was given the sample ID MAINT-4-DUP. The relative percent differences (RPDs) for the duplicates were below the project specific control limit of 30%, as shown in the table below.

Sample ID/ Field Duplicate ID	Analyte	Primary Result (mg/kg)	Duplicate Result mg/kg)	RPD (%)
MAINT-4/MAINT-4-DUP	Copper	74.6	76.6	3

9. Reporting Limits – Acceptable

OVERALL ASSESSMENT OF DATA

The SDGs K0606703, K0606709, K0606713, K0606717, K0606980, and K0607044 are 100 percent complete. The data usability is based on EPA's guidance documents and the QAPP referenced in the introduction to this report. Few problems were identified and analytical performance was generally within specified limits. The data are acceptable and meet the project's data quality objectives.

Sample ID	SDG	Laboratory ID	Qualified Analyte	Qualified Result	Units	Qualifier Reason
LAB-4	K0606703	K0606703-036	none			
MAINT-4-1A	K0606709	K0606709-001	none			

Sample ID	SDG	Laboratory ID	Qualified Analyte	Qualified Result	Units	Qualifier Reason
MAINT-4-2A	K0606709	K0606709-002	copper	61.5 J	mg/kg	elevated lab duplicate RPD
MAINT-4-3A	K0606709	K0606709-003	none			
MAINT-4-4A	K0606709	K0606709-004	none			
MAINT-4-5A	K0606709	K0606709-005	none			
MAINT-4-6A	K0606709	K0606709-006	none			
MAINT-4-7A	K0606709	K0606709-007	none			
MAINT-4-8A	K0606709	K0606709-008	none			
MAINT-4-9A	K0606709	K0606709-009	none			
MAINT-4-10A	K0606709	K0606709-010	none			
MAINT-4-11A	K0606709	K0606709-011	none			
MAINT-4-12A	K0606709	K0606709-012	none			
MAINT-4-13A	K0606709	K0606709-013	none			
MAINT-4-14A	K0606709	K0606709-014	none			
MAINT-4-15A	K0606709	K0606709-015	none			
MAINT-4-16A	K0606709	K0606709-016	none			
MAINT-4-17A	K0606709	K0606709-017	none			
MAINT-4-18A	K0606709	K0606709-018	none			
MAINT-4-19A	K0606709	K0606709-019	none			
MAINT-4-20A	K0606709	K0606709-020	none			
MAINT-4-21A	K0606709	K0606709-021	none			
MAINT-4-22A	K0606709	K0606709-022	none			
MAINT-4-23A	K0606709	K0606709-023	none			
MAINT-4-24A	K0606709	K0606709-024	none			
MAINT-4-25A	K0606709	K0606709-025	none			
MAINT-4-26A	K0606709	K0606709-026	none			
MAINT-4-27A	K0606709	K0606709-027	none			
MAINT-4-28A	K0606709	K0606709-028	none			
MAINT-4-29A	K0606709	K0606709-029	none			
MAINT-4-30A	K0606709	K0606709-030	none			
MAINT-4-31A	K0606709	K0606709-031	none			
MAINT-4-32A	K0606709	K0606709-032	none			
MAINT-4-33A	K0606709	K0606709-033	none			
MAINT-4-34A	K0606709	K0606709-034	none			
MAINT-4-35A	K0606709	K0606709-035	none			
MAINT-4	K0606709	K0606709-036	none			
MAINT-4-DUP	K0606709	K0606709-037	none			
SULF-4	K0606713	K0606713-036	none			
COMP-4	K0606717	K0606717-036	Aroclor 1254	0.26 J	mg/kg	non-target background components in chromatogram
COMP-4-DUP	K0606717	K0606717-037	Aroclor 1254	0.30 J	mg/kg	non-target background components in chromatogram

Sample ID	SDG	Laboratory ID	Qualified Analyte	Qualified Result	Units	Qualifier Reason
ER-1 (equipment blank)	K0606717	K0606717-038	none			
COMP-5	K0606980	K0606980-036	none			
MAINT-5	K0607044	K0607044-036	none			

1317 South 13th Avenue P.O. Box 479 Kelso, Washington 98626 (360) 577-7222 (360) 636-1068 fax

Columbia Analytical Services INC
An Employee - Owned Company

GEOMATRIX Received AUG 22 2006 SEATTLE

August 15, 2006 Service Request No: K0606703

John Long
Geomatrix Consultants, Incorporated
One Union Square
600 University Street, Suite 1020
Seattle, WA 98101

RE: Former RP site/8769.006

Dear John:

Enclosed are the results of the rush sample(s) submitted to our laboratory on August 10, 2006. For your reference, these analyses have been assigned our service request number K0606703.

All analyses were performed according to our laboratory's quality assurance program. The test results meet requirements of the NELAC standards. Exceptions are noted in the case narrative report where applicable. All results are intended to be considered in their entirety, and Columbia Analytical Services, Inc. (CAS) is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report.

Please call if you have any questions. My extension is 3376. You may also contact me via Email at GSalata@kelso.caslab.com.

Respectfully submitted,

Columbia Analytical Services, Inc.

Gregory Salata, Ph.D.
Project Chemist

GS/jm

Acronyms

ASTM	American Society for Testing and Materials
A2LA	American Association for Laboratory Accreditation
CARB	California Air Resources Board
CAS Number	Chemical Abstract Service registry Number
CFC	Chlorofluorocarbon
CFU	Colony-Forming Unit
DEC	Department of Environmental Conservation
DEQ	Department of Environmental Quality
DHS	Department of Health Services
DOE	Department of Ecology
DOH	Department of Health
EPA	U. S. Environmental Protection Agency
ELAP	Environmental Laboratory Accreditation Program
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
LUFT	Leaking Underground Fuel Tank
M	Modified
MCL	Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA.
MDL	Method Detection Limit
MPN	Most Probable Number
MRL	Method Reporting Limit
NA	Not Applicable
NC	Not Calculated
NCASI	National Council of the Paper Industry for Air and Stream Improvement
ND	Not Detected
NIOSH	National Institute for Occupational Safety and Health
PQL	Practical Quantitation Limit
RCRA	Resource Conservation and Recovery Act
SIM	Selected Ion Monitoring
TPH	Total Petroleum Hydrocarbons
tr	Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL.

Inorganic Data Qualifiers

*	The result is an outlier. See case narrative.
#	The control limit criteria is not applicable. See case narrative.
B	The analyte was found in the associated method blank at a level that is significant relative to the sample result.
E	The result is an estimate amount because the value exceeded the instrument calibration range.
J	The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.
U	The compound was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
i	The MRL/MDL has been elevated due to a matrix interference.
X	See case narrative.

Metals Data Qualifiers

#	The control limit criteria is not applicable. See case narrative.
B	The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.
E	The percent difference for the serial dilution was greater than 10%, indicating a possible matrix interference in the sample.
M	The duplicate injection precision was not met.
N	The Matrix Spike sample recovery is not within control limits. See case narrative.
S	The reported value was determined by the Method of Standard Additions (MSA).
U	The compound was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
W	The post-digestion spike for furnace AA analysis is out of control limits, while sample absorbance is less than 50% of spike absorbance.
i	The MRL/MDL has been elevated due to a matrix interference.
X	See case narrative.
*	The duplicate analysis not within control limits. See case narrative.
+	The correlation coefficient for the MSA is less than 0.995.

Organic Data Qualifiers

*	The result is an outlier. See case narrative.
#	The control limit criteria is not applicable. See case narrative.
A	A tentatively identified compound, a suspected aldol-condensation product.
B	The analyte was found in the associated method blank at a level that is significant relative to the sample result.
C	The analyte was qualitatively confirmed using GC/MS techniques, pattern recognition, or by comparing to historical data.
D	The reported result is from a dilution.
E	The result is an estimate amount because the value exceeded the instrument calibration range.
J	The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.
N	The result is presumptive. The analyte was tentatively identified, but a confirmation analysis was not performed.
P	The GC or HPLC confirmation criteria was exceeded. The relative percent difference is greater than 40% between the two analytical results (25% for CLP Pesticides).
U	The compound was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
i	The MRL/MDL has been elevated due to a chromatographic interference.
X	See case narrative.

Additional Petroleum Hydrocarbon Specific Qualifiers

F	The chromatographic fingerprint of the sample matches the elution pattern of the calibration standard.
L	The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of lighter molecular weight constituents than the calibration standard.
H	The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of heavier molecular weight constituents than the calibration standard.
O	The chromatographic fingerprint of the sample resembles an oil, but does not match the calibration standard.
Y	The chromatographic fingerprint of the sample resembles a petroleum product eluting in approximately the correct carbon range, but the elution pattern does not match the calibration standard.
Z	The chromatographic fingerprint does not resemble a petroleum product.

Case Narrative

COLUMBIA ANALYTICAL SERVICES, INC.

Client:	Geomatrix Consultants, Inc.	**Service Request No.:**	K0606703
Project:	Former RP Site/8769.006	**Date Received:**	08/10/06
Sample Matrix:	Soil		

CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of Columbia Analytical Services, Inc. (CAS). This report contains analytical results for samples designated for Tier III validation deliverables including summary forms and all of the associated raw data for each of the analyses. When appropriate to the method, method blank results have been reported with each analytical test.

Sample Receipt

Thirty-six soil samples were received for analysis at Columbia Analytical Services on 08/10/06. The samples were received in good condition and consistent with the accompanying chain of custody form. The samples were stored in a refrigerator at 4°C upon receipt at the laboratory. As instructed, the composite sample was subjected to grinding per the project QAPP prior to analysis.

Total Metals

No anomalies associated with the analysis of these samples were observed.

Approved by [signature] Date 8/18/06

Chain of Custody Documentation

CHAIN-OF-CUSTODY RECORD K0606703 SEA 10125

PROJECT NAME: Former Rhone Poulenc - East Parcel			DATE: 8/9/06 PAGE 1 OF 3
PROJECT NUMBER: 8769.006	LABORATORY NAME: CAS	CLIENT INFORMATION:	REPORTING REQUIREMENTS:
RESULTS TO: Larry McGaughey	LABORATORY ADDRESS: 1317 S 13th Ave	Container Properties	
TURNAROUND TIME: 2 day	Kelso WA 98626		
SAMPLE SHIPMENT METHOD: FedEx	LABORATORY CONTACT: Greg Salata		GEOTRACKER REQUIRED YES NO
	LABORATORY PHONE NUMBER: 360-577-7222		SITE SPECIFIC GLOBAL ID NO.

SAMPLERS (SIGNATURE): Natasya AS Gray

ANALYSES

DATE	TIME	SAMPLE NUMBER	EPA 8082 PCBs	BTEX EPA 8021	TPH-Dx	TPH-Gx	Copper	CONTAINER TYPE AND SIZE	Soil (S), Water (W), Vapor (V), or Other (O)	Filtered	Preservative Type	Cooled	MS/MSD	No. of Containers	ADDITIONAL COMMENTS
8/9/06	1443	LAB-4-1A						1 x 2oz jar	S					1	
	1446	LAB-4-2A													
	1447	LAB-4-3A													
	1451	LAB-4-4A													
	1453	LAB-4-5A													
	1454	LAB-4-6A													
	1456	LAB-4-7A													
	1459	LAB-4-8A													
	1500	LAB-4-9A													
	1502	LAB-4-10A													
	1506	LAB-4-11A													
	1507	LAB-4-12A													
	1508	LAB-4-13A													
	1509	LAB-4-14A													
	1510	LAB-4-15A													

RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME
SIGNATURE: Natasya AS Gray	8/9/06	1715	SIGNATURE: A. Jurell	8/10/06	1000
PRINTED NAME: Tasya Gray			PRINTED NAME: Jurell		
COMPANY: Geomatrix			COMPANY: CAS		
SIGNATURE:			SIGNATURE:		
PRINTED NAME:			PRINTED NAME:		
COMPANY:			COMPANY:		
SIGNATURE:			SIGNATURE:		
PRINTED NAME:			PRINTED NAME:		
COMPANY:			COMPANY:		

TOTAL NUMBER OF CONTAINERS: 36

SAMPLING COMMENTS: Hold all "A" sample volume

One Union Square, 600 University Street, Suite 1020
Seattle, Washington 98101-4107
Tel 206.342.1760 Fax 206.342.1761

Geomatrix

CHAIN-OF-CUSTODY RECORD K060603 SEA 10126

PROJECT NAME: Former Rhone Poulenc - East Parcel			DATE: 8/9/06 PAGE 2 OF 3
PROJECT NUMBER: 8769.006	LABORATORY NAME: CAS	CLIENT INFORMATION:	REPORTING REQUIREMENTS:
RESULTS TO: Larry McGaughey	LABORATORY ADDRESS: see pg. 1	Container Properties	
TURNAROUND TIME: 2-day			
SAMPLE SHIPMENT METHOD: Fed Ex	LABORATORY CONTACT:		GEOTRACKER REQUIRED YES NO
	LABORATORY PHONE NUMBER:		SITE SPECIFIC GLOBAL ID NO.

SAMPLERS (SIGNATURE): Natasya D Gray

ANALYSES: PCBs EPA 8082; BTEX EPA 8021; TPH-Dx; TPH-Gx; Copper

DATE	TIME	SAMPLE NUMBER	CONTAINER TYPE AND SIZE	Soil (S), Water (W), Vapor (V), or Other (O)	Filtered	Preservative Type	Cooled	MS/MSD	No. of Containers	ADDITIONAL COMMENTS
8/9/06	1515	LAB-4-16A	1x2oz jar	S					1	
	1516	LAB-4-17A								
	1517	LAB-4-18A								
	1519	LAB-4-19A								
	1528	LAB-4-20A								
	1522	LAB-4-21A								
	1523	LAB-4-22A								
	1524	LAB-4-23A								
	1526	LAB-4-24A								
	1529	LAB-4-25A								
	1532	LAB-4-26A								
	1534	LAB-4-27A								
	1535	LAB-4-28A								
	1537	LAB-4-29A								
	1540	LAB-4-30A								

RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME
SIGNATURE: Natasya D Gray	8/9/06	1715	SIGNATURE: J. Jurell	8/10/06	1000
PRINTED NAME: Tasya Gray			PRINTED NAME: Jurell		
COMPANY: Geomatrix			COMPANY: CAS		
SIGNATURE:			SIGNATURE:		
PRINTED NAME:			PRINTED NAME:		
COMPANY:			COMPANY:		
SIGNATURE:			SIGNATURE:		
PRINTED NAME:			PRINTED NAME:		
COMPANY:			COMPANY:		

TOTAL NUMBER OF CONTAINERS:

SAMPLING COMMENTS: see page 1

One Union Square, 600 University Street, Suite 1020
Seattle, Washington 98101-4107
Tel 206.342.1760 Fax 206.342.1761
Geomatrix

CHAIN-OF-CUSTODY RECORD

KDE06703

SEA 10127

PROJECT NAME: Former Rhone Poulenc - East Parcel			DATE: 8/9/06 PAGE 3 OF 3
PROJECT NUMBER: 8769.006	LABORATORY NAME: CAS	CLIENT INFORMATION:	REPORTING REQUIREMENTS:
RESULTS TO: Larry McGaughey	LABORATORY ADDRESS: see p. 1	Container Properties	
TURNAROUND TIME: 2 day			
SAMPLE SHIPMENT METHOD: Fed Ex	LABORATORY CONTACT:		GEOTRACKER REQUIRED YES NO
	LABORATORY PHONE NUMBER:		SITE SPECIFIC GLOBAL ID NO.

SAMPLERS (SIGNATURE): Natasya A Gray

DATE	TIME	SAMPLE NUMBER	PCBs EPA 8082	BTEX EPA 8021	TPH-Dx	TPH-Gx	Copper	CONTAINER TYPE AND SIZE	Soil (S), Water (W), Vapor (V), or Other (O)	Filtered	Preservative Type	Cooled	MS/MSD	No. of Containers	ADDITIONAL COMMENTS
8/9/06	1551	LAB-4-31A						1 x 2oz jar	S					1	
	1550	LAB-4-32A													
	1541	LAB-4-33A													
	1544	LAB-4-34A													
	1545	LAB-4-35A													
	1551	LAB-4					X	1 x 1 gallon bucket							grinding in accordance with QAPP/SAP

RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME
SIGNATURE: Natasya A Gray	8/9/06	1715	SIGNATURE: R. Lyell	8/10/06	1000
PRINTED NAME: Tasya Gray			PRINTED NAME: R. Lyell		
COMPANY: Geomatrix			COMPANY: CAS		
SIGNATURE:			SIGNATURE:		
PRINTED NAME:			PRINTED NAME:		
COMPANY:			COMPANY:		
SIGNATURE:			SIGNATURE:		
PRINTED NAME:			PRINTED NAME:		
COMPANY:			COMPANY:		

TOTAL NUMBER OF CONTAINERS:

SAMPLING COMMENTS: see p. 1

One Union Square, 600 University Street, Suite 1020
Seattle, Washington 98101-4107
Tel 206.342.1760 Fax 206.342.1761

Geomatrix

Columbia Analytical Services Inc.
Cooler Receipt and Preservation Form

PC Greg

Project/Client FORMER RHONE POULENC Service Request K06 06703

Cooler received on 8/10/06 and opened on 8/10/06 by DB

1. Were custody seals on outside of coolers? Y ~~N~~
   If yes, how many and where?
2. Were custody seals intact? ~~Y~~ N
3. Were signature and date present on the custody seals? ~~Y~~ N
4. Is the shipper's airbill available and filed? If no, record airbill number: ~~Y~~ N
5. COC#
   Temperature of cooler(s) upon receipt: (°C) -.5
   Temperature Blank: (°C)
   Were samples hand delivered on the same day as collection? Y N
6. Were custody papers properly filled out (ink, signed, etc.)? Y N
7. Type of packing material present ICE, BUBBLE WRAP
8. **Did all bottles arrive in good condition (unbroken)?** Y N
9. Were all bottle labels complete (i.e analysis, preservation, etc.)? Y N
10. Did all bottle labels and tags agree with custody papers? Y DB ~~N~~
11. **Were the correct types of bottles used for the tests indicated?** Y N
12. Were all of the preserved bottles received at the lab with the appropriate pH? ~~Y~~ ~~N~~
13. Were VOA vials checked for absence of air bubbles, and if present, noted below? ~~Y~~ ~~N~~
14. Were the 1631 Mercury bottles checked for absence of air bubbles, and if present, noted below? ~~Y~~ ~~N~~
15. Did the bottles originate from CAS/K or a branch laboratory? ~~Y~~ ~~N~~
16. **Are CWA Microbiology samples received with >1/2 the 24hr. hold time remaining from collection?** ~~Y~~ ~~N~~
17. Was C12/Res negative? ~~Y~~ ~~N~~

Explain any discrepancies: Sample ID's on hds

RESOLUTION:

Samples that required preservation or received out of temperature:

Sample ID	Reagent	Volume	Lot Number	Bottle Type	Rec'd out of Temperature	Initials

Total Solids

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Geomatrix Consultants, Incorporated
Project: Former RP site/8769.006
Sample Matrix: Soil

Service Request: K0606703

Total Solids

Prep Method: NONE
Analysis Method: 160.3M
Test Notes:

Units: PERCENT
Basis: Wet

Sample Name	Lab Code	Date Collected	Date Received	Date Analyzed	Result	Result Notes
LAB-4	K0606703-036	08/09/2006	08/10/2006	08/11/2006	99.3	

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client:	Geomatrix Consultants, Incorporated	**Service Request:**	K0606703
Project:	Former RP site/8769.006	**Date Collected:**	08/09/2006
Sample Matrix:	Soil	**Date Received:**	08/10/2006
		Date Analyzed:	08/11/2006

Duplicate Sample Summary
Total Solids

Prep Method:	NONE	**Units:**	PERCENT
Analysis Method:	160.3M	**Basis:**	Wet
Test Notes:			

Sample Name	Lab Code	Sample Result	Duplicate Sample Result	Average	Relative Percent Difference	Result Notes
LAB-4	K0606703-036	99.3	99.3	99.3	<1	

000:3

COLUMBIA ANALYTICAL SERVICES, INC.

EPA Method 160.3 - Total Solids

Group ID:	KWG0613078				
Analyst:	RMcKee			**Reviewed By:**	Curtis L Rugg
Date Acquired:	08/11/2006 15:25	**Oven TempStart:**	104 DEG C	**Date Reviewed:**	8/14/06
Date Completed:	08/12/2006 12:03	**Oven TempEnd:**	104 DEG C		

#	Lab Code	Client ID	Matrix	Tare	Tare+Wet	Tare+Dry	% Solids	QC Ref Sample	Comments
1	K0606699-001	Mix-Composite Sample #1	SOLID FUEL	10.30g	64.10g	37.36g	50.3		
2	K0606703-036	LAB-4	SOIL	1.21g	8.75g	8.70g	99.3		Air Dried & Shatterboxed
3	K0606709-036	MAINT-4	SOIL	1.22g	4.60g	4.57g	99.1		Air Dried & Shatterboxed
4	K0606713-036	SULF-4	SOIL	1.20g	7.53g	7.51g	99.7		Air Dried & Shatterboxed
5	K0606717-036	COMP-4	SOIL	1.22g	7.33g	7.27g	99.0		Air Dried & Shatterboxed
6	K0606757-001	TDF 9A Boiler 6/30	SOLID FUEL	10.36g	61.99g	60.67g	97.4		
7	K0606757-002	TDF 10A Boiler 6/30	SOLID FUEL	10.39g	65.45g	64.51g	98.3		
8	K0606757-003	RDF 10A Boiler 6/30	SOLID FUEL	10.61g	58.27g	55.24g	93.6		
9	K0606757-004	Biomass 9A Boiler	SOLID FUEL	10.40g	66.83g	44.51g	60.4		
10	K0606757-005	Biomass 10A Boiler	SOLID FUEL	10.18g	69.53g	48.65g	64.8		
11	K0606757-006	TDF 9A Boiler 8/4	SOLID FUEL	10.45g	63.45g	61.51g	96.3		
12	K0606757-007	RDF 10A Boiler 8/10	SOLID FUEL	10.11g	57.28g	55.19g	95.6		
13	KWG0613078-1	Duplicate Client Sample	SOIL	1.21g	3.92g	3.90g	99.3	K0606703-036	Air Dried & Shatterboxed
14	KWG0613078-2	Duplicate Client Sample	SOLID FUEL	10.16g	61.13g	59.83g	97.4	K0606757-001	

Metals

METALS

- Cover Page -
INORGANIC ANALYSIS DATA PACKAGE

Client: Geomatrix Consultants, Incorporated Service Request: K0606703

Project No.: 8769.006

Project Name: Former RP site

Sample No.	Lab Sample ID.
LAB-4	K0606703-036
Method Blank	K0606703-MB
Batch QCD	K0606717-036D
Batch QCS	K0606717-036S

Were ICP interelement corrections applied? Yes/No YES

Were ICP background corrections applied? Yes/No YES

If yes-were raw data generated before application of background corrections? Yes/No NO

Comments:

Signature: [illegible] Date: 3/15/06

METALS
-1-
INORGANIC ANALYSIS DATA SHEET

Client: Geomatrix Consultants, Incorporated
Project No.: 8769.006
Project Name: Former RP site
Matrix: SOIL

Service Request: K0606703
Date Collected: 08/09/06
Date Received: 08/10/06
Units: MG/KG
Basis: Dry

Sample Name: LAB-4
Lab Code: K0606703-036

Analyte	Analysis Method	MRL	MDL	Dil.	Date Extracted	Date Analyzed	Result	C	Q
Copper	6020	0.4	0.2	20	8/14/06	8/15/06	33.3		

% Solids: 99.3

Comments:

METALS
-1-
INORGANIC ANALYSIS DATA SHEET

Client: Geomatrix Consultants, Incorporated
Service Request: K0606703
Project No.: 8769.006
Date Collected:
Project Name: Former RP site
Date Received:
Matrix: SOIL
Units: MG/KG
Basis: Dry

Sample Name: Method Blank
Lab Code: K0606703-MB

Analyte	Analysis Method	MRL	MDL	Dil.	Date Extracted	Date Analyzed	Result	C	Q
Copper	6020	0.4	0.2	20	8/14/06	8/15/06	0.2	U	

% Solids: 100.0

Comments:

000:8

METALS
- 2a -
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Geomatrix Consultants, Incorporated Service Request: K0606703

Project No.: 8769.006

Project Name: Former RP site

ICV Source: Inorganic Ventures CCV Source: Various

Concentration Units: ug/l

Analyte	Initial Calibration			Continuing Calibration					Method
	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Copper	12.5	13.5	108	25.0	25.2	101	24.6	98	6020

METALS
- 2a -
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Geomatrix Consultants, Incorporated Service Request: K0606703

Project No.: 8769.006

Project Name: Former RP site

ICV Source: CCV Source: Various

Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration					Method
	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Copper				25.0	24.8	99			6020

METALS
- 2b -
CRDL STANDARD FOR AA AND ICP

Client: Geomatrix Consultants, Incorporated Service Request: K0606703

Project No.: 8769.006

Project Name: Former RP site

Concentration Units: ug/I

Analyte	CRDL Standard for AA			CRDL Standard for ICP				
				Initial			Final	
	True	Found	%R	True	Found	%R	Found	%R
Copper				0.20	0.34	170		

METALS
-3-
BLANKS

Client: Geomatrix Consultants, Incorporated Service Request: K0606703

Project No.: 8769.006

Project Name: Former RP site

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C		Preparation Blank C			Method
Copper	0.1	U	0.1	U	0.1	U	0.1	U					6020

METALS

-4-

ICP INTERFERENCE CHECK SAMPLE

Client: Geomatrix Consultants, Incorporated

Service Request:K0606703

Project No.: 8769.006

Project Name: Former RP site

ICP ID Number: X Series

ICS Source: Inorganic Ventures

Concentration Units): ug/L

Analyte	True		Initial Found			Final Found		
	Sol.A	Sol.AB	Sol.A	Sol.AB	%R	Sol.A	Sol.AB	%R
Copper		20	0.3	22.9	115			

METALS
-5a-
SPIKE SAMPLE RECOVERY

Client: Geomatrix Consultants, Incorporated
Service Request: K0606703
Project No.: 8769.006
Units: mg/kg
Project Name: Former RP site
Basis: Dry
Matrix: SOIL
% Solids: 99.0

Sample Name: Batch QCS
Lab Code: K0606717-036S

Analyte	Control Limit %R	Spike Result	C	Sample Result	C	Spike Added	%R	Q	Method
Copper	52 - 153	122		54.9		50.0	134		6020

An empty field in the Control Limit column indicates the control limit is not applicable.

METALS
- 5b -
POST DIGEST SPIKE SAMPLE RECOVERY

Client: Geomatrix Consultants, Incorporated
Service Request: K0606703
Project No.: 8769.006
Units: ug/L
Project Name: Former RP site
Matrix: SOIL

Sample Name: Batch QCA
Lab Code: K0606717-036A

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Copper	75-125	48.0		27.5		20.0	103		MS

Comments:

METALS
-6-
DUPLICATES

Client: Geomatrix Consultants, Incorporated
Service Request: K0606703
Project No.: 8769.006
Units: mg/kg
Project Name: Former RP site
Basis: Dry
Matrix: SOIL
% Solids: 99.0

Sample Name: Batch QCD
Lab Code: K0606717-036D

Analyte	Control Limit(%)	Sample (S)	C	Duplicate (D)	C	RPD	Q	Method
Copper	30	54.9		53.9		2		6020

An empty field in the Control Limit column indicates the control limit is not applicable.

METALS
-7-
LABORATORY CONTROL SAMPLE

Client: Geomatrix Consultants, Incorporated Service Request: K0606703

Project No.: 8769.006

Project Name: Former RP site

Aqueous LCS Source: Inorganic Ventures Solid LCS Source: ERA Lot #D045540

	Aqueous mg/L			Solid (mg/kg)				
Analyte	True	Found	%R	True	Found	C	Limits	%R
Copper				67.0	70.0		53.8 80.2	104

METALS
-9-
ICP SERIAL DILUTIONS

Client: Geomatrix Consultants, Incorporated
Service Request: K0606703
Project No.: 8769.006
Units: ug/L
Project Name: Former RP site

Sample Name: Batch QCL
Lab Code: K0606717-036L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Differ-	Q	Method
Copper	27.5		27.5		0		6020

METALS
-10-
METHOD DETECTION LIMITS

Client: Geomatrix Consultants, Incorporated Service Request: K0606703

Project No.: 8769.006

Project Name: Former RP site

ICP/ICP-MS ID #: X Series

GFAA ID #: AA ID #:

Analyte	Mass	Back-ground	MRL (ug/L)	MDL (ug/L)	Method
Copper	65		0.2	0.1	6020

Comments

METALS

-12-

ICP LINEAR RANGES (QUARTERLY)

Client: Geomatrix Consultants, Incorporated Service Request: K0606703

Project No.: 8769.006

Project Name: Former RP site

ICP ID Number: X Series

Analyte	Integ. Time (Sec.)	Concentration (ug/L)	Method
Copper	15.00	400.0	6020

Comments:

1317 South 13th Avenue P.O. Box 479 Kelso, Washington 98626 (360) 577-7222 (360) 636-1068 fax

Columbia Analytical Services INC
An Employee - Owned Company

GEOMATRIX Received AUG 22 2006 SEATTLE

August 15, 2006 Service Request No: K0606709

John Long
Geomatrix Consultants, Incorporated
One Union Square
600 University Street, Suite 1020
Seattle, WA 98101

RE: Former RP site/8769.006

Dear John:

Enclosed are the results of the rush sample(s) submitted to our laboratory on August 10, 2006. For your reference, these analyses have been assigned our service request number K0606709.

All analyses were performed according to our laboratory's quality assurance program. The test results meet requirements of the NELAC standards. Exceptions are noted in the case narrative report where applicable. All results are intended to be considered in their entirety, and Columbia Analytical Services, Inc. (CAS) is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report.

Please call if you have any questions. My extension is 3376. You may also contact me via Email at GSalata@kelso.caslab.com.

Respectfully submitted,

Columbia Analytical Services, Inc.

Gregory Salata, Ph.D.
Project Chemist

GS/jm

Acronyms

ASTM	American Society for Testing and Materials
A2LA	American Association for Laboratory Accreditation
CARB	California Air Resources Board
CAS Number	Chemical Abstract Service registry Number
CFC	Chlorofluorocarbon
CFU	Colony-Forming Unit
DEC	Department of Environmental Conservation
DEQ	Department of Environmental Quality
DHS	Department of Health Services
DOE	Department of Ecology
DOH	Department of Health
EPA	U. S. Environmental Protection Agency
ELAP	Environmental Laboratory Accreditation Program
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
LUFT	Leaking Underground Fuel Tank
M	Modified
MCL	Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA.
MDL	Method Detection Limit
MPN	Most Probable Number
MRL	Method Reporting Limit
NA	Not Applicable
NC	Not Calculated
NCASI	National Council of the Paper Industry for Air and Stream Improvement
ND	Not Detected
NIOSH	National Institute for Occupational Safety and Health
PQL	Practical Quantitation Limit
RCRA	Resource Conservation and Recovery Act
SIM	Selected Ion Monitoring
TPH	Total Petroleum Hydrocarbons
tr	Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL.

Inorganic Data Qualifiers

*	The result is an outlier. See case narrative.
#	The control limit criteria is not applicable. See case narrative.
B	The analyte was found in the associated method blank at a level that is significant relative to the sample result.
E	The result is an estimate amount because the value exceeded the instrument calibration range.
J	The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.
U	The compound was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
i	The MRL/MDL has been elevated due to a matrix interference.
X	See case narrative.

Metals Data Qualifiers

#	The control limit criteria is not applicable. See case narrative.
B	The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.
E	The percent difference for the serial dilution was greater than 10%, indicating a possible matrix interference in the sample.
M	The duplicate injection precision was not met.
N	The Matrix Spike sample recovery is not within control limits. See case narrative.
S	The reported value was determined by the Method of Standard Additions (MSA).
U	The compound was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
W	The post-digestion spike for furnace AA analysis is out of control limits, while sample absorbance is less than 50% of spike absorbance.
i	The MRL/MDL has been elevated due to a matrix interference.
X	See case narrative.
*	The duplicate analysis not within control limits. See case narrative.
+	The correlation coefficient for the MSA is less than 0.995.

Organic Data Qualifiers

*	The result is an outlier. See case narrative.
#	The control limit criteria is not applicable. See case narrative.
A	A tentatively identified compound, a suspected aldol-condensation product.
B	The analyte was found in the associated method blank at a level that is significant relative to the sample result.
C	The analyte was qualitatively confirmed using GC/MS techniques, pattern recognition, or by comparing to historical data.
D	The reported result is from a dilution.
E	The result is an estimate amount because the value exceeded the instrument calibration range.
J	The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.
N	The result is presumptive. The analyte was tentatively identified, but a confirmation analysis was not performed.
P	The GC or HPLC confirmation criteria was exceeded. The relative percent difference is greater than 40% between the two analytical results (25% for CLP Pesticides).
U	The compound was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
i	The MRL/MDL has been elevated due to a chromatographic interference.
X	See case narrative.

Additional Petroleum Hydrocarbon Specific Qualifiers

F	The chromatographic fingerprint of the sample matches the elution pattern of the calibration standard.
L	The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of lighter molecular weight constituents than the calibration standard.
H	The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of heavier molecular weight constituents than the calibration standard.
O	The chromatographic fingerprint of the sample resembles an oil, but does not match the calibration standard.
Y	The chromatographic fingerprint of the sample resembles a petroleum product eluting in approximately the correct carbon range, but the elution pattern does not match the calibration standard.
Z	The chromatographic fingerprint does not resemble a petroleum product.

Case Narrative

COLUMBIA ANALYTICAL SERVICES, INC.

Client:	Geomatrix Consultants, Inc.	**Service Request No.:**	K0606709
Project:	Former RP Site/8769.006	**Date Received:**	08/10/06
Sample Matrix:	Soil		

CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of Columbia Analytical Services, Inc. (CAS). This report contains analytical results for samples designated for Tier III validation deliverables including summary forms and all of the associated raw data for each of the analyses. When appropriate to the method, method blank results have been reported with each analytical test.

Sample Receipt

Thirty-six soil samples were received for analysis at Columbia Analytical Services on 08/10/06. The samples were received in good condition and consistent with the accompanying chain of custody form. The samples were stored in a refrigerator at 4°C upon receipt at the laboratory. As instructed, the composite sample was subjected to grinding per the project QAPP. The ground sample was also divided into two discreet samples, with the second designated as "MAINT-4-DUP". After analysis of the composite samples, the client requested that all thirty-five discreet samples be analyzed as well for Copper.

Total Metals

Continuing Calibration Verification Exceptions:
The CRDL standard for Copper analyzed on 08/17/06 was outside the normal CAS control criteria (221% versus an upper control limit of 200%). Since the CRDL standard is a measure of accuracy at the Method Reporting Limit (MRL) and concentrations found in the associated samples were 20 to 1000 times greater than the MRL the CRDL outlier does not adversely impact the data quality. No further corrective action was taken.

Relative Percent Difference Exceptions:
The Relative Percent Difference (RPD) for the replicate analysis of Copper in sample MAINT-4-2A was outside the normal CAS control limits. The variability in the results is attributed to the heterogeneous character of the sample. The sample contained relatively large amounts of rocks, which created difficulties during the homogenization process. Standard mixing techniques were used, but were not sufficient for complete homogenization of this sample.

No other anomalies associated with the analysis of these samples were observed.

Approved by [signature] Date 8/18/06

Chain of Custody Documentation

CHAIN-OF-CUSTODY RECORD

K0606709

SEA 10122

PROJECT NAME: Former Rhone Poulenc - East Parcel.			DATE: 8/9/06 PAGE 1 OF 3
PROJECT NUMBER: 8769.006	LABORATORY NAME: CAS	CLIENT INFORMATION:	REPORTING REQUIREMENTS:
RESULTS TO: Larry McGaughey	LABORATORY ADDRESS: 1317 S. 13th Ave	Container Properties	
TURNAROUND TIME: 2 day	Kelso, WA 98626		
SAMPLE SHIPMENT METHOD: FedEx	LABORATORY CONTACT: Greg Salata		GEOTRACKER REQUIRED YES NO
	LABORATORY PHONE NUMBER: 360 577 7222		SITE SPECIFIC GLOBAL ID NO.

SAMPLERS (SIGNATURE):

DATE	TIME	SAMPLE NUMBER	EPA 8082 (PCBs)	BTEX (EPA 8021)	TPH-Dx	TPH-G	Copper	CONTAINER TYPE AND SIZE	Soil (S), Water (W), Vapor (V), or Other (O)	Filtered	Preservative Type	Cooled	MS/MSD	No. of Containers	ADDITIONAL COMMENTS
8/9/06	1314	MAINT-4-1A						1x2oz jar	S					1	
	1316	MAINT-4-2A													
	1318	MAINT-4-3A													
	1321	MAINT-4-4A													
	1325	MAINT-4-5A													
	1323	MAINT-4-6A													
	1328	MAINT-4-7A													
	1329	MAINT-4-8A													
	1330	MAINT-4-9A													
	1331	MAINT-4-10A													
	1332	MAINT-4-11A													
	1333	MAINT-4-12A													
	1334	MAINT-4-13A													
	1335	MAINT-4-14A													
	1336	MAINT-4-15A													

RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME
SIGNATURE:	8/9/06	1715	SIGNATURE:	8/10/06	1000
PRINTED NAME: Zanna Sattenwhite			PRINTED NAME:		
COMPANY: Geomatrix			COMPANY: CAS		
SIGNATURE:			SIGNATURE:		
PRINTED NAME:			PRINTED NAME:		
COMPANY:			COMPANY:		
SIGNATURE:			SIGNATURE:		
PRINTED NAME:			PRINTED NAME:		
COMPANY:			COMPANY:		

TOTAL NUMBER OF CONTAINERS: 36

SAMPLING COMMENTS: Please conduct "field duplicate" for Copper analysis on sample ~~GOSAP~~ MAINT-4. (after grinding in accordance with QAPP/SOP). Hold all "A" sample volume.

One Union Square, 600 University Street, Suite 1020
Seattle, Washington 98101-4107
Tel 206.342.1760 Fax 206.342.1761
Geomatrix

CHAIN-OF-CUSTODY RECORD

K0606709 SEA 10123

PROJECT NAME: Former Rhone Poulenc - East Parcel			DATE: 8/9/06 PAGE 2 OF 3
PROJECT NUMBER: 8769.006	LABORATORY NAME: CAS	CLIENT INFORMATION:	REPORTING REQUIREMENTS:
RESULTS TO: Larry McGaughey	LABORATORY ADDRESS: 1317 S 13th Ave	Container Properties	
TURNAROUND TIME: 2 day	Kelso, WA 98626		
SAMPLE SHIPMENT METHOD: Fed EX	LABORATORY CONTACT: Greg Salata		GEOTRACKER REQUIRED YES NO
	LABORATORY PHONE NUMBER: 360 577 7222		SITE SPECIFIC GLOBAL ID NO.

SAMPLERS (SIGNATURE):

DATE	TIME	SAMPLE NUMBER	ANALYSES: Copper	CONTAINER TYPE AND SIZE	Soil (S), Water (W), Vapor (V), or Other (O)	Filtered	Preservative Type	Cooled	MS/MSD	No. of Containers	ADDITIONAL COMMENTS
8/9/06	1337	MAINT-4-16A		2 oz jar	S					1	
	1338	MAINT-4-17A									
	1339	MAINT-4-18A									
	1340	MAINT-4-19A									
	1340	MAINT-4-20A									
	1341	MAINT-4-21A									
	1342	MAINT-4-22A									
	1344	MAINT-4-23A									
	1345	MAINT-4-24A									
	1346	MAINT-4-25A									
	1347	MAINT-4-26A									
	1348	MAINT-4-27A									
	1350	MAINT-4-28A									
	1351	MAINT-4-29A									
	1354	MAINT-4-30A									

RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME
SIGNATURE:	8/9/06	1745	SIGNATURE:	8/10/06	1000
PRINTED NAME: Lanna Sattenwhite			PRINTED NAME:		
COMPANY: Geomatrix			COMPANY: CAS		
SIGNATURE:			SIGNATURE:		
PRINTED NAME:			PRINTED NAME:		
COMPANY:			COMPANY:		
SIGNATURE:			SIGNATURE:		
PRINTED NAME:			PRINTED NAME:		
COMPANY:			COMPANY:		

TOTAL NUMBER OF CONTAINERS:

SAMPLING COMMENTS: See p. 1

One Union Square, 600 University Street, Suite 1020
Seattle, Washington 98101-4107
Tel 206.342.1760 Fax 206.342.1761

Geomatrix

CHAIN-OF-CUSTODY RECORD

K0606709 SEA 10124

PROJECT NAME: Former Rhone-Poulenc-East Parcel		DATE: 8/9/06	PAGE 3 OF 3
PROJECT NUMBER: 8769.006	LABORATORY NAME: CAS	CLIENT INFORMATION:	REPORTING REQUIREMENTS:
RESULTS TO: Larry McGaughey	LABORATORY ADDRESS: 1317 S 13th Ave	Container Properties	
TURNAROUND TIME: 2 day	Kelso, WA 98626		
SAMPLE SHIPMENT METHOD: FedEx	LABORATORY CONTACT: Greg Salata		GEOTRACKER REQUIRED YES NO
	LABORATORY PHONE NUMBER: 360 577 7222		SITE SPECIFIC GLOBAL ID NO.

SAMPLERS (SIGNATURE):

DATE	TIME	SAMPLE NUMBER	ANALYSES: Copper	CONTAINER TYPE AND SIZE	Soil (S), Water (W), Vapor (V), or Other (O)	Filtered	Preservative Type	Cooled	MS/MSD	No. of Containers	ADDITIONAL COMMENTS
8/9/06	1356	MAINT-4-31A		2 oz jar	S					1	
	1357	MAINT-4-32A									
	1358	MAINT-~~5~~4-33A									
	1359	MAINT-4-34A									
	1401	MAINT-4-35A									
	1401	MAINT-4	X	1 gallon bucket	S						

CAS 8/9/06

RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME	TOTAL NUMBER OF CONTAINERS:
SIGNATURE: [signature]			SIGNATURE: [signature]	8/10/06		SAMPLING COMMENTS: Seep. 1.
PRINTED NAME: Lanna Sattlemhite	8/9/06	175	PRINTED NAME: [signature]		1000	
COMPANY: Geomatrix			COMPANY: CAS			
SIGNATURE:			SIGNATURE:			
PRINTED NAME:			PRINTED NAME:			
COMPANY:			COMPANY:			
SIGNATURE:			SIGNATURE:			
PRINTED NAME:			PRINTED NAME:			
COMPANY:			COMPANY:			

One Union Square, 600 University Street, Suite 1020
Seattle, Washington 98101-4107
Tel 206.342.1760 Fax 206.342.1761
Geomatrix

6

Columbia Analytical Services Inc.
Cooler Receipt and Preservation Form

PC Gly

Project/Client FORMER Rhone Poulenc Service Request K06 06709

Cooler received on 8/10/06 and opened on 8/10/06 by AB

1.	Were custody seals on outside of coolers?	Y	(N)
	If yes, how many and where?		
2.	Were custody seals intact?	~~Y~~	~~N~~
3.	Were signature and date present on the custody seals?	~~Y~~	~~N~~
4.	Is the shipper's airbill available and filed? If no, record airbill number:	(Y)	N
5.	COC#		
	Temperature of cooler(s) upon receipt: (°C)	.7	
	Temperature Blank: (°C)		
	Were samples hand delivered on the same day as collection?	Y	(N)
6.	Were custody papers properly filled out (ink, signed, etc.)?	(Y)	N
7.	Type of packing material present ICE, BUBBLE WRAP		
8.	**Did all bottles arrive in good condition (unbroken)?**	(Y)	N
9.	Were all bottle labels complete (i.e analysis, preservation, etc.)?	(Y)	N
10.	Did all bottle labels and tags agree with custody papers?	(Y)	N
11.	**Were the correct types of bottles used for the tests indicated?**	(Y)	N
12.	Were all of the preserved bottles received at the lab with the appropriate pH?	~~Y~~	~~N~~
13.	Were VOA vials checked for absence of air bubbles, and if present, noted below?	~~Y~~	~~N~~
14.	Were the 1631 Mercury bottles checked for absence of air bubbles, and if present, noted below?	~~Y~~	~~N~~
15.	Did the bottles originate from CAS/K or a branch laboratory?	(Y)	(N)
16.	**Are CWA Microbiology samples received with >1/2 the 24hr. hold time remaining from collection?**	~~Y~~	~~N~~
17.	Was C12/Res negative?	~~Y~~	~~N~~

Explain any discrepancies:

RESOLUTION:

Samples that required preservation or received out of temperature:

Sample ID	Reagent	Volume	Lot Number	Bottle Type	Rec'd out of Temperature	Initials

Total Solids

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Geomatrix Consultants, Incorporated
Project: Former RP site/8769.006
Sample Matrix: Soil

Service Request: K0606709

Total Solids

Prep Method: NONE
Analysis Method: 160.3M
Test Notes:

Units: PERCENT
Basis: Wet

Sample Name	Lab Code	Date Collected	Date Received	Date Analyzed	Result	Result Notes
MAINT-4-1A	K0606709-001	08/09/2006	08/10/2006	08/16/2006	99.2	
MAINT-4-2A	K0606709-002	08/09/2006	08/10/2006	08/16/2006	97.9	
MAINT-4-3A	K0606709-003	08/09/2006	08/10/2006	08/16/2006	93.2	
MAINT-4-4A	K0606709-004	08/09/2006	08/10/2006	08/16/2006	96.3	
MAINT-4-5A	K0606709-005	08/09/2006	08/10/2006	08/16/2006	93.7	
MAINT-4-6A	K0606709-006	08/09/2006	08/10/2006	08/16/2006	98.3	
MAINT-4-7A	K0606709-007	08/09/2006	08/10/2006	08/16/2006	95.8	
MAINT-4-8A	K0606709-008	08/09/2006	08/10/2006	08/16/2006	88.1	
MAINT-4-9A	K0606709-009	08/09/2006	08/10/2006	08/16/2006	96.4	
MAINT-4-10A	K0606709-010	08/09/2006	08/10/2006	08/16/2006	93.5	
MAINT-4-11A	K0606709-011	08/09/2006	08/10/2006	08/16/2006	80.7	
MAINT-4-12A	K0606709-012	08/09/2006	08/10/2006	08/16/2006	95.9	
MAINT-4-13A	K0606709-013	08/09/2006	08/10/2006	08/16/2006	96.7	
MAINT-4-14A	K0606709-014	08/09/2006	08/10/2006	08/16/2006	97.2	
MAINT-4-15A	K0606709-015	08/09/2006	08/10/2006	08/16/2006	97.5	
MAINT-4-16A	K0606709-016	08/09/2006	08/10/2006	08/16/2006	92.8	
MAINT-4-17A	K0606709-017	08/09/2006	08/10/2006	08/16/2006	94.1	
MAINT-4-18A	K0606709-018	08/09/2006	08/10/2006	08/16/2006	92.3	
MAINT-4-19A	K0606709-019	08/09/2006	08/10/2006	08/16/2006	92.6	
MAINT-4-20A	K0606709-020	08/09/2006	08/10/2006	08/16/2006	94.3	
MAINT-4-21A	K0606709-021	08/09/2006	08/10/2006	08/16/2006	92.1	
MAINT-4-22A	K0606709-022	08/09/2006	08/10/2006	08/16/2006	91.2	
MAINT-4-23A	K0606709-023	08/09/2006	08/10/2006	08/16/2006	83.2	
MAINT-4-24A	K0606709-024	08/09/2006	08/10/2006	08/16/2006	95.7	
MAINT-4-25A	K0606709-025	08/09/2006	08/10/2006	08/16/2006	93.3	
MAINT-4-26A	K0606709-026	08/09/2006	08/10/2006	08/16/2006	87.7	
MAINT-4-27A	K0606709-027	08/09/2006	08/10/2006	08/16/2006	81.2	
MAINT-4-28A	K0606709-028	08/09/2006	08/10/2006	08/16/2006	90.8	
MAINT-4-29A	K0606709-029	08/09/2006	08/10/2006	08/16/2006	82.8	
MAINT-4-30A	K0606709-030	08/09/2006	08/10/2006	08/16/2006	97.3	
MAINT-4-31A	K0606709-031	08/09/2006	08/10/2006	08/16/2006	92.4	
MAINT-4-32A	K0606709-032	08/09/2006	08/10/2006	08/16/2006	84.7	
MAINT-4-33A	K0606709-033	08/09/2006	08/10/2006	08/16/2006	91.2	
MAINT-4-34A	K0606709-034	08/09/2006	08/10/2006	08/16/2006	94.5	
MAINT-4-35A	K0606709-035	08/09/2006	08/10/2006	08/16/2006	93.4	

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client:	Geomatrix Consultants, Incorporated	**Service Request:**	K0606709
Project:	Former RP site/8769.006	**Date Collected:**	08/09/2006
Sample Matrix:	Soil	**Date Received:**	08/10/2006
		Date Analyzed:	08/16/2006

Duplicate Sample Summary
Total Solids

Prep Method:	NONE	**Units:**	PERCENT
Analysis Method:	160.3M	**Basis:**	Wet
Test Notes:			

Sample Name	Lab Code	Sample Result	Duplicate Sample Result	Average	Relative Percent Difference	Result Notes
MAINT-4-1A	K0606709-001	99.2	99.4	99.3	<1	

Client:	Geomatrix Consultants, Incorporated	**Service Request:**	K0606709
Project:	Former RP site/8769.006	**Date Collected:**	08/09/2006
Sample Matrix:	Soil	**Date Received:**	08/10/2006
		Date Analyzed:	08/16/2006

Duplicate Sample Summary
Total Solids

Prep Method:	NONE	**Units:**	PERCENT
Analysis Method:	160.3M	**Basis:**	Wet
Test Notes:			

Sample Name	Lab Code	Sample Result	Duplicate Sample Result	Average	Relative Percent Difference	Result Notes
MAINT-4-10A	K0606709-010	93.5	93.1	93.3	<1	

Client:	Geomatrix Consultants, Incorporated	**Service Request:**	K0606709
Project:	Former RP site/8769.006	**Date Collected:**	08/09/2006
Sample Matrix:	Soil	**Date Received:**	08/10/2006
		Date Analyzed:	08/16/2006

Duplicate Sample Summary
Total Solids

Prep Method:	NONE	**Units:**	PERCENT
Analysis Method:	160.3M	**Basis:**	Wet
Test Notes:			

Sample Name	Lab Code	Sample Result	Duplicate Sample Result	Average	Relative Percent Difference	Result Notes
MAINT-4-20A	K0606709-020	94.3	94.4	94.4	<1	

Client:	Geomatrix Consultants, Incorporated	**Service Request:**	K0606709
Project:	Former RP site/8769.006	**Date Collected:**	08/09/2006
Sample Matrix:	Sediment	**Date Received:**	08/10/2006
		Date Analyzed:	08/16/2006

Duplicate Sample Summary
Total Solids

Prep Method:	NONE	**Units:**	PERCENT
Analysis Method:	160.3M	**Basis:**	Wet
Test Notes:			

Sample Name	Lab Code	Sample Result	Duplicate Sample Result	Average	Relative Percent Difference	Result Notes
MAINT-4-30A	K0606709-030	97.3	97.7	97.5	<1	

Group ID:	KWG0613452				
Analyst:	RMcKee			Reviewed By:	
Date Acquired:	08/16/2006 16:48	Oven TempStart:	104 DEG C	Date Reviewed:	8/17/06
Date Completed:	08/17/2006 09:10	Oven TempEnd:	103 DEG C		

#	Lab Code	Client ID	Matrix	Tare	Tare+Wet	Tare+Dry	% Solids	QC Ref Sample	Comments
27	K0606709-001	MAINT-4-1A	SOIL	1.25g	11.65g	11.57g	99.2		
28	K0606709-002	MAINT-4-2A	SOIL	1.24g	12.69g	12.45g	97.9		
29	K0606709-003	MAINT-4-3A	SOIL	1.26g	7.30g	6.89g	93.2		
30	K0606709-004	MAINT-4-4A	SOIL	1.27g	7.45g	7.22g	96.3		
31	K0606709-005	MAINT-4-5A	SOIL	1.26g	10.11g	9.55g	93.7		
32	K0606709-006	MAINT-4-6A	SOIL	1.26g	10.06g	9.91g	98.3		
33	K0606709-007	MAINT-4-7A	SOIL	1.26g	10.65g	10.26g	95.8		
34	K0606709-008	MAINT-4-8A	SOIL	1.26g	8.57g	7.70g	88.1		
35	K0606709-009	MAINT-4-9A	SOIL	1.26g	13.50g	13.06g	96.4		
36	K0606709-010	MAINT-4-10A	SOIL	1.26g	11.44g	10.78g	93.5		
37	K0606709-011	MAINT-4-11A	SOIL	1.25g	9.44g	7.86g	80.7		
38	K0606709-012	MAINT-4-12A	SOIL	1.25g	14.70g	14.15g	95.9		
39	K0606709-013	MAINT-4-13A	SOIL	1.25g	12.65g	12.27g	96.7		
40	K0606709-014	MAINT-4-14A	SOIL	1.25g	13.30g	12.96g	97.2		
41	K0606709-015	MAINT-4-15A	SOIL	1.25g	12.52g	12.24g	97.5		
42	K0606709-016	MAINT-4-16A	SOIL	1.26g	12.83g	12.00g	92.8		
43	K0606709-017	MAINT-4-17A	SOIL	1.24g	12.97g	12.28g	94.1		
44	K0606709-018	MAINT-4-18A	SOIL	1.25g	11.16g	10.40g	92.3		
45	K0606709-019	MAINT-4-19A	SOIL	1.25g	11.67g	10.90g	92.6		
46	K0606709-020	MAINT-4-20A	SOIL	1.26g	10.43g	9.91g	94.3		
47	K0606709-021	MAINT-4-21A	SOIL	1.26g	12.73g	11.82g	92.1		
48	K0606709-022	MAINT-4-22A	SOIL	1.24g	12.93g	11.90g	91.2		
49	K0606709-023	MAINT-4-23A	SOIL	1.25g	13.13g	11.13g	83.2		
50	K0606709-024	MAINT-4-24A	SOIL	1.25g	13.63g	13.10g	95.7		
51	K0606709-025	MAINT-4-25A	SOIL	1.25g	10.66g	10.03g	93.3		
52	K0606709-026	MAINT-4-26A	SOIL	1.26g	13.66g	12.14g	87.7		
53	K0606709-027	MAINT-4-27A	SOIL	1.26g	13.59g	11.27g	81.2		
54	K0606709-028	MAINT-4-28A	SOIL	1.25g	14.46g	13.25g	90.8		
55	K0606709-029	MAINT-4-29A	SOIL	1.26g	13.06g	11.03g	82.8		
56	K0606709-030	MAINT-4-30A	SOIL	1.26g	13.64g	13.31g	97.3		
57	K0606709-031	MAINT-4-31A	SOIL	1.26g	17.01g	15.81g	92.4		

Group ID:	KWG0613452				
Analyst:	RMcKee			Reviewed By:	
Date Acquired:	08/16/2006 16:48	Oven TempStart:	104 DEG C	Date Reviewed:	8/17/06
Date Completed:	08/17/2006 09:10	Oven TempEnd:	103 DEG C		

#	Lab Code	Client ID	Matrix	Tare	Tare+Wet	Tare+Dry	% Solids	QC Ref Sample	Comments
58	K0606709-032	MAINT-4-32A	SOIL	1.27g	12.56g	10.83g	84.7		
59	K0606709-033	MAINT-4-33A	SOIL	1.26g	15.73g	14.45g	91.2		
60	K0606709-034	MAINT-4-34A	SOIL	1.26g	11.03g	10.49g	94.5		
61	K0606709-035	MAINT-4-35A	SOIL	1.27g	12.70g	11.94g	93.4		
62	K0606807-001	City of Klawock Landfill Site	SOIL	1.21g	8.92g	6.63g	70.3		
63	K0606807-002	City of Klawock Shop Site	SOIL	1.19g	7.89g	7.13g	88.7		
64	K0606853-001	Packrock Green Soil	SOIL	1.21g	6.62g	6.14g	91.1		
65	K0606867-001	Feed Belt	SOLID FUEL	11.95g	67.49g	40.05g	50.6		As Received
66	K0606867-002	Dewatered Sludge	SOLID FUEL	11.91g	90.99g	42.86g	39.1		As Received
67	KWG0613452-1	Duplicate Client Sample	SOIL	1.24g	12.67g	12.60g	99.4	K0606709-001	
68	KWG0613452-2	Duplicate Client Sample	SOIL	1.25g	12.09g	11.34g	93.1	K0606709-010	
69	KWG0613452-3	Duplicate Client Sample	SOIL	1.25g	11.61g	11.03g	94.4	K0606709-020	
70	KWG0613452-4	Duplicate Client Sample	SEDIMENT	1.27g	2.14g	2.12g	97.7	K0605942-002	
71	KWG0613452-5	Duplicate Client Sample	SEDIMENT	1.23g	3.14g	3.11g	98.4	K0605942-011	
72	KWG0613452-6	Duplicate Client Sample	SEDIMENT	1.26g	12.41g	12.15g	97.7	K0606709-030	
73	KWG0613452-7	Duplicate Client Sample	SEDIMENT	1.25g	3.38g	3.37g	99.5	K0605942-020	
74	KWG0613452-8	Duplicate Client Sample	SOIL	1.23g	10.21g	9.33g	90.2	K0606807-002	

COLUMBIA ANALYTICAL SERVICES, INC.

EPA Method 160.3 - Total Solids

Group ID:	KWG0613452				
Analyst:	RMcKee			**Reviewed By:**	
Date Acquired:	08/16/2006 16:48	**Oven TempStart:**	104 DEG C	**Date Reviewed:**	8/17/06
Date Completed:	08/17/2006 09:10	**Oven TempEnd:**	103 DEG C		

#	Lab Code	Client ID	Matrix	Tare	Tare+Wet	Tare+Dry	% Solids	QC Ref Sample	Comments
1	K0605942-001	Repub-WR1-S1	SOIL	1.2490g	1.4719g	1.4604g	94.8		
2	K0605942-002	Repub-WR1-S2	SOIL	1.25g	2.04g	2.03g	98.7		
3	K0605942-003	Repub-WR1-S3	SOIL	1.25g	2.15g	2.14g	98.9		
4	K0605942-004	Repub-WR1-S4	SOIL	1.27g	2.72g	2.71g	99.3		
5	K0605942-005	Repub-WR3-S1	SOIL	1.27g	1.78g	1.77g	98.0		
6	K0605942-006	Rick-WR1-S1	SOIL	1.27g	2.77g	2.75g	98.7		
7	K0605942-007	Maude-WR1-S1	SOIL	1.27g	3.51g	3.48g	98.7		
8	K0605942-008	Maude-WR1-S2	SOIL	1.28g	3.54g	3.52g	99.1		
9	K0605942-009	Maude-WR2-S1	SOIL	1.24g	2.77g	2.76g	99.3		
10	K0605942-010	Maude-WR2-S2	SOIL	1.25g	2.27g	2.25g	98.0		
11	K0605942-011	Maude-WR3-S1	SOIL	1.23g	3.42g	3.39g	98.6		
12	K0605942-012	Butte-WR1-S2	SOIL	1.27g	3.49g	3.47g	99.1		
13	K0605942-013	Trust-WR2-S1	SOIL	1.23g	3.73g	3.73g	100		
14	K0605942-014	Advance-WR2-S1	SOIL	1.24g	2.98g	2.98g	100		
15	K0605942-015	Advance-SR2-S2	SOIL	1.25g	3.20g	3.20g	100		
16	K0605942-016	Advance-WR2-S3	SOIL	1.25g	4.18g	4.17g	99.7		
17	K0605942-017	Hort-WR1-S1	SOIL	1.26g	3.76g	3.75g	99.6		
18	K0605942-018	Hort-WR2-S1	SOIL	1.24g	4.23g	4.22g	99.7		
19	K0605942-019	Hort-WR3-S1	SOIL	1.25g	4.37g	4.37g	100		
20	K0605942-020	Hort-WR4-S1	SOIL	1.25g	3.54g	3.53g	99.6		
21	K0605942-021	Hort-SR5-S1	SOIL	1.24g	2.03g	2.03g	100		
22	K0605942-023	Repub-Sed 2	SEDIMENT	1.26g	1.88g	1.85g	95.2		
23	K0605942-024	Hort-WR3-S2	SEDIMENT	1.25g	3.34g	3.34g	100		
24	K0605942-025	Advance-Sed 1	SEDIMENT	1.25g	2.89g	2.87g	98.8		
25	K0605942-026	Hort-Sed 1	SEDIMENT	1.24g	3.23g	3.21g	99.0		
26	K0605942-027	Hort-Sed 3	SEDIMENT	1.23g	4.18g	4.17g	99.7		

Analytical Results

Client: Geomatrix Consultants, Incorporated
Project: Former RP site/8769.006
Sample Matrix: Soil

Service Request: K0606709

Total Solids

Prep Method: NONE
Analysis Method: 160.3M
Test Notes:

Units: PERCENT
Basis: Wet

Sample Name	Lab Code	Date Collected	Date Received	Date Analyzed	Result	Result Notes
MAINT-4	K0606709-036	08/09/2006	08/10/2006	08/11/2006	99.1	

COLUMBIA ANA. TICAL SERVICES, INC.

EPA Method 160.3 - Total Solids

Group ID:	KWG0613078				
Analyst:	RMcKee			**Reviewed By:**	Curtis L Rugg
Date Acquired:	08/11/2006 15:25	**Oven TempStart:**	104 DEG C	**Date Reviewed:**	8/14/06
Date Completed:	08/12/2006 12:03	**Oven TempEnd:**	104 DEG C		

#	Lab Code	Client ID	Matrix	Tare	Tare+Wet	Tare+Dry	% Solids	QC Ref Sample	Comments
1	K0606699-001	Mix-Composite Sample #1	SOLID FUEL	10.30g	64.10g	37.36g	50.3		
2	K0606703-036	LAB-4	SOIL	1.21g	8.75g	8.70g	99.3		Air Dried & Shatterboxed
3	K0606709-036	MAINT-4	SOIL	1.22g	4.60g	4.57g	99.1		Air Dried & Shatterboxed
4	K0606713-036	SULF-4	SOIL	1.20g	7.53g	7.51g	99.7		Air Dried & Shatterboxed
5	K0606717-036	COMP-4	SOIL	1.22g	7.33g	7.27g	99.0		Air Dried & Shatterboxed
6	K0606757-001	TDF 9A Boiler 6/30	SOLID FUEL	10.36g	61.99g	60.67g	97.4		
7	K0606757-002	TDF 10A Boiler 6/30	SOLID FUEL	10.39g	65.45g	64.51g	98.3		
8	K0606757-003	RDF 10A Boiler 6/30	SOLID FUEL	10.61g	58.27g	55.24g	93.6		
9	K0606757-004	Biomass 9A Boiler	SOLID FUEL	10.40g	66.83g	44.51g	60.4		
10	K0606757-005	Biomass 10A Boiler	SOLID FUEL	10.18g	69.53g	48.65g	64.8		
11	K0606757-006	TDF 9A Boiler 8/4	SOLID FUEL	10.45g	63.45g	61.51g	96.3		
12	K0606757-007	RDF 10A Boiler 8/10	SOLID FUEL	10.11g	57.28g	55.19g	95.6		
13	KWG0613078-1	Duplicate Client Sample	SOIL	1.21g	3.92g	3.90g	99.3	K0606703-036	Air Dried & Shatterboxed
14	KWG0613078-2	Duplicate Client Sample	SOLID FUEL	10.16g	61.13g	59.83g	97.4	K0606757-001	

Metals

METALS

- Cover Page -
INORGANIC ANALYSIS DATA PACKAGE

Client: Geomatrix Consultants, Incorporated Service Request: K0606709

Project No.: 8769.006

Project Name: Former RP site

Sample No.	Lab Sample ID.
MAINT-4-1A	K0606709-001
MAINT-4-2A	K0606709-002
MAINT-4-2AD	K0606709-002D
MAINT-4-2AS	K0606709-002S
MAINT-4-3A	K0606709-003
MAINT-4-4A	K0606709-004
MAINT-4-5A	K0606709-005
MAINT-4-6A	K0606709-006
MAINT-4-7A	K0606709-007
MAINT-4-8A	K0606709-008
MAINT-4-9A	K0606709-009
MAINT-4-10A	K0606709-010
MAINT-4-11A	K0606709-011
MAINT-4-12A	K0606709-012
MAINT-4-13A	K0606709-013
MAINT-4-14A	K0606709-014
MAINT-4-15A	K0606709-015
MAINT-4-16A	K0606709-016
MAINT-4-17A	K0606709-017
MAINT-4-18A	K0606709-018
MAINT-4-19A	K0606709-019
MAINT-4-20A	K0606709-020
MAINT-4-21A	K0606709-021

Were ICP interelement corrections applied? Yes/No YES

Were ICP background corrections applied? Yes/No YES

If yes-were raw data generated before application of background corrections? Yes/No NO

Comments:

Signature: [signature] Date: 8/17/06

METALS

- Cover Page -
INORGANIC ANALYSIS DATA PACKAGE

Client: Geomatrix Consultants, Incorporated Service Request: K0606709

Project No.: 8769.006

Project Name: Former RP site

Sample No.	Lab Sample ID.
MAINT-4-21AD	K0606709-021D
MAINT-4-21AS	K0606709-021S
MAINT-4-22A	K0606709-022
MAINT-4-23A	K0606709-023
MAINT-4-24A	K0606709-024
MAINT-4-25A	K0606709-025
MAINT-4-26A	K0606709-026
MAINT-4-27A	K0606709-027
MAINT-4-28A	K0606709-028
MAINT-4-29A	K0606709-029
MAINT-4-30A	K0606709-030
MAINT-4-31A	K0606709-031
MAINT-4-32A	K0606709-032
MAINT-4-33A	K0606709-033
MAINT-4-34A	K0606709-034
MAINT-4-35A	K0606709-035
MAINT-4	K0606709-036
MAINT-4-DUP	K0606709-037
Method Blank	K0606709-MB
Method Blank 2	K0606709-MB2
Method Blank 3	K0606709-MB3
Batch QCD	K0606717-036D
Batch QCS	K0606717-036S

Were ICP interelement corrections applied? Yes/No YES

Were ICP background corrections applied? Yes/No YES

If yes-were raw data generated before application of background corrections? Yes/No NO

Comments:

Signature: [illegible] Date: 8/17/06

METALS

-1-

INORGANIC ANALYSIS DATA SHEET

Client:	Geomatrix Consultants, Incorporated	Service Request:	K0606709
Project No.:	8769.006	Date Collected:	08/09/06
Project Name:	Former RP site	Date Received:	08/10/06
Matrix:	SOIL	Units:	MG/KG
		Basis:	Dry

Sample Name: MAINT-4-1A Lab Code: K0606709-001

Analyte	Analysis Method	MRL	MDL	Dil.	Date Extracted	Date Analyzed	Result	C	Q
Copper	6020	0.39	0.24	20	8/16/06	8/17/06	46.9		*

% Solids: 99.2

Comments:

METALS

-1-

INORGANIC ANALYSIS DATA SHEET

Client:	Geomatrix Consultants, Incorporated	Service Request:	K0606709
Project No.:	8769.006	Date Collected:	08/09/06
Project Name:	Former RP site	Date Received:	08/10/06
Matrix:	SOIL	Units:	MG/KG
		Basis:	Dry

Sample Name: MAINT-4-2A Lab Code: K0606709-002

Analyte	Analysis Method	MRL	MDL	Dil.	Date Extracted	Date Analyzed	Result	C	Q
Copper	6020	0.41	0.25	20	8/16/06	8/17/06	61.5		*

J

% Solids: 97.9

Comments:

TG
9/5/06

METALS

-1-

INORGANIC ANALYSIS DATA SHEET

Client:	Geomatrix Consultants, Incorporated	Service Request:	K0606709
Project No.:	8769.006	Date Collected:	08/09/06
Project Name:	Former RP site	Date Received:	08/10/06
Matrix:	SOIL	Units:	MG/KG
		Basis:	Dry

Sample Name: MAINT-4-3A Lab Code: K0606709-003

Analyte	Analysis Method	MRL	MDL	Dil.	Date Extracted	Date Analyzed	Result	C	Q
Copper	6020	0.43	0.26	20	8/16/06	8/17/06	42.4		*

% Solids: 93.2

Comments:

METALS

-1-

INORGANIC ANALYSIS DATA SHEET

Client:	Geomatrix Consultants, Incorporated	Service Request:	K0606709
Project No.:	8769.006	Date Collected:	08/09/06
Project Name:	Former RP site	Date Received:	08/10/06
Matrix:	SOIL	Units:	MG/KG
		Basis:	Dry

Sample Name: MAINT-4-4A Lab Code: K0606709-004

Analyte	Analysis Method	MRL	MDL	Dil.	Date Extracted	Date Analyzed	Result	C	Q
Copper	6020	0.42	0.25	20	8/16/06	8/17/06	26.8		*

% Solids: 96.3

Comments:

METALS
-1-
INORGANIC ANALYSIS DATA SHEET

Client:	Geomatrix Consultants, Incorporated	Service Request:	K0606709
Project No.:	8769.006	Date Collected:	08/09/06
Project Name:	Former RP site	Date Received:	08/10/06
Matrix:	SOIL	Units:	MG/KG
		Basis:	Dry

Sample Name: MAINT-4-5A Lab Code: K0606709-005

Analyte	Analysis Method	MRL	MDL	Dil.	Date Extracted	Date Analyzed	Result	C	Q
Copper	6020	0.41	0.25	20	8/16/06	8/17/06	69.2		*

% Solids: 93.7

Comments:

METALS

-1-

INORGANIC ANALYSIS DATA SHEET

Client:	Geomatrix Consultants, Incorporated	Service Request:	K0606709
Project No.:	8769.006	Date Collected:	08/09/06
Project Name:	Former RP site	Date Received:	08/10/06
Matrix:	SOIL	Units:	MG/KG
		Basis:	Dry

Sample Name: MAINT-4-6A Lab Code: K0606709-006

Analyte	Analysis Method	MRL	MDL	Dil.	Date Extracted	Date Analyzed	Result	C	Q
Copper	6020	0.40	0.24	20	8/16/06	8/17/06	10.3		*

% Solids: 98.3

Comments:

METALS
-1-
INORGANIC ANALYSIS DATA SHEET

Client: Geomatrix Consultants, Incorporated
Project No.: 8769.006
Project Name: Former RP site
Matrix: SOIL

Service Request: K0606709
Date Collected: 08/09/06
Date Received: 08/10/06
Units: MG/KG
Basis: Dry

Sample Name: MAINT-4-7A
Lab Code: K0606709-007

Analyte	Analysis Method	MRL	MDL	Dil.	Date Extracted	Date Analyzed	Result	C	Q
Copper	6020	0.41	0.25	20	8/16/06	8/17/06	17.7		*

% Solids: 95.8

Comments:

METALS
-1-
INORGANIC ANALYSIS DATA SHEET

Client:	Geomatrix Consultants, Incorporated	Service Request:	K0606709
Project No.:	8769.006	Date Collected:	08/09/06
Project Name:	Former RP site	Date Received:	08/10/06
Matrix:	SOIL	Units:	MG/KG
		Basis:	Dry

Sample Name: MAINT-4-8A Lab Code: K0606709-008

Analyte	Analysis Method	MRL	MDL	Dil.	Date Extracted	Date Analyzed	Result	C	Q
Copper	6020	0.45	0.27	20	8/16/06	8/17/06	21.0		*

% Solids: 88.1

Comments:

METALS
-1-
INORGANIC ANALYSIS DATA SHEET

Client: Geomatrix Consultants, Incorporated
Project No.: 8769.006
Project Name: Former RP site
Matrix: SOIL

Service Request: K0606709
Date Collected: 08/09/06
Date Received: 08/10/06
Units: MG/KG
Basis: Dry

Sample Name: MAINT-4-9A
Lab Code: K0606709-009

Analyte	Analysis Method	MRL	MDL	Dil.	Date Extracted	Date Analyzed	Result	C	Q
Copper	6020	0.41	0.25	20	8/16/06	8/17/06	95.6		*

% Solids: 96.4

Comments:

METALS
-1-
INORGANIC ANALYSIS DATA SHEET

Client:	Geomatrix Consultants, Incorporated	Service Request:	K0606709
Project No.:	8769.006	Date Collected:	08/09/06
Project Name:	Former RP site	Date Received:	08/10/06
Matrix:	SOIL	Units:	MG/KG
		Basis:	Dry

Sample Name: MAINT-4-10A Lab Code: K0606709-010

Analyte	Analysis Method	MRL	MDL	Dil.	Date Extracted	Date Analyzed	Result	C	Q
Copper	6020	0.42	0.25	20	8/16/06	8/17/06	15.1		*

% Solids: 93.5

Comments:

METALS
-1-
INORGANIC ANALYSIS DATA SHEET

Client:	Geomatrix Consultants, Incorporated	Service Request:	K0606709
Project No.:	8769.006	Date Collected:	08/09/06
Project Name:	Former RP site	Date Received:	08/10/06
Matrix:	SOIL	Units:	MG/KG
		Basis:	Dry

Sample Name: MAINT-4-11A Lab Code: K0606709-011

Analyte	Analysis Method	MRL	MDL	Dil.	Date Extracted	Date Analyzed	Result	C	Q
Copper	6020	0.49	0.29	20	8/16/06	8/17/06	27.2		*

% Solids: 80.7

Comments:

METALS

-1-

INORGANIC ANALYSIS DATA SHEET

Client:	Geomatrix Consultants, Incorporated	Service Request:	K0606709
Project No.:	8769.006	Date Collected:	08/09/06
Project Name:	Former RP site	Date Received:	08/10/06
Matrix:	SOIL	Units:	MG/KG
		Basis:	Dry

Sample Name: MAINT-4-12A Lab Code: K0606709-012

Analyte	Analysis Method	MRL	MDL	Dil.	Date Extracted	Date Analyzed	Result	C	Q
Copper	6020	0.41	0.25	20	8/16/06	8/17/06	244		*

% Solids: 95.9

Comments:

METALS

-1-

INORGANIC ANALYSIS DATA SHEET

Client:	Geomatrix Consultants, Incorporated	Service Request:	K0606709
Project No.:	8769.006	Date Collected:	08/09/06
Project Name:	Former RP site	Date Received:	08/10/06
Matrix:	SOIL	Units:	MG/KG
		Basis:	Dry

Sample Name: MAINT-4-13A Lab Code: K0606709-013

Analyte	Analysis Method	MRL	MDL	Dil.	Date Extracted	Date Analyzed	Result	C	Q
Copper	6020	0.40	0.24	20	8/16/06	8/17/06	168		*

% Solids: 96.7

Comments:

METALS

-1-

INORGANIC ANALYSIS DATA SHEET

Client:	Geomatrix Consultants, Incorporated	Service Request:	K0606709
Project No.:	8769.006	Date Collected:	08/09/06
Project Name:	Former RP site	Date Received:	08/10/06
Matrix:	SOIL	Units:	MG/KG
		Basis:	Dry

Sample Name: MAINT-4-14A Lab Code: K0606709-014

Analyte	Analysis Method	MRL	MDL	Dil.	Date Extracted	Date Analyzed	Result	C	Q
Copper	6020	0.41	0.24	20	8/16/06	8/17/06	202		*

% Solids: 97.2

Comments:

METALS

-1-

INORGANIC ANALYSIS DATA SHEET

Client:	Geomatrix Consultants, Incorporated	Service Request:	K0606709
Project No.:	8769.006	Date Collected:	08/09/06
Project Name:	Former RP site	Date Received:	08/10/06
Matrix:	SOIL	Units:	MG/KG
		Basis:	Dry

Sample Name: MAINT-4-15A Lab Code: K0606709-015

Analyte	Analysis Method	MRL	MDL	Dil.	Date Extracted	Date Analyzed	Result	C	Q
Copper	6020	0.40	0.24	20	8/16/06	8/17/06	31.0		*

% Solids: 97.5

Comments:

METALS

-1-

INORGANIC ANALYSIS DATA SHEET

Client:	Geomatrix Consultants, Incorporated	Service Request:	K0606709
Project No.:	8769.006	Date Collected:	08/09/06
Project Name:	Former RP site	Date Received:	08/10/06
Matrix:	SOIL	Units:	MG/KG
		Basis:	Dry

Sample Name: MAINT-4-16A Lab Code: K0606709-016

Analyte	Analysis Method	MRL	MDL	Dil.	Date Extracted	Date Analyzed	Result	C	Q
Copper	6020	0.42	0.25	20	8/16/06	8/17/06	62.6		*

% Solids: 92.8

Comments:

METALS
-1-
INORGANIC ANALYSIS DATA SHEET

Client:	Geomatrix Consultants, Incorporated	Service Request:	K0606709
Project No.:	8769.006	Date Collected:	08/09/06
Project Name:	Former RP site	Date Received:	08/10/06
Matrix:	SOIL	Units:	MG/KG
		Basis:	Dry

Sample Name: MAINT-4-17A Lab Code: K0606709-017

Analyte	Analysis Method	MRL	MDL	Dil.	Date Extracted	Date Analyzed	Result	C	Q
Copper	6020	0.42	0.25	20	8/16/06	8/17/06	81.5		*

% Solids: 94.1

Comments:

METALS

-1-

INORGANIC ANALYSIS DATA SHEET

Client:	Geomatrix Consultants, Incorporated	Service Request:	K0606709
Project No.:	8769.006	Date Collected:	08/09/06
Project Name:	Former RP site	Date Received:	08/10/06
Matrix:	SOIL	Units:	MG/KG
		Basis:	Dry

Sample Name: MAINT-4-18A Lab Code: K0606709-018

Analyte	Analysis Method	MRL	MDL	Dil.	Date Extracted	Date Analyzed	Result	C	Q
Copper	6020	0.43	0.26	20	8/16/06	8/17/06	11.2		*

% Solids: 92.3

Comments:

METALS
-1-
INORGANIC ANALYSIS DATA SHEET

Client:	Geomatrix Consultants, Incorporated	Service Request:	K0606709
Project No.:	8769.006	Date Collected:	08/09/06
Project Name:	Former RP site	Date Received:	08/10/06
Matrix:	SOIL	Units:	MG/KG
		Basis:	Dry

Sample Name: MAINT-4-19A Lab Code: K0606709-019

Analyte	Analysis Method	MRL	MDL	Dil.	Date Extracted	Date Analyzed	Result	C	Q
Copper	6020	0.42	0.25	20	8/16/06	8/17/06	55.0		*

% Solids: 92.6

Comments:

METALS

-1-

INORGANIC ANALYSIS DATA SHEET

Client:	Geomatrix Consultants, Incorporated	Service Request:	K0606709
Project No.:	8769.006	Date Collected:	08/09/06
Project Name:	Former RP site	Date Received:	08/10/06
Matrix:	SOIL	Units:	MG/KG
		Basis:	Dry

Sample Name: MAINT-4-20A Lab Code: K0606709-020

Analyte	Analysis Method	MRL	MDL	Dil.	Date Extracted	Date Analyzed	Result	C	Q
Copper	6020	0.42	0.26	20	8/16/06	8/17/06	86.6		*

% Solids: 94.3

Comments:

METALS
-1-
INORGANIC ANALYSIS DATA SHEET

Client: Geomatrix Consultants, Incorporated
Project No.: 8769.006
Project Name: Former RP site
Matrix: SOIL

Service Request: K0606709
Date Collected: 08/09/06
Date Received: 08/10/06
Units: MG/KG
Basis: Dry

Sample Name: MAINT-4-21A
Lab Code: K0606709-021

Analyte	Analysis Method	MRL	MDL	Dil.	Date Extracted	Date Analyzed	Result	C	Q
Copper	6020	0.43	0.26	20	8/16/06	8/17/06	60.1		

% Solids: 92.1

Comments:

METALS
-1-
INORGANIC ANALYSIS DATA SHEET

Client: Geomatrix Consultants, Incorporated
Project No.: 8769.006
Project Name: Former RP site
Matrix: SOIL

Service Request: K0606709
Date Collected: 08/09/06
Date Received: 08/10/06
Units: MG/KG
Basis: Dry

Sample Name: MAINT-4-22A
Lab Code: K0606709-022

Analyte	Analysis Method	MRL	MDL	Dil.	Date Extracted	Date Analyzed	Result	C	Q
Copper	6020	0.43	0.26	20	8/16/06	8/17/06	96.0		

% Solids: 91.2

Comments:

METALS

-1-

INORGANIC ANALYSIS DATA SHEET

Client: Geomatrix Consultants, Incorporated
Project No.: 8769.006
Project Name: Former RP site
Matrix: SOIL

Service Request: K0606709
Date Collected: 08/09/06
Date Received: 08/10/06
Units: MG/KG
Basis: Dry

Sample Name: MAINT-4-23A
Lab Code: K0606709-023

Analyte	Analysis Method	MRL	MDL	Dil.	Date Extracted	Date Analyzed	Result	C	Q
Copper	6020	0.48	0.29	20	8/16/06	8/17/06	31.9		

% Solids: 83.2

Comments:

METALS
-1-
INORGANIC ANALYSIS DATA SHEET

Client: Geomatrix Consultants, Incorporated
Project No.: 8769.006
Project Name: Former RP site
Matrix: SOIL

Service Request: K0606709
Date Collected: 08/09/06
Date Received: 08/10/06
Units: MG/KG
Basis: Dry

Sample Name: MAINT-4-24A
Lab Code: K0606709-024

Analyte	Analysis Method	MRL	MDL	Dil.	Date Extracted	Date Analyzed	Result	C	Q
Copper	6020	0.42	0.25	20	8/16/06	8/17/06	22.0		

% Solids: 95.7

Comments:

METALS
-1-
INORGANIC ANALYSIS DATA SHEET

Client: Geomatrix Consultants, Incorporated
Project No.: 8769.006
Project Name: Former RP site
Matrix: SOIL

Service Request: K0606709
Date Collected: 08/09/06
Date Received: 08/10/06
Units: MG/KG
Basis: Dry

Sample Name: MAINT-4-25A
Lab Code: K0606709-025

Analyte	Analysis Method	MRL	MDL	Dil.	Date Extracted	Date Analyzed	Result	C	Q
Copper	6020	0.42	0.26	20	8/16/06	8/17/06	120		

% Solids: 93.3

Comments:

METALS
-1-
INORGANIC ANALYSIS DATA SHEET

Client:	Geomatrix Consultants, Incorporated	Service Request:	K0606709
Project No.:	8769.006	Date Collected:	08/09/06
Project Name:	Former RP site	Date Received:	08/10/06
Matrix:	SOIL	Units:	MG/KG
		Basis:	Dry

Sample Name: MAINT-4-26A Lab Code: K0606709-026

Analyte	Analysis Method	MRL	MDL	Dil.	Date Extracted	Date Analyzed	Result	C	Q
Copper	6020	0.45	0.27	20	8/16/06	8/17/06	29.3		

% Solids: 87.7

Comments:

METALS

-1-

INORGANIC ANALYSIS DATA SHEET

Client: Geomatrix Consultants, Incorporated
Project No.: 8769.006
Project Name: Former RP site
Matrix: SOIL

Service Request: K0606709
Date Collected: 08/09/06
Date Received: 08/10/06
Units: MG/KG
Basis: Dry

Sample Name: MAINT-4-27A
Lab Code: K0606709-027

Analyte	Analysis Method	MRL	MDL	Dil.	Date Extracted	Date Analyzed	Result	C	Q
Copper	6020	0.48	0.29	20	8/16/06	8/17/06	124		

% Solids: 81.2

Comments:

METALS
-1-
INORGANIC ANALYSIS DATA SHEET

Client:	Geomatrix Consultants, Incorporated	Service Request:	K0606709
Project No.:	8769.006	Date Collected:	08/09/06
Project Name:	Former RP site	Date Received:	08/10/06
Matrix:	SOIL	Units:	MG/KG
		Basis:	Dry

Sample Name: MAINT-4-28A Lab Code: K0606709-028

Analyte	Analysis Method	MRL	MDL	Dil.	Date Extracted	Date Analyzed	Result	C	Q
Copper	6020	0.44	0.26	20	8/16/06	8/17/06	32.5		

% Solids: 90.8

Comments:

METALS

-1-

INORGANIC ANALYSIS DATA SHEET

Client:	Geomatrix Consultants, Incorporated	Service Request:	K0606709
Project No.:	8769.006	Date Collected:	08/09/06
Project Name:	Former RP site	Date Received:	08/10/06
Matrix:	SOIL	Units:	MG/KG
		Basis:	Dry

Sample Name: MAINT-4-29A Lab Code: K0606709-029

Analyte	Analysis Method	MRL	MDL	Dil.	Date Extracted	Date Analyzed	Result	C	Q
Copper	6020	0.48	0.29	20	8/16/06	8/17/06	20.7		

% Solids: 82.8

Comments:

METALS

-1-

INORGANIC ANALYSIS DATA SHEET

Client:	Geomatrix Consultants, Incorporated	Service Request:	K0606709
Project No.:	8769.006	Date Collected:	08/09/06
Project Name:	Former RP site	Date Received:	08/10/06
Matrix:	SOIL	Units:	MG/KG
		Basis:	Dry

Sample Name: MAINT-4-30A Lab Code: K0606709-030

Analyte	Analysis Method	MRL	MDL	Dil.	Date Extracted	Date Analyzed	Result	C	Q
Copper	6020	0.40	0.24	20	8/16/06	8/17/06	19.4		

% Solids: 97.3

Comments:

METALS
-1-
INORGANIC ANALYSIS DATA SHEET

Client: Geomatrix Consultants, Incorporated
Project No.: 8769.006
Project Name: Former RP site
Matrix: SOIL

Service Request: K0606709
Date Collected: 08/09/06
Date Received: 08/10/06
Units: MG/KG
Basis: Dry

Sample Name: MAINT-4-31A
Lab Code: K0606709-031

Analyte	Analysis Method	MRL	MDL	Dil.	Date Extracted	Date Analyzed	Result	C	Q
Copper	6020	0.43	0.26	20	8/16/06	8/17/06	65.1		

% Solids: 92.4

Comments:

METALS
-1-
INORGANIC ANALYSIS DATA SHEET

Client:	Geomatrix Consultants, Incorporated	Service Request:	K0606709
Project No.:	8769.006	Date Collected:	08/09/06
Project Name:	Former RP site	Date Received:	08/10/06
Matrix:	SOIL	Units:	MG/KG
		Basis:	Dry

Sample Name: MAINT-4-32A Lab Code: K0606709-032

Analyte	Analysis Method	MRL	MDL	Dil.	Date Extracted	Date Analyzed	Result	C	Q
Copper	6020	0.47	0.28	20	8/16/06	8/17/06	18.4		

% Solids: 84.7

Comments:

METALS
-1-
INORGANIC ANALYSIS DATA SHEET

Client:	Geomatrix Consultants, Incorporated	Service Request:	K0606709
Project No.:	8769.006	Date Collected:	08/09/06
Project Name:	Former RP site	Date Received:	08/10/06
Matrix:	SOIL	Units:	MG/KG
		Basis:	Dry

Sample Name: MAINT-4-33A Lab Code: K0606709-033

Analyte	Analysis Method	MRL	MDL	Dil.	Date Extracted	Date Analyzed	Result	C	Q
Copper	6020	0.44	0.26	20	8/16/06	8/17/06	44.0		

% Solids: 91.2

Comments:

METALS
-1-
INORGANIC ANALYSIS DATA SHEET

Client:	Geomatrix Consultants, Incorporated	Service Request:	K0606709
Project No.:	8769.006	Date Collected:	08/09/06
Project Name:	Former RP site	Date Received:	08/10/06
Matrix:	SOIL	Units:	MG/KG
		Basis:	Dry

Sample Name: MAINT-4-34A Lab Code: K0606709-034

Analyte	Analysis Method	MRL	MDL	Dil.	Date Extracted	Date Analyzed	Result	C	Q
Copper	6020	0.42	0.25	20	8/16/06	8/17/06	7.94		

% Solids: 94.5

Comments:

METALS

-1-

INORGANIC ANALYSIS DATA SHEET

Client:	Geomatrix Consultants, Incorporated	Service Request:	K0606709
Project No.:	8769.006	Date Collected:	08/09/06
Project Name:	Former RP site	Date Received:	08/10/06
Matrix:	SOIL	Units:	MG/KG
		Basis:	Dry

Sample Name: MAINT-4-35A Lab Code: K0606709-035

Analyte	Analysis Method	MRL	MDL	Dil.	Date Extracted	Date Analyzed	Result	C	Q
Copper	6020	0.42	0.25	20	8/16/06	8/17/06	299		

% Solids: 93.4

Comments:

METALS

-1-

INORGANIC ANALYSIS DATA SHEET

Client: Geomatrix Consultants, Incorporated
Project No.: 8769.006
Project Name: Former RP site
Matrix: SOIL

Service Request: K0606709
Date Collected: 08/09/06
Date Received: 08/10/06
Units: MG/KG
Basis: Dry

Sample Name: MAINT-4
Lab Code: K0606709-036

Analyte	Analysis Method	MRL	MDL	Dil.	Date Extracted	Date Analyzed	Result	C	Q
Copper	6020	0.40	0.24	20	8/14/06	8/15/06	74.6		

% Solids: 99.1

Comments:

METALS
-1-
INORGANIC ANALYSIS DATA SHEET

Client:	Geomatrix Consultants, Incorporated	Service Request:	K0606709
Project No.:	8769.006	Date Collected:	08/09/06
Project Name:	Former RP site	Date Received:	08/10/06
Matrix:	SOIL	Units:	MG/KG
		Basis:	Dry

Sample Name: MAINT-4-DUP Lab Code: K0606709-037

Analyte	Analysis Method	MRL	MDL	Dil.	Date Extracted	Date Analyzed	Result	C	Q
Copper	6020	0.40	0.24	20	8/14/06	8/15/06	76.6		

% Solids: 99.1

Comments:

METALS
-1-
INORGANIC ANALYSIS DATA SHEET

Client: Geomatrix Consultants, Incorporated
Service Request: K0606709
Project No.: 8769.006
Date Collected:
Project Name: Former RP site
Date Received:
Matrix: SOIL
Units: MG/KG
Basis: Dry

Sample Name: Method Blank
Lab Code: K0606709-MB

Analyte	Analysis Method	MRL	MDL	Dil.	Date Extracted	Date Analyzed	Result	C	Q
Copper	6020	0.40	0.24	20	8/14/06	8/15/06	0.24	U	

% Solids: 100.0

Comments:

METALS

-1-

INORGANIC ANALYSIS DATA SHEET

Client: Geomatrix Consultants, Incorporated
Service Request: K0606709
Project No.: 8769.006
Date Collected:
Project Name: Former RP site
Date Received:
Matrix: SOIL
Units: MG/KG
Basis: Dry

Sample Name: Method Blank 2
Lab Code: K0606709-MB2

Analyte	Analysis Method	MRL	MDL	Dil.	Date Extracted	Date Analyzed	Result	C	Q
Copper	6020	0.40	0.24	20	8/16/06	8/17/06	0.24	U	*

% Solids: 100.0

Comments:

METALS

-1-

INORGANIC ANALYSIS DATA SHEET

Client: Geomatrix Consultants, Incorporated
Service Request: K0606709
Project No.: 8769.006
Date Collected:
Project Name: Former RP site
Date Received:
Matrix: SOIL
Units: MG/KG
Basis: Dry

Sample Name: Method Blank 3
Lab Code: K0606709-MB3

Analyte	Analysis Method	MRL	MDL	Dil.	Date Extracted	Date Analyzed	Result	C	Q
Copper	6020	0.40	0.24	20	8/16/06	8/17/06	0.24	U	

% Solids: 100.0

Comments:

METALS
-2a-
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Geomatrix Consultants, Incorporated Service Request: K0606709

Project No.: 8769.006

Project Name: Former RP site

ICV Source: Inorganic Ventures CCV Source: Various

Concentration Units: ug/I

Analyte	Initial Calibration			Continuing Calibration					Method
	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Copper	12.5	13.5	108	25.0	25.2	101	24.6	98	6020

METALS
-2a-
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Geomatrix Consultants, Incorporated Service Request: K0606709

Project No.: 8769.006

Project Name: Former RP site

ICV Source: CCV Source: Various

Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration					Method
	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Copper				25.0	24.8	99			6020

METALS
- 2a -
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Geomatrix Consultants, Incorporated Service Request: K0606709

Project No.: 8769.006

Project Name: Former RP site

ICV Source: Inorganic Ventures CCV Source: Various

Concentration Units: ug/l

Analyte	Initial Calibration			Continuing Calibration					Method
	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Copper	12.5	13.0	104	25.0	24.8	99	24.6	98	6020

METALS
-2a-
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Geomatrix Consultants, Incorporated Service Request: K0606709

Project No.: 8769.006

Project Name: Former RP site

ICV Source: CCV Source: Various

Concentration Units: ug/l

Analyte	Initial Calibration True	Initial Calibration Found	Initial Calibration %R(1)	Continuing Calibration True	Continuing Calibration Found	Continuing Calibration %R(1)	Continuing Calibration Found	Continuing Calibration %R(1)	Method
Copper				25.0	24.3	97	24.6	98	6020

METALS
- 2a -
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Geomatrix Consultants, Incorporated Service Request: K0606709

Project No.: 8769.006

Project Name: Former RP site

ICV Source: CCV Source: Various

Concentration Units: ug/I

Analyte	Initial Calibration			Continuing Calibration					Method
	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Copper				25.0	24.7	99	25.2	101	6020

METALS
- 2b -
CRDL STANDARD FOR AA AND ICP

Client: Geomatrix Consultants, Incorporated

Service Request: K0606709

Project No.: 8769.006

Project Name: Former RP site

Concentration Units: ug/l

Analyte	CRDL Standard for AA			CRDL Standard for ICP				
				Initial			Final	
	True	Found	%R	True	Found	%R	Found	%R
Copper				0.20	0.34	170		

METALS
- 2b -
CRDL STANDARD FOR AA AND ICP

Client: Geomatrix Consultants, Incorporated Service Request: K0606709

Project No.: 8769.006

Project Name: Former RP site

Concentration Units: ug/l

Analyte	CRDL Standard for AA			CRDL Standard for ICP				
				Initial			Final	
	True	Found	%R	True	Found	%R	Found	%R
Copper				0.20	0.44	221		

METALS
-3-
BLANKS

Client: Geomatrix Consultants, Incorporated Service Request: K0606709

Project No.: 8769.006

Project Name: Former RP site

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C		Preparation Blank C			Method
Copper	0.12	U	0.12	U	0.12	U	0.12	U					6020

METALS
-3-
BLANKS

Client: Geomatrix Consultants, Incorporated Service Request: K0606709

Project No.: 8769.006

Project Name: Former RP site

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C		Preparation Blank	C			Method
Copper	0.12	U	0.12	U	0.12	U	0.12	U						6020

METALS
-3-
BLANKS

Client: Geomatrix Consultants, Incorporated Service Request: K0606709

Project No.: 8769.006

Project Name: Former RP site

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C		Preparation Blank C			Method
Copper			0.12	U	0.12	U	0.12	U					6020

METALS
-4-
ICP INTERFERENCE CHECK SAMPLE

Client: Geomatrix Consultants, Incorporated

Service Request:K0606709

Project No.: 8769.006

Project Name: Former RP site

ICP ID Number: X Series

ICS Source: Inorganic Ventures

Concentration Units): ug/L

Analyte	True		Initial Found			Final Found		
	Sol.A	Sol.AB	Sol.A	Sol.AB	%R	Sol.A	Sol.AB	%R
Copper		20	0.32	22.9	115			

METALS
-4-
ICP INTERFERENCE CHECK SAMPLE

Client: Geomatrix Consultants, Incorporated

Service Request:K0606709

Project No.: 8769.006

Project Name: Former RP site

ICP ID Number: X Series

ICS Source: Inorganic Ventures

Concentration Units): ug/L

Analyte	True		Initial Found			Final Found		
	Sol.A	Sol.AB	Sol.A	Sol.AB	%R	Sol.A	Sol.AB	%R
Copper		20	0.17	22.0	110			

METALS
-5a-
SPIKE SAMPLE RECOVERY

Client: Geomatrix Consultants, Incorporated
Service Request: K0606709
Project No.: 8769.006
Units: mg/kg
Project Name: Former RP site
Basis: Dry
Matrix: SOIL
% Solids: 99.0

Sample Name: Batch QCS
Lab Code: K0606717-036S

Analyte	Control Limit %R	Spike Result	C	Sample Result	C	Spike Added	%R	Q	Method
Copper	52 - 153	122		54.9		50.0	134		6020

An empty field in the Control Limit column indicates the control limit is not applicable.

METALS
-5a-
SPIKE SAMPLE RECOVERY

Client: Geomatrix Consultants, Incorporated
Service Request: K0606709
Project No.: 8769.006
Units: mg/kg
Project Name: Former RP site
Basis: Dry
Matrix: SOIL
% Solids: 92.1

Sample Name: MAINT-4-21AS
Lab Code: K0606709-021S

Analyte	Control Limit %R	Spike Result	C	Sample Result	C	Spike Added	%R	Q	Method
Copper	52 - 153	115		60.1		53.2	103		6020

An empty field in the Control Limit column indicates the control limit is not applicable.

METALS
-5a-
SPIKE SAMPLE RECOVERY

Client: Geomatrix Consultants, Incorporated
Service Request: K0606709
Project No.: 8769.006
Units: mg/kg
Project Name: Former RP site
Basis: Dry
Matrix: SOIL
% Solids: 97.9

Sample Name: MAINT-4-2AS
Lab Code: K0606709-002S

Analyte	Control Limit %R	Spike Result	C	Sample Result	C	Spike Added	%R	Q	Method
Copper	52 - 153	127		61.5		51.1	128		6020

An empty field in the Control Limit column indicates the control limit is not applicable.

METALS
- 5b -
POST DIGEST SPIKE SAMPLE RECOVERY

Client: Geomatrix Consultants, Incorporated
Service Request: K0606709
Project No.: 8769.006
Units: ug/L
Project Name: Former RP site
Matrix: SOIL

Sample Name: Batch QCA
Lab Code: K0606717-036A

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Copper	75-125	48.0		27.5		20.0	103		MS

Comments:

METALS
- 5b -
POST DIGEST SPIKE SAMPLE RECOVERY

Client: Geomatrix Consultants, Incorporated
Service Request: K0606709
Project No.: 8769.006
Units: ug/L
Project Name: Former RP site
Matrix: SOIL

Sample Name: MAINT-4-21AA
Lab Code: K0606709-021A

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Copper	75-125	51.9		27.7		20.0	121		MS

Comments:

METALS
-5b-
POST DIGEST SPIKE SAMPLE RECOVERY

Client: Geomatrix Consultants, Incorporated
Service Request: K0606709
Project No.: 8769.006
Units: ug/L
Project Name: Former RP site
Matrix: SOIL

Sample Name: MAINT-4-2AA
Lab Code: K0606709-002A

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Copper	75-125	53.8		30.1		20.0	118		MS

Comments:

METALS
-6-
DUPLICATES

Client: Geomatrix Consultants, Incorporated
Service Request: K0606709
Project No.: 8769.006
Units: mg/kg
Project Name: Former RP site
Basis: Dry
Matrix: SOIL
% Solids: 99.0

Sample Name: Batch QCD
Lab Code: K0606717-036D

Analyte	Control Limit(%)	Sample (S)	C	Duplicate (D)	C	RPD	Q	Method
Copper	30	54.9		53.9		2		6020

An empty field in the Control Limit column indicates the control limit is not applicable.

METALS
-6-
DUPLICATES

Client: Geomatrix Consultants, Incorporated
Service Request: K0606709
Project No.: 8769.006
Units: mg/kg
Project Name: Former RP site
Basis: Dry
Matrix: SOIL
% Solids: 92.1

Sample Name: MAINT-4-21AD
Lab Code: K0606709-021D

Analyte	Control Limit(%)	Sample (S)	C	Duplicate (D)	C	RPD	Q	Method
Copper	30	60.1		73.7		20		6020

An empty field in the Control Limit column indicates the control limit is not applicable.

METALS
-6-
DUPLICATES

Client: Geomatrix Consultants, Incorporated
Service Request: K0606709
Project No.: 8769.006
Units: mg/kg
Project Name: Former RP site
Basis: Dry
Matrix: SOIL
% Solids: 97.9

Sample Name: MAINT-4-2AD
Lab Code: K0606709-002D

Analyte	Control Limit (%)	Sample (S)	C	Duplicate (D)	C	RPD	Q	Method
Copper	30	61.5		407		147	*	6020

An empty field in the Control Limit column indicates the control limit is not applicable.

METALS
-7-
LABORATORY CONTROL SAMPLE

Client: Geomatrix Consultants, Incorporated Service Request: K0606709

Project No.: 8769.006

Project Name: Former RP site

Aqueous LCS Source: Inorganic Ventures Solid LCS Source: ERA Lot #D045540

Analyte	Aqueous mg/L True	Aqueous mg/L Found	Aqueous mg/L %R	Solid (mg/kg) True	Solid (mg/kg) Found	C	Limits	Limits	%R
Copper				67.0	70.0		53.8	80.2	104

METALS
-7-
LABORATORY CONTROL SAMPLE

Client: Geomatrix Consultants, Incorporated Service Request: K0606709

Project No.: 8769.006

Project Name: Former RP site

Aqueous LCS Source: Inorganic Ventures Solid LCS Source: ERA Lot #D045540

Analyte	Aqueous mg/L True	Aqueous mg/L Found	Aqueous mg/L %R	Solid (mg/kg) True	Solid (mg/kg) Found	C	Limits		%R
Copper				67.0	80.1		53.8	80.2	120

METALS
-7-
LABORATORY CONTROL SAMPLE

Client: Geomatrix Consultants, Incorporated Service Request: K0606709

Project No.: 8769.006

Project Name: Former RP site

Aqueous LCS Source: Inorganic Ventures Solid LCS Source: ERA Lot #D045540

Analyte	Aqueous mg/L True	Aqueous mg/L Found	Aqueous mg/L %R	Solid (mg/kg) True	Solid (mg/kg) Found	C	Limits	Limits	%R
Copper				67.0	70.1		53.8	80.2	105

METALS

-9-

ICP SERIAL DILUTIONS

Client: Geomatrix Consultants, Incorporated

Service Request: K0606709

Project No.: 8769.006

Units: ug/L

Project Name: Former RP site

Sample Name: Batch QCL

Lab Code: K0606717-036L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Differ-	Q	Method
Copper	27.5		27.5		0		6020

METALS
-9-
ICP SERIAL DILUTIONS

Client: Geomatrix Consultants, Incorporated
Service Request: K0606709
Project No.: 8769.006
Units: ug/L
Project Name: Former RP site

Sample Name: MAINT-4-21AL
Lab Code: K0606709-021L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Differ-	Q	Method
Copper	27.7		28.4		3		6020

METALS
-9-
ICP SERIAL DILUTIONS

Client: Geomatrix Consultants, Incorporated
Service Request: K0606709
Project No.: 8769.006
Units: ug/L
Project Name: Former RP site

Sample Name: MAINT-4-2AL
Lab Code: K0606709-002L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Differ-	Q	Method
Copper	30.1		31.6		5		6020

METALS
-10-
METHOD DETECTION LIMITS

Client: Geomatrix Consultants, Incorporated Service Request: K0606709

Project No.: 8769.006

Project Name: Former RP site

ICP/ICP-MS ID #: X Series

GFAA ID #: AA ID #:

Analyte	Mass	Back-ground	MRL (ug/L)	MDL (ug/L)	Method
Copper	65		0.20	0.12	6020

Comments

METALS

-12-

ICP LINEAR RANGES (QUARTERLY)

Client: Geomatrix Consultants, Incorporated Service Request: K0606709

Project No.: 8769.006

Project Name: Former RP site

ICP ID Number: X Series

Analyte	Integ. Time (Sec.)	Concentration (ug/L)	Method
Copper	15.00	400.0	6020

Comments:

1317 South 13th Avenue P.O. Box 479 Kelso, Washington 98626 (360) 577-7222 (360) 636-1068 fax

Columbia Analytical Services INC
An Employee - Owned Company

GEOMATRIX Received AUG 2 2 2006 SEATTLE

August 15, 2006 Service Request No: K0606713

John Long
Geomatrix Consultants, Incorporated
One Union Square
600 University Street, Suite 1020
Seattle, WA 98101

RE: Former RP site/8769.006/2

Dear John:

Enclosed are the results of the rush sample(s) submitted to our laboratory on August 10, 2006. For your reference, these analyses have been assigned our service request number K0606713.

All analyses were performed according to our laboratory's quality assurance program. The test results meet requirements of the NELAC standards. Exceptions are noted in the case narrative report where applicable. All results are intended to be considered in their entirety, and Columbia Analytical Services, Inc. (CAS) is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report.

Please call if you have any questions. My extension is 3376. You may also contact me via Email at GSalata@kelso.caslab.com.

Respectfully submitted,

Columbia Analytical Services, Inc.

Gregory Salata, Ph.D.
Project Chemist

GS/jm

NELAP Accredited ACIL Seal of Excellence Award 100% Recycled

Acronyms

ASTM	American Society for Testing and Materials
A2LA	American Association for Laboratory Accreditation
CARB	California Air Resources Board
CAS Number	Chemical Abstract Service registry Number
CFC	Chlorofluorocarbon
CFU	Colony-Forming Unit
DEC	Department of Environmental Conservation
DEQ	Department of Environmental Quality
DHS	Department of Health Services
DOE	Department of Ecology
DOH	Department of Health
EPA	U. S. Environmental Protection Agency
ELAP	Environmental Laboratory Accreditation Program
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
LUFT	Leaking Underground Fuel Tank
M	Modified
MCL	Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA.
MDL	Method Detection Limit
MPN	Most Probable Number
MRL	Method Reporting Limit
NA	Not Applicable
NC	Not Calculated
NCASI	National Council of the Paper Industry for Air and Stream Improvement
ND	Not Detected
NIOSH	National Institute for Occupational Safety and Health
PQL	Practical Quantitation Limit
RCRA	Resource Conservation and Recovery Act
SIM	Selected Ion Monitoring
TPH	Total Petroleum Hydrocarbons
tr	Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL.

Inorganic Data Qualifiers

*	The result is an outlier. See case narrative.
#	The control limit criteria is not applicable. See case narrative.
B	The analyte was found in the associated method blank at a level that is significant relative to the sample result.
E	The result is an estimate amount because the value exceeded the instrument calibration range.
J	The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.
U	The compound was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
i	The MRL/MDL has been elevated due to a matrix interference.
X	See case narrative.

Metals Data Qualifiers

#	The control limit criteria is not applicable. See case narrative.
B	The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.
E	The percent difference for the serial dilution was greater than 10%, indicating a possible matrix interference in the sample.
M	The duplicate injection precision was not met.
N	The Matrix Spike sample recovery is not within control limits. See case narrative.
S	The reported value was determined by the Method of Standard Additions (MSA).
U	The compound was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
W	The post-digestion spike for furnace AA analysis is out of control limits, while sample absorbance is less than 50% of spike absorbance.
i	The MRL/MDL has been elevated due to a matrix interference.
X	See case narrative.
*	The duplicate analysis not within control limits. See case narrative.
+	The correlation coefficient for the MSA is less than 0.995.

Organic Data Qualifiers

*	The result is an outlier. See case narrative.
#	The control limit criteria is not applicable. See case narrative.
A	A tentatively identified compound, a suspected aldol-condensation product.
B	The analyte was found in the associated method blank at a level that is significant relative to the sample result.
C	The analyte was qualitatively confirmed using GC/MS techniques, pattern recognition, or by comparing to historical data.
D	The reported result is from a dilution.
E	The result is an estimate amount because the value exceeded the instrument calibration range.
J	The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.
N	The result is presumptive. The analyte was tentatively identified, but a confirmation analysis was not performed.
P	The GC or HPLC confirmation criteria was exceeded. The relative percent difference is greater than 40% between the two analytical results (25% for CLP Pesticides).
U	The compound was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
i	The MRL/MDL has been elevated due to a chromatographic interference.
X	See case narrative.

Additional Petroleum Hydrocarbon Specific Qualifiers

F	The chromatographic fingerprint of the sample matches the elution pattern of the calibration standard.
L	The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of lighter molecular weight constituents than the calibration standard.
H	The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of heavier molecular weight constituents than the calibration standard.
O	The chromatographic fingerprint of the sample resembles an oil, but does not match the calibration standard.
Y	The chromatographic fingerprint of the sample resembles a petroleum product eluting in approximately the correct carbon range, but the elution pattern does not match the calibration standard.
Z	The chromatographic fingerprint does not resemble a petroleum product.

Case Narrative

COLUMBIA ANALYTICAL SERVICES, INC.

Client:	Geomatrix Consultants, Inc.	**Service Request No.:**	K0606713
Project:	Former RP Site/8769.006	**Date Received:**	08/10/06
Sample Matrix:	Soil		

CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of Columbia Analytical Services, Inc. (CAS). This report contains analytical results for samples designated for Tier III validation deliverables including summary forms and all of the associated raw data for each of the analyses. When appropriate to the method, method blank results have been reported with each analytical test.

Sample Receipt

Thirty-six soil samples were received for analysis at Columbia Analytical Services on 08/10/06. The samples were received in good condition and consistent with the accompanying chain of custody form. The samples were stored in a refrigerator at 4°C upon receipt at the laboratory. As instructed, the composite sample was subjected to grinding per the project QAPP prior to analysis.

Total Metals

No anomalies associated with the analysis of these samples were observed.

Approved by [signature] Date 8/18/06

Chain of Custody Documentation

CHAIN-OF-CUSTODY RECORD K060713 SEA 10091

PROJECT NAME: Former Rhone Poulenc - East Parcel		DATE: 8/10/06	PAGE 1 OF 3
PROJECT NUMBER: 5769.006/2	LABORATORY NAME: Columbia Analytical	CLIENT INFORMATION:	REPORTING REQUIREMENTS:
RESULTS TO: Cam McGaughey	LABORATORY ADDRESS: 1317 S. 13th Ave	Container Properties	
TURNAROUND TIME: 2-day	Kelso, WA 98626		
SAMPLE SHIPMENT METHOD: Courier	LABORATORY CONTACT: Greg Salata		GEOTRACKER REQUIRED YES NO
	LABORATORY PHONE NUMBER: (360) 577-7222		SITE SPECIFIC GLOBAL ID NO.

SAMPLERS (SIGNATURE):

DATE	TIME	SAMPLE NUMBER	ANALYSES: copper	CONTAINER TYPE AND SIZE	Soil (S), Water (W), Vapor (V), or Other (O)	Filtered	Preservative Type	Cooled	MS/MSD	No. of Containers	ADDITIONAL COMMENTS
8/10/06	0758	SULF-4-1A		1x 2oz jar	S					1	
	0759	SULF-4-2A									
	0746	SULF-4-3A									
	0745	SULF-4-4A									
	0755	SULF-4-5A									
	0750	SULF-4-6A									
	0757	SULF-4-7A									
	0747	SULF-4-8A									
	0754	SULF-4-9A									
	0751	SULF-4-10A									
	0748	SULF-4-11A									
	0744	SULF-4-12A									
	0753	SULF-4-13A									
	0750	SULF-4-14A									
	0752	SULF-4-15A									

RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME
SIGNATURE:	8/10/06	0901	SIGNATURE: Stacie Hays	8/10/06	0902
PRINTED NAME: Tanna Sattenwhite			PRINTED NAME: Stacie Hays		
COMPANY: Geomatrix			COMPANY: MC Delivery		
SIGNATURE:			SIGNATURE: J. Jurell	8/10/06	a.m. ~~1000~~ 1400
PRINTED NAME:			PRINTED NAME: Jurell		
COMPANY:			COMPANY: CAS		
SIGNATURE:			SIGNATURE:		
PRINTED NAME:			PRINTED NAME:		
COMPANY:			COMPANY:		

TOTAL NUMBER OF CONTAINERS:

SAMPLING COMMENTS: Please grind sample SULF-4 in accordance w/ QAPP SOP prior to analysis. Hold all "A" sample volume.

One Union Square, 600 University Street, Suite 1020
Seattle, Washington 98101-4107
Tel 206.342.1760 Fax 206.342.1761
Geomatrix

CHAIN-OF-CUSTODY RECORD K0606713 SEA 10090

PROJECT NAME: Former Rhone Poulenc - East Parcel		DATE: 8/10/06	PAGE 2 OF 3
PROJECT NUMBER: 8769.006/2	LABORATORY NAME: Columbia Analytics	CLIENT INFORMATION:	REPORTING REQUIREMENTS:
RESULTS TO: Larry McGaughey	LABORATORY ADDRESS: 1317 S. 13th Ave	Container Properties	
TURNAROUND TIME: 2-day	Kelso, WA 98626		
SAMPLE SHIPMENT METHOD: Courier	LABORATORY CONTACT: Greg Salata		GEOTRACKER REQUIRED YES NO
	LABORATORY PHONE NUMBER: (360) 577 7222		SITE SPECIFIC GLOBAL ID NO.

SAMPLERS (SIGNATURE): [signature]

ANALYSES: Copper

DATE	TIME	SAMPLE NUMBER	Copper	CONTAINER TYPE AND SIZE	Soil (S), Water (W), Vapor (V), or Other (O)	Filtered	Preservative Type	Cooled	MS/MSD	No. of Containers	ADDITIONAL COMMENTS
8/10/06	0749	SULF-4-16A		1x 2oz jar	S					1	
	0742	SULF-4-17A									
	0738	SULF-4-18A									
	0728	SULF-4-19A									
	0740	SULF-4-20A									
	0737	SULF-4-21A									
	0731	SULF-4-22A									
	0727	SULF-4-23A									
	0743	SULF-4-24A									
	0739	SULF-4-25A									
	0736	SULF-4-26A									
	0735	SULF-4-27A									
	0732	SULF-4-28A									
	0725	SULF-4-29A									
	0730	SULF-4-30A									

RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME
SIGNATURE: [signature]	8/10/06	0901	SIGNATURE: Stacie Hays	8/10/06	0902
PRINTED NAME: Laura Sattlemaite			PRINTED NAME: Stacie Hays		
COMPANY: Geomatrix			COMPANY: MC Delivery		
SIGNATURE:			SIGNATURE: A. Jurell	8/10/06	1400
PRINTED NAME:			PRINTED NAME: Jurell		
COMPANY:			COMPANY: CAS		
SIGNATURE:			SIGNATURE:		
PRINTED NAME:			PRINTED NAME:		
COMPANY:			COMPANY:		

TOTAL NUMBER OF CONTAINERS:

SAMPLING COMMENTS: See p.1

One Union Square, 600 University Street, Suite 1020
Seattle, Washington 98101-4107
Tel 206.342.1760 Fax 206.342.1761
Geomatrix

CHAIN-OF-CUSTODY RECORD K0606713 SEA 10089

PROJECT NAME: Former Rhone Poulenc - East Parcel			DATE: 8/10/06 PAGE 3 OF 3
PROJECT NUMBER: 8769.006/2	LABORATORY NAME: CAS	CLIENT INFORMATION:	REPORTING REQUIREMENTS:
RESULTS TO: Cary McGaughey	LABORATORY ADDRESS: 1317 S. 13th Ave. Kelso, WA 98626.	Container Properties	
TURNAROUND TIME: 2-day			
SAMPLE SHIPMENT METHOD: Courier	LABORATORY CONTACT: Greg Salata		GEOTRACKER REQUIRED YES NO
	LABORATORY PHONE NUMBER: (360) 577-7222		SITE SPECIFIC GLOBAL ID NO.

SAMPLERS (SIGNATURE): [signature]

ANALYSES: copper

DATE	TIME	SAMPLE NUMBER	copper	CONTAINER TYPE AND SIZE	Soil (S), Water (W), Vapor (V), or Other (O)	Filtered	Preservative Type	Cooled	MS/MSD	No. of Containers	ADDITIONAL COMMENTS
8/10/06	0734	SULF-4-31A		1x 2oz jar	S					1	
	0733	SULF-4-32A									
	0724	SULF-4-33A									
	0729	SULF-4-34A									
	0723	SULF-4-35A									
	0759	SULF-4	X	1 gallon bucket							

[signature] 8/10/06

RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME
SIGNATURE: [signature]	8/10/06	0901	SIGNATURE: [signature]	8/10/06	0902
PRINTED NAME: Tanna Sattenwhite			PRINTED NAME: Stacia Hayo		
COMPANY: Geomatrix			COMPANY: WC Delivery		
SIGNATURE:			SIGNATURE: [signature]	8/10/06	1400
PRINTED NAME:			PRINTED NAME: Uwell		
COMPANY:			COMPANY: CAS		
SIGNATURE:			SIGNATURE:		
PRINTED NAME:			PRINTED NAME:		
COMPANY:			COMPANY:		

TOTAL NUMBER OF CONTAINERS:

SAMPLING COMMENTS: See p. 1

One Union Square, 600 University Street, Suite 1020
Seattle, Washington 98101-4107
Tel 206.342.1760 Fax 206.342.1761
Geomatrix

8-000

Columbia Analytical Services Inc.
Cooler Receipt and Preservation Form

PC Grey

Project/Client Geomatrix Service Request K06 06713

Cooler received on 8-10-06 and opened on 8-10-06 by BW

1. Were custody seals on outside of coolers? Y (N)
   If yes, how many and where? NP
2. Were custody seals intact? ~~Y~~ N
3. Were signature and date present on the custody seals? mc Delivery ~~Y~~ N
4. Is the shipper's airbill available and filed? If no, record airbill number: ~~Y~~ N
5. COC#

Temperature of cooler(s) upon receipt: (°C)	1.2	1.4		
Temperature Blank: (°C)	NP	NP		

Were samples hand delivered on the same day as collection? ~~Y~~ N

6. Were custody papers properly filled out (ink, signed, etc.)? Y (N)
7. Type of packing material present ICE, box
8. **Did all bottles arrive in good condition (unbroken)?** (Y) N
9. Were all bottle labels complete (i.e analysis, preservation, etc.)? (Y) N
10. Did all bottle labels and tags agree with custody papers? (Y) N
11. **Were the correct types of bottles used for the tests indicated?** (Y) N
12. Were all of the preserved bottles received at the lab with the appropriate pH? ~~Y~~ N
13. Were VOA vials checked for absence of air bubbles, and if present, noted below? ~~Y~~ N
14. Were the 1631 Mercury bottles checked for absence of air bubbles, and if present, noted below? ~~Y~~ N
15. Did the bottles originate from CAS/K or a branch laboratory? (Y) N
16. **Are CWA Microbiology samples received with >1/2 the 24hr. hold time remaining from collection?** ~~Y~~ N
17. Was C12/Res negative? ~~Y~~ N

Explain any discrepancies: No sign off on relinquish

RESOLUTION:

Samples that required preservation or received out of temperature:

Sample ID	Reagent	Volume	Lot Number	Bottle Type	Rec'd out of Temperature	Initials

Total Solids

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Geomatrix Consultants, Incorporated
Project: Former RP site/8769.006/2
Sample Matrix: Soil

Service Request: K0606713

Total Solids

Prep Method: NONE
Analysis Method: 160.3M
Test Notes:

Units: PERCENT
Basis: Wet

Sample Name	Lab Code	Date Collected	Date Received	Date Analyzed	Result	Result Notes
SULF-4	K0606713-036	08/10/2006	08/10/2006	08/11/2006	99.7	

COLUMBIA ANALYTICAL SERVICES, INC.

EPA Method 160.3 - Total Solids

Group ID:	KWG0613078				
Analyst:	RMcKee			**Reviewed By:**	Curtis L Rigg
Date Acquired:	08/11/2006 15:25	**Oven TempStart:**	104 DEG C	**Date Reviewed:**	8/14/06
Date Completed:	08/12/2006 12:03	**Oven TempEnd:**	104 DEG C		

#	Lab Code	Client ID	Matrix	Tare	Tare+Wet	Tare+Dry	% Solids	QC Ref Sample	Comments
1	K0606699-001	Mix-Composite Sample #1	SOLID FUEL	10.30g	64.10g	37.36g	50.3		
2	K0606703-036	LAB-4	SOIL	1.21g	8.75g	8.70g	99.3		Air Dried & Shatterboxed
3	K0606709-036	MAINT-4	SOIL	1.22g	4.60g	4.57g	99.1		Air Dried & Shatterboxed
4	K0606713-036	SULF-4	SOIL	1.20g	7.53g	7.51g	99.7		Air Dried & Shatterboxed
5	K0606717-036	COMP-4	SOIL	1.22g	7.33g	7.27g	99.0		Air Dried & Shatterboxed
6	K0606757-001	TDF 9A Boiler 6/30	SOLID FUEL	10.36g	61.99g	60.67g	97.4		
7	K0606757-002	TDF 10A Boiler 6/30	SOLID FUEL	10.39g	65.45g	64.51g	98.3		
8	K0606757-003	RDF 10A Boiler 6/30	SOLID FUEL	10.61g	58.27g	55.24g	93.6		
9	K0606757-004	Biomass 9A Boiler	SOLID FUEL	10.40g	66.83g	44.51g	60.4		
10	K0606757-005	Biomass 10A Boiler	SOLID FUEL	10.18g	69.53g	48.65g	64.8		
11	K0606757-006	TDF 9A Boiler 8/4	SOLID FUEL	10.45g	63.45g	61.51g	96.3		
12	K0606757-007	RDF 10A Boiler 8/10	SOLID FUEL	10.11g	57.28g	55.19g	95.6		
13	KWG0613078-1	Duplicate Client Sample	SOIL	1.21g	3.92g	3.90g	99.3	K0606703-036	Air Dried & Shatterboxed
14	KWG0613078-2	Duplicate Client Sample	SOLID FUEL	10.16g	61.13g	59.83g	97.4	K0606757-001	

Metals

METALS

- Cover Page -
INORGANIC ANALYSIS DATA PACKAGE

Client: Geomatrix Consultants, Incorporated Service Request: K0606713

Project No.: 8769.006/2

Project Name: Former RP site

Sample No.	Lab Sample ID.
SULF-4	K0606713-036
Method Blank	K0606713-MB
Batch QCD	K0606717-036D
Batch QCS	K0606717-036S

Were ICP interelement corrections applied? Yes/No YES

Were ICP background corrections applied? Yes/No YES

If yes-were raw data generated before application of background corrections? Yes/No NO

Comments:

Signature: [illegible] Date: 8/15/06

METALS
-1-
INORGANIC ANALYSIS DATA SHEET

Client:	Geomatrix Consultants, Incorporated	Service Request:	K0606713
Project No.:	8769.006/2	Date Collected:	08/10/06
Project Name:	Former RP site	Date Received:	08/10/06
Matrix:	SOIL	Units:	MG/KG
		Basis:	Dry

Sample Name: SULF-4 Lab Code: K0606713-036

Analyte	Analysis Method	MRL	MDL	Dil.	Date Extracted	Date Analyzed	Result	C	Q
Copper	6020	0.4	0.2	20	8/14/06	8/15/06	17.1		

% Solids: 99.7

Comments:

METALS
-1-
INORGANIC ANALYSIS DATA SHEET

Client: Geomatrix Consultants, Incorporated
Service Request: K0606713
Project No.: 8769.006/2
Date Collected:
Project Name: Former RP site
Date Received:
Matrix: SOIL
Units: MG/KG
Basis: Dry

Sample Name: Method Blank
Lab Code: K0606713-MB

Analyte	Analysis Method	MRL	MDL	Dil.	Date Extracted	Date Analyzed	Result	C	Q
Copper	6020	0.4	0.2	20	8/14/06	8/15/06	0.2	U	

% Solids: 100.0

Comments:

METALS
-2a-
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Geomatrix Consultants, Incorporated Service Request: K0606713

Project No.: 8769.006/2

Project Name: Former RP site

ICV Source: Inorganic Ventures CCV Source: Various

Concentration Units: ug/l

Analyte	Initial Calibration			Continuing Calibration					Method
	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Copper	12.5	13.5	108	25.0	25.2	101	24.6	98	6020

METALS
- 2a -
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Geomatrix Consultants, Incorporated Service Request: K0606713

Project No.: 8769.006/2

Project Name: Former RP site

ICV Source: CCV Source: Various

Concentration Units: ug/I

Analyte	Initial Calibration True	Initial Calibration Found	Initial Calibration %R(1)	Continuing Calibration True	Continuing Calibration Found	Continuing Calibration %R(1)	Continuing Calibration Found	Continuing Calibration %R(1)	Method
Copper				25.0	24.8	99			6020

METALS
- 2b -
CRDL STANDARD FOR AA AND ICP

Client: Geomatrix Consultants, Incorporated Service Request: K0606713

Project No.: 8769.006/2

Project Name: Former RP site

Concentration Units: ug/l

Analyte	CRDL Standard for AA			CRDL Standard for ICP				
				Initial			Final	
	True	Found	%R	True	Found	%R	Found	%R
Copper				0.20	0.34	170		

METALS
-3-
BLANKS

Client: Geomatrix Consultants, Incorporated Service Request: K0606713

Project No.: 8769.006/2

Project Name: Former RP site

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C		Preparation Blank	C			Method
Copper	0.1	U	0.1	U	0.1	U	0.1	U						6020

METALS

-4-

ICP INTERFERENCE CHECK SAMPLE

Client: Geomatrix Consultants, Incorporated

Service Request:K0606713

Project No.: 8769.006/2

Project Name: Former RP site

ICP ID Number: X Series

ICS Source: Inorganic Ventures

Concentration Units): ug/L

Analyte	True		Initial Found			Final Found		
	Sol.A	Sol.AB	Sol.A	Sol.AB	%R	Sol.A	Sol.AB	%R
Copper		20	0.3	22.9	115			

METALS
-5a-
SPIKE SAMPLE RECOVERY

Client: Geomatrix Consultants, Incorporated
Service Request: K0606713
Project No.: 8769.006/2
Units: mg/kg
Project Name: Former RP site
Basis: Dry
Matrix: SOIL
% Solids: 99.0

Sample Name: Batch QCS
Lab Code: K0606717-036S

Analyte	Control Limit %R	Spike Result	C	Sample Result	C	Spike Added	%R	Q	Method
Copper	52 - 153	122		54.9		50.0	134		6020

An empty field in the Control Limit column indicates the control limit is not applicable.

METALS
- 5b -
POST DIGEST SPIKE SAMPLE RECOVERY

Client: Geomatrix Consultants, Incorporated
Service Request: K0606713
Project No.: 8769.006/2
Units: ug/L
Project Name: Former RP site
Matrix: SOIL

Sample Name: Batch QCA
Lab Code: K0606717-036A

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Copper	75-125	48.0		27.5		20.0	103		MS

Comments:

METALS
-6-
DUPLICATES

Client: Geomatrix Consultants, Incorporated
Service Request: K0606713
Project No.: 8769.006/2
Units: mg/kg
Project Name: Former RP site
Basis: Dry
Matrix: SOIL
% Solids: 99.0

Sample Name: Batch QCD
Lab Code: K0606717-036D

Analyte	Control Limit(%)	Sample (S)	C	Duplicate (D)	C	RPD	Q	Method
Copper	30	54.9		53.9		2		6020

An empty field in the Control Limit column indicates the control limit is not applicable.

METALS
-7-
LABORATORY CONTROL SAMPLE

Client: Geomatrix Consultants, Incorporated Service Request: K0606713

Project No.: 8769.006/2

Project Name: Former RP site

Aqueous LCS Source: Inorganic Ventures Solid LCS Source: ERA Lot #D045540

Analyte	Aqueous mg/L True	Aqueous mg/L Found	Aqueous mg/L %R	Solid (mg/kg) True	Solid (mg/kg) Found	C	Limits		%R
Copper				67.0	70.0		53.8	80.2	104

METALS
-9-
ICP SERIAL DILUTIONS

Client: Geomatrix Consultants, Incorporated Service Request: K0606713
Project No.: 8769.006/2 Units: ug/L
Project Name: Former RP site

Sample Name: Batch QCL Lab Code: K0606717-036L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Differ-	Q	Method
Copper	27.5		27.5		0		6020

METALS
-10-
METHOD DETECTION LIMITS

Client: Geomatrix Consultants, Incorporated Service Request: K0606713

Project No.: 8769.006/2

Project Name: Former RP site

ICP/ICP-MS ID #: X Series

GFAA ID #: AA ID #:

Analyte	Mass	Back-ground	MRL (ug/L)	MDL (ug/L)	Method
Copper	65		0.2	0.1	6020

Comments

METALS

-12-

ICP LINEAR RANGES (QUARTERLY)

Client: Geomatrix Consultants, Incorporated Service Request: K0606713

Project No.: 8769.006/2

Project Name: Former RP site

ICP ID Number: X Series

Analyte	Integ. Time (Sec.)	Concentration (ug/L)	Method
Copper	15.00	400.0	6020

Comments:

1317 South 13th Avenue P.O. Box 479 Kelso, Washington 98626 (360) 577-7222 (360) 636-1068 fax

Columbia Analytical Services
An Employee - Owned Compar

GEOMATRIX Received AUG 22 2006 SEATTLE

August 17, 2006

Service Request No: K0606717

John Long
Geomatrix Consultants, Incorporated
One Union Square
600 University Street, Suite 1020
Seattle, WA 98101

RE: Former RP site/8769.006/2

Dear John:

Enclosed are the results of the rush sample(s) submitted to our laboratory on August 10, 2006. For your reference, these analyses have been assigned our service request number K0606717.

All analyses were performed according to our laboratory's quality assurance program. The test results meet requirements of the NELAC standards. Exceptions are noted in the case narrative report where applicable. All results are intended to be considered in their entirety, and Columbia Analytical Services, Inc. (CAS) is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report.

Please call if you have any questions. My extension is 3376. You may also contact me via Email at GSalata@kelso.caslab.com.

Respectfully submitted,

Columbia Analytical Services, Inc.

Gregory Salata

Gregory Salata, Ph.D.
Project Chemist

GS/jm

NELAP Accredited ACIL Seal of Excellence Award 100% Recycled

Acronyms

ASTM	American Society for Testing and Materials
A2LA	American Association for Laboratory Accreditation
CARB	California Air Resources Board
CAS Number	Chemical Abstract Service registry Number
CFC	Chlorofluorocarbon
CFU	Colony-Forming Unit
DEC	Department of Environmental Conservation
DEQ	Department of Environmental Quality
DHS	Department of Health Services
DOE	Department of Ecology
DOH	Department of Health
EPA	U. S. Environmental Protection Agency
ELAP	Environmental Laboratory Accreditation Program
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
LUFT	Leaking Underground Fuel Tank
M	Modified
MCL	Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA.
MDL	Method Detection Limit
MPN	Most Probable Number
MRL	Method Reporting Limit
NA	Not Applicable
NC	Not Calculated
NCASI	National Council of the Paper Industry for Air and Stream Improvement
ND	Not Detected
NIOSH	National Institute for Occupational Safety and Health
PQL	Practical Quantitation Limit
RCRA	Resource Conservation and Recovery Act
SIM	Selected Ion Monitoring
TPH	Total Petroleum Hydrocarbons
tr	Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL.

Inorganic Data Qualifiers

*	The result is an outlier. See case narrative.
#	The control limit criteria is not applicable. See case narrative.
B	The analyte was found in the associated method blank at a level that is significant relative to the sample result.
E	The result is an estimate amount because the value exceeded the instrument calibration range.
J	The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.
U	The compound was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
i	The MRL/MDL has been elevated due to a matrix interference.
X	See case narrative.

Metals Data Qualifiers

#	The control limit criteria is not applicable. See case narrative.
B	The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.
E	The percent difference for the serial dilution was greater than 10%, indicating a possible matrix interference in the sample.
M	The duplicate injection precision was not met.
N	The Matrix Spike sample recovery is not within control limits. See case narrative.
S	The reported value was determined by the Method of Standard Additions (MSA).
U	The compound was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
W	The post-digestion spike for furnace AA analysis is out of control limits, while sample absorbance is less than 50% of spike absorbance.
i	The MRL/MDL has been elevated due to a matrix interference.
X	See case narrative.
*	The duplicate analysis not within control limits. See case narrative.
+	The correlation coefficient for the MSA is less than 0.995.

Organic Data Qualifiers

*	The result is an outlier. See case narrative.
#	The control limit criteria is not applicable. See case narrative.
A	A tentatively identified compound, a suspected aldol-condensation product.
B	The analyte was found in the associated method blank at a level that is significant relative to the sample result.
C	The analyte was qualitatively confirmed using GC/MS techniques, pattern recognition, or by comparing to historical data.
D	The reported result is from a dilution.
E	The result is an estimate amount because the value exceeded the instrument calibration range.
J	The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.
N	The result is presumptive. The analyte was tentatively identified, but a confirmation analysis was not performed.
P	The GC or HPLC confirmation criteria was exceeded. The relative percent difference is greater than 40% between the two analytical results (25% for CLP Pesticides).
U	The compound was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
i	The MRL/MDL has been elevated due to a chromatographic interference.
X	See case narrative.

Additional Petroleum Hydrocarbon Specific Qualifiers

F	The chromatographic fingerprint of the sample matches the elution pattern of the calibration standard.
L	The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of lighter molecular weight constituents than the calibration standard.
H	The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of heavier molecular weight constituents than the calibration standard.
O	The chromatographic fingerprint of the sample resembles an oil, but does not match the calibration standard.
Y	The chromatographic fingerprint of the sample resembles a petroleum product eluting in approximately the correct carbon range, but the elution pattern does not match the calibration standard.
Z	The chromatographic fingerprint does not resemble a petroleum product.

Case Narrative

COLUMBIA ANALYTICAL SERVICES, INC.

Client:	Geomatrix Consultants, Inc.	**Service Request No.:**	K0606717
Project:	Former RP Site/8769.006	**Date Received:**	08/10/06
Sample Matrix:	Soil		

CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of Columbia Analytical Services, Inc. (CAS). This report contains analytical results for samples designated for Tier III validation deliverables including summary forms and all of the associated raw data for each of the analyses. When appropriate to the method, method blank results have been reported with each analytical test.

Sample Receipt

Thirty-six soil samples were received for analysis at Columbia Analytical Services on 08/10/06. The samples were received in good condition and consistent with the accompanying chain of custody form. The samples were stored in a refrigerator at 4°C upon receipt at the laboratory. As instructed, the composite sample was subjected to grinding per the project QAPP prior to analysis. The ground sample was also divided into two discreet samples, with the second designated as "COMP-4-DUP". Additionally, an equipment rinse sample (ER-1) was generated by rinsing the shatterbox rings with deionized water.

Total Metals

No anomalies associated with the analysis of these samples were observed.

Polychlorinated Biphenyls by EPA Method 8082

Elevated Method Reporting Limits:
The reporting limit is elevated for all analytes in samples COMP-4 and COMP-4-DUP. The sample extract was diluted prior to instrumental analysis due to relatively high levels of non-target background components. A semi-quantitative screen was performed prior to final analysis. The results of the screening indicated the need to perform a dilution. The extract was highly colored and viscous; clean-up of the extract was performed within the scope of the method, but did not eliminate enough of the background components to prevent dilution. The results are flagged to indicate the matrix interference.

The reporting limit is elevated for Aroclor 1260 in samples COMP-4 and COMP-4-DUP. The chromatogram indicated the presence of non-target background components. The matrix interference prevented adequate resolution of the target compound at the reporting limit. The result is flagged to indicate the matrix interference.

No other anomalies associated with the analysis of these samples were observed.

Approved by Gregory [illegible] Date 8/18/06

Chain of Custody Documentation

CHAIN-OF-CUSTODY RECORD

SEA 10088

PROJECT NAME: Former Rhone Poulenc - East Parcel		DATE: 8/10/06	PAGE 1 OF 3
PROJECT NUMBER: 8769.006/2	LABORATORY NAME: Columbia Analytical	CLIENT INFORMATION:	REPORTING REQUIREMENTS:
RESULTS TO: Larry McGaughey	LABORATORY ADDRESS: 317 S. 13th Ave.	Container Properties	
TURNAROUND TIME: 2-day	Kelso, WA 98626		
SAMPLE SHIPMENT METHOD: Courier	LABORATORY CONTACT: Greg Salata		GEOTRACKER REQUIRED YES NO
	LABORATORY PHONE NUMBER: 360 577 7222		SITE SPECIFIC GLOBAL ID NO.

SAMPLERS (SIGNATURE):

DATE	TIME	SAMPLE NUMBER	Copper PCBs (EPA 8082)	CONTAINER TYPE AND SIZE	Soil (S), Water (W), Vapor (V), or Other (O)	Filtered	Preservative Type	Cooled	MS/MSD	No. of Containers	ADDITIONAL COMMENTS
8/10/06	0756	COMP-4-1A		1x4oz jar	S					1	
	0758	COMP-4-2A									
	0759	COMP-4-3A									
	0800	COMP-4-4A									
	0801	COMP-4-5A									
	0802	COMP-4-6A									
	0803	COMP-4-7A									
	0804	COMP-4-8A									
	0805	COMP-4-9A									
	0806	COMP-4-10A									
	0808	COMP-4-11A									
	0809	COMP-4-12A									
	0810	COMP-4-13A									
	0811	COMP-4-14A									
	0812	COMP-4-15A									

RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME
SIGNATURE:	8/10/06		SIGNATURE: Stacie Hays	8/10/06	900 AM
PRINTED NAME:			PRINTED NAME: Stacie Hays		
COMPANY: Geomatrix			COMPANY: MC Delivery		
SIGNATURE:			SIGNATURE: A. Avell	8/10/06	1400
PRINTED NAME:			PRINTED NAME: Avell		
COMPANY:			COMPANY: CAS		
SIGNATURE:			SIGNATURE:		
PRINTED NAME:			PRINTED NAME:		
COMPANY:			COMPANY:		

TOTAL NUMBER OF CONTAINERS:

SAMPLING COMMENTS: Please conduct "field dup" on sample "COMP-4" for PCBs only, after grinding composite sample in accordance w/ QAPP SOP. Hold all "A" samples.
* Please remember to run equipment blank as per QAPP!! *

One Union Square, 600 University Street, Suite 1020
Seattle, Washington 98101-4107
Tel 206.342.1760 Fax 206.342.1761
Geomatrix

CHAIN-OF-CUSTODY RECORD

K8601617

SEA 10087

PROJECT NAME: Former Rhone Poulenc - East Parcel		DATE: 8/10/06	PAGE 2 OF 3
PROJECT NUMBER: 8769.006/2	LABORATORY NAME: Columbia Analytical	CLIENT INFORMATION:	REPORTING REQUIREMENTS:
RESULTS TO: Larry McGaughey	LABORATORY ADDRESS: 1317 S. 13th Ave	Container Properties	
TURNAROUND TIME: 2-day	Kelso, WA 98626		
SAMPLE SHIPMENT METHOD: courier	LABORATORY CONTACT: Greg Salata		GEOTRACKER REQUIRED YES NO
	LABORATORY PHONE NUMBER: (360) 577-7222		SITE SPECIFIC GLOBAL ID NO.

SAMPLERS (SIGNATURE): [signature]

ANALYSES

DATE	TIME	SAMPLE NUMBER	Copper	PCBs (EPA 8082)	CONTAINER TYPE AND SIZE	Soil (S), Water (W), Vapor (V), or Other (O)	Filtered	Preservative Type	Cooled	MS/MSD	No. of Containers	ADDITIONAL COMMENTS
8/10/06	0813	COMP-4-16A			1x 4oz jar	S					1	
	0814	COMP-4-17A										
	0815	COMP-4-18A										
	0816	COMP-4-19A										
	0817	COMP-4-20A										
	0818	COMP-4-21A										
	0819	COMP-4-22A										
	0820	COMP-4-23A										
	0821	COMP-4-24A										
	0822	COMP-4-25A										
	0823	COMP-4-26A										
	0824	COMP-4-27A										
	0825	COMP-4-28A										
	0826	COMP-4-29A										
	0827	COMP-4-30A										

RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME
SIGNATURE:	8/10/06		SIGNATURE: Stacie Hays	8/10/06	900AM
PRINTED NAME:			PRINTED NAME: Stacie Hays		
COMPANY: Geomatrix			COMPANY: McDelivery		
SIGNATURE:			SIGNATURE: U. Juell	8/10/06	1400
PRINTED NAME:			PRINTED NAME: Juell		
COMPANY:			COMPANY: CAS		
SIGNATURE:			SIGNATURE:		
PRINTED NAME:			PRINTED NAME:		
COMPANY:			COMPANY:		

TOTAL NUMBER OF CONTAINERS:

SAMPLING COMMENTS:

See p.1

One Union Square, 600 University Street, Suite 1020
Seattle, Washington 98101-4107
Tel 206.342.1760 Fax 206.342.1761

Geomatrix

8

CHAIN-OF-CUSTODY RECORD

K0606717

SEA 10086

PROJECT NAME: Former Rhone-Poulenc - East Parcel		DATE: 8/10/06	PAGE 3 OF 3
PROJECT NUMBER: 8769.006/2	LABORATORY NAME: Columbia Analytical	CLIENT INFORMATION:	REPORTING REQUIREMENTS:
RESULTS TO: Larry McGaughey	LABORATORY ADDRESS: 1317 S 13th Ave	Container Properties	
TURNAROUND TIME: 2-day	Kelso, WA 98626		
SAMPLE SHIPMENT METHOD: courier	LABORATORY CONTACT: Greg Salata		GEOTRACKER REQUIRED YES NO
	LABORATORY PHONE NUMBER: (360) 577-7222		SITE SPECIFIC GLOBAL ID NO.

SAMPLERS (SIGNATURE): [signature]

ANALYSES

DATE	TIME	SAMPLE NUMBER	Copper	PCBs	CONTAINER TYPE AND SIZE	Soil (S), Water (W), Vapor (V), or Other (O)	Filtered	Preservative Type	Cooled	MS/MSD	No. of Containers	ADDITIONAL COMMENTS
8/10/06	0828	COMP-4-31A			1 x 4oz jar	S					1	
	0829	COMP-4-32A										
	0830	COMP-4-33A										
	0831	COMP-4-34A										
	0832	COMP-4-35A										
	0832	COMP-4	X	X	1 gallon bucket							

CAS 8/10/06

RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME
SIGNATURE:	8/10/06		SIGNATURE: Stacie Hays	8/10/06	900
PRINTED NAME:			PRINTED NAME: Stacie Hays		
COMPANY: Geomatrix			COMPANY: McDelivery		
SIGNATURE:			SIGNATURE: A. Juell	8/10/06	1400
PRINTED NAME:			PRINTED NAME: Juell		
COMPANY:			COMPANY: CAS		
SIGNATURE:			SIGNATURE:		
PRINTED NAME:			PRINTED NAME:		
COMPANY:			COMPANY:		

TOTAL NUMBER OF CONTAINERS:

SAMPLING COMMENTS: See p. 1

One Union Square, 600 University Street, Suite 1020
Seattle, Washington 98101-4107
Tel 206.342.1760 Fax 206.342.1761
Geomatrix

Columbia Analytical Services Inc.
Cooler Receipt and Preservation Form

PC ~~[illegible]~~

Project/Client Geomatrix Service Request K06 06717

Cooler received on 8-10-06 and opened on 8-10-06 by BW

1. Were custody seals on outside of coolers? Y (N)
   If yes, how many and where? NP
2. Were custody seals intact? ~~Y~~ N
3. Were signature and date present on the custody seals? ~~Y~~ N
4. Is the shipper's airbill available and filed? If no, record airbill number: mc Delivery 347896 ~~Y~~ N
5. COC#

Temperature of cooler(s) upon receipt: (°C)	1.2	1.4		
Temperature Blank: (°C)	NP	NP		

Were samples hand delivered on the same day as collection? ~~Y~~ N

6. Were custody papers properly filled out (ink, signed, etc.)? Y (N)
7. Type of packing material present ICE, box
8. **Did all bottles arrive in good condition (unbroken)?** (Y) N
9. Were all bottle labels complete (i.e analysis, preservation, etc.)? (Y) N
10. Did all bottle labels and tags agree with custody papers? (Y) N
11. **Were the correct types of bottles used for the tests indicated?** (Y) N
12. Were all of the preserved bottles received at the lab with the appropriate pH? ~~Y~~ ~~N~~
13. Were VOA vials checked for absence of air bubbles, and if present, noted below? ~~Y~~ N
14. Were the 1631 Mercury bottles checked for absence of air bubbles, and if present, noted below? ~~Y~~ N
15. Did the bottles originate from CAS/K or a branch laboratory? (Y) N
16. **Are CWA Microbiology samples received with >1/2 the 24hr. hold time remaining from collection?** ~~Y~~ N
17. Was C12/Res negative? ~~Y~~ N

Explain any discrepancies: No sign off on relinquish

RESOLUTION:

Samples that required preservation or received out of temperature:

Sample ID	Reagent	Volume	Lot Number	Bottle Type	Rec'd out of Temperature	Initials

Total Solids

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Geomatrix Consultants, Incorporated	**Service Request:**	K0606717
Project:	Former RP site/8769.006/2		
Sample Matrix:	Soil		

Total Solids

Prep Method:	NONE	**Units:**	PERCENT
Analysis Method:	160.3M	**Basis:**	Wet
Test Notes:			

Sample Name	Lab Code	Date Collected	Date Received	Date Analyzed	Result	Result Notes
COMP-4	K0606717-036	08/10/2006	08/10/2006	08/11/2006	99.0	

COLUMBIA ANALYTICAL SERVICES, INC.

EPA Method 160.3 - Total Solids

Group ID:	KWG0613078				
Analyst:	RMcKee			**Reviewed By:**	Curtis L Rupp
Date Acquired:	08/11/2006 15:25	**Oven TempStart:**	104 DEG C	**Date Reviewed:**	8/14/06
Date Completed:	08/12/2006 12:03	**Oven TempEnd:**	104 DEG C		

#	Lab Code	Client ID	Matrix	Tare	Tare+Wet	Tare+Dry	% Solids	QC Ref Sample	Comments
1	K0606699-001	Mix-Composite Sample #1	SOLID FUEL	10.30g	64.10g	37.36g	50.3		
2	K0606703-036	LAB-4	SOIL	1.21g	8.75g	8.70g	99.3		Air Dried & Shatterboxed
3	K0606709-036	MAINT-4	SOIL	1.22g	4.60g	4.57g	99.1		Air Dried & Shatterboxed
4	K0606713-036	SULF-4	SOIL	1.20g	7.53g	7.51g	99.7		Air Dried & Shatterboxed
5	K0606717-036	COMP-4	SOIL	1.22g	7.33g	7.27g	99.0		Air Dried & Shatterboxed
6	K0606757-001	TDF 9A Boiler 6/30	SOLID FUEL	10.36g	61.99g	60.67g	97.4		
7	K0606757-002	TDF 10A Boiler 6/30	SOLID FUEL	10.39g	65.45g	64.51g	98.3		
8	K0606757-003	RDF 10A Boiler 6/30	SOLID FUEL	10.61g	58.27g	55.24g	93.6		
9	K0606757-004	Biomass 9A Boiler	SOLID FUEL	10.40g	66.83g	44.51g	60.4		
10	K0606757-005	Biomass 10A Boiler	SOLID FUEL	10.18g	69.53g	48.65g	64.8		
11	K0606757-006	TDF 9A Boiler 8/4	SOLID FUEL	10.45g	63.45g	61.51g	96.3		
12	K0606757-007	RDF 10A Boiler 8/10	SOLID FUEL	10.11g	57.28g	55.19g	95.6		
13	KWG0613078-1	Duplicate Client Sample	SOIL	1.21g	3.92g	3.90g	99.3	K0606703-036	Air Dried & Shatterboxed
14	KWG0613078-2	Duplicate Client Sample	SOLID FUEL	10.16g	61.13g	59.83g	97.4	K0606757-001	

Metals

METALS

- Cover Page -
INORGANIC ANALYSIS DATA PACKAGE

Client: Geomatrix Consultants, Incorporated Service Request: K0606717

Project No.: 8769.006/2

Project Name: Former RP site

Sample No.	Lab Sample ID.
ER-1	K0606717-038
ER-1D	K0606717-038D
ER-1S	K0606717-038S
Method Blank	K0606717-MB

Were ICP interelement corrections applied? Yes/No YES

Were ICP background corrections applied? Yes/No YES

If yes-were raw data generated before application of background corrections? Yes/No NO

Comments:

Signature: [illegible] Date: 3/15/06

METALS

-1-

INORGANIC ANALYSIS DATA SHEET

Client:	Geomatrix Consultants, Incorporated	Service Request:	K0606717
Project No.:	8769.006/2	Date Collected:	08/10/06
Project Name:	Former RP site	Date Received:	08/12/06
Matrix:	WATER	Units:	µG/L
		Basis:	NA

Sample Name: ER-1 Lab Code: K0606717-038

Analyte	Analysis Method	MRL	MDL	Dil.	Date Extracted	Date Analyzed	Result	C	Q
Copper	6020	0.10	0.04	1	8/14/06	8/15/06	0.19		

% Solids: 0.0

Comments:

METALS

-1-

INORGANIC ANALYSIS DATA SHEET

Client: Geomatrix Consultants, Incorporated
Service Request: K0606717
Project No.: 8769.006/2
Date Collected:
Project Name: Former RP site
Date Received:
Matrix: WATER
Units: µG/L
Basis: NA

Sample Name: Method Blank
Lab Code: K0606717-MB

Analyte	Analysis Method	MRL	MDL	Dil.	Date Extracted	Date Analyzed	Result	C	Q
Copper	6020	0.10	0.04	1	8/14/06	8/15/06	0.04	U	

% Solids: 0.0

Comments:

METALS
- 2a -
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Geomatrix Consultants, Incorporated Service Request: K0606717

Project No.: 8769.006/2

Project Name: Former RP site

ICV Source: Inorganic Ventures CCV Source: Various

Concentration Units: ug/l

Analyte	Initial Calibration			Continuing Calibration					Method
	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Copper	12.5	13.2	106	25.0	24.9	100	24.7	99	6020

METALS
- 2b -
CRDL STANDARD FOR AA AND ICP

Client: Geomatrix Consultants, Incorporated Service Request: K0606717

Project No.: 8769.006/2

Project Name: Former RP site

Concentration Units: ug/I

Analyte	CRDL Standard for AA			CRDL Standard for ICP				
				Initial			Final	
	True	Found	%R	True	Found	%R	Found	%R
Copper				0.10	0.10	96		

METALS
-3-
BLANKS

Client: Geomatrix Consultants, Incorporated Service Request: K0606717

Project No.: 8769.006/2

Project Name: Former RP site

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C		Preparation Blank	C			Method
Copper	0.04	U	0.04	U	0.04	U								6020

METALS

-4-

ICP INTERFERENCE CHECK SAMPLE

Client: Geomatrix Consultants, Incorporated

Service Request:K0606717

Project No.: 8769.006/2

Project Name: Former RP site

ICP ID Number: X Series

ICS Source: Inorganic Ventures

Concentration Units): ug/L

Analyte	True		Initial Found			Final Found		
	Sol.A	Sol.AB	Sol.A	Sol.AB	%R	Sol.A	Sol.AB	%R
Copper		20	0.47	21.7	108			

METALS
-5a-
SPIKE SAMPLE RECOVERY

Client: Geomatrix Consultants, Incorporated
Service Request: K0606717
Project No.: 8769.006/2
Units: µg/L
Project Name: Former RP site
Basis: NA
Matrix: WATER
% Solids: 0.0

Sample Name: ER-1S
Lab Code: K0606717-038S

Analyte	Control Limit %R	Spike Result	C	Sample Result	C	Spike Added	%R	Q	Method
Copper	70 - 116	20.8		0.19		20.0	103		6020

An empty field in the Control Limit column indicates the control limit is not applicable.

METALS
- 5b -
POST DIGEST SPIKE SAMPLE RECOVERY

Client: Geomatrix Consultants, Incorporated
Service Request: K0606717
Project No.: 8769.006/2
Units: ug/L
Project Name: Former RP site
Matrix: WATER

Sample Name: ER-1A
Lab Code: K0606717-038A

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Copper	75-125	19.9		0.19		20.0	99		MS

ments:

METALS
-6-
DUPLICATES

Client: Geomatrix Consultants, Incorporated
Service Request: K0606717
Project No.: 8769.006/2
Units: µg/L
Project Name: Former RP site
Basis: NA
Matrix: WATER
% Solids: 0.0

Sample Name:ER-1D
Lab Code: K0606717-038D

Analyte	Control Limit(%)	Sample (S)	C	Duplicate (D)	C	RPD	Q	Method
Copper		0.19		0.19		4		6020

An empty field in the Control Limit column indicates the control limit is not applicable.

METALS
-7-
LABORATORY CONTROL SAMPLE

Client: Geomatrix Consultants, Incorporated Service Request: K0606717

Project No.: 8769.006/2

Project Name: Former RP site

Aqueous LCS Source: Inorganic Ventures Solid LCS Source:

	Aqueous ug/L			Solid (mg/kg)				
Analyte	True	Found	%R	True	Found	C	Limits	%R
Copper	20.0	20.1	101					

METALS
-9-
ICP SERIAL DILUTIONS

Client: Geomatrix Consultants, Incorporated
Service Request: K0606717
Project No.: 8769.006/2
Units: ug/L
Project Name: Former RP site

Sample Name: ER-1L
Lab Code: K0606717-038L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Differ-	Q	Method
Copper	0.19		0.20	U			6020

METALS
-10-
METHOD DETECTION LIMITS

Client: Geomatrix Consultants, Incorporated Service Request: K0606717

Project No.: 8769.006/2

Project Name: Former RP site

ICP/ICP-MS ID #: X Series

GFAA ID #: AA ID #:

Analyte	Mass	Back-ground	MRL (ug/L)	MDL (ug/L)	Method
Copper	65		0.10	0.04	6020

Comments

METALS

-12-

ICP LINEAR RANGES (QUARTERLY)

Client: Geomatrix Consultants, Incorporated Service Request: K0606717

Project No.: 8769.006/2

Project Name: Former RP site

ICP ID Number: X Series

Analyte	Integ. Time (Sec.)	Concentration (ug/L)	Method
Copper	15.00	400.0	6020

Comments:

METALS

- Cover Page -
INORGANIC ANALYSIS DATA PACKAGE

Client: Geomatrix Consultants, Incorporated Service Request: K0606717

Project No.: 8769.006/2

Project Name: Former RP site

Sample No.	Lab Sample ID.
COMP-4	K0606717-036
COMP-4D	K0606717-036D
COMP-4S	K0606717-036S
Method Blank	K0606717-MB

Were ICP interelement corrections applied? Yes/No YES

Were ICP background corrections applied? Yes/No YES

If yes-were raw data generated before application of background corrections? Yes/No NO

Comments:

Signature: [signature] Date: 8/15/96

METALS
-1-
INORGANIC ANALYSIS DATA SHEET

Client:	Geomatrix Consultants, Incorporated	Service Request:	K0606717
Project No.:	8769.006/2	Date Collected:	08/10/06
Project Name:	Former RP site	Date Received:	08/10/06
Matrix:	SOIL	Units:	MG/KG
		Basis:	Dry

Sample Name: COMP-4 Lab Code: K0606717-036

Analyte	Analysis Method	MRL	MDL	Dil.	Date Extracted	Date Analyzed	Result	C	Q
Copper	6020	0.4	0.2	20	8/14/06	8/15/06	54.9		

% Solids: 99.0

Comments:

METALS
-1-
INORGANIC ANALYSIS DATA SHEET

Client: Geomatrix Consultants, Incorporated
Service Request: K0606717
Project No.: 8769.006/2
Date Collected:
Project Name: Former RP site
Date Received:
Matrix: SOIL
Units: MG/KG
Basis: Dry

Sample Name: Method Blank
Lab Code: K0606717-MB

Analyte	Analysis Method	MRL	MDL	Dil.	Date Extracted	Date Analyzed	Result	C	Q
Copper	6020	0.4	0.2	20	8/14/06	8/15/06	0.2	U	

% Solids: 100.0

Comments:

METALS
-2a-
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Geomatrix Consultants, Incorporated Service Request: K0606717

Project No.: 8769.006/2

Project Name: Former RP site

ICV Source: Inorganic Ventures CCV Source: Various

Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration					Method
	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Copper	12.5	13.5	108	25.0	25.2	101	24.6	98	6020

METALS
- 2b -
CRDL STANDARD FOR AA AND ICP

Client: Geomatrix Consultants, Incorporated Service Request: K0606717

Project No.: 8769.006/2

Project Name: Former RP site

Concentration Units: ug/l

Analyte	CRDL Standard for AA			CRDL Standard for ICP				
				Initial			Final	
	True	Found	%R	True	Found	%R	Found	%R
Copper				0.20	0.34	170		

METALS
-3-
BLANKS

Client: Geomatrix Consultants, Incorporated Service Request: K0606717

Project No.: 8769.006/2

Project Name: Former RP site

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C		Preparation Blank	C		Method
Copper	0.1	U	0.1	U	0.1	U							6020

METALS
-4-
ICP INTERFERENCE CHECK SAMPLE

Client: Geomatrix Consultants, Incorporated

Service Request:K0606717

Project No.: 8769.006/2

Project Name: Former RP site

ICP ID Number: X Series

ICS Source: Inorganic Ventures

Concentration Units): ug/L

Analyte	True		Initial Found			Final Found		
	Sol.A	Sol.AB	Sol.A	Sol.AB	%R	Sol.A	Sol.AB	%R
Copper		20	0.3	22.9	115			

METALS
-5a-
SPIKE SAMPLE RECOVERY

Client: Geomatrix Consultants, Incorporated
Service Request: K0606717
Project No.: 8769.006/2
Units: mg/kg
Project Name: Former RP site
Basis: Dry
Matrix: SOIL
% Solids: 99.0

Sample Name: COMP-4S
Lab Code: K0606717-036S

Analyte	Control Limit %R	Spike Result	C	Sample Result	C	Spike Added	%R	Q	Method
Copper	52 - 153	122		54.9		50.0	134		6020

An empty field in the Control Limit column indicates the control limit is not applicable.

METALS
-5b-
POST DIGEST SPIKE SAMPLE RECOVERY

Client: Geomatrix Consultants, Incorporated
Service Request: K0606717
Project No.: 8769.006/2
Units: ug/L
Project Name: Former RP site
Matrix: SOIL

Sample Name: COMP-4A
Lab Code: K0606717-036A

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Copper	75-125	48.0		27.5		20.0	103		MS

ments:

METALS
-6-
DUPLICATES

Client: Geomatrix Consultants, Incorporated
Service Request: K0606717
Project No.: 8769.006/2
Units: mg/kg
Project Name: Former RP site
Basis: Dry
Matrix: SOIL
% Solids: 99.0

Sample Name: COMP-4D
Lab Code: K0606717-036D

Analyte	Control Limit(%)	Sample (S)	C	Duplicate (D)	C	RPD	Q	Method
Copper	30	54.9		53.9		2		6020

An empty field in the Control Limit column indicates the control limit is not applicable.

METALS
-7-
LABORATORY CONTROL SAMPLE

Client: Geomatrix Consultants, Incorporated Service Request: K0606717

Project No.: 8769.006/2

Project Name: Former RP site

Aqueous LCS Source: Inorganic Ventures Solid LCS Source: ERA Lot #D045540

Analyte	Aqueous mg/L True	Aqueous mg/L Found	Aqueous mg/L %R	Solid (mg/kg) True	Solid (mg/kg) Found	C	Limits	Limits	%R
Copper				67.0	70.0		53.8	80.2	104

METALS
-9-
ICP SERIAL DILUTIONS

Client: Geomatrix Consultants, Incorporated
Service Request: K0606717
Project No.: 8769.006/2
Units: ug/L
Project Name: Former RP site

Sample Name: COMP-4L
Lab Code: K0606717-036L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Differ-	Q	Method
Copper	27.5		27.5		0		6020

METALS
-10-
METHOD DETECTION LIMITS

Client: Geomatrix Consultants, Incorporated Service Request: K0606717

Project No.: 8769.006/2

Project Name: Former RP site

ICP/ICP-MS ID #: X Series

GFAA ID #: AA ID #:

Analyte	Mass	Back-ground	MRL (ug/L)	MDL (ug/L)	Method
Copper	65		0.2	0.1	6020

Comments

METALS

-12-

ICP LINEAR RANGES (QUARTERLY)

Client: Geomatrix Consultants, Incorporated Service Request: K0606717

Project No.: 8769.006/2

Project Name: Former RP site

ICP ID Number: X Series

Analyte	Integ. Time (Sec.)	Concentration (ug/L)	Method
Copper	15.00	400.0	6020

Comments:

Organic Analysis:
Polychlorinated Biphenyls (PCBs)

Summary Package

Sample and QC Results

Client: Geomatrix Consultants, Incorporated
Project: Former RP site/8769.006/2

Service Request: K0606717

Cover Page - Organic Analysis Data Package
Polychlorinated Biphenyls (PCBs)

Sample Name	Lab Code	Date Collected	Date Received
COMP-4	K0606717-036	08/10/2006	08/10/2006
COMP-4-DUP	K0606717-037	08/10/2006	08/10/2006
ER-1	K0606717-038	08/10/2006	08/12/2006
COMP-4MS	KWG0613272-1	08/10/2006	08/10/2006
COMP-4DMS	KWG0613272-2	08/10/2006	08/10/2006

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the case narrative. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on floppy diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: _____ Name: Lisa Jones

Date: 8-17-06 Title: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Geomatrix Consultants, Incorporated	**Service Request:**	K0606717
Project:	Former RP site/8769.006/2	**Date Collected:**	08/10/2006
Sample Matrix:	Water	**Date Received:**	08/12/2006

Polychlorinated Biphenyls (PCBs)

Sample Name:	ER-1	**Units:**	ug/L
Lab Code:	K0606717-038	**Basis:**	NA
Extraction Method:	EPA 3535	**Level:**	Low
Analysis Method:	8082		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Aroclor 1016	ND	U	0.21	0.0093	1	08/16/06	08/17/06	KWG0613450	
Aroclor 1221	ND	U	0.42	0.025	1	08/16/06	08/17/06	KWG0613450	
Aroclor 1232	ND	U	0.21	0.0075	1	08/16/06	08/17/06	KWG0613450	
Aroclor 1242	ND	U	0.21	0.021	1	08/16/06	08/17/06	KWG0613450	
Aroclor 1248	ND	U	0.21	0.017	1	08/16/06	08/17/06	KWG0613450	
Aroclor 1254	ND	U	0.21	0.0075	1	08/16/06	08/17/06	KWG0613450	
Aroclor 1260	ND	U	0.21	0.0066	1	08/16/06	08/17/06	KWG0613450	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Decachlorobiphenyl	81	10-144	08/17/06	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Geomatrix Consultants, Incorporated	**Service Request:**	K0606717
Project:	Former RP site/8769.006/2	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA

Polychlorinated Biphenyls (PCBs)

Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	KWG0613450-3	**Basis:**	NA
Extraction Method:	EPA 3535	**Level:**	Low
Analysis Method:	8082		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Aroclor 1016	ND	U	0.20	0.0089	1	08/16/06	08/16/06	KWG0613450	
Aroclor 1221	ND	U	0.40	0.024	1	08/16/06	08/16/06	KWG0613450	
Aroclor 1232	ND	U	0.20	0.0072	1	08/16/06	08/16/06	KWG0613450	
Aroclor 1242	ND	U	0.20	0.020	1	08/16/06	08/16/06	KWG0613450	
Aroclor 1248	ND	U	0.20	0.016	1	08/16/06	08/16/06	KWG0613450	
Aroclor 1254	ND	U	0.20	0.0072	1	08/16/06	08/16/06	KWG0613450	
Aroclor 1260	ND	U	0.20	0.0063	1	08/16/06	08/16/06	KWG0613450	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Decachlorobiphenyl	72	10-144	08/16/06	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Geomatrix Consultants, Incorporated	**Service Request:**	K0606717
Project:	Former RP site/8769.006/2	**Date Collected:**	08/10/2006
Sample Matrix:	Soil	**Date Received:**	08/10/2006

Polychlorinated Biphenyls (PCBs)

Sample Name:	COMP-4	**Units:**	mg/Kg
Lab Code:	K0606717-036	**Basis:**	Dry
Extraction Method:	EPA 3540C	**Level:**	Low
Analysis Method:	8082		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Aroclor 1016	ND	U	0.43	0.056	5	08/11/06	08/15/06	KWG0613272	
Aroclor 1221	ND	U	0.85	0.056	5	08/11/06	08/15/06	KWG0613272	
Aroclor 1232	ND	U	0.43	0.056	5	08/11/06	08/15/06	KWG0613272	
Aroclor 1242	ND	U	0.43	0.056	5	08/11/06	08/15/06	KWG0613272	
Aroclor 1248	ND	U	0.43	0.056	5	08/11/06	08/15/06	KWG0613272	
Aroclor 1254	**0.26**	JD	0.43	0.056	5	08/11/06	08/15/06	KWG0613272	
Aroclor 1260	ND	Ui	0.43	0.16	5	08/11/06	08/15/06	KWG0613272	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Decachlorobiphenyl	92	33-153	08/15/06	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Geomatrix Consultants, Incorporated	**Service Request:**	K0606717
Project:	Former RP site/8769.006/2	**Date Collected:**	08/10/2006
Sample Matrix:	Soil	**Date Received:**	08/10/2006

Polychlorinated Biphenyls (PCBs)

Sample Name:	COMP-4-DUP	**Units:**	mg/Kg
Lab Code:	K0606717-037	**Basis:**	Dry
Extraction Method:	EPA 3540C	**Level:**	Low
Analysis Method:	8082		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Aroclor 1016	ND	U	0.43	0.056	5	08/11/06	08/15/06	KWG0613272	
Aroclor 1221	ND	U	0.85	0.056	5	08/11/06	08/15/06	KWG0613272	
Aroclor 1232	ND	U	0.43	0.056	5	08/11/06	08/15/06	KWG0613272	
Aroclor 1242	ND	U	0.43	0.056	5	08/11/06	08/15/06	KWG0613272	
Aroclor 1248	ND	U	0.43	0.056	5	08/11/06	08/15/06	KWG0613272	
Aroclor 1254	**0.30**	JD	0.43	0.056	5	08/11/06	08/15/06	KWG0613272	
Aroclor 1260	ND	Ui	0.43	0.14	5	08/11/06	08/15/06	KWG0613272	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Decachlorobiphenyl	112	33-153	08/15/06	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Geomatrix Consultants, Incorporated	**Service Request:**	K0606717
Project:	Former RP site/8769.006/2	**Date Collected:**	NA
Sample Matrix:	Soil	**Date Received:**	NA

Polychlorinated Biphenyls (PCBs)

Sample Name:	Method Blank	**Units:**	mg/Kg
Lab Code:	KWG0613272-4	**Basis:**	Dry
Extraction Method:	EPA 3540C	**Level:**	Low
Analysis Method:	8082		

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Aroclor 1016	ND	U	0.084	0.011	1	08/11/06	08/15/06	KWG0613272	
Aroclor 1221	ND	U	0.17	0.011	1	08/11/06	08/15/06	KWG0613272	
Aroclor 1232	ND	U	0.084	0.011	1	08/11/06	08/15/06	KWG0613272	
Aroclor 1242	ND	U	0.084	0.011	1	08/11/06	08/15/06	KWG0613272	
Aroclor 1248	ND	U	0.084	0.011	1	08/11/06	08/15/06	KWG0613272	
Aroclor 1254	ND	U	0.084	0.011	1	08/11/06	08/15/06	KWG0613272	
Aroclor 1260	ND	U	0.084	0.011	1	08/11/06	08/15/06	KWG0613272	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Decachlorobiphenyl	89	33-153	08/15/06	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Geomatrix Consultants, Incorporated
Project: Former RP site/8769.006/2
Sample Matrix: Water

Service Request: K0606717

Surrogate Recovery Summary
Polychlorinated Biphenyls (PCBs)

Extraction Method: EPA 3535
Analysis Method: 8082

Units: PERCENT
Level: Low

Sample Name	Lab Code	Sur1
ER-1	K0606717-038	81
Method Blank	KWG0613450-3	72
Lab Control Sample	KWG0613450-1	71
Duplicate Lab Control Sample	KWG0613450-2	70

Surrogate Recovery Control Limits (%)

Sur1 = Decachlorobiphenyl 10-144

Results flagged with an asterisk (*) indicate values outside control criteria.
Results flagged with a pound (#) indicate the control criteria is not applicable.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Geomatrix Consultants, Incorporated
Project: Former RP site/8769.006/2
Sample Matrix: Soil

Service Request: K0606717

Surrogate Recovery Summary
Polychlorinated Biphenyls (PCBs)

Extraction Method: EPA 3540C
Analysis Method: 8082

Units: PERCENT
Level: Low

Sample Name	Lab Code	Sur1
COMP-4	K0606717-036	92 D
COMP-4-DUP	K0606717-037	112 D
Method Blank	KWG0613272-4	89
COMP-4MS	KWG0613272-1	111 D
COMP-4DMS	KWG0613272-2	113 D
Lab Control Sample	KWG0613272-3	91

Surrogate Recovery Control Limits (%)

Sur1 = Decachlorobiphenyl 33-153

Results flagged with an asterisk (*) indicate values outside control criteria.
Results flagged with a pound (#) indicate the control criteria is not applicable.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client:	Geomatrix Consultants, Incorporated	**Service Request:**	K0606717
Project:	Former RP site/8769.006/2	**Date Extracted:**	08/11/2006
Sample Matrix:	Soil	**Date Analyzed:**	08/15/2006

Matrix Spike/Duplicate Matrix Spike Summary
Polychlorinated Biphenyls (PCBs)

Sample Name:	COMP-4	**Units:**	mg/Kg
Lab Code:	K0606717-036	**Basis:**	Dry
Extraction Method:	EPA 3540C	**Level:**	Low
Analysis Method:	8082	**Extraction Lot:**	KWG0613272

		COMP-4MS KWG0613272-1 Matrix Spike			COMP-4DMS KWG0613272-2 Duplicate Matrix Spike					
Analyte Name	**Sample Result**	**Result**	**Expected**	**%Rec**	**Result**	**Expected**	**%Rec**	**%Rec Limits**	**RPD**	**RPD Limit**
Aroclor 1016	ND	0.908	0.841	108	0.891	0.841	106	26-163	2	50
Aroclor 1260	ND	1.14	0.841	136	1.17	0.841	140	24-171	3	50

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client:	Geomatrix Consultants, Incorporated	**Service Request:**	K0606717
Project:	Former RP site/8769.006/2	**Date Extracted:**	08/16/2006
Sample Matrix:	Water	**Date Analyzed:**	08/16/2006

Lab Control Spike/Duplicate Lab Control Spike Summary
Polychlorinated Biphenyls (PCBs)

Extraction Method:	EPA 3535	**Units:**	ug/L
Analysis Method:	8082	**Basis:**	NA
		Level:	Low
		Extraction Lot:	KWG0613450

	Lab Control Sample KWG0613450-1 Lab Control Spike			Duplicate Lab Control Sample KWG0613450-2 Duplicate Lab Control Spike					
Analyte Name	**Result**	**Expected**	**%Rec**	**Result**	**Expected**	**%Rec**	**%Rec Limits**	**RPD**	**RPD Limit**
Aroclor 1016	1.30	2.00	65	1.19	2.00	60	50-125	9	30
Aroclor 1260	1.56	2.00	78	1.45	2.00	73	56-122	7	30

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client:	Geomatrix Consultants, Incorporated	**Service Request:**	K0606717
Project:	Former RP site/8769.006/2	**Date Extracted:**	08/11/2006
Sample Matrix:	Soil	**Date Analyzed:**	08/15/2006

Lab Control Spike Summary
Polychlorinated Biphenyls (PCBs)

Extraction Method:	EPA 3540C	**Units:**	mg/Kg
Analysis Method:	8082	**Basis:**	Dry
		Level:	Low
		Extraction Lot:	KWG0613272

	Lab Control Sample KWG0613272-3 Lab Control Spike			
Analyte Name	**Result**	**Expected**	**%Rec**	**%Rec Limits**
Aroclor 1016	0.849	1.00	85	39-145
Aroclor 1260	0.963	1.00	96	51-146

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Client:	Geomatrix Consultants, Incorporated	**Service Request:**	K0606717
Project:	Former RP site/8769.006/2	**Date Extracted:**	08/16/2006
Sample Matrix:	Water	**Date Analyzed:**	08/16/2006
		Time Analyzed:	23:04

Method Blank Summary
Polychlorinated Biphenyls (PCBs)

Sample Name:	Method Blank	**File ID:**	J:\GC09\DATA\081606.B\0816F015.D
Lab Code:	KWG0613450-3	**Instrument ID:**	GC09.i
Extraction Method:	EPA 3535	**Level:**	Low
Analysis Method:	8082	**Extraction Lot:**	KWG0613450

This Method Blank applies to the following analyses:

Sample Name	Lab Code	File ID	Date Analyzed	Time Analyzed
Lab Control Sample	KWG0613450-1	J:\GC09\DATA\081606.B\0816F016.D	08/16/06	23:30
Duplicate Lab Control Sample	KWG0613450-2	J:\GC09\DATA\081606.B\0816F017.D	08/16/06	23:57
ER-1	K0606717-038	J:\GC09\DATA\081606.B\0816F018.D	08/17/06	00:24

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client:	Geomatrix Consultants, Incorporated	**Service Request:**	K0606717
Project:	Former RP site/8769.006/2	**Date Extracted:**	08/11/2006
Sample Matrix:	Soil	**Date Analyzed:**	08/15/2006
		Time Analyzed:	09:44

Method Blank Summary
Polychlorinated Biphenyls (PCBs)

Sample Name:	Method Blank	**File ID:**	J:\GC09\DATA\081406A.B\0814F071.D
Lab Code:	KWG0613272-4	**Instrument ID:**	GC09.i
Extraction Method:	EPA 3540C	**Level:**	Low
Analysis Method:	8082	**Extraction Lot:**	KWG0613272

This Method Blank applies to the following analyses:

Sample Name	Lab Code	File ID	Date Analyzed	Time Analyzed
Lab Control Sample	KWG0613272-3	J:\GC09\DATA\081406A.B\0814F072.D	08/15/06	10:10
COMP-4	K0606717-036	J:\GC09\DATA\081506.B\0815F006.D	08/15/06	18:29
COMP-4MS	KWG0613272-1	J:\GC09\DATA\081506.B\0815F007.D	08/15/06	18:56
COMP-4DMS	KWG0613272-2	J:\GC09\DATA\081506.B\0815F008.D	08/15/06	19:23
COMP-4-DUP	K0606717-037	J:\GC09\DATA\081506.B\0815F009.D	08/15/06	19:49

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Geomatrix Consultants, Incorporated
Project: Former RP site/8769.006/2
Sample Matrix: Water

Service Request: K0606717

Lab Control Sample/Duplicate Lab Control Sample Summary
Polychlorinated Biphenyls (PCBs)

Sample Name:	Lab Control Sample	**Sample Name:**	Duplicate Lab Control Sample
Lab Code:	KWG0613450-1	**Lab Code:**	KWG0613450-2
File ID:	J:\GC09\DATA\081606.B\0816F016.D	**File ID:**	J:\GC09\DATA\081606.B\0816F017.D
Instrument ID:	GC09.i	**Instrument ID:**	GC09.i
Date Extracted:	08/16/2006	**Date Extracted:**	08/16/2006
Date Analyzed:	08/16/2006	**Date Analyzed:**	08/16/2006
Time Analyzed:	23:30	**Time Analyzed:**	23:57

Extraction Method:	EPA 3535	**Level:**	Low
Analysis Method:	8082	**Extraction Lot:**	KWG0613450

These Lab Control Samples apply to the following analyses:

Sample Name	Lab Code	File ID	Date Analyzed	Time Analyzed
Method Blank	KWG0613450-3	J:\GC09\DATA\081606.B\0816F015.D	08/16/06	23:04
ER-1	K0606717-038	J:\GC09\DATA\081606.B\0816F018.D	08/17/06	00:24

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client:	Geomatrix Consultants, Incorporated	**Service Request:**	K0606717
Project:	Former RP site/8769.006/2	**Date Extracted:**	08/11/2006
Sample Matrix:	Soil	**Date Analyzed:**	08/15/2006
		Time Analyzed:	10:10

Lab Control Sample Summary
Polychlorinated Biphenyls (PCBs)

Sample Name:	Lab Control Sample	**File ID:**	J:\GC09\DATA\081406A.B\0814F072.D
Lab Code:	KWG0613272-3	**Instrument ID:**	GC09.i
Extraction Method:	EPA 3540C	**Level:**	Low
Analysis Method:	8082	**Extraction Lot:**	KWG0613272

This Lab Control Sample applies to the following analyses:

Sample Name	Lab Code	File ID	Date Analyzed	Time Analyzed
Method Blank	KWG0613272-4	J:\GC09\DATA\081406A.B\0814F071.D	08/15/06	09:44
COMP-4	K0606717-036	J:\GC09\DATA\081506.B\0815F006.D	08/15/06	18:29
COMP-4MS	KWG0613272-1	J:\GC09\DATA\081506.B\0815F007.D	08/15/06	18:56
COMP-4DMS	KWG0613272-2	J:\GC09\DATA\081506.B\0815F008.D	08/15/06	19:23
COMP-4-DUP	K0606717-037	J:\GC09\DATA\081506.B\0815F009.D	08/15/06	19:49

1317 South 13th Avenue P.O. Box 479 Kelso, Washington 98626 (360) 577-7222 (360) 636-1068 fax

Columbia Analytical Services
An Employee - Owned Compar

GEOMATRIX Received AUG 28 2006 SEATTLE

August 22, 2006 , Service Request No: K0606980

John Long
Geomatrix Consultants, Incorporated
One Union Square
600 University Street, Suite 1020
Seattle, WA 98101

RE: Former RP site

Dear John:

Enclosed are the results of the sample(s) submitted to our laboratory on August 18, 2006. For your reference, these analyses have been assigned our service request number K0606980.

All analyses were performed according to our laboratory's quality assurance program. The test results meet requirements of the NELAC standards. Exceptions are noted in the case narrative report where applicable. All results are intended to be considered in their entirety, and Columbia Analytical Services, Inc. (CAS) is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report.

Please call if you have any questions. My extension is 3376. You may also contact me via Email at GSalata@kelso.caslab.com.

Respectfully submitted,

Columbia Analytical Services, Inc.

Gregory Salata, Ph.D.
Project Chemist

GS/jm

NELAP Accredited ACIL Seal of Excellence Award 100% Recycled

Acronyms

ASTM	American Society for Testing and Materials
A2LA	American Association for Laboratory Accreditation
CARB	California Air Resources Board
CAS Number	Chemical Abstract Service registry Number
CFC	Chlorofluorocarbon
CFU	Colony-Forming Unit
DEC	Department of Environmental Conservation
DEQ	Department of Environmental Quality
DHS	Department of Health Services
DOE	Department of Ecology
DOH	Department of Health
EPA	U. S. Environmental Protection Agency
ELAP	Environmental Laboratory Accreditation Program
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
LUFT	Leaking Underground Fuel Tank
M	Modified
MCL	Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA.
MDL	Method Detection Limit
MPN	Most Probable Number
MRL	Method Reporting Limit
NA	Not Applicable
NC	Not Calculated
NCASI	National Council of the Paper Industry for Air and Stream Improvement
ND	Not Detected
NIOSH	National Institute for Occupational Safety and Health
PQL	Practical Quantitation Limit
RCRA	Resource Conservation and Recovery Act
SIM	Selected Ion Monitoring
TPH	Total Petroleum Hydrocarbons
tr	Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL.

Inorganic Data Qualifiers

*	The result is an outlier. See case narrative.
#	The control limit criteria is not applicable. See case narrative.
B	The analyte was found in the associated method blank at a level that is significant relative to the sample result.
E	The result is an estimate amount because the value exceeded the instrument calibration range.
J	The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.
U	The compound was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
i	The MRL/MDL has been elevated due to a matrix interference.
X	See case narrative.

Metals Data Qualifiers

#	The control limit criteria is not applicable. See case narrative.
B	The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.
E	The percent difference for the serial dilution was greater than 10%, indicating a possible matrix interference in the sample.
M	The duplicate injection precision was not met.
N	The Matrix Spike sample recovery is not within control limits. See case narrative.
S	The reported value was determined by the Method of Standard Additions (MSA).
U	The compound was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
W	The post-digestion spike for furnace AA analysis is out of control limits, while sample absorbance is less than 50% of spike absorbance.
i	The MRL/MDL has been elevated due to a matrix interference.
X	See case narrative.
*	The duplicate analysis not within control limits. See case narrative.
+	The correlation coefficient for the MSA is less than 0.995.

Organic Data Qualifiers

*	The result is an outlier. See case narrative.
#	The control limit criteria is not applicable. See case narrative.
A	A tentatively identified compound, a suspected aldol-condensation product.
B	The analyte was found in the associated method blank at a level that is significant relative to the sample result.
C	The analyte was qualitatively confirmed using GC/MS techniques, pattern recognition, or by comparing to historical data.
D	The reported result is from a dilution.
E	The result is an estimate amount because the value exceeded the instrument calibration range.
J	The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.
N	The result is presumptive. The analyte was tentatively identified, but a confirmation analysis was not performed.
P	The GC or HPLC confirmation criteria was exceeded. The relative percent difference is greater than 40% between the two analytical results (25% for CLP Pesticides).
U	The compound was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
i	The MRL/MDL has been elevated due to a chromatographic interference.
X	See case narrative.

Additional Petroleum Hydrocarbon Specific Qualifiers

F	The chromatographic fingerprint of the sample matches the elution pattern of the calibration standard.
L	The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of lighter molecular weight constituents than the calibration standard.
H	The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of heavier molecular weight constituents than the calibration standard.
O	The chromatographic fingerprint of the sample resembles an oil, but does not match the calibration standard.
Y	The chromatographic fingerprint of the sample resembles a petroleum product eluting in approximately the correct carbon range, but the elution pattern does not match the calibration standard.
Z	The chromatographic fingerprint does not resemble a petroleum product.

Case Narrative

COLUMBIA ANALYTICAL SERVICES, INC.

Client:	Geomatrix Consultants, Inc.	**Service Request No.:**	K0606980
Project:	Former RP Site	**Date Received:**	08/18/06
Sample Matrix:	Soil		

CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of Columbia Analytical Services, Inc. (CAS). This report contains analytical results for samples designated for Tier III validation deliverables including summary forms and all of the associated raw data for each of the analyses. When appropriate to the method, method blank results have been reported with each analytical test.

Sample Receipt

Thirty-six soil samples were received for analysis at Columbia Analytical Services on 08/18/06. The samples were received in good condition and consistent with the accompanying chain of custody form. The samples were stored in a refrigerator at 4°C upon receipt at the laboratory. As instructed, the composite sample was processed using a shatter box per the QAPP prior to analysis.

Total Metals

No anomalies associated with the analysis of these samples were observed.

Approved by _____ Date 8/24/06

Chain of Custody Documentation

K0606980 SEA 10192

CHAIN-OF-CUSTODY RECORD

PROJECT NAME: Former Rhone Poulenc - East Parcel			DATE: 8/17/06 PAGE 1 OF 3
PROJECT NUMBER: 8769.006/2	LABORATORY NAME: Columbia Analytical	CLIENT INFORMATION:	REPORTING REQUIREMENTS:
RESULTS TO: Larry McGaughey	LABORATORY ADDRESS: 1317 S. 13th Ave	Centennial Properties	
TURNAROUND TIME: 2-day	Kelso, WA 98626		
SAMPLE SHIPMENT METHOD: Courier	LABORATORY CONTACT: Greg Salata		GEOTRACKER REQUIRED YES NO
	LABORATORY PHONE NUMBER: (360) 577-7222		SITE SPECIFIC GLOBAL ID NO.

SAMPLERS (SIGNATURE):

ANALYSES: Copper

DATE	TIME	SAMPLE NUMBER	CONTAINER TYPE AND SIZE	Soil (S), Water (W), Vapor (V), or Other (O)	Filtered	Preservative Type	Cooled	MS/MSD	No. of Containers	ADDITIONAL COMMENTS
8/17/06	1526	COMP-S-1A	1x20z jar	S					1	
	1531	COMP-S-2A								
	1535	COMP-S-3A								
	1540	COMP-S-4A								
	1638	COMP-S-5A								
	1637	COMP-S-6A								
	1636	COMP-S-7A								
	1529	COMP-S-8A								
	1533	COMP-S-9A								
	1537	COMP-S-10A								
	1541	COMP-S-11A								
	1639	COMP-S-12A								
	1528	COMP-S-13A								
	1532	COMP-S-14A								
	1536	COMP-S-15A								

RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME
SIGNATURE:			SIGNATURE:		
PRINTED NAME: Joanna Marsolek	8/17/06	1652	PRINTED NAME:	8/18/06	1000
COMPANY: Geomatrix			COMPANY: CAS		
SIGNATURE:			SIGNATURE:		
PRINTED NAME:			PRINTED NAME:		
COMPANY:			COMPANY:		
SIGNATURE:			SIGNATURE:		
PRINTED NAME:			PRINTED NAME:		
COMPANY:			COMPANY:		

TOTAL NUMBER OF CONTAINERS:

SAMPLING COMMENTS: Please grind sample COMP-5 in accordance w/ QAPP/SOP prior to analysis. Hold all "A" sample volume.

One Union Square, 600 University Street, Suite 1020
Seattle, Washington 98101-4107
Tel 206.342.1760 Fax 206.342.1761
Geomatrix

CHAIN-OF-CUSTODY RECORD

SEA 10193

PROJECT NAME: Former Rhone Poulenc - East Parcel		DATE: 8/17/06	PAGE 2 OF 3
PROJECT NUMBER: 8769.006/2	LABORATORY NAME: Columbia Analytical	CLIENT INFORMATION:	REPORTING REQUIREMENTS:
RESULTS TO: Larry McGaughey	LABORATORY ADDRESS: 1317 S. 13th Ave	Container Properties	
TURNAROUND TIME: 2-day	Kelso, WA 98626		
SAMPLE SHIPMENT METHOD: courier	LABORATORY CONTACT: Greg Salata		GEOTRACKER REQUIRED YES NO
	LABORATORY PHONE NUMBER: (360) 577 7222		SITE SPECIFIC GLOBAL ID NO.

SAMPLERS (SIGNATURE):

ANALYSES

DATE	TIME	SAMPLE NUMBER	Copper	CONTAINER TYPE AND SIZE	Soil (S), Water (W), Vapor (V), or Other (O)	Filtered	Preservative Type	Cooled	MS/MSD	No. of Containers	ADDITIONAL COMMENTS
8/17/06	1539	COMP-S-16A		2 oz jar	S					1	
	1542	COMP-S-17A									
	1543	COMP-S-18A									
	1544	COMP-S-19A									
	1635	COMP-S-20A									
	1634	COMP-S-21A									
	1633	COMP-S-22A									
	1632	COMP-S-23A									
	1630	COMP-S-24A									
	1628	COMP-S-25A									
	1627	COMP-S-26A									
	1626	COMP-S-27A									
	1624	COMP-S-28A									
	1623	COMP-S-29A									
	1622	COMP-S-30A									

RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME
SIGNATURE: [signature]	8/17/06	1652	SIGNATURE: A. Juell	8/18/06	1000
PRINTED NAME: Joanne Marsolek			PRINTED NAME: Juell		
COMPANY: Geomatrix			COMPANY: CAS		
SIGNATURE:			SIGNATURE:		
PRINTED NAME:			PRINTED NAME:		
COMPANY:			COMPANY:		
SIGNATURE:			SIGNATURE:		
PRINTED NAME:			PRINTED NAME:		
COMPANY:			COMPANY:		

TOTAL NUMBER OF CONTAINERS:

SAMPLING COMMENTS: See p. 1

One Union Square, 600 University Street, Suite 1020
Seattle, Washington 98101-4107
Tel 206.342.1760 Fax 206.342.1761

Geomatrix

8 0000

CHAIN-OF-CUSTODY RECORD

SEA 10194

PROJECT NAME: Fomer Rhone Poulenc- East Parcel			DATE: 8/17/06 PAGE 3 OF 3
PROJECT NUMBER: 8769.006/2	LABORATORY NAME: Columbia Analytical	CLIENT INFORMATION:	REPORTING REQUIREMENTS:
RESULTS TO: Lamy McGaughey	LABORATORY ADDRESS: 1317 S. 13th Ave	Container Properties	
TURNAROUND TIME: 2-day	Kelso, WA 98626		
SAMPLE SHIPMENT METHOD: Courier	LABORATORY CONTACT: Greg Salata		GEOTRACKER REQUIRED YES NO
	LABORATORY PHONE NUMBER: (360) 577-7222		SITE SPECIFIC GLOBAL ID NO.

SAMPLERS (SIGNATURE):

ANALYSES: Copper

DATE	TIME	SAMPLE NUMBER	Copper	CONTAINER TYPE AND SIZE	Soil (S), Water (W), Vapor (V), or Other (O)	Filtered	Preservative Type	Cooled	MS/MSD	No. of Containers	ADDITIONAL COMMENTS
8/17/06	1621	COMP-S-31A		2 oz jar	S					1	
	1619	COMP-S-32A									
	1614	COMP-S-33A									
	1615	COMP-S-34A									
	1617	COMP-S-35A									
	1639	COMP-S	X	1 gal bucket							

RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME	TOTAL NUMBER OF CONTAINERS:
SIGNATURE:	8/17/06	1652	SIGNATURE:	8/18/06	1000	SAMPLING COMMENTS: See p. 1
PRINTED NAME: Joanna Marsh			PRINTED NAME:			
COMPANY: Geomatrix			COMPANY: CAS			
SIGNATURE:			SIGNATURE:			
PRINTED NAME:			PRINTED NAME:			
COMPANY:			COMPANY:			
SIGNATURE:			SIGNATURE:			
PRINTED NAME:			PRINTED NAME:			
COMPANY:			COMPANY:			

One Union Square, 600 University Street, Suite 1020
Seattle, Washington 98101-4107
Tel 206.342.1760 Fax 206.342.1761
Geomatrix

6,000

Columbia Analytical Services Inc.
Cooler Receipt and Preservation Form

PC Greg

Project/Client Geomatrix Service Request K06 06980

Cooler received on 8/18/06 and opened on 8/18/06 by [illegible]

1. Were custody seals on outside of coolers? Y N
   If yes, how many and where? _____
2. Were custody seals intact? Y N
3. Were signature and date present on the custody seals? Y N
4. Is the shipper's airbill available and filed? If no, record airbill number: _____ Y N
5. COC#

Temperature of cooler(s) upon receipt: (°C)	2.7			
Temperature Blank: (°C)	Na			

Were samples hand delivered on the same day as collection? Y N

6. Were custody papers properly filled out (ink, signed, etc.)? Y N
7. Type of packing material present ice-cardboard-bmap
8. **Did all bottles arrive in good condition (unbroken)?** Y N
9. Were all bottle labels complete (i.e analysis, preservation, etc.)? Y N
10. Did all bottle labels and tags agree with custody papers? Y N
11. **Were the correct types of bottles used for the tests indicated?** Y N
12. Were all of the preserved bottles received at the lab with the appropriate pH? ~~Y~~ N
13. Were VOA vials checked for absence of air bubbles, and if present, noted below? ~~Y~~ N
14. Were the 1631 Mercury bottles checked for absence of air bubbles, and if present, noted below? ~~Y~~ N
15. Did the bottles originate from CAS/K or a branch laboratory? Y N
16. **Are CWA Microbiology samples received with >1/2 the 24hr. hold time remaining from collection?** ~~Y~~ N
17. Was C12/Res negative? Y ~~N~~

Explain any discrepancies: _____

RESOLUTION: _____

Samples that required preservation or received out of temperature:

Sample ID	Reagent	Volume	Lot Number	Bottle Type	Rec'd out of Temperature	Initials

Total Solids

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Geomatrix Consultants, Incorporated	**Service Request:**	K0606980
Project:	Former RP site		
Sample Matrix:	Soil		

Total Solids

Prep Method:	NONE	**Units:**	PERCENT
Analysis Method:	160.3M	**Basis:**	Wet
Test Notes:			

Sample Name	Lab Code	Date Collected	Date Received	Date Analyzed	Result	Result Notes
COMP-5	K0606980-036	08/17/2006	08/18/2006	08/18/2006	79.1	

00012

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client:	Geomatrix Consultants, Incorporated	**Service Request:**	K0606980
Project:	Former RP site	**Date Collected:**	08/17/2006
Sample Matrix:	Soil	**Date Received:**	08/18/2006
		Date Analyzed:	08/18/2006

Duplicate Sample Summary
Total Solids

Prep Method:	NONE	**Units:**	PERCENT
Analysis Method:	160.3M	**Basis:**	Wet
Test Notes:			

Sample Name	Lab Code	Sample Result	Duplicate Sample Result	Average	Relative Percent Difference	Result Notes
COMP-5	K0606980-036	79.1	77.4	78.3	2	

00013

Metals

METALS

- Cover Page -
INORGANIC ANALYSIS DATA PACKAGE

Client: Geomatrix Consultants, Incorporated Service Request: K0606980

Project No.:

Project Name: Former RP site

Sample No.	Lab Sample ID.
COMP-5	K0606980-036
COMP-5D	K0606980-036D
COMP-5S	K0606980-036S
Method Blank	K0606980-MB

Were ICP interelement corrections applied? Yes/No YES

Were ICP background corrections applied? Yes/No YES

If yes-were raw data generated before application of background corrections? Yes/No NO

Comments:

Signature: [illegible] Date: 8/22/06

METALS

-1-

INORGANIC ANALYSIS DATA SHEET

Client:	Geomatrix Consultants, Incorporated	Service Request:	K0606980
Project No.:	NA	Date Collected:	08/17/06
Project Name:	Former RP site	Date Received:	08/18/06
Matrix:	SOIL	Units:	mg/kg
		Basis:	Dry

Sample Name: COMP-5 Lab Code: K0606980-036

Analyte	Analysis Method	MRL	MDL	Dil.	Date Extracted	Date Analyzed	Result	C	Q
Copper	6020	0.11	0.06	5	08/21/06	08/22/06	25.8		

% Solids: 79.1

Comments:

METALS

-1-

INORGANIC ANALYSIS DATA SHEET

Client:	Geomatrix Consultants, Incorporated	Service Request:	K0606980
Project No.:	NA	Date Collected:	NA
Project Name:	Former RP site	Date Received:	NA
Matrix:	SOIL	Units:	mg/kg
		Basis:	Dry

Sample Name: Method Blank Lab Code: K0606980-MB

Analyte	Analysis Method	MRL	MDL	Dil.	Date Extracted	Date Analyzed	Result	C	Q
Copper	6020	0.10	0.06	5	08/21/06	08/22/06	0.06	U	

% Solids: 100.0

Comments:

METALS
- 2a -
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Geomatrix Consultants, Incorporated Service Request: K0606980

Project No.:

Project Name: Former RP site

ICV Source: Inorganic Ventures CCV Source: Various

Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration					Method
	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Copper	12.5	13.3	106	25.0	25.2	101	25.5	102	6020

METALS
- 2b -
CRDL STANDARD FOR AA AND ICP

Client: Geomatrix Consultants, Incorporated

Service Request: K0606980

Project No.:

Project Name: Former RP site

Concentration Units: ug/L

Analyte	CRDL Standard for AA			CRDL Standard for ICP				
				Initial			Final	
	True	Found	%R	True	Found	%R	Found	%R
Copper				0.20	0.25	123		

00033

METALS
-3-
BLANKS

Client: Geomatrix Consultants, Incorporated

Service Request: K0606980

Project No.:

Project Name: Former RP site

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C		Preparation Blank C			Method
Copper	0.12	U	0.12	U	0.12	U							6020

METALS

-4-

ICP INTERFERENCE CHECK SAMPLE

Client: Geomatrix Consultants, Incorporated

Service Request: K0606980

Project No.:

Project Name: Former RP site

ICP ID Number: X Series

ICS Source: Inorganic Ventures

Concentration Units): ug/L

Analyte	True		Initial Found			Final Found		
	Sol.A	Sol.AB	Sol.A	Sol.AB	%R	Sol.A	Sol.AB	%R
Copper		20	0.35	22.3	112			

METALS
- 5a -
SPIKE SAMPLE RECOVERY

Client: Geomatrix Consultants, Incorporated
Service Request: K0606980
Project No.:
Units: mg/kg
Project Name: Former RP site
Basis: Dry
Matrix: SOIL
% Solids: 79.1

Sample Name: COMP-5S
Lab Code: K0606980-036S

Analyte	Control Limit %R	Spike Result	C	Sample Result	C	Spike Added	%R	Q	Method
Copper	52 - 153	79.7		25.8		52.7	102		6020

An empty field in the Control Limit column indicates the control limit is not applicabl

METALS
- 5b -
POST DIGEST SPIKE SAMPLE RECOVERY

Client: Geomatrix Consultants, Incorporated

Service Request: K0606980

Project No.:

Units: ug/L

Project Name: Former RP site

Matrix: SOIL

Sample Name: COMP-5A

Lab Code: K0606980-036A

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Copper	75-125	72.0		49.0		20.0	115		MS

mments:

METALS
-6-
DUPLICATES

Client: Geomatrix Consultants, Incorporated
Service Request: K0606980
Project No.:
Units: mg/kg
Project Name: Former RP site
Basis: Dry
Matrix: SOIL
% Solids: 79.1

Sample Name: COMP-5D
Lab Code: K0606980-036D

Analyte	Control Limit (%)	Sample (S)	C	Duplicate (D)	C	RPD	Q	Method
Copper	30	25.8		26.5		3		6020

An empty field in the Control Limit column indicates the control limit is not applicabl

METALS

-7-

LABORATORY CONTROL SAMPLE

Client: Geomatrix Consultants, Incorporated Service Request: K0606980

Project No.:

Project Name: Former RP site

Aqueous LCS Source: Inorganic Ventures Solid LCS Source: ERA Lot #246

Analyte	Aqueous mg/L True	Aqueous mg/L Found	Aqueous mg/L %R	Solid (mg/kg) True	Solid (mg/kg) Found	Solid (mg/kg) C	Solid (mg/kg) Limits		Solid (mg/kg) %R
Copper				67.0	69.0		53.8	80.2	103

METALS
-9-
ICP SERIAL DILUTIONS

Client: Geomatrix Consultants, Incorporated

Service Request: K0606980

Project No.:

Units: ug/L

Project Name: Former RP site

Sample Name: COMP-5L

Lab Code: K0606980-036L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	Method
Copper	49.0		50.7		3		6020

00040

1317 South 13th Avenue P.O. Box 479 Kelso, Washington 98626 (360) 577-7222 (360) 636-1068 fax

Columbia Analytical Services
An Employee - Owned Compar

GEOMATRIX Received AUG 28 2006 SEATTLE

August 24, 2006

Service Request No: K0607044

John Long
Geomatrix Consultants, Incorporated
One Union Square
600 University Street, Suite 1020
Seattle, WA 98101

RE: Former RP site/8769.006/2

Dear John:

Enclosed are the results of the rush sample(s) submitted to our laboratory on August 21, 2006. For your reference, these analyses have been assigned our service request number K0607044.

All analyses were performed according to our laboratory's quality assurance program. The test results meet requirements of the NELAC standards. Exceptions are noted in the case narrative report where applicable. All results are intended to be considered in their entirety, and Columbia Analytical Services, Inc. (CAS) is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report.

Please call if you have any questions. My extension is 3376. You may also contact me via Email at GSalata@kelso.caslab.com.

Respectfully submitted,

Columbia Analytical Services, Inc.

Gregory Salata, Ph.D.
Project Chemist

GS/jm

NELAP Accredited ACIL Seal of Excellence Award 100% Recycled

Acronyms

ASTM	American Society for Testing and Materials
A2LA	American Association for Laboratory Accreditation
CARB	California Air Resources Board
CAS Number	Chemical Abstract Service registry Number
CFC	Chlorofluorocarbon
CFU	Colony-Forming Unit
DEC	Department of Environmental Conservation
DEQ	Department of Environmental Quality
DHS	Department of Health Services
DOE	Department of Ecology
DOH	Department of Health
EPA	U. S. Environmental Protection Agency
ELAP	Environmental Laboratory Accreditation Program
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
LUFT	Leaking Underground Fuel Tank
M	Modified
MCL	Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA.
MDL	Method Detection Limit
MPN	Most Probable Number
MRL	Method Reporting Limit
NA	Not Applicable
NC	Not Calculated
NCASI	National Council of the Paper Industry for Air and Stream Improvement
ND	Not Detected
NIOSH	National Institute for Occupational Safety and Health
PQL	Practical Quantitation Limit
RCRA	Resource Conservation and Recovery Act
SIM	Selected Ion Monitoring
TPH	Total Petroleum Hydrocarbons
tr	Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL.

Inorganic Data Qualifiers

*	The result is an outlier. See case narrative.
#	The control limit criteria is not applicable. See case narrative.
B	The analyte was found in the associated method blank at a level that is significant relative to the sample result.
E	The result is an estimate amount because the value exceeded the instrument calibration range.
J	The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.
U	The compound was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
i	The MRL/MDL has been elevated due to a matrix interference.
X	See case narrative.

Metals Data Qualifiers

#	The control limit criteria is not applicable. See case narrative.
B	The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.
E	The percent difference for the serial dilution was greater than 10%, indicating a possible matrix interference in the sample.
M	The duplicate injection precision was not met.
N	The Matrix Spike sample recovery is not within control limits. See case narrative.
S	The reported value was determined by the Method of Standard Additions (MSA).
U	The compound was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
W	The post-digestion spike for furnace AA analysis is out of control limits, while sample absorbance is less than 50% of spike absorbance.
i	The MRL/MDL has been elevated due to a matrix interference.
X	See case narrative.
*	The duplicate analysis not within control limits. See case narrative.
+	The correlation coefficient for the MSA is less than 0.995.

Organic Data Qualifiers

*	The result is an outlier. See case narrative.
#	The control limit criteria is not applicable. See case narrative.
A	A tentatively identified compound, a suspected aldol-condensation product.
B	The analyte was found in the associated method blank at a level that is significant relative to the sample result.
C	The analyte was qualitatively confirmed using GC/MS techniques, pattern recognition, or by comparing to historical data.
D	The reported result is from a dilution.
E	The result is an estimate amount because the value exceeded the instrument calibration range.
J	The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.
N	The result is presumptive. The analyte was tentatively identified, but a confirmation analysis was not performed.
P	The GC or HPLC confirmation criteria was exceeded. The relative percent difference is greater than 40% between the two analytical results (25% for CLP Pesticides).
U	The compound was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
i	The MRL/MDL has been elevated due to a chromatographic interference.
X	See case narrative.

Additional Petroleum Hydrocarbon Specific Qualifiers

F	The chromatographic fingerprint of the sample matches the elution pattern of the calibration standard.
L	The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of lighter molecular weight constituents than the calibration standard.
H	The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of heavier molecular weight constituents than the calibration standard.
O	The chromatographic fingerprint of the sample resembles an oil, but does not match the calibration standard.
Y	The chromatographic fingerprint of the sample resembles a petroleum product eluting in approximately the correct carbon range, but the elution pattern does not match the calibration standard.
Z	The chromatographic fingerprint does not resemble a petroleum product.

Case Narrative

COLUMBIA ANALYTICAL SERVICES, INC.

Client:	Geomatrix Consultants, Inc.	**Service Request No.:**	K0607044
Project:	Former RP Site/8769.006/2	**Date Received:**	08/21/06
Sample Matrix:	Soil		

CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of Columbia Analytical Services, Inc. (CAS). This report contains analytical results for samples designated for Tier III validation deliverables including summary forms and all of the associated raw data for each of the analyses. When appropriate to the method, method blank results have been reported with each analytical test.

Sample Receipt

Thirty-six soil samples were received for analysis at Columbia Analytical Services on 08/21/06. The samples were received in good condition and consistent with the accompanying chain of custody form. The samples were stored in a refrigerator at 4°C upon receipt at the laboratory. The composite sample was processed with a shatter box per the project QAPP prior to digestion for metals analysis.

Total Metals

No anomalies associated with the analysis of these samples were observed.

Approved by [signature] Date 8/25/06

Chain of Custody Documentation

CHAIN-OF-CUSTODY RECORD

SEA 10275

PROJECT NAME: Former Rhone-Poulenc - East Parcel			DATE: 8/19/06 PAGE 1 OF 3
PROJECT NUMBER: 8769.006/2	LABORATORY NAME: Columbia Analytical	CLIENT INFORMATION:	REPORTING REQUIREMENTS:
RESULTS TO: Larry McGaughey	LABORATORY ADDRESS: 1317 S. 13th Ave	Container Properties	
TURNAROUND TIME: 2-day	Kelso, WA 98626		
SAMPLE SHIPMENT METHOD: Courier	LABORATORY CONTACT: Greg Salada		GEOTRACKER REQUIRED YES NO
	LABORATORY PHONE NUMBER: (360) 577-7222		SITE SPECIFIC GLOBAL ID NO.

SAMPLERS (SIGNATURE):

ANALYSES: Copper

DATE	TIME	SAMPLE NUMBER	Copper	CONTAINER TYPE AND SIZE	Soil (S), Water (W), Vapor (V), or Other (O)	Filtered	Preservative Type	Cooled	MS/MSD	No. of Containers	ADDITIONAL COMMENTS
8/19/06	408	MAINT-S-1A	X	4 oz. jar	S					1	
	1405	MAINT-S-2A	X								
	1005	MAINT-S-3A	X								
	1000	MAINT-S-4A	X								
	1411	MAINT-S-5A	X								
	1015	MAINT-S-6A	PH (Do not run unless asked to do so, please hold)								
	1012	MAINT-S-7A									
	1008	MAINT-S-8A									
	1339	MAINT-S-9A									
	1024	MAINT-S-10A									
	1018	MAINT-S-11A									
	1335	MAINT-S-12A									
	1029	MAINT-S-13A									
	11[illegible]	MAINT-S-14A									
	1109	MAINT-S-15A									

RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME
SIGNATURE: [signature]	8/19/06	1645	SIGNATURE: [signature]	8/21/06	1000
PRINTED NAME: Pat Hsieh			PRINTED NAME: Black		
COMPANY: Geomatrix			COMPANY: CAL		
SIGNATURE:			SIGNATURE:		
PRINTED NAME:			PRINTED NAME:		
COMPANY:			COMPANY:		
SIGNATURE:			SIGNATURE:		
PRINTED NAME:			PRINTED NAME:		
COMPANY:			COMPANY:		

TOTAL NUMBER OF CONTAINERS:

SAMPLING COMMENTS: Please grind sample "MAINT-S" prior to analysis in accordance with QAPP + SOP. Please hold all "A" sample volume. Until otherwise asked to do so.

One Union Square, 600 University Street, Suite 1020
Seattle, Washington 98101-4107
Tel 206.342.1760 Fax 206.342.1761
Geomatrix

000027

CHAIN-OF-CUSTODY RECORD

SEA 10276

PROJECT NAME: Former Rhone-Poulenc - East Parcel		DATE: 8/19/06	PAGE 2 OF 3
PROJECT NUMBER: 8769.006/2	LABORATORY NAME: Columbia Analytical	CLIENT INFORMATION:	REPORTING REQUIREMENTS:
RESULTS TO: Larry McGaughey	LABORATORY ADDRESS: 1317 S. 13th Ave	Container Properties	
TURNAROUND TIME: 2-day	Kelso, WA 98626		
SAMPLE SHIPMENT METHOD: Courier	LABORATORY CONTACT: Greg Salada		GEOTRACKER REQUIRED YES NO
	LABORATORY PHONE NUMBER: (360) 577-7222		SITE SPECIFIC GLOBAL ID NO.

SAMPLERS (SIGNATURE):

ANALYSES: Chlorpyr

DATE	TIME	SAMPLE NUMBER	CONTAINER TYPE AND SIZE	Soil (S), Water (W), Vapor (V), or Other (O)	Filtered	Preservative Type	Cooled	MS/MSD	No. of Containers	ADDITIONAL COMMENTS
8/19/06	1231	MAINT-S-16A	4 oz. jar	S					1	
	1115	MAINT-S-17A								
	1118	MAINT-S-18A								
	1121	MAINT-S-19A								
	1123	MAINT-S-20A								
	1126	MAINT-S-21A								
	1129	MAINT-S-22A								
	1132	MAINT-S-23A								
	1135	MAINT-S-24A								
	1138	MAINT-S-25A								
	1140	MAINT-S-26A								
	1143	MAINT-S-27A								
	1145	MAINT-S-28A								
	1148	MAINT-S-29A								
	1151	MAINT-S-30A								

RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME
SIGNATURE: Pat Hsieh	8/19/06	1645	SIGNATURE: Tracy Black	8/21/06	1000
PRINTED NAME: Pat Hsieh			PRINTED NAME: Tracy Black		
COMPANY: Geomatrix			COMPANY: CAL		
SIGNATURE:			SIGNATURE:		
PRINTED NAME:			PRINTED NAME:		
COMPANY:			COMPANY:		
SIGNATURE:			SIGNATURE:		
PRINTED NAME:			PRINTED NAME:		
COMPANY:			COMPANY:		

TOTAL NUMBER OF CONTAINERS:

SAMPLING COMMENTS: See p. 1

One Union Square, 600 University Street, Suite 1020
Seattle, Washington 98101-4107
Tel 206.342.1760 Fax 206.342.1761
Geomatrix

00008

CHAIN-OF-CUSTODY RECORD

SEA 10277

PROJECT NAME: Former Rhone-Poulenc East Parcel			DATE: 8/19/06 PAGE 3 OF 3
PROJECT NUMBER: 8769.006/2	LABORATORY NAME: Columbia Analytical	CLIENT INFORMATION:	REPORTING REQUIREMENTS:
RESULTS TO: Larry McGaughey	LABORATORY ADDRESS: 1317 S. 13th Ave Kelso, WA 98626	Container Properties	
TURNAROUND TIME: 2-day			
SAMPLE SHIPMENT METHOD: Courier	LABORATORY CONTACT: Greg Salata		GEOTRACKER REQUIRED YES NO
	LABORATORY PHONE NUMBER: (360) 577-7222		SITE SPECIFIC GLOBAL ID NO.

SAMPLERS (SIGNATURE):

DATE	TIME	SAMPLE NUMBER	ANALYSES: Copper	CONTAINER TYPE AND SIZE	Soil (S), Water (W), Vapor (V), or Other (O)	Filtered	Preservative Type	Cooled	MS/MSD	No. of Containers	ADDITIONAL COMMENTS
8/19/06	1155	MAINT-S-31A		8 oz jar	S					1	
	1157	MAINT-S-32A									
	1218	MAINT-S-33A									
	1221	MAINT-S-34A									
	1450	MAINT-S-35A									
	1451	MAINT-S	X	1-gal. bucket							

8/19/06 [illegible]

RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME
SIGNATURE: [illegible]	8/19/06	1645	SIGNATURE: [illegible]	8/21/06	1000
PRINTED NAME: Pat Hsieh			PRINTED NAME: Blaylock		
COMPANY: Geomatrix			COMPANY: CAL		
SIGNATURE:			SIGNATURE:		
PRINTED NAME:			PRINTED NAME:		
COMPANY:			COMPANY:		
SIGNATURE:			SIGNATURE:		
PRINTED NAME:			PRINTED NAME:		
COMPANY:			COMPANY:		

TOTAL NUMBER OF CONTAINERS:

SAMPLING COMMENTS: See p. 1

One Union Square, 600 University Street, Suite 1020
Seattle, Washington 98101-4107
Tel 206.342.1760 Fax 206.342.1761
Geomatrix

00009

Columbia Analytical Services Inc.
Cooler Receipt and Preservation Form

PC Greg

Project/Client GEOMATRIX Service Request K06 07044

Cooler received on 8/21/06 and opened on 8/21/06 by AP

1. Were custody seals on outside of coolers? Y N
   If yes, how many and where? 1F
2. Were custody seals intact? Y N
3. Were signature and date present on the custody seals? Y N
4. Is the shipper's airbill available and filed? If no, record airbill number: _____ Y N
5. COC#
   Temperature of cooler(s) upon receipt: (°C) 8.1
   Temperature Blank: (°C) NP
   Were samples hand delivered on the same day as collection? ~~Y N~~
6. Were custody papers properly filled out (ink, signed, etc.)? Y N
7. Type of packing material present Bubble, CARDBOARD
8. **Did all bottles arrive in good condition (unbroken)?** Y N
9. Were all bottle labels complete (i.e analysis, preservation, etc.)? Y N
10. Did all bottle labels and tags agree with custody papers? Y N
11. **Were the correct types of bottles used for the tests indicated?** Y N
12. Were all of the preserved bottles received at the lab with the appropriate pH? ~~Y N~~
13. Were VOA vials checked for absence of air bubbles, and if present, noted below? Y N
14. Were the 1631 Mercury bottles checked for absence of air bubbles, and if present, noted below? Y N
15. Did the bottles originate from CAS/K or a branch laboratory? Y N
16. **Are CWA Microbiology samples received with >1/2 the 24hr. hold time remaining from collection?** ~~Y N~~
17. Was C12/Res negative? Y N

Explain any discrepancies: NO ID ON BUCKET

RESOLUTION: _____

Samples that required preservation or received out of temperature:

Sample ID	Reagent	Volume	Lot Number	Bottle Type	Rec'd out of Temperature	Initials

Total Solids

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Geomatrix Consultants, Incorporated
Project: Former RP site/8769.006/2
Sample Matrix: Soil

Service Request: K0607044

Total Solids

Prep Method: NONE
Analysis Method: 160.3M
Test Notes:

Units: PERCENT
Basis: Wet

Sample Name	Lab Code	Date Collected	Date Received	Date Analyzed	Result	Result Notes
MAINT-5	K0607044-036	08/19/2006	08/21/2006	08/22/2006	88.6	

00012

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client:	Geomatrix Consultants, Incorporated	**Service Request:**	K0607044
Project:	Former RP site/8769.006/2	**Date Collected:**	08/19/2006
Sample Matrix:	Soil	**Date Received:**	08/21/2006
		Date Analyzed:	08/22/20(

Duplicate Sample Summary
Total Solids

Prep Method:	NONE	**Units:**	PERCENT
Analysis Method:	160.3M	**Basis:**	Wet
Test Notes:			

Sample Name	Lab Code	Sample Result	Duplicate Sample Result	Average	Relative Percent Difference	Result Notes
MAINT-5	K0607044-036	88.6	87.9	88.3	<1	

00013

Metals

METALS

- Cover Page -
INORGANIC ANALYSIS DATA PACKAGE

Client: Geomatrix Consultants, Incorporated

Service Request: K0607044

Project No.: 8769.006/2

Project Name: Former RP site

Sample No.	Lab Sample ID.
MAINT-5	K0607044-036
MAINT-5D	K0607044-036D
MAINT-5S	K0607044-036S
Method Blank	K0607044-MB

Were ICP interelement corrections applied? Yes/No YES

Were ICP background corrections applied? Yes/No YES

If yes-were raw data generated before application of background corrections? Yes/No NO

Comments:

Signature: [signature]

Date: 8/24/06

METALS
-1-
INORGANIC ANALYSIS DATA SHEET

Client:	Geomatrix Consultants, Incorporated	Service Request:	K0607044
Project No.:	8769.006/2	Date Collected:	08/19/06
Project Name:	Former RP site	Date Received:	08/21/06
Matrix:	SOIL	Units:	MG/KG
		Basis:	Dry

Sample Name: MAINT-5 Lab Code: K0607044-036

Analyte	Analysis Method	MRL	MDL	Dil.	Date Extracted	Date Analyzed	Result	C	Q
Copper	6020	0.11	0.07	5	8/23/06	8/24/06	36.3		

% Solids: 88.6

Comments:

00027

METALS

-1-

INORGANIC ANALYSIS DATA SHEET

Client:	Geomatrix Consultants, Incorporated	Service Request:	K0607044
Project No.:	8769.006/2	Date Collected:	
Project Name:	Former RP site	Date Received:	
Matrix:	SOIL	Units:	MG/KG
		Basis:	Dry

Sample Name: Method Blank Lab Code: K0607044-MB

Analyte	Analysis Method	MRL	MDL	Dil.	Date Extracted	Date Analyzed	Result	C	Q
Copper	6020	0.10	0.06	5	8/23/06	8/24/06	0.07	B	

% Solids: 100.0

Comments:

00028

METALS
- 2a -
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Geomatrix Consultants, Incorporated

Service Request: K0607044

Project No.: 8769.006/2

Project Name: Former RP site

ICV Source: Inorganic Ventures

CCV Source: Various

Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration					Method
	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Copper	12.5	13.1	105	25.0	25.1	100	24.6	98	6020

00029

METALS
- 2b -
CRDL STANDARD FOR AA AND ICP

Client: Geomatrix Consultants, Incorporated

Service Request: K0607044

Project No.: 8769.006/2

Project Name: Former RP site

Concentration Units: ug/L

Analyte	CRDL Standard for AA			CRDL Standard for ICP				
				Initial			Final	
	True	Found	%R	True	Found	%R	Found	%R
Copper				0.20	0.27	135		

METALS
-3-
BLANKS

Client: Geomatrix Consultants, Incorporated

Service Request: K0607044

Project No.: 8769.006/2

Project Name: Former RP site

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C		Preparation Blank	C		Method
Copper	0.12	U	0.12	U	0.12	U							6020

METALS
-4-
ICP INTERFERENCE CHECK SAMPLE

Client: Geomatrix Consultants, Incorporated

Service Request: K0607044

Project No.: 8769.006/2

Project Name: Former RP site

ICP ID Number: X Series

ICS Source: Inorganic Ventures

Concentration Units): ug/L

Analyte	True		Initial Found			Final Found		
	Sol.A	Sol.AB	Sol.A	Sol.AB	%R	Sol.A	Sol.AB	%R
Copper		20	0.80	21.8	109			

METALS

- 4 -

ICP INTERFERENCE CHECK SAMPLE

METALS
- 5a -
SPIKE SAMPLE RECOVERY

Client:	Geomatrix Consultants, Incorporated	Service Request:	K0607044
Project No.:	8769.006/2	Units:	mg/kg
Project Name:	Former RP site	Basis:	Dry
Matrix:	SOIL	% Solids:	88.6

Sample Name: MAINT-5S Lab Code: K0607044-036S

Analyte	Control Limit %R	Spike Result	C	Sample Result	C	Spike Added	%R	Q	Method
Copper	52 - 153	89.0		36.3		55.9	94		6020

An empty field in the Control Limit column indicates the control limit is not applicabl

METALS
- 5b -
POST DIGEST SPIKE SAMPLE RECOVERY

Client: Geomatrix Consultants, Incorporated
Service Request: K0607044
Project No.: 8769.006/2
Units: ug/L
Project Name: Former RP site
Matrix: SOIL

Sample Name: MAINT-5A
Lab Code: K0607044-036A

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Copper	75-125	85.3		65.6		20.0	99		MS

Comments:

METALS
- 6 -
DUPLICATES

Client:	Geomatrix Consultants, Incorporated	Service Request:	K0607044
Project No.:	8769.006/2	Units:	mg/kg
Project Name:	Former RP site	Basis:	Dry
Matrix:	SOIL	% Solids:	88.6

Sample Name: MAINT-5D Lab Code: K0607044-036D

Analyte	Control Limit (%)	Sample (S)	C	Duplicate (D)	C	RPD	Q	Method
Copper	30	36.3		33.2		9		6020

An empty field in the Control Limit column indicates the control limit is not applicabl

METALS
-7-
LABORATORY CONTROL SAMPLE

Client: Geomatrix Consultants, Incorporated Service Request: K0607044

Project No.: 8769.006/2

Project Name: Former RP site

Aqueous LCS Source: Inorganic Ventures Solid LCS Source: ERA Lot No. D045540

Analyte	Aqueous mg/L True	Aqueous mg/L Found	Aqueous mg/L %R	Solid (mg/kg) True	Solid (mg/kg) Found	Solid (mg/kg) C	Solid (mg/kg) Limits	Solid (mg/kg) Limits	Solid (mg/kg) %R
Copper				67.0	61.2		53.8	80.2	91

METALS

-9-

ICP SERIAL DILUTIONS

Client: Geomatrix Consultants, Incorporated

Service Request: K0607044

Project No.: 8769.006/2

Units: ug/L

Project Name: Former RP site

Sample Name: MAINT-5L

Lab Code: K0607044-036L

Analyte	Initial Sample Result (I) C	Serial Dilution Result (S) C	% Difference	Q	Method
Copper	65.6	75.4	15	E	6020

00038

Geomatrix

Memorandum

TO:	Larry McGaughey	**DATE:**	September 7, 2006
FROM:	Tasya Gray	**PROJ. NO.:**	8769.006
CC:	Project File	**PROJ. NAME:**	Former Rhone-Poulenc Site
SUBJECT:	**East Parcel Redevelopment Soil Sampling Summary Data Quality Review – SDGs JS23, JS39, JT13**		

This memorandum presents a summary data quality review of 17 primary soil samples, one field duplicate sample, and two trip blanks collected between August 7 and 15, 2006. The samples were submitted to Analytical Resources, Incorporated (ARI), a Washington State Department of Ecology (Ecology)-accredited laboratory, located in Tukwila, Washington. ARI subcontracted some of the samples to OnSite Environmental, Incorporated (OnSite), located in Redmond, Washington. The samples were analyzed for the following analyses:

- Polychlorinated Biphenyls (PCBs) by EPA Method 8082
- Total Petroleum Hydrocarbons (TPH) as diesel by NWTPH-Dx including acid wash and silica gel cleanup sample preparation
- TPH as gasoline by NWTPH-Gx
- Benzene, toluene, ethylbenzene and total xylenes (BTEX) by EPA Method 8021

The analyses were performed in general accordance with methods specified in U.S. Environmental Protection Agency's (EPA) Test Methods for Evaluating Solid Waste (SW-846), January 1995 and associated revisions.

Laboratory sample delivery groups (SDGs) associated with the August 2006 sampling event are listed below. The samples associated with each SDG are presented in the table at the end of this memorandum.

Laboratory SDG	Date(s) Collected
JS23	August 7 and 8, 2006
JS39	August 9, 2006
JT13	August 15, 2006

Upon receipt by ARI and OnSite, the sample jar information was compared to the chain-of-custody form. Discrepancies were noted by the laboratory and addressed with Geomatrix personnel prior to sample analyses. The temperatures of the coolers were recorded as part of the check-in procedure. The coolers were within the acceptable range of 4 +/- 2 °C.

Data review is based on method performance criteria and QC criteria as documented in the May 2006 Soil Sampling Quality Assurance Project Plan (QAPP). The laboratory provided validatable packages containing summarized sample results and associated QA/QC data as well as instrument printouts and sample preparation and injection log pages as required by the QAPP. The data review conducted on these SDGs included a review of summarized results and QA/QC data per the requirements set forth in Section D1 of the QAPP. The control limits provided in the QAPP are advisory limits; therefore, the most current control limits provided by the laboratory were used to evaluate the quality control data. In cases where the laboratory did not track limits for an analyte, the limits in the QAPP were used. Hold times, calibration verification, method blanks, surrogate recoveries, laboratory control samples (LCS), matrix spike/matrix spike duplicate (MS/MSD) results, laboratory duplicate results, field QC results, and reporting limits were reviewed to assess compliance with applicable methods and the QAPP. If data qualification was required, data were qualified in general accordance with the definitions and use of qualifying flags outlined in the following EPA documents: USEPA Contract Laboratory Program (CLP) National Functional Guidelines for Organic Data Review, October 1999, and USEPA Contract Laboratory Program (CLP) National Functional Guidelines for Inorganic Data Review, October 2004.

The following qualifiers may be added to the data:

- U: The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
- J: The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
- UJ: The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
- R: The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

ORGANIC ANALYSES

Samples were analyzed for PCBs, TPH-Dx, TPH-gasoline, and BTEX by the methods identified in the introduction to this report, and were evaluated for the following criteria.

1. Holding Times – Acceptable

2. Initial Calibration – Not included in the OnSite data packages, otherwise good.

3. Calibration Verification – Not included in the OnSite data packages, otherwise good.

4. Blanks – Acceptable except as noted:
   No equipment blanks were collected during this sampling event. All sampling equipment used to collect BTEX samples was dedicated (EPA Method 5035).

5. Surrogates – Acceptable

6. Laboratory Control Samples (LCS) – Acceptable except as noted:

   A LCS was not included in the data packages from OnSite for the TPH-Dx and PCB analysis of JS23 or JS39. In SDG JT13, the LCS recovery for o-xylene was 112%, above the 110% limit, and the m,p-xylene recovery was 110%, above the 103% limit. Since xylenes were not detected in any of the associated data and the LCSD results were within control limits, no data was qualified.

7. Laboratory Duplicates – Acceptable except as noted:

   Laboratory duplicates were not included in the data packages from OnSite for the PCB analysis of JS23 or JS39; however the laboratory duplicate analysis of TPH-diesel for both packages was reported by OnSite with good relative percent differences (RPDs). Lab duplicates were not included in the data packages from ARI for the BTEX and TPH-gasoline analysis of JS23, JS39, or JT13, but the LCS duplicates showed good RPDs.

8. Matrix Spike/Matrix Spike Duplicate (MS/MSD) – Acceptable except as noted:

   MS/MSDs were not included in the data packages from OnSite for the TPH-diesel analysis of JS23 or JS39. MS/MSDs were not included in the ARI data package JT13. Results were evaluated based on the LCS where available.

The project frequency requirement of one MS/MSD for every 20 samples was achieved with MS/MSD volume collected at additional sites included in this sampling event.

9. Field Duplicates – Acceptable

One field duplicate was submitted for 17 samples during this sampling event, not meeting the project frequency requirement of 10% or 1 for every 10 samples per batch. The field duplicate RPD is elevated, most likely due to the heterogeneity of the soil samples. Field duplicate results should be taken into account in determining usability of data; however, soil field duplicate RPDs are frequently observed to be elevated, so data were not qualified.

Sample ID/ Field Duplicate ID	Analyte	Primary Result (µg/L)	Duplicate Result (µg/L)	RPD (%)
FRP081506 B5/ FRP081506 B5A	toluene	70	220	103

10. Reporting Limits – Acceptable

11. Other

Several 40-mL vial sample containers broke during transport of samples FRP080706 E2, FRP080706 W1, and FRP080706 W2; therefore TPH-gasoline was analyzed from a 2-oz. jar sample rather than the 40-mL vial specified for EPA 5035A method collection. Gasoline results are qualified as estimated and flagged "J".

OVERALL ASSESSMENT OF DATA

The ARI/OnSite SDGs JS23, JS39, and JT13 are 100 percent complete. The data usability is based on EPA's guidance documents and the QAPP referenced in the introduction to this report. Few problems were identified and analytical performance was generally within specified limits. The data are acceptable and meet the project's data quality objectives.

Sample ID	SDG	Laboratory ID	OnSite "Client ID"	Qualified Analyte	Qualified Result	Units	Qualifier Reason
FRP080706 E1	JS23	JS23A/08-083-01	FRP080706 E1	none			

Sample ID	SDG	Laboratory ID	OnSite "Client ID"	Qualified Analyte	Qualified Result	Units	Qualifier Reason
FRP080706 E2	JS23	JS23B/08-083-02	FRP080706 E2	gasoline	< 8.4 UJ	mg/kg	analyzed from 2-oz. jar
FRP080806 E2	JS23	JS23C	--	none			
FRP080706 E3	JS23	JS23D/08-083-03	FRP080706 E3	none			
FRP080706 E4	JS23	JS23E/08-083-04	FRP080706 E4	none			
FRP080706 S1	JS23	JS23F/08-083-05	FRP080706 S1	none			
FRP080706 W1	JS23	JS23G/08-083-06	FRP080706 W1	gasoline	< 9.5 UJ	mg/kg	analyzed from 2-oz. jar
FRP080806 W1	JS23	JS23H	--	none			
FRP080706 W2	JS23	JS23I/08-083-07	FRP080706 W2	gasoline	< 8.8 UJ	mg/kg	analyzed from 2-oz. jar
FRP080806 W2	JS23	JS23J	--	none			
Trip Blank	JS23	JS23K	--	none			
FRP080906 B1	JS39	JS39A/08-100-06	06-14277-JS39A	none			
FRP080906 B2	JS39	JS39B/08-100-01	06-14278-JS39B	none			
FRP080906 B3	JS39	JS39C/08-100-02	06-14279-JS39C	none			
FRP080906 B4	JS39	JS39D/08-100-03	06-14280-JS39D	none			
FRP080906 N1	JS39	JS39E/08-100-04	06-14281-JS39E	none			
FRP080906 N2	JS39	JS39F/08-100-05	06-14282-JS39F	none			
Trip Blank	JS39	JS39G	--	none			
FRP081506 B5	JT13	JT13A	--	none			
FRP081506 B5A	JT13	JT13B	--	none			

Analytical Resources, Incorporated
Analytical Chemists and Consultants

August 17, 2006

GEOMATRIX Received AUG 18 2006 SEATTLE

Zanna Satterwhite
Geomatrix Consultants
600 University Street, Suite 1020
Seattle, WA 98101

Project: 8769.006/2, FRP
ARI Job: JS23

Dear Zanna:

Please find enclosed the original chain of custody (COC) record and the final results for the samples from the project referenced above. Analytical Resources, Inc. accepted ten soil samples and a trip blank on August 8, 2006. ARI received the samples intact and there were no discrepancies in the paperwork. Due to current capacity at ARI, analyses for Aroclor-PCBs and NWTPH-Dx were subcontracted to Onsite in Redmond, WA. The report from Onsite is included in this report.

Samples were analyzed for NWTPH-G/BTEX at Analytical Resources, Inc. Samples **FRP080806 E2, FRP080806 W1** and **FRP080806 W2** had no 2 oz. container to determine total solids, and other containers had been submitted to the subcontractor, so results are reported on an 'as-received' basis for these three samples. Samples **FRP080706 E2, FRP080706 W1** and **FRP080706 W2** did not have 5035 vials and samples were analyzed out of the 2 oz. container.

A copy of this report and all raw data will be kept on file with ARI. If you have any questions or require additional information, please contact your project manager.

Sincerely,
ANALYTICAL RESOURCES, INC.

Eric Branson
Client Services Representative
-for-
Mark D. Harris
Project Manager
206/695-6210
mark@arilabs.com

Enclosures

Cc: file JS23

MDH/eb

Chain of Custody
Documentation

Prepared For

Geomatrix

Project Name: FRP - EAST PARCEL 8769.006/2

ARI Job No. JS23

Prepared By

Analytical Resources, Inc.

Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number: 0523	Turn-around Requested: 24-hr	Page: 1 of 2	
ARI Client Company: Geomatrix	Phone: 206 342 1788	Date: 8/8/06	Ice Present? NO
Client Contact: Larry McGaughey		No. of Coolers: 1	Cooler Temps: AMB
Client Project Name: FRP-East Parcel			
Client Project #: 8769.006/2	Samplers: Pat Hsieh		

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	BTEX-EPA 8021	PCBs-EPA 8082	TPH-G	TPH-Dx					Notes/Comments
FRP080706 E1	8/7/06	1909	S	4	X	X	X	X					
FRP080706 E2	8/7/06	1916	↓	2		X	X	X					
FRP080806 E2	8/8/06	1757	↓	2	X								
FRP080706 E3	8/7/06	1925	↓	4	X	X	X	X					
FRP080706 E4	8/7/06	1934	↓	4	X	X	X	X					
FRP080706 S1	8/7/06	1946	↓	4	X	X	X	X					
FRP080706 W1	8/7/06	1959	↓	2		X	X	X					
FRP080806 W1	8/8/06	1742	↓	2	X								
FRP080706 W2	8/7/06	2013	↓	2		X	X	X					
FRP080806 W2	8/8/06	1750	↓	2	X								

Comments/Special Instructions	Relinquished by:	Received by:	Relinquished by:	Received by:
TPH = acid wash/silica gel cleanup	(Signature) Zanna Sattenwhite	(Signature) Bob Congleton	(Signature)	(Signature)
	Printed Name: Zanna Sattenwhite	Printed Name: BOB CONGLETON	Printed Name:	Printed Name:
	Company: Geomatrix	Company: ARI	Company:	Company:
	Date & Time: 8/8/06	Date & Time: 8/8/06 1830	Date & Time:	Date & Time:

0002

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: JS23	Turn-around Requested: 24 hr	Page: 2 of 2	
ARI Client Company: Geomatrix	Phone: 206 342 1788	Date: 8/8/06	Ice Present? NO
Client Contact: Larry McGaughey		No. of Coolers: 1	Cooler Temps: AMB
Client Project Name: FRP-East Parcel			
Client Project #: 8769.006/2	Samplers: Pat Hsieh		

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	BTEX-8021								Notes/Comments
Trip Blank	8/8/06	—	W	2	X								

ZAS 8/8/06

Comments/Special Instructions	Relinquished by: (Signature)	Received by: (Signature)	Relinquished by: (Signature)	Received by: (Signature)
	Printed Name: Zanna Satterwhite	Printed Name: BOB CONGLETON	Printed Name:	Printed Name:
	Company: Geomatrix	Company: ARI	Company:	Company:
	Date & Time: 8/8/06	Date & Time: 8/8/06 1830	Date & Time:	Date & Time:

0003

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.

Cooler Receipt Form

ANALYTICAL RESOURCES INCORPORATED

ARI Client: GMX
Project Name: FRP - E. PARCEL
COC NO.:
Delivered By: HAND
Tracking NO.:
Date: 8/8/06
ARI Job No.: JS23
Lims NO.:

Preliminary Examination Phase:

1. Were intact, properly signed and dated custody seals attached To the outside of the cooler? ..... YES NO
2. Were custody papers included with the cooler ..... YES NO
3. Were custody papers properly filled out (ink, signed etc.)? ..... YES NO
4. Complete custody forms and attach all shipping documents ..... OK NA

Cooler Accepted BY: JG Date: 8/8/06 Time: 1830

Log-IN Phase:

5. Was a temperature blank include in the cooler? ..... YES NO
6. Record Cooler Temperature ..... AMB °C
7. What kind of packing material was used? ..... —
8. Was sufficient ice used (if appropriate)? ..... YES NO
9. Were all bottles sealed in separate plastic bags? ..... YES NO
10. Did all bottles arrive in good condition (unbroken)? ..... YES NO
11. Were all bottle labels complete and legible? ..... YES NO
12. Did all bottle labels and tags agree with custody papers? ..... YES NO
13. Were all bottles used correct for the requested analyses? ..... YES NO
14. Do any of the analyses (bottles) require preservative? (If so, Preservation checklist must be attached) ..... YES NO
15. Were all VOA vials free of air bubbles? ..... YES NO
16. Was sufficient amount of sample sent in each bottle? ..... YES NO
17. Notify Project Manager of any discrepancies or concerns ..... OK NA

Cooler Opened By: BC Date: 8/8/06 Time: 1830

Explain any discrepancies or negative responses:

Data Summary Package

Prepared For

Geomatrix

Project Name: FRP - EAST PARCEL 8769.006/2

ARI Job No. JS23

Prepared By

Analytical Resources, Inc.

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

A The total of all fines fractions. This flag is used to report total fines when only sieve analysis is requested and balances total grain size with sample weight.

F Samples were frozen prior to particle size determination

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

Total Solids

BETX/TPHG Total Solids-betxts
Data By: Paul K. Campbell
Created: 8/10/06

Worklist: 9879
Analyst: PKC
Comments:

ARI ID	Tare Wt (g)	Wet Wt (g)	Dry Wt (g)	% Solids
1. JS23A 06-14155	1.12	12.37	10.07	79.6
2. JS23B 06-14156	1.07	12.45	10.16	79.9
3. JS23D 06-14158	1.11	11.97	9.57	77.9
4. JS23E 06-14159	1.07	12.43	9.93	78.0
5. JS23F 06-14160	1.16	11.19	9.11	79.3
6. JS23G 06-14161	1.08	10.95	8.54	75.6
7. JS23I 06-14163	1.10	13.91	11.14	78.4

Worklist ID: 9879 Page: 1
* - BETX TS Copied From VOA TS
% - BETX TS Copied From Metals TS
$ - BETX TS Copied From Extraction TS

NWTPH-G/BETX

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
TPHG by Method NWTPHG
Matrix: Soil

Data Release Authorized:
Reported: 08/10/06

QC Report No: JS23-Geomatrix Consultants, Inc.
Project: FRP-EAST PARCEL
Event: 8769.006/2
Date Sampled: 08/07/06
Date Received: 08/08/06

ARI ID	Client ID	Analysis Date	Basis	Range	Result
JS23B	FRP080706 E2	08/09/06	Dry	Gasoline	< 8.4 U
06-14156		PID2		HC ID	---
				Trifluorotoluene	98.5%
				Bromobenzene	101%
JS23G	FRP080706 W1	08/09/06	Dry	Gasoline	< 9.5 U
06-14161		PID2		HC ID	---
				Trifluorotoluene	104%
				Bromobenzene	115%
JS23I	FRP080706 W2	08/09/06	Dry	Gasoline	< 8.8 U
06-14163		PID2		HC ID	---
				Trifluorotoluene	112%
				Bromobenzene	116%

Gasoline values reported in mg/kg (ppm)

Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.

GAS: Indicates the presence of gasoline or weathered gasoline.
GRO: Positive result that does not match an identifiable gasoline pattern.

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
BETX by Method SW8021BMod
TPHG by Method NWTPHG

Sample ID: FRP080706 E1
SAMPLE

Lab Sample ID: JS23A
LIMS ID: 06-14155
Matrix: Soil
Data Release Authorized:
Reported: 08/10/06

QC Report No: JS23-Geomatrix Consultants, Inc.
Project: FRP-EAST PARCEL
Event: 8769.006/2
Date Sampled: 08/07/06
Date Received: 08/08/06

Date Analyzed: 08/09/06 14:57
Instrument/Analyst: PID2/PKC

Purge Volume: 5.0 mL
Sample Amount: 64 mg-dry-wt
Percent Moisture: 20.4%

CAS Number	Analyte	RL	Result
71-43-2	Benzene	39	< 39 U
108-88-3	Toluene	39	54
100-41-4	Ethylbenzene	39	< 39 U
	m,p-Xylene	78	< 78 U
95-47-6	o-Xylene	39	< 39 U
1330-20-7	Xylenes, Total	160	< 160 U

			GAS ID
Gasoline Range Hydrocarbons	7.8	< 7.8 U	---

BETX Surrogate Recovery

Trifluorotoluene	83.1%
Bromobenzene	100%

Gasoline Surrogate Recovery

Trifluorotoluene	102%
Bromobenzene	102%

BETX values reported in µg/kg (ppb)
Gasoline values reported in mg/kg (ppm)

GAS: Indicates the presence of gasoline or weathered gasoline.
GRO: Positive result that does not match an identifiable gasoline pattern.

Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
BETX by Method SW8021BMod

Sample ID: FRP080806 E2
SAMPLE

Lab Sample ID: JS23C
LIMS ID: 06-14157
Matrix: Soil
Data Release Authorized:
Reported: 08/10/06

QC Report No: JS23-Geomatrix Consultants, Inc.
Project: FRP-EAST PARCEL
Event: 8769.006/2
Date Sampled: 08/08/06
Date Received: 08/08/06

Date Analyzed: 08/09/06 15:56
Instrument/Analyst: PID2/PKC

Purge Volume: 5.0 mL
Sample Amount: 82 mg-as-rec

CAS Number	Analyte	RL	Result
71-43-2	Benzene	31	< 31 U
108-88-3	Toluene	31	< 31 U
100-41-4	Ethylbenzene	31	< 31 U
	m,p-Xylene	61	< 61 U
95-47-6	o-Xylene	31	< 31 U

BETX Surrogate Recovery

Trifluorotoluene	87.1%
Bromobenzene	93.2%

BETX values reported in µg/kg (ppb)

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
BETX by Method SW8021BMod
TPHG by Method NWTPHG

Sample ID: FRP080706 E3
SAMPLE

Lab Sample ID: JS23D
LIMS ID: 06-14158
Matrix: Soil
Data Release Authorized:
Reported: 08/10/06

QC Report No: JS23-Geomatrix Consultants, Inc.
Project: FRP-EAST PARCEL
Event: 8769.006/2
Date Sampled: 08/07/06
Date Received: 08/08/06

Date Analyzed: 08/09/06 17:54
Instrument/Analyst: PID2/PKC

Purge Volume: 5.0 mL
Sample Amount: 61 mg-dry-wt
Percent Moisture: 22.1%

CAS Number	Analyte	RL	Result
71-43-2	Benzene	41	< 41 U
108-88-3	Toluene	41	< 41 U
100-41-4	Ethylbenzene	41	< 41 U
	m,p-Xylene	82	< 82 U
95-47-6	o-Xylene	41	< 41 U
1330-20-7	Xylenes, Total	160	< 160 U

			GAS ID
Gasoline Range Hydrocarbons	8.2	< 8.2 U	---

BETX Surrogate Recovery

Trifluorotoluene	86.6%
Bromobenzene	99.4%

Gasoline Surrogate Recovery

Trifluorotoluene	106%
Bromobenzene	101%

BETX values reported in µg/kg (ppb)
Gasoline values reported in mg/kg (ppm)

GAS: Indicates the presence of gasoline or weathered gasoline.
GRO: Positive result that does not match an identifiable gasoline pattern.

Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
BETX by Method SW8021BMod
TPHG by Method NWTPHG

Sample ID: FRP080706 E4
SAMPLE

Lab Sample ID: JS23E
LIMS ID: 06-14159
Matrix: Soil
Data Release Authorized:
Reported: 08/10/06

QC Report No: JS23-Geomatrix Consultants, Inc.
Project: FRP-EAST PARCEL
Event: 8769.006/2
Date Sampled: 08/07/06
Date Received: 08/08/06

Date Analyzed: 08/09/06 18:23
Instrument/Analyst: PID2/PKC

Purge Volume: 5.0 mL
Sample Amount: 62 mg-dry-wt
Percent Moisture: 22.0%

CAS Number	Analyte	RL	Result
71-43-2	Benzene	40	< 40 U
108-88-3	Toluene	40	< 40 U
100-41-4	Ethylbenzene	40	< 40 U
	m,p-Xylene	80	< 80 U
95-47-6	o-Xylene	40	< 40 U
1330-20-7	Xylenes, Total	160	< 160 U

			GAS ID
Gasoline Range Hydrocarbons	8.0	< 8.0 U	---

BETX Surrogate Recovery

Trifluorotoluene	88.1%
Bromobenzene	102%

Gasoline Surrogate Recovery

Trifluorotoluene	106%
Bromobenzene	101%

BETX values reported in µg/kg (ppb)
Gasoline values reported in mg/kg (ppm)

GAS: Indicates the presence of gasoline or weathered gasoline.
GRO: Positive result that does not match an identifiable gasoline pattern.

Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
BETX by Method SW8021BMod
TPHG by Method NWTPHG

Sample ID: FRP080706 S1
SAMPLE

Lab Sample ID: JS23F
LIMS ID: 06-14160
Matrix: Soil
Data Release Authorized:
Reported: 08/10/06

QC Report No: JS23-Geomatrix Consultants, Inc.
Project: FRP-EAST PARCEL
Event: 8769.006/2
Date Sampled: 08/07/06
Date Received: 08/08/06

Date Analyzed: 08/09/06 18:52
Instrument/Analyst: PID2/PKC

Purge Volume: 5.0 mL
Sample Amount: 67 mg-dry-wt
Percent Moisture: 20.7%

CAS Number	Analyte	RL	Result
71-43-2	Benzene	37	< 37 U
108-88-3	Toluene	37	< 37 U
100-41-4	Ethylbenzene	37	< 37 U
	m,p-Xylene	74	< 74 U
95-47-6	o-Xylene	37	< 37 U
1330-20-7	Xylenes, Total	150	< 150 U

			GAS ID
Gasoline Range Hydrocarbons	7.4	< 7.4 U	---

BETX Surrogate Recovery

Trifluorotoluene	91.8%
Bromobenzene	105%

Gasoline Surrogate Recovery

Trifluorotoluene	109%
Bromobenzene	103%

BETX values reported in µg/kg (ppb)
Gasoline values reported in mg/kg (ppm)

GAS: Indicates the presence of gasoline or weathered gasoline.
GRO: Positive result that does not match an identifiable gasoline pattern.

Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
BETX by Method SW8021BMod

Sample ID: FRP080806 W1
SAMPLE

Lab Sample ID: JS23H
LIMS ID: 06-14162
Matrix: Soil
Data Release Authorized:
Reported: 08/10/06

QC Report No: JS23-Geomatrix Consultants, Inc.
Project: FRP-EAST PARCEL
Event: 8769.006/2
Date Sampled: 08/08/06
Date Received: 08/08/06

Date Analyzed: 08/09/06 19:51
Instrument/Analyst: PID2/PKC

Purge Volume: 5.0 mL
Sample Amount: 110 mg-as-rec

CAS Number	Analyte	RL	Result
71-43-2	Benzene	23	< 23 U
108-88-3	Toluene	23	< 23 U
100-41-4	Ethylbenzene	23	< 23 U
	m,p-Xylene	46	< 46 U
95-47-6	o-Xylene	23	< 23 U

BETX Surrogate Recovery

Trifluorotoluene	81.8%
Bromobenzene	91.1%

BETX values reported in µg/kg (ppb)

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
BETX by Method SW8021BMod

Sample ID: FRP080806 W2
SAMPLE

Lab Sample ID: JS23J
LIMS ID: 06-14164
Matrix: Soil
Data Release Authorized:
Reported: 08/10/06

QC Report No: JS23-Geomatrix Consultants, Inc.
Project: FRP-EAST PARCEL
Event: 8769.006/2
Date Sampled: 08/08/06
Date Received: 08/08/06

Date Analyzed: 08/09/06 20:50
Instrument/Analyst: PID2/PKC

Purge Volume: 5.0 mL
Sample Amount: 110 mg-as-rec

CAS Number	Analyte	RL	Result
71-43-2	Benzene	23	< 23 U
108-88-3	Toluene	23	< 23 U
100-41-4	Ethylbenzene	23	< 23 U
	m,p-Xylene	46	< 46 U
95-47-6	o-Xylene	23	< 23 U

BETX Surrogate Recovery

Trifluorotoluene	76.8%
Bromobenzene	88.9%

BETX values reported in µg/kg (ppb)

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
BETX by Method SW8021BMod
Page 1 of 1

Sample ID: TRIP BLANK SAMPLE

Lab Sample ID: JS23K
LIMS ID: 06-14165
Matrix: Water
Data Release Authorized:
Reported: 08/10/06

QC Report No: JS23-Geomatrix Consultants, Inc.
Project: FRP-EAST PARCEL
Event: 8769.006/2
Date Sampled: 08/07/06
Date Received: 08/08/06

Date Analyzed: 08/09/06 13:29
Instrument/Analyst: PID2/PKC

Purge Volume: 5.0 mL
Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
71-43-2	Benzene	1.0	< 1.0 U
108-88-3	Toluene	1.0	< 1.0 U
100-41-4	Ethylbenzene	1.0	< 1.0 U
	m,p-Xylene	1.0	< 1.0 U
95-47-6	o-Xylene	1.0	< 1.0 U

BETX Surrogate Recovery

Trifluorotoluene	106%
Bromobenzene	106%

BETX values reported in µg/L (ppb)

FORM I

ANALYTICAL RESOURCES INCORPORATED

BETX WATER SURROGATE RECOVERY SUMMARY

ARI Job: JS23
Matrix: Water

QC Report No: JS23-Geomatrix Consultants, Inc.
Project: FRP-EAST PARCEL
Event: 8769.006/2

Client ID	TFT	BBZ	TOT OUT
TRIP BLANK	106%	106%	0

	LCS/MB LIMITS	QC LIMITS
(TFT) = Trifluorotoluene	(80-126)	(72-124)
(BBZ) = Bromobenzene	(81-119)	(79-119)

Log Number Range: 06-14165 to 06-14165

ANALYTICAL RESOURCES INCORPORATED

BETX SOIL SURROGATE RECOVERY SUMMARY

ARI Job: JS23
Matrix: Soil

QC Report No: JS23-Geomatrix Consultants, Inc.
Project: FRP-EAST PARCEL
Event: 8769.006/2

Client ID	TFT	BBZ	TOT OUT
MB-080906	83.7%	97.2%	0
LCS-080906	108%	101%	0
LCSD-080906	109%	102%	0
FRP080706 E1	83.1%	100%	0
FRP080806 E2	87.1%	93.2%	0
FRP080706 E3	86.6%	99.4%	0
FRP080706 E4	88.1%	102%	0
FRP080706 S1	91.8%	105%	0
FRP080806 W1	81.8%	91.1%	0
FRP080806 W2	76.8%	88.9%	0

	LCS/MB LIMITS	QC LIMITS
(TFT) = Trifluorotoluene	(82-128)	(53-147)
(BBZ) = Bromobenzene	(82-123)	(60-153)

Log Number Range: 06-14155 to 06-14164

ANALYTICAL RESOURCES INCORPORATED

TPHG SOIL SURROGATE RECOVERY SUMMARY

ARI Job: JS23
Matrix: Soil

QC Report No: JS23-Geomatrix Consultants, Inc.
Project: FRP-EAST PARCEL
Event: 8769.006/2

Client ID	TFT	BBZ	TOT OUT
MB-080906	101%	97.5%	0
LCS-080906	108%	103%	0
LCSD-080906	109%	101%	0
FRP080706 E1	102%	102%	0
FRP080706 E2	98.5%	101%	0
FRP080706 E3	106%	101%	0
FRP080706 E4	106%	101%	0
FRP080706 S1	109%	103%	0
FRP080706 W1	104%	115%	0
FRP080706 W2	112%	116%	0

	LCS/MB LIMITS	QC LIMITS
(TFT) = Trifluorotoluene	(86-121)	(49-158)
(BBZ) = Bromobenzene	(78-123)	(48-162)

Log Number Range: 06-14155 to 06-14163

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
BETX by Method SW8021BMod
Page 1 of 1

Sample ID: LCS-080906
LAB CONTROL SAMPLE

Lab Sample ID: LCS-080906
LIMS ID: 06-14155
Matrix: Soil
Data Release Authorized:
Reported: 08/10/06

QC Report No: JS23-Geomatrix Consultants, Inc.
Project: FRP-EAST PARCEL
Event: 8769.006/2
Date Sampled: NA
Date Received: NA

Date Analyzed LCS: 08/09/06 11:23
LCSD: 08/09/06 11:52
Instrument/Analyst LCS: PID2/PKC
LCSD: PID2/PKC

Purge Volume: 5.0 mL

Sample Amount LCS: 100 mg-dry-wt
LCSD: 100 mg-dry-wt

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
Benzene	394	410	96.1%	406	410	99.0%	3.0%
Toluene	3230	3340	96.7%	3280	3340	98.2%	1.5%
Ethylbenzene	614	610	101%	603	610	98.9%	1.8%
m,p-Xylene	2250	2290	98.3%	2310	2290	101%	2.6%
o-Xylene	816	795	103%	833	795	105%	2.1%

Reported in µg/kg (ppb)

RPD calculated using sample concentrations per SW846.

BETX Surrogate Recovery

	LCS	LCSD
Trifluorotoluene	108%	109%
Bromobenzene	101%	102%

FORM III

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
TPHG by Method NWTPHG

Sample ID: LCS-080906
LAB CONTROL SAMPLE

Lab Sample ID: LCS-080906
LIMS ID: 06-14155
Matrix: Soil
Data Release Authorized:
Reported: 08/10/06

QC Report No: JS23-Geomatrix Consultants, Inc.
Project: FRP-EAST PARCEL
Event: 8769.006/2
Date Sampled: NA
Date Received: NA

Date Analyzed LCS: 08/09/06 11:23
LCSD: 08/09/06 11:52
Instrument/Analyst LCS: PID2/PKC
LCSD: PID2/PKC

Purge Volume: 5.0 mL

Sample Amount LCS: 100 mg-dry-wt
LCSD: 100 mg-dry-wt

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
Gasoline Range Hydrocarbons	50.5	50.0	101%	48.0	50.0	96.0%	5.1%

Reported in mg/kg (ppm)

RPD calculated using sample concentrations per SW846.

TPHG Surrogate Recovery

	LCS	LCSD
Trifluorotoluene	108%	109%
Bromobenzene	103%	101%

FORM III

BETX/GAS METHOD BLANK SUMMARY

BLANK NO.

MB080906S1

Lab Name: ANALYTICAL RESOURCES, INC Client: GEOMATRIX

SDG No.: JS23 Project No.: FRP-EAST PARCEL

Date Analyzed : 08/09/06 Matrix: SOIL

Time Analyzed : 1222 Instrument ID : PID2

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS, and MSD:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED
01	LCS080906S1	LCS080906S1	08/09/06
02	LCSD080906S1	LCSD080906S1	08/09/06
03	TRIP BLANK	JS23K	08/09/06
04	FRP080706 E1	JS23A	08/09/06
05	FRP080706 E2	JS23B	08/09/06
06	FRP080806 E2	JS23C	08/09/06
07	FRP080706 E3	JS23D	08/09/06
08	FRP080706 E4	JS23E	08/09/06
09	FRP080706 S1	JS23F	08/09/06
10	FRP080706 W1	JS23G	08/09/06
11	FRP080806 W1	JS23H	08/09/06
12	FRP080706 W2	JS23I	08/09/06
13	FRP080806 W2	JS23J	08/09/06
14			
15			
16			
17			
18			
19			
20			
21			
22			
23			
24			
25			
26			
27			
28			
29			
30			

FORM IV BETX/GAS

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
BETX by Method SW8021BMod
TPHG by Method NWTPHG

Sample ID: MB-080906
METHOD BLANK

Lab Sample ID: MB-080906
LIMS ID: 06-14155
Matrix: Soil
Data Release Authorized:
Reported: 08/10/06

QC Report No: JS23-Geomatrix Consultants, Inc.
Project: FRP-EAST PARCEL
Event: 8769.006/2
Date Sampled: NA
Date Received: NA

Date Analyzed: 08/09/06 12:22
Instrument/Analyst: PID2/PKC

Purge Volume: 5.0 mL
Sample Amount: 100 mg-dry-wt

CAS Number	Analyte	RL	Result
71-43-2	Benzene	25	< 25 U
108-88-3	Toluene	25	< 25 U
100-41-4	Ethylbenzene	25	< 25 U
	m,p-Xylene	50	< 50 U
95-47-6	o-Xylene	25	< 25 U
1330-20-7	Xylenes, Total	100	< 100 U

			GAS ID
Gasoline Range Hydrocarbons	5.0	< 5.0 U	---

BETX Surrogate Recovery

Trifluorotoluene	83.7%
Bromobenzene	97.2%

Gasoline Surrogate Recovery

Trifluorotoluene	101%
Bromobenzene	97.5%

BETX values reported in µg/kg (ppb)
Gasoline values reported in mg/kg (ppm)

GAS: Indicates the presence of gasoline or weathered gasoline.
GRO: Positive result that does not match an identifiable gasoline pattern.

Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.

Laboratory Data Package

Prepared For

Geomatrix

Project Name: FRP - EAST PARCEL 8769.006/2

ARI Job No. JS23

Prepared By

Analytical Resources, Inc.

NWTPH-G/BTEXAnalysis
QC Summary Data

Prepared For

Geomatrix

Project Name: FRP - EAST PARCEL 8769.006/2

ARI Job No. JS23

Prepared By

Analytical Resources, Inc.

ANALYTICAL RESOURCES INCORPORATED

BETX WATER SURROGATE RECOVERY SUMMARY

ARI Job: JS23
Matrix: Water

QC Report No: JS23-Geomatrix Consultants, Inc.
Project: FRP-EAST PARCEL
Event: 8769.006/2

Client ID	TFT	BBZ	TOT OUT
TRIP BLANK	106%	106%	0

	LCS/MB LIMITS	QC LIMITS
(TFT) = Trifluorotoluene	(80-126)	(72-124)
(BBZ) = Bromobenzene	(81-119)	(79-119)

Log Number Range: 06-14165 to 06-14165

ANALYTICAL RESOURCES INCORPORATED

BETX SOIL SURROGATE RECOVERY SUMMARY

ARI Job: JS23
Matrix: Soil

QC Report No: JS23-Geomatrix Consultants, Inc.
Project: FRP-EAST PARCEL
Event: 8769.006/2

Client ID	TFT	BBZ	TOT OUT
MB-080906	83.7%	97.2%	0
LCS-080906	108%	101%	0
LCSD-080906	109%	102%	0
FRP080706 E1	83.1%	100%	0
FRP080806 E2	87.1%	93.2%	0
FRP080706 E3	86.6%	99.4%	0
FRP080706 E4	88.1%	102%	0
FRP080706 S1	91.8%	105%	0
FRP080806 W1	81.8%	91.1%	0
FRP080806 W2	76.8%	88.9%	0

	LCS/MB LIMITS	QC LIMITS
(TFT) = Trifluorotoluene	(82-128)	(53-147)
(BBZ) = Bromobenzene	(82-123)	(60-153)

Log Number Range: 06-14155 to 06-14164

FORM II BETX

ANALYTICAL RESOURCES INCORPORATED

TPHG SOIL SURROGATE RECOVERY SUMMARY

ARI Job: JS23
Matrix: Soil

QC Report No: JS23-Geomatrix Consultants, Inc.
Project: FRP-EAST PARCEL
Event: 8769.006/2

Client ID	TFT	BBZ	TOT OUT
MB-080906	101%	97.5%	0
LCS-080906	108%	103%	0
LCSD-080906	109%	101%	0
FRP080706 E1	102%	102%	0
FRP080706 E2	98.5%	101%	0
FRP080706 E3	106%	101%	0
FRP080706 E4	106%	101%	0
FRP080706 S1	109%	103%	0
FRP080706 W1	104%	115%	0
FRP080706 W2	112%	116%	0

	LCS/MB LIMITS	QC LIMITS
(TFT) = Trifluorotoluene	(86-121)	(49-158)
(BBZ) = Bromobenzene	(78-123)	(48-162)

Log Number Range: 06-14155 to 06-14163

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
BETX by Method SW8021BMod

Sample ID: LCS-080906
LAB CONTROL SAMPLE

Lab Sample ID: LCS-080906
LIMS ID: 06-14155
Matrix: Soil
Data Release Authorized:
Reported: 08/10/06

QC Report No: JS23-Geomatrix Consultants, Inc.
Project: FRP-EAST PARCEL
Event: 8769.006/2
Date Sampled: NA
Date Received: NA

Date Analyzed LCS: 08/09/06 11:23
LCSD: 08/09/06 11:52
Instrument/Analyst LCS: PID2/PKC
LCSD: PID2/PKC

Purge Volume: 5.0 mL

Sample Amount LCS: 100 mg-dry-wt
LCSD: 100 mg-dry-wt

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
Benzene	394	410	96.1%	406	410	99.0%	3.0%
Toluene	3230	3340	96.7%	3280	3340	98.2%	1.5%
Ethylbenzene	614	610	101%	603	610	98.9%	1.8%
m,p-Xylene	2250	2290	98.3%	2310	2290	101%	2.6%
o-Xylene	816	795	103%	833	795	105%	2.1%

Reported in µg/kg (ppb)

RPD calculated using sample concentrations per SW846.

BETX Surrogate Recovery

	LCS	LCSD
Trifluorotoluene	108%	109%
Bromobenzene	101%	102%

FORM III

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
TPHG by Method NWTPHG

Sample ID: LCS-080906
LAB CONTROL SAMPLE

Lab Sample ID: LCS-080906
LIMS ID: 06-14155
Matrix: Soil
Data Release Authorized:
Reported: 08/10/06

QC Report No: JS23-Geomatrix Consultants, Inc.
Project: FRP-EAST PARCEL
Event: 8769.006/2
Date Sampled: NA
Date Received: NA

Date Analyzed LCS: 08/09/06 11:23
LCSD: 08/09/06 11:52
Instrument/Analyst LCS: PID2/PKC
LCSD: PID2/PKC

Purge Volume: 5.0 mL

Sample Amount LCS: 100 mg-dry-wt
LCSD: 100 mg-dry-wt

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
Gasoline Range Hydrocarbons	50.5	50.0	101%	48.0	50.0	96.0%	5.1%

Reported in mg/kg (ppm)

RPD calculated using sample concentrations per SW846.

TPHG Surrogate Recovery

	LCS	LCSD
Trifluorotoluene	108%	109%
Bromobenzene	103%	101%

FORM III

BETX/GAS METHOD BLANK SUMMARY

BLANK NO.

MB080906S1

Lab Name: ANALYTICAL RESOURCES, INC

Client: GEOMATRIX

SDG No.: JS23

Project No.: FRP-EAST PARCEL

Date Analyzed : 08/09/06

Matrix: SOIL

Time Analyzed : 1222

Instrument ID : PID2

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS, and MSD:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED
01	LCS080906S1	LCS080906S1	08/09/06
02	LCSD080906S1	LCSD080906S1	08/09/06
03	TRIP BLANK	JS23K	08/09/06
04	FRP080706 E1	JS23A	08/09/06
05	FRP080706 E2	JS23B	08/09/06
06	FRP080806 E2	JS23C	08/09/06
07	FRP080706 E3	JS23D	08/09/06
08	FRP080706 E4	JS23E	08/09/06
09	FRP080706 S1	JS23F	08/09/06
10	FRP080706 W1	JS23G	08/09/06
11	FRP080806 W1	JS23H	08/09/06
12	FRP080706 W2	JS23I	08/09/06
13	FRP080806 W2	JS23J	08/09/06
14			
15			
16			
17			
18			
19			
20			
21			
22			
23			
24			
25			
26			
27			
28			
29			
30			

FORM IV BETX/GAS

BETX/GAS ANALYTICAL SEQUENCE

Lab Name: ANALYTICAL RESOURCES, INC Client: GEOMATRIX

SDG No.: JS23 Project: FRP-EAST PARCEL

Instrument ID: PID2 GC Detector: RTX 502-2 PID

Run Date: 06/29/06

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, AND STANDARDS, IS GIVEN BELOW:

METHOD SURROGATE RT
S1 : 6.44 S2 : 14.56

	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT #	S2 RT #
01	BTEX .25	BTEX .25	06/29/06	1136	6.42	14.55
02	BTEX .5	BTEX .5	06/29/06	1206	6.42	14.55
03	BTEX 5	BTEX 5	06/29/06	1235	6.43	14.55
04	BTEX 25	BTEX 25	06/29/06	1304	6.43	14.55
05	BTEX 100	BTEX 100	06/29/06	1334	6.43	14.55
06	BTEX 200	BTEX 200	06/29/06	1403	6.44	14.56
07	BTEX ICV	BTEX ICV	06/29/06	1433	6.43	14.55
08	RT0629+BCAL	RT0629+BCAL	06/29/06	1502	6.44	14.56
09	BTEX 25 RE	BTEX 25 RE	06/29/06	1610	6.45	14.56
10	BTEX 100 RE	BTEX 100 RE	06/29/06	1639	6.45	14.56
11	BTEX 200 RE	BTEX 200 RE	06/29/06	1708	6.44	14.56
12	RINSE	RINSE	06/29/06	1738		14.55
13	GAS .1	GAS .1	06/29/06	1807	6.43	14.56
14	GAS .25	GAS .25	06/29/06	1836	6.44	14.56
15	GAS 1	GAS 1	06/29/06	1906	6.44	14.55
16	GAS 2.5	GAS 2.5	06/29/06	1935	6.44	14.55
17	GAS 5	GAS 5	06/29/06	2005	6.44	14.55
18	GAS 20	GAS 20	06/29/06	2034	6.46	14.56
19	RINSE	RINSE	06/29/06	2103		14.55
20	GAS ICV	GAS ICV	06/29/06	2133	6.44	14.55

	QC LIMITS
S1 = TFT(Surr)	(+/- 0.07 MINUTES)
S2 = BB(Surr)	(+/- 0.07 MINUTES)

* Values outside of QC limits.

FORM VIII-2 BETX

BETX/GAS ANALYTICAL SEQUENCE

Lab Name: ANALYTICAL RESOURCES, INC Client: GEOMATRIX

SDG No.: JS23 Project: FRP-EAST PARCEL

Instrument ID: PID2 GC Detector: RTX 502-2 PID

Run Date: 07/27/06

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, AND STANDARDS, IS GIVEN BELOW:

METHOD SURROGATE RT
S1 : 6.44 S2 : 14.56

	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT #	S2 RT #
01	ZZZZZ	ZZZZZ	07/27/06	0953	6.47	14.56
02	ZZZZZ	ZZZZZ	07/27/06	1022		
03	ZZZZZ	ZZZZZ	07/27/06	1051		
04	BTEX .25	BTEX .25	07/27/06	1121	6.41	14.55
05	BTEX .5	BTEX .5	07/27/06	1150	6.41	14.54
06	BTEX 5	BTEX 5	07/27/06	1220	6.42	14.55
07	BTEX 25	BTEX 25	07/27/06	1249	6.43	14.55
08	BTEX 100	BTEX 100	07/27/06	1319	6.44	14.55
09	BTEX 200	BTEX 200	07/27/06	1348	6.44	14.56
10	BTEX ICV	BTEX ICV	07/27/06	1417	6.43	14.56

		QC LIMITS
S1	= TFT(Surr)	(+/- 0.07 MINUTES)
S2	= BB(Surr)	(+/- 0.07 MINUTES)

* Values outside of QC limits.

FORM VIII-2 BETX

BETX/GAS ANALYTICAL SEQUENCE

Lab Name: ANALYTICAL RESOURCES, INC Client: GEOMATRIX

SDG No.: JS23 Project: FRP-EAST PARCEL

Instrument ID: PID2 GC Detector: RTX 502-2 PID

Run Date: 08/09/06

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, AND STANDARDS, IS GIVEN BELOW:

METHOD SURROGATE RT
S1 : 6.43 S2 : 14.56

	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT #	S2 RT #
01	ZZZZZ	ZZZZZ	08/09/06	0935	6.42	14.56
02	RT0809+BCAL	RT0809+BCAL	08/09/06	1004	6.43	14.56
03	GCAL 1	GCAL 1	08/09/06	1034	6.45	14.56
04	LCS080906S1	LCS080906S1	08/09/06	1123	6.45	14.55
05	LCSD080906S1	LCSD080906S1	08/09/06	1152	6.44	14.56
06	MB080906S1	MB080906S1	08/09/06	1222	6.42	14.55
07	TRIP BLANK	JS23K	08/09/06	1329	6.42	14.55
08	ZZZZZ	ZZZZZ	08/09/06	1359	6.42	14.55
09	ZZZZZ	ZZZZZ	08/09/06	1428	6.42	14.55
10	FRP080706 E1	JS23A	08/09/06	1457	6.42	14.55
11	FRP080706 E2	JS23B	08/09/06	1527	6.43	14.55
12	FRP080806 E2	JS23C	08/09/06	1556	6.42	14.54
13	ZZZZZ	ZZZZZ	08/09/06	1626		14.55
14	BCAL 2	BCAL 2	08/09/06	1655	6.43	14.54
15	GCAL 2	GCAL 2	08/09/06	1724	6.44	14.55
16	FRP080706 E3	JS23D	08/09/06	1754	6.47	14.56
17	FRP080706 E4	JS23E	08/09/06	1823	6.42	14.55
18	FRP080706 S1	JS23F	08/09/06	1852	6.42	14.55
19	FRP080706 W1	JS23G	08/09/06	1922	6.42	14.55
20	FRP080806 W1	JS23H	08/09/06	1951	6.42	14.54
21	FRP080706 W2	JS23I	08/09/06	2021	6.47	14.56
22	FRP080806 W2	JS23J	08/09/06	2050	6.42	14.55
23	ZZZZZ	ZZZZZ	08/09/06	2119	6.42	14.55
24	ZZZZZ	ZZZZZ	08/09/06	2149	6.43	14.55
25	ZZZZZ	ZZZZZ	08/09/06	2218		14.55
26	BCAL 3	BCAL 3	08/09/06	2247	6.43	14.56
27	GCAL 3	GCAL 3	08/09/06	2317	6.45	14.55

QC LIMITS

S1 = TFT(Surr) (+/- 0.07 MINUTES)
S2 = BB(Surr) (+/- 0.07 MINUTES)

* Values outside of QC limits.

FORM VIII-2 BETX

OnSite Environmental Inc.
Analytical Testing and Mobile Laboratory Services

August 11, 2006

Mark Harris
Analytical Resources, Inc.
4611 South 134th Place, Suite 100
Tukwila, WA 98168

Re: Analytical Data for Project JS23
Laboratory Reference No. 0608-083

Dear Mark:

Enclosed are the analytical results and associated quality control data for samples submitted on August 9, 2006.

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

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

Sincerely,

David Baumeister
Project Manager

Enclosures

14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881 • Fax (425) 885-4603

Date of Report: August 11, 2006
Samples Submitted: August 9, 2006
Laboratory Reference: 0608-083
Project: JS23

Case Narrative

Samples were collected on August 7, 2006 and received by the laboratory on August 9, 2006. They were maintained at the laboratory at a temperature of 2°C to 6°C except as noted below.

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

08-083

Chain of Custody Record & Laboratory Analysis Request

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

ARI Assigned Number: JS23	Turn-around Requested: 24-48 HR	Page: 1 of 1	
ARI Client Company: ALI	Phone: 206/695-6210	Date: 8/9/06	Ice Present?
Client Contact: Mark Harris		No. of Coolers:	Cooler Temps:
Client Project Name: 8769.006/2			
Client Project #:	Samplers:		

	Sample ID	Date	Time	Matrix	No. Containers	PCBs	Nitrate-Nitrite	Silica Gel Cleanups					Remarks	Notes/Comments
1	FRP080706 E1	8/7/06	1909	S	1	✓	✓						X	
2	FRP080706 E2	8/7/06	1916	S	1	✓	✓							
3	FRP080706 E3	8/7/06	1925	S	1	✓	✓							
4	FRP080706 E4	8/7/06	1934	S	1	✓	✓							
5	FRP080706 S1	8/7/06	1946	S	1	✓	✓							
6	FRP080706 W1	8/7/06	1959	S	1	✓	✓							
7	FRP080706 W2	8/7/06	2013	S	1	✓	✓							

Comments/Special Instructions	Relinquished by: (Signature)	Received by: (Signature)	Relinquished by: (Signature)	Received by: (Signature)
E-MAIL RESULTS: MARKH@ARILABS.COM	Printed Name: Emily Odachowski	Printed Name: M Vovn	Printed Name:	Printed Name:
	Company: ARI	Company: ARI	Company:	Company:
	Date & Time: 8/9/06 10:22	Date & Time: 8/9/06 1022	Date & Time:	Date & Time:

0176

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.

Date of Report: August 11, 2006
Samples Submitted: August 9, 2006
Laboratory Reference: 0608-083
Project: JS23

PCBs by EPA 8082

Date Extracted:	8-9-06
Date Analyzed:	8-10-06
Matrix:	Soil
Units:	mg/kg (ppm)

Lab ID:	08-083-01
Client ID:	**FRP080706 E1**

	Result	PQL
Aroclor 1016:	ND	0.063
Aroclor 1221:	ND	0.063
Aroclor 1232:	ND	0.063
Aroclor 1242:	ND	0.063
Aroclor 1248:	ND	0.063
Aroclor 1254:	ND	0.063
Aroclor 1260:	ND	0.063

Surrogate	Percent Recovery	Control Limits
Decachlorobiphenyl	84	41-128

Flags:

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

Date of Report: August 11, 2006
Samples Submitted: August 9, 2006
Laboratory Reference: 0608-083
Project: JS23

PCBs by EPA 8082

Date Extracted:	8-9-06
Date Analyzed:	8-10-06
Matrix:	Soil
Units:	mg/kg (ppm)

Lab ID:	08-083-02
Client ID:	FRP080706 E2

	Result	PQL
Aroclor 1016:	ND	0.062
Aroclor 1221:	ND	0.062
Aroclor 1232:	ND	0.062
Aroclor 1242:	ND	0.062
Aroclor 1248:	ND	0.062
Aroclor 1254:	ND	0.062
Aroclor 1260:	ND	0.062

Surrogate	Percent Recovery	Control Limits
Decachlorobiphenyl	86	41-128

Flags:

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

Date of Report: August 11, 2006
Samples Submitted: August 9, 2006
Laboratory Reference: 0608-083
Project: JS23

PCBs by EPA 8082

Date Extracted:	8-9-06
Date Analyzed:	8-10-06
Matrix:	Soil
Units:	mg/kg (ppm)

Lab ID:	08-083-03
Client ID:	**FRP080706 E3**

	Result	PQL
Aroclor 1016:	ND	0.059
Aroclor 1221:	ND	0.059
Aroclor 1232:	ND	0.059
Aroclor 1242:	ND	0.059
Aroclor 1248:	ND	0.059
Aroclor 1254:	ND	0.059
Aroclor 1260:	ND	0.059

Surrogate	Percent Recovery	Control Limits
Decachlorobiphenyl	80	41-128

Flags:

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

Date of Report: August 11, 2006
Samples Submitted: August 9, 2006
Laboratory Reference: 0608-083
Project: JS23

PCBs by EPA 8082

Date Extracted:	8-9-06
Date Analyzed:	8-10-06
Matrix:	Soil
Units:	mg/kg (ppm)

Lab ID:	08-083-04
Client ID:	**FRP080706 E4**

	Result	PQL
Aroclor 1016:	ND	0.063
Aroclor 1221:	ND	0.063
Aroclor 1232:	ND	0.063
Aroclor 1242:	ND	0.063
Aroclor 1248:	ND	0.063
Aroclor 1254:	ND	0.063
Aroclor 1260:	ND	0.063

Surrogate	Percent Recovery	Control Limits
Decachlorobiphenyl	78	41-128

Flags:

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

Date of Report: August 11, 2006
Samples Submitted: August 9, 2006
Laboratory Reference: 0608-083
Project: JS23

PCBs by EPA 8082

Date Extracted:	8-9-06
Date Analyzed:	8-10-06
Matrix:	Soil
Units:	mg/kg (ppm)

Lab ID:	08-083-05
Client ID:	**FRP080706 S1**

	Result	PQL
Aroclor 1016:	ND	0.061
Aroclor 1221:	ND	0.061
Aroclor 1232:	ND	0.061
Aroclor 1242:	ND	0.061
Aroclor 1248:	ND	0.061
Aroclor 1254:	ND	0.061
Aroclor 1260:	ND	0.061

Surrogate	Percent Recovery	Control Limits
Decachlorobiphenyl	93	41-128

Flags:

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

Date of Report: August 11, 2006
Samples Submitted: August 9, 2006
Laboratory Reference: 0608-083
Project: JS23

PCBs by EPA 8082

Date Extracted:	8-9-06
Date Analyzed:	8-10-06
Matrix:	Soil
Units:	mg/kg (ppm)
Lab ID:	08-083-06
Client ID:	FRP080706 W1

	Result	PQL
Aroclor 1016:	ND	0.067
Aroclor 1221:	ND	0.067
Aroclor 1232:	ND	0.067
Aroclor 1242:	ND	0.067
Aroclor 1248:	ND	0.067
Aroclor 1254:	ND	0.067
Aroclor 1260:	ND	0.067

Surrogate	Percent Recovery	Control Limits
Decachlorobiphenyl	95	41-128

Flags:

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

Date of Report: August 11, 2006
Samples Submitted: August 9, 2006
Laboratory Reference: 0608-083
Project: JS23

PCBs by EPA 8082

Date Extracted:	8-9-06
Date Analyzed:	8-11-06
Matrix:	Soil
Units:	mg/kg (ppm)

Lab ID:	08-083-07
Client ID:	**FRP080706 W2**

	Result	PQL
Aroclor 1016:	ND	0.063
Aroclor 1221:	ND	0.063
Aroclor 1232:	ND	0.063
Aroclor 1242:	ND	0.063
Aroclor 1248:	ND	0.063
Aroclor 1254:	ND	0.063
Aroclor 1260:	ND	0.063

Surrogate	Percent Recovery	Control Limits
Decachlorobiphenyl	84	41-128

Flags: Z

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

Date of Report: August 11, 2006
Samples Submitted: August 9, 2006
Laboratory Reference: 0608-083
Project: JS23

PCBs by EPA 8082
METHOD BLANK QUALITY CONTROL

Date Extracted:	8-9-06
Date Analyzed:	8-10-06
Matrix:	Soil
Units:	mg/kg (ppm)
Lab ID:	MB0809S1

	Result	PQL
Aroclor 1016:	ND	0.050
Aroclor 1221:	ND	0.050
Aroclor 1232:	ND	0.050
Aroclor 1242:	ND	0.050
Aroclor 1248:	ND	0.050
Aroclor 1254:	ND	0.050
Aroclor 1260:	ND	0.050

Surrogate	Percent Recovery	Control Limits
Decachlorobiphenyl	101	41-128

Flags: Z

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

Date of Report: August 11, 2006
Samples Submitted: August 9, 2006
Laboratory Reference: 0608-083
Project: JS23

PCBs by EPA 8082
MS/MSD QUALITY CONTROL

Date Extracted: 8-9-06
Date Analyzed: 8-11-06

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 08-083-07

Spike Level: 0.500

	MS	Percent Recovery	MSD	Percent Recovery	RPD
Aroclor 1260:	0.371	74	0.347	69	7
PQL	0.050		0.050		

Surrogate	Percent Recovery	Percent Recovery	Control Limits
Decachlorobiphenyl	77	71	41-128
Flags:	Z	Z	

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

Date of Report: August 11, 2006
Samples Submitted: August 9, 2006
Laboratory Reference: 0608-083
Project: JS23

NWTPH-Dx

Date Extracted: 8-9-06
Date Analyzed: 8-9-06

Matrix: Soil
Units: mg/kg (ppm)

Client ID:	**FRP080706 E1**	**FRP080706 E2**	**FRP080706 E3**
Lab ID:	08-083-01	08-083-02	08-083-03
Diesel Range:	**ND**	**ND**	**ND**
PQL:	32	31	29
Identification:	---	---	---
Lube Oil Range:	**ND**	**ND**	**ND**
PQL:	63	62	59
Identification:	---	---	---
Surrogate Recovery			
o-Terphenyl:	92%	99%	95%
Flags:	Y	Y	Y

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

Date of Report: August 11, 2006
Samples Submitted: August 9, 2006
Laboratory Reference: 0608-083
Project: JS23

NWTPH-Dx

Date Extracted: 8-9-06
Date Analyzed: 8-9-06

Matrix: Soil
Units: mg/kg (ppm)

Client ID:	**FRP080706 E4**	**FRP080706 S1**	**FRP080706 W1**
Lab ID:	08-083-04	08-083-05	08-083-06
Diesel Range:	**ND**	**ND**	**ND**
PQL:	31	31	33
Identification:	---	---	---
Lube Oil Range:	**ND**	**ND**	**ND**
PQL:	63	61	67
Identification:	---	---	---
Surrogate Recovery			
o-Terphenyl:	101%	95%	109%
Flags:	Y	Y	Y

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

Date of Report: August 11, 2006
Samples Submitted: August 9, 2006
Laboratory Reference: 0608-083
Project: JS23

NWTPH-Dx

Date Extracted:	8-9-06
Date Analyzed:	8-9-06

Matrix:	Soil
Units:	mg/kg (ppm)

Client ID:	**FRP080706 W2**
Lab ID:	08-083-07

Diesel Range:	**ND**
PQL:	32
Identification:	---

Lube Oil Range:	**ND**
PQL:	63
Identification:	---

Surrogate Recovery	
o-Terphenyl:	100%
Flags:	Y

Date of Report: August 11, 2006
Samples Submitted: August 9, 2006
Laboratory Reference: 0608-083
Project: JS23

NWTPH-Dx
METHOD BLANK QUALITY CONTROL

Date Extracted:	8-9-06
Date Analyzed:	8-9-06

Matrix:	Soil
Units:	mg/kg (ppm)

Lab ID:	MB0809S1

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

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

Surrogate Recovery	
o-Terphenyl:	101%

Flags:	Y

Date of Report: August 11, 2006
Samples Submitted: August 9, 2006
Laboratory Reference: 0608-083
Project: JS23

NWTPH-Dx
DUPLICATE QUALITY CONTROL

Date Extracted:	8-9-06
Date Analyzed:	8-9-06

Matrix:	Soil
Units:	mg/kg (ppm)

Lab ID:	08-083-01	08-083-01 DUP
Diesel Range:	ND	ND
PQL:	25	25
RPD:	N/A	
Surrogate Recovery		
o-Terphenyl:	98%	92%
Flags:	Y	Y

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

OnSite Environmental Inc.

Data Qualifiers and Abbreviations

A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.

B - The analyte indicated was also found in the blank sample.

C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.

E - The value reported exceeds the quantitation range and is an estimate.

F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.

G - Insufficient sample quantity for duplicate analysis.

H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.

I - Compound recovery is outside of the control limits.

J - The value reported was below the practical quantitation limit. The value is an estimate.

K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.

L - The RPD is outside of the control limits.

M - Hydrocarbons in the gasoline range (toluene-napthalene) are present in the sample.

O - Hydrocarbons indicative of diesel fuel are present in the sample and are impacting the gasoline result.

P - The RPD of the detected concentrations between the two columns is greater than 40.

Q - Surrogate recovery is outside of the control limits.

S - Surrogate recovery data is not available due to the necessary dilution of the sample.

T - The sample chromatogram is not similar to a typical _____.

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.

W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.

X - Sample extract treated with a silica gel cleanup procedure.

Y - Sample extract treated with an acid/silica gel cleanup procedure.

Z - Sample treated with a Mercury cleanup procedure.

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

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

Date of Report: August 11, 2006
Samples Submitted: August 9, 2006
Laboratory Reference: 0608-083
Project: JS23

% MOISTURE

Date Analyzed: 8-9-06

Client ID	Lab ID	% Moisture
FRP080706 E1	08-083-01	21
FRP080706 E2	08-083-02	19
FRP080706 E3	08-083-03	15
FRP080706 E4	08-083-04	20
FRP080706 S1	08-083-05	18
FRP080706 W1	08-083-06	25
FRP080706 W2	08-083-07	21

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

Analytical Resources, Incorporated
Analytical Chemists and Consultants

August 17, 2006

GEOMATRIX Received AUG 18 2006 SEATTLE

Zanna Satterwhite
Geomatrix Consultants
600 University Street, Suite 1020
Seattle, WA 98101

Project: 8769.006, FRP – East Parcel
ARI Job: JS39

Dear Zanna:

Please find enclosed the original chain of custody (COC) record and the final results for the samples from the project referenced above. Analytical Resources, Inc. accepted six soil samples and a trip blank on August 10, 2006. ARI received the samples intact and there were no discrepancies in the paperwork Due to current capacity at ARI, analyses for Aroclor-PCBs and NWTPHDx were subcontracted to Onsite in Redmond, WA. Results have been included in this report.

The samples were analyzed for NWTPH-G/BTEX at Analytical Resources, Inc. Sample analyses were completed with no incidents of note.

A copy of this report and all raw data will be kept on file with ARI. If you have any questions or require additional information, please contact your project manager.

Sincerely,
ANALYTICAL RESOURCES, INC.

Eric Branson
Client Services Representative
-for-
Mark D. Harris
Project Manager
206/695-6210
mark@arilabs.com

Enclosures

Cc: file JS39

MDH/eb

Chain of Custody
Documentation

Prepared For

Geomatrix

Project Name: FRP - EAST PARCEL 8769.006

ARI Job No. JS39

Prepared By

Analytical Resources, Inc.

CHAIN-OF-CUSTODY RECORD J539 0.5° ice - yes SEA 10093

PROJECT NAME: Former Rhone Poulenc - East Parcel		DATE: 8/9/06	PAGE 1 OF 1
PROJECT NUMBER: 8769.006	LABORATORY NAME: ARI	CLIENT INFORMATION: GeoMatrix	REPORTING REQUIREMENTS:
RESULTS TO: Larry McGaughey	LABORATORY ADDRESS:		
TURNAROUND TIME: 24 hr			
SAMPLE SHIPMENT METHOD: courier	LABORATORY CONTACT:		GEOTRACKER REQUIRED YES NO
	LABORATORY PHONE NUMBER:		SITE SPECIFIC GLOBAL ID NO.

SAMPLERS (SIGNATURE): [signature]

ANALYSES

DATE	TIME	SAMPLE NUMBER	BTEX 8021	PCBs 8082	NWTPH-Dx w/silica gel cleanup	NWTPH-Gx	CONTAINER TYPE AND SIZE	Soil (S), Water (W), Vapor (V), or Other (O)	Filtered	Preservative Type	Cooled	MS/MSD	No. of Containers	ADDITIONAL COMMENTS
8/9/06	1855	FRP080906 B1	X	X	X	X	2x40ml, 1x2oz, 1x8oz	S					4	
	1901	FRP080906 B2	X	X	X	X								
	1906	FRP080906 B3	X	X	X	X								
	1913	FRP080906 B4	X	X	X	X								
	1919	FRP080906 N1	X	X	X	X								
	1924	FRP080906 N2	X	X	X	X								
	—	Trip Blank	X				2x40ml,	W		HCl			2	

RAS 8/10/06

RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME
SIGNATURE: [signature]			SIGNATURE: [signature]		
PRINTED NAME: Tanna Sallenwhite	8/10/06	0741	PRINTED NAME: BRIAN KEGEL	8/10/06	0941
COMPANY: Geomatrix			COMPANY: ARI		
SIGNATURE:			SIGNATURE:		
PRINTED NAME:			PRINTED NAME:		
COMPANY:			COMPANY:		
SIGNATURE:			SIGNATURE:		
PRINTED NAME:			PRINTED NAME:		
COMPANY:			COMPANY:		

TOTAL NUMBER OF CONTAINERS: 26

SAMPLING COMMENTS:

One Union Square, 600 University Street, Suite 1020
Seattle, Washington 98101-4107
Tel 206.342.1760 Fax 206.342.1761
Geomatrix

0002

Cooler Receipt Form

ANALYTICAL RESOURCES INCORPORATED

ARI Client: ~~Boeing~~ GMX Project Name: FRP - East Parcel

COC NO.: SEA 10093 Delivered By: ARI

Tracking NO.: — Date: 8/10/06

ARI Job No.: JS39 Lims NO.:

Preliminary Examination Phase:

1. Were intact, properly signed and dated custody seals attached To the outside of the cooler? ..... YES (NO)
2. Were custody papers included with the cooler ..... (YES) NO
3. Were custody papers properly filled out (ink, signed etc.)? ..... (YES) NO
4. Complete custody forms and attach all shipping documents ..... (OK) NA

Cooler Accepted BY: [signature] Date: 8/10/06 Time: 0741

Log-IN Phase:

5. Was a temperature blank include in the cooler? ..... YES (NO)
6. Record Cooler Temperature ..... 0.5 °C
7. What kind of packing material was used? ..... SB
8. Was sufficient ice used (if appropriate)? ..... (YES) NO
9. Were all bottles sealed in separate plastic bags? ..... YES (NO)
10. Did all bottles arrive in good condition (unbroken)? ..... (YES) NO
11. Were all bottle labels complete and legible? ..... (YES) NO
12. Did all bottle labels and tags agree with custody papers? ..... (YES) NO
13. Were all bottles used correct for the requested analyses? ..... (YES) NO
14. Do any of the analyses (bottles) require preservative? (If so, Preservation checklist must be attached) ..... YES (NO)
15. Were all VOA vials free of air bubbles? ..... (YES) NO
16. Was sufficient amount of sample sent in each bottle? ..... (YES) NO
17. Notify Project Manager of any discrepancies or concerns ..... (OK) NA

Cooler Opened By: _____ Date: _____ Time _____

Explain any discrepancies or negative responses:

Data Summary Package

Prepared For

Geomatrix

Project Name: FRP - EAST PARCEL 8769.006

ARI Job No. JS39

Prepared By

Analytical Resources, Inc.

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

A The total of all fines fractions. This flag is used to report total fines when only sieve analysis is requested and balances total grain size with sample weight.

F Samples were frozen prior to particle size determination

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

Total Solids

BETX/TPHG Total Solids-betxts
Data By: Paul K. Campbell
Created: 8/14/06

Worklist: 445
Analyst: PKC
Comments:

ARI ID	Tare Wt (g)	Wet Wt (g)	Dry Wt (g)	% Solids
1. JS39A 06-14277	1.21	13.69	10.52	74.6
2. JS39B 06-14278	1.14	12.84	10.00	75.7
3. JS39C 06-14279	1.13	11.45	8.48	71.2
4. JS39D 06-14280	1.18	13.64	10.12	71.7
5. JS39E 06-14281	1.11	11.53	8.58	71.7
6. JS39F 06-14282	1.10	13.03	9.93	74.0

Worklist ID: 445 Page: 1
* - BETX TS Copied From VOA TS
% - BETX TS Copied From Metals TS
$ - BETX TS Copied From Extraction TS

NWTPH-G/BETX

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
BETX by Method SW8021BMod

Sample ID: FRP080906-B1
SAMPLE

Lab Sample ID: JS39A
LIMS ID: 06-14277
Matrix: Soil
Data Release Authorized:
Reported: 08/14/06

QC Report No: JS39-Geomatrix Consultants, Inc.
Project: Former Rhone Poulenc-East Parcel
Event: 8769.006
Date Sampled: 08/09/06
Date Received: 08/10/06

Date Analyzed: 08/10/06 20:00
Instrument/Analyst: PID2/PKC

Purge Volume: 5.0 mL
Sample Amount: 60 mg-dry-wt
Percent Moisture: 25.4%

CAS Number	Analyte	RL	Result
71-43-2	Benzene	21	28
108-88-3	Toluene	21	200
100-41-4	Ethylbenzene	21	44
	m,p-Xylene	42	160
95-47-6	o-Xylene	21	59

			GAS ID
Gasoline Range Hydrocarbons	8.3	< 8.3 U	---

BETX Surrogate Recovery

Trifluorotoluene	86.0%
Bromobenzene	98.4%

Gasoline Surrogate Recovery

Trifluorotoluene	104%
Bromobenzene	112%

BETX values reported in µg/kg (ppb)
Gasoline values reported in mg/kg (ppm)

GAS: Indicates the presence of gasoline or weathered gasoline.
GRO: Positive result that does not match an identifiable gasoline pattern.

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
BETX by Method SW8021BMod

Sample ID: FRP080906-B2
SAMPLE

Lab Sample ID: JS39B
LIMS ID: 06-14278
Matrix: Soil
Data Release Authorized:
Reported: 08/14/06

QC Report No: JS39-Geomatrix Consultants, Inc.
Project: Former Rhone Poulenc-East Parcel
Event: 8769.006
Date Sampled: 08/09/06
Date Received: 08/10/06

Date Analyzed: 08/10/06 20:30
Instrument/Analyst: PID2/PKC

Purge Volume: 5.0 mL
Sample Amount: 63 mg-dry-wt
Percent Moisture: 24.3%

CAS Number	Analyte	RL	Result
71-43-2	Benzene	20	< 20 U
108-88-3	Toluene	20	45
100-41-4	Ethylbenzene	20	< 20 U
	m,p-Xylene	40	40
95-47-6	o-Xylene	20	< 20 U

			GAS ID
Gasoline Range Hydrocarbons	8.0	< 8.0 U	---

BETX Surrogate Recovery

Trifluorotoluene	93.3%
Bromobenzene	105%

Gasoline Surrogate Recovery

Trifluorotoluene	110%
Bromobenzene	105%

BETX values reported in µg/kg (ppb)
Gasoline values reported in mg/kg (ppm)

GAS: Indicates the presence of gasoline or weathered gasoline.
GRO: Positive result that does not match an identifiable gasoline pattern.

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
BETX by Method SW8021BMod

Sample ID: FRP080906-B3
SAMPLE

Lab Sample ID: JS39C
LIMS ID: 06-14279
Matrix: Soil
Data Release Authorized:
Reported: 08/14/06

QC Report No: JS39-Geomatrix Consultants, Inc.
Project: Former Rhone Poulenc-East Parcel
Event: 8769.006
Date Sampled: 08/09/06
Date Received: 08/10/06

Date Analyzed: 08/10/06 20:59
Instrument/Analyst: PID2/PKC

Purge Volume: 5.0 mL
Sample Amount: 58 mg-dry-wt
Percent Moisture: 28.8%

CAS Number	Analyte	RL	Result
71-43-2	Benzene	22	30
108-88-3	Toluene	22	< 22 U
100-41-4	Ethylbenzene	22	< 22 U
	m,p-Xylene	43	< 43 U
95-47-6	o-Xylene	22	< 22 U

			GAS ID
Gasoline Range Hydrocarbons	8.6	< 8.6 U	---

BETX Surrogate Recovery

Trifluorotoluene	85.7%
Bromobenzene	98.2%

Gasoline Surrogate Recovery

Trifluorotoluene	106%
Bromobenzene	106%

BETX values reported in µg/kg (ppb)
Gasoline values reported in mg/kg (ppm)

GAS: Indicates the presence of gasoline or weathered gasoline.
GRO: Positive result that does not match an identifiable gasoline pattern.

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
BETX by Method SW8021BMod

Sample ID: FRP080906-B4
SAMPLE

Lab Sample ID: JS39D
LIMS ID: 06-14280
Matrix: Soil
Data Release Authorized:
Reported: 08/14/06

QC Report No: JS39-Geomatrix Consultants, Inc.
Project: Former Rhone Poulenc-East Parcel
Event: 8769.006
Date Sampled: 08/09/06
Date Received: 08/10/06

Date Analyzed: 08/10/06 21:29
Instrument/Analyst: PID2/PKC

Purge Volume: 5.0 mL
Sample Amount: 58 mg-dry-wt
Percent Moisture: 28.3%

CAS Number	Analyte	RL	Result
71-43-2	Benzene	22	54
108-88-3	Toluene	22	< 22 U
100-41-4	Ethylbenzene	22	< 22 U
	m,p-Xylene	43	< 43 U
95-47-6	o-Xylene	22	< 22 U

			GAS ID
Gasoline Range Hydrocarbons	8.6	< 8.6 U	---

BETX Surrogate Recovery

Trifluorotoluene	84.6%
Bromobenzene	99.7%

Gasoline Surrogate Recovery

Trifluorotoluene	103%
Bromobenzene	95.9%

BETX values reported in µg/kg (ppb)
Gasoline values reported in mg/kg (ppm)

GAS: Indicates the presence of gasoline or weathered gasoline.
GRO: Positive result that does not match an identifiable gasoline pattern.

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
BETX by Method SW8021BMod

Sample ID: FRP080906-N1
SAMPLE

Lab Sample ID: JS39E
LIMS ID: 06-14281
Matrix: Soil
Data Release Authorized:
Reported: 08/14/06

QC Report No: JS39-Geomatrix Consultants, Inc.
Project: Former Rhone Poulenc-East Parcel
Event: 8769.006
Date Sampled: 08/09/06
Date Received: 08/10/06

Date Analyzed: 08/10/06 23:26
Instrument/Analyst: PID2/PKC

Purge Volume: 5.0 mL
Sample Amount: 52 mg-dry-wt
Percent Moisture: 28.3%

CAS Number	Analyte	RL	Result
71-43-2	Benzene	24	< 24 U
108-88-3	Toluene	24	190
100-41-4	Ethylbenzene	24	< 24 U
	m,p-Xylene	48	< 48 U
95-47-6	o-Xylene	24	< 24 U

			GAS ID
Gasoline Range Hydrocarbons	9.5	< 9.5 U	---

BETX Surrogate Recovery

Trifluorotoluene	87.5%
Bromobenzene	104%

Gasoline Surrogate Recovery

Trifluorotoluene	110%
Bromobenzene	103%

BETX values reported in µg/kg (ppb)
Gasoline values reported in mg/kg (ppm)

GAS: Indicates the presence of gasoline or weathered gasoline.
GRO: Positive result that does not match an identifiable gasoline pattern.

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
BETX by Method SW8021BMod

Sample ID: FRP080906-N2
SAMPLE

Lab Sample ID: JS39F
LIMS ID: 06-14282
Matrix: Soil
Data Release Authorized:
Reported: 08/14/06

QC Report No: JS39-Geomatrix Consultants, Inc.
Project: Former Rhone Poulenc-East Parcel
Event: 8769.006
Date Sampled: 08/09/06
Date Received: 08/10/06

Date Analyzed: 08/10/06 23:56
Instrument/Analyst: PID2/PKC

Purge Volume: 5.0 mL
Sample Amount: 58 mg-dry-wt
Percent Moisture: 26.0%

CAS Number	Analyte	RL	Result	GAS ID
71-43-2	Benzene	21	< 21 U	
108-88-3	Toluene	21	98	
100-41-4	Ethylbenzene	21	< 21 U	
	m,p-Xylene	43	< 43 U	
95-47-6	o-Xylene	21	< 21 U	
	Gasoline Range Hydrocarbons	8.6	< 8.6 U	---

BETX Surrogate Recovery

Trifluorotoluene	89.2%
Bromobenzene	102%

Gasoline Surrogate Recovery

Trifluorotoluene	102%
Bromobenzene	96.4%

BETX values reported in µg/kg (ppb)
Gasoline values reported in mg/kg (ppm)

GAS: Indicates the presence of gasoline or weathered gasoline.
GRO: Positive result that does not match an identifiable gasoline pattern.

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
BETX by Method SW8021BMod

Sample ID: TRIP BLANK SAMPLE

Lab Sample ID: JS39G
LIMS ID: 06-14283
Matrix: Water
Data Release Authorized:
Reported: 08/14/06

QC Report No: JS39-Geomatrix Consultants, Inc.
Project: Former Rhone Poulenc-East Parcel
Event: 8769.006
Date Sampled: 08/02/06
Date Received: 08/10/06

Date Analyzed: 08/10/06 19:02
Instrument/Analyst: PID2/PKC

Purge Volume: 5.0 mL
Dilution Factor: 1.00

CAS Number	Analyte	RL	Result	GAS ID
71-43-2	Benzene	0.25	< 0.25 U	
108-88-3	Toluene	0.25	< 0.25 U	
100-41-4	Ethylbenzene	0.25	< 0.25 U	
	m,p-Xylene	0.50	< 0.50 U	
95-47-6	o-Xylene	0.25	< 0.25 U	
	Gasoline Range Hydrocarbons	0.25	< 0.25 U	---

BETX Surrogate Recovery

Trifluorotoluene	80.7%
Bromobenzene	82.6%

Gasoline Surrogate Recovery

Trifluorotoluene	85.7%
Bromobenzene	83.3%

BETX values reported in µg/L (ppb)
Gasoline values reported in mg/L (ppm)

GAS: Indicates the presence of gasoline or weathered gasoline.
GRO: Positive result that does not match an identifiable gasoline pattern.

ANALYTICAL RESOURCES INCORPORATED

TPHG SOIL SURROGATE RECOVERY SUMMARY

ARI Job: JS39
Matrix: Soil

QC Report No: JS39-Geomatrix Consultants, Inc.
Project: Former Rhone Poulenc-East Parcel
Event: 8769.006

Client ID	TFT	BBZ	TOT OUT
MB-081006	102%	98.4%	0
LCS-081006	109%	106%	0
LCSD-081006	110%	106%	0
FRP080906-B1	104%	112%	0
FRP080906-B2	110%	105%	0
FRP080906-B3	106%	106%	0
FRP080906-B4	103%	95.9%	0
FRP080906-N1	110%	103%	0
FRP080906-N2	102%	96.4%	0

	LCS/MB LIMITS	QC LIMITS
(TFT) = Trifluorotoluene	(86-121)	(49-158)
(BBZ) = Bromobenzene	(78-123)	(48-162)

Log Number Range: 06-14277 to 06-14282

ANALYTICAL RESOURCES INCORPORATED

TPHG WATER SURROGATE RECOVERY SUMMARY

ARI Job: JS39
Matrix: Water

QC Report No: JS39-Geomatrix Consultants, Inc.
Project: Former Rhone Poulenc-East Parcel
Event: 8769.006

Client ID	TFT	BBZ	TOT OUT
TRIP BLANK	85.7%	83.3%	0

	LCS/MB LIMITS	QC LIMITS
(TFT) = Trifluorotoluene	(82-121)	(75-127)
(BBZ) = Bromobenzene	(76-122)	(76-126)

Log Number Range: 06-14283 to 06-14283

ANALYTICAL RESOURCES INCORPORATED

BETX SOIL SURROGATE RECOVERY SUMMARY

ARI Job: JS39
Matrix: Soil

QC Report No: JS39-Geomatrix Consultants, Inc.
Project: Former Rhone Poulenc-East Parcel
Event: 8769.006

Client ID	TFT	BBZ	TOT OUT
MB-081006	87.2%	98.0%	0
LCS-081006	109%	104%	0
LCSD-081006	99.6%	99.5%	0
FRP080906-B1	86.0%	98.4%	0
FRP080906-B2	93.3%	105%	0
FRP080906-B3	85.7%	98.2%	0
FRP080906-B4	84.6%	99.7%	0
FRP080906-N1	87.5%	104%	0
FRP080906-N2	89.2%	102%	0

	LCS/MB LIMITS	QC LIMITS
(TFT) = Trifluorotoluene	(82-128)	(53-147)
(BBZ) = Bromobenzene	(82-123)	(60-153)

Log Number Range: 06-14277 to 06-14282

ANALYTICAL RESOURCES INCORPORATED

BETX WATER SURROGATE RECOVERY SUMMARY

ARI Job: JS39
Matrix: Water

QC Report No: JS39-Geomatrix Consultants, Inc.
Project: Former Rhone Poulenc-East Parcel
Event: 8769.006

Client ID	TFT	BBZ	TOT OUT
TRIP BLANK	80.7%	82.6%	0

	LCS/MB LIMITS	QC LIMITS
(TFT) = Trifluorotoluene	(80-126)	(72-124)
(BBZ) = Bromobenzene	(81-119)	(79-119)

Log Number Range: 06-14283 to 06-14283

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
BETX by Method SW8021BMod

Sample ID: LCS-081006
LAB CONTROL SAMPLE

Lab Sample ID: LCS-081006
LIMS ID: 06-14277
Matrix: Soil
Data Release Authorized:
Reported: 08/14/06

QC Report No: JS39-Geomatrix Consultants, Inc.
Project: Former Rhone Poulenc-East Parcel
Event: 8769.006
Date Sampled: NA
Date Received: NA

Date Analyzed LCS: 08/10/06 15:44
LCSD: 08/10/06 16:13
Instrument/Analyst LCS: PID2/PKC
LCSD: PID2/PKC

Purge Volume: 5.0 mL

Sample Amount LCS: 100 mg-dry-wt
LCSD: 100 mg-dry-wt

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
Benzene	400	410	97.6%	384	410	93.7%	4.1%
Toluene	3260	3340	97.6%	3070	3340	91.9%	6.0%
Ethylbenzene	628	610	103%	588	610	96.4%	6.6%
m,p-Xylene	2290	2290	100%	2120	2290	92.6%	7.7%
o-Xylene	834	795	105%	778	795	97.9%	6.9%

Reported in µg/kg (ppb)

RPD calculated using sample concentrations per SW846.

BETX Surrogate Recovery

	LCS	LCSD
Trifluorotoluene	109%	99.6%
Bromobenzene	104%	99.5%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
TPHG by Method NWTPHG

Sample ID: LCS-081006
LAB CONTROL SAMPLE

Lab Sample ID: LCS-081006
LIMS ID: 06-14277
Matrix: Soil
Data Release Authorized:
Reported: 08/14/06

QC Report No: JS39-Geomatrix Consultants, Inc.
Project: Former Rhone Poulenc-East Parcel
Event: 8769.006
Date Sampled: NA
Date Received: NA

Date Analyzed LCS: 08/10/06 15:44
LCSD: 08/10/06 16:13
Instrument/Analyst LCS: PID2/PKC
LCSD: PID2/PKC

Purge Volume: 5.0 mL

Sample Amount LCS: 100 mg-dry-wt
LCSD: 100 mg-dry-wt

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
Gasoline Range Hydrocarbons	52.5	50.0	105%	52.5	50.0	105%	0.0%

Reported in mg/kg (ppm)

RPD calculated using sample concentrations per SW846.

TPHG Surrogate Recovery

	LCS	LCSD
Trifluorotoluene	109%	110%
Bromobenzene	106%	106%

BETX/GAS METHOD BLANK SUMMARY

BLANK NO.

MB081006S1

Lab Name: ANALYTICAL RESOURCES, INC

Client: GEOMATRIX

SDG No.: JS39

Project No.: FRP-EAST PARCEL

Date Analyzed : 08/10/06

Matrix: SOIL

Time Analyzed : 1643

Instrument ID : PID2

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS, and MSD:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED
01	LCS081006S1	LCS081006S1	08/10/06
02	LCSD081006S1	LCSD081006S1	08/10/06
03	TRIP BLANK	JS39G	08/10/06
04	FRP080906-B1	JS39A	08/10/06
05	FRP080906-B2	JS39B	08/10/06
06	FRP080906-B3	JS39C	08/10/06
07	FRP080906-B4	JS39D	08/10/06
08	FRP080906-N1	JS39E	08/10/06
09	FRP080906-N2	JS39F	08/10/06
10			
11			
12			
13			
14			
15			
16			
17			
18			
19			
20			
21			
22			
23			
24			
25			
26			
27			
28			
29			
30			

FORM IV BETX/GAS

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
BETX by Method SW8021BMod

Sample ID: MB-081006
METHOD BLANK

Lab Sample ID: MB-081006
LIMS ID: 06-14277
Matrix: Soil
Data Release Authorized:
Reported: 08/14/06

QC Report No: JS39-Geomatrix Consultants, Inc.
Project: Former Rhone Poulenc-East Parcel
Event: 8769.006
Date Sampled: NA
Date Received: NA

Date Analyzed: 08/10/06 16:43
Instrument/Analyst: PID2/PKC

Purge Volume: 5.0 mL
Sample Amount: 100 mg-dry-wt

CAS Number	Analyte	RL	Result
71-43-2	Benzene	12	< 12 U
108-88-3	Toluene	12	< 12 U
100-41-4	Ethylbenzene	12	< 12 U
	m,p-Xylene	25	< 25 U
95-47-6	o-Xylene	12	< 12 U

			GAS ID
Gasoline Range Hydrocarbons	5.0	< 5.0 U	---

BETX Surrogate Recovery

Trifluorotoluene	87.2%
Bromobenzene	98.0%

Gasoline Surrogate Recovery

Trifluorotoluene	102%
Bromobenzene	98.4%

BETX values reported in µg/kg (ppb)
Gasoline values reported in mg/kg (ppm)

GAS: Indicates the presence of gasoline or weathered gasoline.
GRO: Positive result that does not match an identifiable gasoline pattern.

OnSite Environmental Inc.
Analytical Testing and Mobile Laboratory Services

August 14, 2006

Mark Harris
Analytical Resources, Inc.
4611 South 134th Place, Suite 100
Tukwila, WA 98168

Re: Analytical Data for Project JS39
Laboratory Reference No. 0608-100

Dear Mark:

Enclosed are the analytical results and associated quality control data for samples submitted on August 10, 2006.

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

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

Sincerely,

David Baumeister
Project Manager

Enclosures

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

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

14648 NE 95th Street, Redmond, WA 98052 (425) 883-3881 • Fax (425) 885-4603

Date of Report: August 14, 2006
Samples Submitted: August 10, 2006
Laboratory Reference: 0608-100
Project: JS39

Case Narrative

Samples were collected on August 9, 2006 and received by the laboratory on August 10, 2006. They were maintained at the laboratory at a temperature of 2°C to 6°C except as noted below.

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

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

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

Date of Report: August 14, 2006
Samples Submitted: August 10, 2006
Laboratory Reference: 0608-100
Project: JS39

NWTPH-Dx

Date Extracted: 8-10-06
Date Analyzed: 8-10-06

Matrix: Soil
Units: mg/kg (ppm)

Client ID:	**06-14278-JS39B**	**06-14279-JS39C**	**06-14280-JS39D**
Lab ID:	08-100-01	08-100-02	08-100-03
Diesel Range:	**ND**	**ND**	**ND**
PQL:	35	33	35
Identification:	---	---	---
Lube Oil Range:	**ND**	**ND**	**ND**
PQL:	70	67	69
Identification:	---	---	---
Surrogate Recovery			
o-Terphenyl:	94%	92%	100%
Flags:	Y	Y	Y

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

Date of Report: August 14, 2006
Samples Submitted: August 10, 2006
Laboratory Reference: 0608-100
Project: JS39

NWTPH-Dx

Date Extracted: 8-10-06
Date Analyzed: 8-10-06

Matrix: Soil
Units: mg/kg (ppm)

Client ID:	**06-14281-JS39E**	**06-14282-JS39F**	**06-14277-JS39A**
Lab ID:	08-100-04	08-100-05	08-100-06
Diesel Range:	**ND**	**ND**	**ND**
PQL:	32	33	33
Identification:	---	---	---
Lube Oil Range:	**ND**	**ND**	**ND**
PQL:	63	67	67
Identification:	---	---	---
Surrogate Recovery			
o-Terphenyl:	100%	90%	100%
Flags:	Y	Y	Y

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

Date of Report: August 14, 2006
Samples Submitted: August 10, 2006
Laboratory Reference: 0608-100
Project: JS39

NWTPH-Dx
METHOD BLANK QUALITY CONTROL

Date Extracted:	8-10-06
Date Analyzed:	8-10-06

Matrix:	Soil
Units:	mg/kg (ppm)

Lab ID:	MB0810S2

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

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

Surrogate Recovery	
o-Terphenyl:	109%

Flags:	Y

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

Date of Report: August 14, 2006
Samples Submitted: August 10, 2006
Laboratory Reference: 0608-100
Project: JS39

NWTPH-Dx
DUPLICATE QUALITY CONTROL

Date Extracted:	8-10-06
Date Analyzed:	8-10-06

Matrix:	Soil
Units:	mg/kg (ppm)

Lab ID:	08-100-04	08-100-04 DUP
Diesel Range:	**ND**	**ND**
PQL:	25	25
RPD:	N/A	
Surrogate Recovery		
o-Terphenyl:	100%	95%
Flags:	Y	Y

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

Date of Report: August 14, 2006
Samples Submitted: August 10, 2006
Laboratory Reference: 0608-100
Project: JS39

PCBs by EPA 8082

Date Extracted:	8-10-06
Date Analyzed:	8-11-06
Matrix:	Soil
Units:	mg/kg (ppm)

Lab ID:	08-100-01
Client ID:	**06-14278-JS39B**

	Result	PQL
Aroclor 1016:	ND	0.070
Aroclor 1221:	ND	0.070
Aroclor 1232:	ND	0.070
Aroclor 1242:	ND	0.070
Aroclor 1248:	ND	0.070
Aroclor 1254:	ND	0.070
Aroclor 1260:	ND	0.070

Surrogate	Percent Recovery	Control Limits
Decachlorobiphenyl	74	41-128

Flags:

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

Date of Report: August 14, 2006
Samples Submitted: August 10, 2006
Laboratory Reference: 0608-100
Project: JS39

PCBs by EPA 8082

Date Extracted:	8-10-06
Date Analyzed:	8-11-06
Matrix:	Soil
Units:	mg/kg (ppm)

Lab ID:	08-100-02
Client ID:	**06-14279-JS39C**

	Result	**PQL**
Aroclor 1016:	**ND**	0.067
Aroclor 1221:	**ND**	0.067
Aroclor 1232:	**ND**	0.067
Aroclor 1242:	**ND**	0.067
Aroclor 1248:	**ND**	0.067
Aroclor 1254:	**ND**	0.067
Aroclor 1260:	**ND**	0.067

Surrogate	**Percent Recovery**	**Control Limits**
Decachlorobiphenyl	60	41-128

Flags:

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

Date of Report: August 14, 2006
Samples Submitted: August 10, 2006
Laboratory Reference: 0608-100
Project: JS39

PCBs by EPA 8082

Date Extracted:	8-10-06
Date Analyzed:	8-11-06
Matrix:	Soil
Units:	mg/kg (ppm)

Lab ID:	08-100-03
Client ID:	**06-14280-JS39D**

	Result	PQL
Aroclor 1016:	ND	0.069
Aroclor 1221:	ND	0.069
Aroclor 1232:	ND	0.069
Aroclor 1242:	ND	0.069
Aroclor 1248:	ND	0.069
Aroclor 1254:	ND	0.069
Aroclor 1260:	ND	0.069

Surrogate	Percent Recovery	Control Limits
Decachlorobiphenyl	75	41-128

Flags:

Date of Report: August 14, 2006
Samples Submitted: August 10, 2006
Laboratory Reference: 0608-100
Project: JS39

PCBs by EPA 8082

Date Extracted:	8-10-06
Date Analyzed:	8-11-06
Matrix:	Soil
Units:	mg/kg (ppm)

Lab ID:	08-100-04
Client ID:	**06-14281-JS39E**

	Result	PQL
Aroclor 1016:	ND	0.063
Aroclor 1221:	ND	0.063
Aroclor 1232:	ND	0.063
Aroclor 1242:	ND	0.063
Aroclor 1248:	ND	0.063
Aroclor 1254:	ND	0.063
Aroclor 1260:	ND	0.063

Surrogate	Percent Recovery	Control Limits
Decachlorobiphenyl	61	41-128

Flags:

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

Date of Report: August 14, 2006
Samples Submitted: August 10, 2006
Laboratory Reference: 0608-100
Project: JS39

PCBs by EPA 8082

Date Extracted:	8-10-06
Date Analyzed:	8-11-06
Matrix:	Soil
Units:	mg/kg (ppm)
Lab ID:	08-100-05
Client ID:	06-14282-JS39F

	Result	PQL
Aroclor 1016:	ND	0.067
Aroclor 1221:	ND	0.067
Aroclor 1232:	ND	0.067
Aroclor 1242:	ND	0.067
Aroclor 1248:	ND	0.067
Aroclor 1254:	ND	0.067
Aroclor 1260:	ND	0.067

Surrogate	Percent Recovery	Control Limits
Decachlorobiphenyl	70	41-128

Flags:

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

Date of Report: August 14, 2006
Samples Submitted: August 10, 2006
Laboratory Reference: 0608-100
Project: JS39

PCBs by EPA 8082

Date Extracted:	8-10-06
Date Analyzed:	8-11-06
Matrix:	Soil
Units:	mg/kg (ppm)
Lab ID:	08-100-06
Client ID:	**06-14277-JS39A**

	Result	PQL
Aroclor 1016:	ND	0.067
Aroclor 1221:	ND	0.067
Aroclor 1232:	ND	0.067
Aroclor 1242:	ND	0.067
Aroclor 1248:	ND	0.067
Aroclor 1254:	ND	0.067
Aroclor 1260:	ND	0.067

Surrogate	Percent Recovery	Control Limits
Decachlorobiphenyl	65	41-128

Flags:

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

Date of Report: August 14, 2006
Samples Submitted: August 10, 2006
Laboratory Reference: 0608-100
Project: JS39

PCBs by EPA 8082
METHOD BLANK QUALITY CONTROL

Date Extracted:	8-10-06
Date Analyzed:	8-11-06
Matrix:	Soil
Units:	mg/kg (ppm)

Lab ID: MB0810S1

	Result	PQL
Aroclor 1016:	ND	0.050
Aroclor 1221:	ND	0.050
Aroclor 1232:	ND	0.050
Aroclor 1242:	ND	0.050
Aroclor 1248:	ND	0.050
Aroclor 1254:	ND	0.050
Aroclor 1260:	ND	0.050

Surrogate	Percent Recovery	Control Limits
Decachlorobiphenyl	97	41-128

Flags:

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

Date of Report: August 14, 2006
Samples Submitted: August 10, 2006
Laboratory Reference: 0608-100
Project: JS39

PCBs by EPA 8082
MS/MSD QUALITY CONTROL

Date Extracted: 8-10-06
Date Analyzed: 8-11-06

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 08-100-02

Spike Level: 0.500

	MS	Percent Recovery	MSD	Percent Recovery	RPD
Aroclor 1260:	0.432	86	0.367	73	16
PQL	0.050		0.050		

Surrogate	Percent Recovery	Percent Recovery	Control Limits
Decachlorobiphenyl	94	85	41-128

Flags:

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

Date of Report: August 14, 2006
Samples Submitted: August 10, 2006
Laboratory Reference: 0608-100
Project: JS39

% MOISTURE

Date Analyzed: 8-10-06

Client ID	Lab ID	% Moisture
06-14278-JS39B	08-100-01	29
06-14279-JS39C	08-100-02	25
06-14280-JS39D	08-100-03	28
06-14281-JS39E	08-100-04	21
06-14282-JS39F	08-100-05	25
06-14277-JS39A	08-100-06	25

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

OnSite Environmental Inc.

Data Qualifiers and Abbreviations

A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.

B - The analyte indicated was also found in the blank sample.

C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.

E - The value reported exceeds the quantitation range and is an estimate.

F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.

G - Insufficient sample quantity for duplicate analysis.

H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.

I - Compound recovery is outside of the control limits.

J - The value reported was below the practical quantitation limit. The value is an estimate.

K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.

L - The RPD is outside of the control limits.

M - Hydrocarbons in the gasoline range (toluene-napthalene) are present in the sample.

O - Hydrocarbons indicative of diesel fuel are present in the sample and are impacting the gasoline result.

P - The RPD of the detected concentrations between the two columns is greater than 40.

Q - Surrogate recovery is outside of the control limits.

S - Surrogate recovery data is not available due to the necessary dilution of the sample.

T - The sample chromatogram is not similar to a typical _____.

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.

W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.

X - Sample extract treated with a silica gel cleanup procedure.

Y - Sample extract treated with an acid/silica gel cleanup procedure.

Z -

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

Laboratory Data Package

Prepared For

Geomatrix

Project Name: FRP - EAST PARCEL 8769.006

ARI Job No. JS39

Prepared By

Analytical Resources, Inc.

NWTPH-G/BTEX Analysis
QC Summary Data

Prepared For

Geomatrix

Project Name: FRP - EAST PARCEL 8769.006

ARI Job No. JS39

Prepared By

Analytical Resources, Inc.

ANALYTICAL RESOURCES INCORPORATED

TPHG SOIL SURROGATE RECOVERY SUMMARY

ARI Job: JS39
Matrix: Soil

QC Report No: JS39-Geomatrix Consultants, Inc.
Project: Former Rhone Poulenc-East Parcel
Event: 8769.006

Client ID	TFT	BBZ	TOT OUT
MB-081006	102%	98.4%	0
LCS-081006	109%	106%	0
LCSD-081006	110%	106%	0
FRP080906-B1	104%	112%	0
FRP080906-B2	110%	105%	0
FRP080906-B3	106%	106%	0
FRP080906-B4	103%	95.9%	0
FRP080906-N1	110%	103%	0
FRP080906-N2	102%	96.4%	0

	LCS/MB LIMITS	QC LIMITS
(TFT) = Trifluorotoluene	(86-121)	(49-158)
(BBZ) = Bromobenzene	(78-123)	(48-162)

Log Number Range: 06-14277 to 06-14282

ANALYTICAL RESOURCES INCORPORATED

TPHG WATER SURROGATE RECOVERY SUMMARY

ARI Job: JS39
Matrix: Water

QC Report No: JS39-Geomatrix Consultants, Inc.
Project: Former Rhone Poulenc-East Parcel
Event: 8769.006

Client ID	TFT	BBZ	TOT OUT
TRIP BLANK	85.7%	83.3%	0

	LCS/MB LIMITS	QC LIMITS
(TFT) = Trifluorotoluene	(82-121)	(75-127)
(BBZ) = Bromobenzene	(76-122)	(76-126)

Log Number Range: 06-14283 to 06-14283

ANALYTICAL RESOURCES INCORPORATED

BETX SOIL SURROGATE RECOVERY SUMMARY

ARI Job: JS39
Matrix: Soil

QC Report No: JS39-Geomatrix Consultants, Inc.
Project: Former Rhone Poulenc-East Parcel
Event: 8769.006

Client ID	TFT	BBZ	TOT OUT
MB-081006	87.2%	98.0%	0
LCS-081006	109%	104%	0
LCSD-081006	99.6%	99.5%	0
FRP080906-B1	86.0%	98.4%	0
FRP080906-B2	93.3%	105%	0
FRP080906-B3	85.7%	98.2%	0
FRP080906-B4	84.6%	99.7%	0
FRP080906-N1	87.5%	104%	0
FRP080906-N2	89.2%	102%	0

	LCS/MB LIMITS	QC LIMITS
(TFT) = Trifluorotoluene	(82-128)	(53-147)
(BBZ) = Bromobenzene	(82-123)	(60-153)

Log Number Range: 06-14277 to 06-14282

ANALYTICAL RESOURCES INCORPORATED

BETX WATER SURROGATE RECOVERY SUMMARY

ARI Job: JS39
Matrix: Water

QC Report No: JS39-Geomatrix Consultants, Inc.
Project: Former Rhone Poulenc-East Parcel
Event: 8769.006

Client ID	TFT	BBZ	TOT OUT
TRIP BLANK	80.7%	82.6%	0

	LCS/MB LIMITS	QC LIMITS
(TFT) = Trifluorotoluene	(80-126)	(72-124)
(BBZ) = Bromobenzene	(81-119)	(79-119)

Log Number Range: 06-14283 to 06-14283

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
BETX by Method SW8021BMod

Sample ID: LCS-081006
LAB CONTROL SAMPLE

Lab Sample ID: LCS-081006
LIMS ID: 06-14277
Matrix: Soil
Data Release Authorized:
Reported: 08/14/06

QC Report No: JS39-Geomatrix Consultants, Inc.
Project: Former Rhone Poulenc-East Parcel
Event: 8769.006
Date Sampled: NA
Date Received: NA

Date Analyzed LCS: 08/10/06 15:44
LCSD: 08/10/06 16:13
Instrument/Analyst LCS: PID2/PKC
LCSD: PID2/PKC

Purge Volume: 5.0 mL

Sample Amount LCS: 100 mg-dry-wt
LCSD: 100 mg-dry-wt

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
Benzene	400	410	97.6%	384	410	93.7%	4.1%
Toluene	3260	3340	97.6%	3070	3340	91.9%	6.0%
Ethylbenzene	628	610	103%	588	610	96.4%	6.6%
m,p-Xylene	2290	2290	100%	2120	2290	92.6%	7.7%
o-Xylene	834	795	105%	778	795	97.9%	6.9%

Reported in µg/kg (ppb)

RPD calculated using sample concentrations per SW846.

BETX Surrogate Recovery

	LCS	LCSD
Trifluorotoluene	109%	99.6%
Bromobenzene	104%	99.5%

FORM III

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
TPHG by Method NWTPHG

Sample ID: LCS-081006
LAB CONTROL SAMPLE

Lab Sample ID: LCS-081006
LIMS ID: 06-14277
Matrix: Soil
Data Release Authorized:
Reported: 08/14/06

QC Report No: JS39-Geomatrix Consultants, Inc.
Project: Former Rhone Poulenc-East Parcel
Event: 8769.006
Date Sampled: NA
Date Received: NA

Date Analyzed LCS: 08/10/06 15:44
LCSD: 08/10/06 16:13
Instrument/Analyst LCS: PID2/PKC
LCSD: PID2/PKC

Purge Volume: 5.0 mL

Sample Amount LCS: 100 mg-dry-wt
LCSD: 100 mg-dry-wt

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
Gasoline Range Hydrocarbons	52.5	50.0	105%	52.5	50.0	105%	0.0%

Reported in mg/kg (ppm)

RPD calculated using sample concentrations per SW846.

TPHG Surrogate Recovery

	LCS	LCSD
Trifluorotoluene	109%	110%
Bromobenzene	106%	106%

FORM III

BETX/GAS METHOD BLANK SUMMARY

BLANK NO.

MB081006S1

Lab Name: ANALYTICAL RESOURCES, INC

Client: GEOMATRIX

SDG No.: JS39

Project No.: FRP-EAST PARCEL

Date Analyzed : 08/10/06

Matrix: SOIL

Time Analyzed : 1643

Instrument ID : PID2

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS, and MSD:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED
01	LCS081006S1	LCS081006S1	08/10/06
02	LCSD081006S1	LCSD081006S1	08/10/06
03	TRIP BLANK	JS39G	08/10/06
04	FRP080906-B1	JS39A	08/10/06
05	FRP080906-B2	JS39B	08/10/06
06	FRP080906-B3	JS39C	08/10/06
07	FRP080906-B4	JS39D	08/10/06
08	FRP080906-N1	JS39E	08/10/06
09	FRP080906-N2	JS39F	08/10/06
10			
11			
12			
13			
14			
15			
16			
17			
18			
19			
20			
21			
22			
23			
24			
25			
26			
27			
28			
29			
30			

FORM IV BETX/GAS

BETX/GAS ANALYTICAL SEQUENCE

Lab Name: ANALYTICAL RESOURCES, INC Client: GEOMATRIX

SDG No.: JS39 Project: FRP-EAST PARCEL

Instrument ID: PID2 GC Detector: RTX 502-2 PID

Run Date: 06/29/06

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, AND STANDARDS, IS GIVEN BELOW:

METHOD SURROGATE RT
S1 : 6.44 S2 : 14.56

	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT #	S2 RT #
01	BTEX .25	BTEX .25	06/29/06	1136	6.42	14.55
02	BTEX .5	BTEX .5	06/29/06	1206	6.42	14.55
03	BTEX 5	BTEX 5	06/29/06	1235	6.43	14.55
04	BTEX 25	BTEX 25	06/29/06	1304	6.43	14.55
05	BTEX 100	BTEX 100	06/29/06	1334	6.43	14.55
06	BTEX 200	BTEX 200	06/29/06	1403	6.44	14.56
07	BTEX ICV	BTEX ICV	06/29/06	1433	6.43	14.55
08	RT0629+BCAL	RT0629+BCAL	06/29/06	1502	6.44	14.56
09	BTEX 25 RE	BTEX 25 RE	06/29/06	1610	6.45	14.56
10	BTEX 100 RE	BTEX 100 RE	06/29/06	1639	6.45	14.56
11	BTEX 200 RE	BTEX 200 RE	06/29/06	1708	6.44	14.56
12	RINSE	RINSE	06/29/06	1738		14.55
13	GAS .1	GAS .1	06/29/06	1807	6.43	14.56
14	GAS .25	GAS .25	06/29/06	1836	6.44	14.56
15	GAS 1	GAS 1	06/29/06	1906	6.44	14.55
16	GAS 2.5	GAS 2.5	06/29/06	1935	6.44	14.55
17	GAS 5	GAS 5	06/29/06	2005	6.44	14.55
18	GAS 20	GAS 20	06/29/06	2034	6.46	14.56
19	RINSE	RINSE	06/29/06	2103		14.55
20	GAS ICV	GAS ICV	06/29/06	2133	6.44	14.55

		QC LIMITS
S1	= TFT(Surr)	(+/- 0.07 MINUTES)
S2	= BB(Surr)	(+/- 0.07 MINUTES)

* Values outside of QC limits.

FORM VIII-2 BETX

BETX/GAS ANALYTICAL SEQUENCE

Lab Name: ANALYTICAL RESOURCES, INC Client: GEOMATRIX

SDG No.: JS39 Project: FRP-EAST PARCEL

Instrument ID: PID2 GC Detector: RTX 502-2 PID

Run Date: 07/27/06

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, AND STANDARDS, IS GIVEN BELOW:

METHOD SURROGATE RT
S1 : 6.44 S2 : 14.56

	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT #	S2 RT #
01	ZZZZZ	ZZZZZ	07/27/06	0953	6.47	14.56
02	ZZZZZ	ZZZZZ	07/27/06	1022		
03	ZZZZZ	ZZZZZ	07/27/06	1051		
04	BTEX .25	BTEX .25	07/27/06	1121	6.41	14.55
05	BTEX .5	BTEX .5	07/27/06	1150	6.41	14.54
06	BTEX 5	BTEX 5	07/27/06	1220	6.42	14.55
07	BTEX 25	BTEX 25	07/27/06	1249	6.43	14.55
08	BTEX 100	BTEX 100	07/27/06	1319	6.44	14.55
09	BTEX 200	BTEX 200	07/27/06	1348	6.44	14.56
10	BTEX ICV	BTEX ICV	07/27/06	1417	6.43	14.56

	QC LIMITS
S1 = TFT(Surr)	(+/- 0.07 MINUTES)
S2 = BB(Surr)	(+/- 0.07 MINUTES)

* Values outside of QC limits.

FORM VIII-2 BETX

BETX/GAS ANALYTICAL SEQUENCE

Lab Name: ANALYTICAL RESOURCES, INC Client: GEOMATRIX

SDG No.: JS39 Project: FRP-EAST PARCEL

Instrument ID: PID2 GC Detector: RTX 502-2 PID

Run Date: 08/10/06

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, AND STANDARDS, IS GIVEN BELOW:

METHOD SURROGATE RT
S1 : 6.43 S2 : 14.56

	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT #	S2 RT #
01	ZZZZZ	ZZZZZ	08/10/06	1349	6.44	14.57
02	RT0810+BCAL	RT0810+BCAL	08/10/06	1418	6.43	14.56
03	GCAL 1	GCAL 1	08/10/06	1448	6.44	14.55
04	LCS081006S1	LCS081006S1	08/10/06	1544	6.45	14.56
05	LCSD081006S1	LCSD081006S1	08/10/06	1613	6.44	14.56
06	MB081006S1	MB081006S1	08/10/06	1643	6.42	14.55
07	TRIP BLANK	JS39G	08/10/06	1902	6.48	14.57
08	ZZZZZ	ZZZZZ	08/10/06	1931	6.43	14.56
09	FRP080906-B1	JS39A	08/10/06	2000	6.42	14.55
10	FRP080906-B2	JS39B	08/10/06	2030	6.42	14.54
11	FRP080906-B3	JS39C	08/10/06	2059	6.42	14.55
12	FRP080906-B4	JS39D	08/10/06	2129	6.47	14.56
13	ZZZZZ	ZZZZZ	08/10/06	2158		14.54
14	BCAL 2	BCAL 2	08/10/06	2227	6.42	14.54
15	GCAL 2	GCAL 2	08/10/06	2257	6.44	14.55
16	FRP080906-N1	JS39E	08/10/06	2326	6.42	14.54
17	FRP080906-N2	JS39F	08/10/06	2356	6.41	14.54
18	ZZZZZ	ZZZZZ	08/11/06	0025	6.44	14.55
19	ZZZZZ	ZZZZZ	08/11/06	0055	6.47	14.56
20	ZZZZZ	ZZZZZ	08/11/06	0124	6.43	14.55
21	ZZZZZ	ZZZZZ	08/11/06	0153	6.47	14.56
22	ZZZZZ	ZZZZZ	08/11/06	0223	6.41	14.54
23	ZZZZZ	ZZZZZ	08/11/06	0252	6.44	14.55
24	ZZZZZ	ZZZZZ	08/11/06	0322	6.43	14.55
25	ZZZZZ	ZZZZZ	08/11/06	0351		14.54
26	BCAL 3	BCAL 3	08/11/06	0421	6.41	14.53
27	GCAL 3	GCAL 3	08/11/06	0450	6.44	14.54

	QC LIMITS
S1 = TFT(Surr)	(+/- 0.07 MINUTES)
S2 = BB(Surr)	(+/- 0.07 MINUTES)

* Values outside of QC limits.

FORM VIII-2 BETX

Analytical Resources, Incorporated
Analytical Chemists and Consultants

GEOMATRIX
Received
AUG 18 2006
SEATTLE

16 August 2006

Zanna Satterwhite
Geomatrix
600 University, Suite 1020
Seattle, WA 98101

RE: Project No: 8769.006, FRP
ARI Job No: JT13

Dear Zanna:

Please find enclosed the original chain of custody documentation (COC) and the final results for the samples from the project referenced above. Analytical Resources Inc. (ARI) accepted two soil samples and one trip blank on August 15, 2006. ARI received the samples intact and there were no discrepancies in the paperwork. The samples were analyzed for BETX as requested.

No analytical complications were noted.

A copy of these reports and all raw data will remain on file with ARI. If you have any questions or require additional information, please contact me at your convenience.

Sincerely,

ANALYTICAL RESOURCES, INC.

Mark D. Harris
Project Manager
206/695-6210
mark@arilabs.com

Enclosures

cc: file JT13

MDH/mdh

Chain of Custody
Documentation

Prepared For

Geomatrix

Project Name: FRP 8769.006

ARI Job No. JT13

Prepared By

Analytical Resources, Inc.

Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number: JT13	Turn-around Requested: 24 Hr
ARI Client Company: Geomatrix	Phone: 206 342 1760
Client Contact: John Lony	
Client Project Name: FRP	
Client Project #: 8769.006	Samplers: Pat Hosich

Page: 1 of 1

Date: 8/15/06 | Ice Present? YES

No. of Coolers: 1 | Cooler Temps: 6°C

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	BTEX by 8021B								Notes/Comments
													06-14806-007
FRP081506 B5	8/15/06	1335	S	4	X								No strong odor
FRP081506B5A	8/15/06	1336	S	4	X								No strong odor

Comments/Special Instructions	Relinquished by: (Signature)	Received by: (Signature)	Relinquished by: (Signature)	Received by: (Signature)
Sub out if necessary.	Pat Hosich	[signature]		
	Printed Name: Pat Hosich	Printed Name: S. DUNNIHOO	Printed Name:	Printed Name:
	Company: Geomatrix	Company: ARI	Company:	Company:
	Date & Time: 8/15/06 15:50	Date & Time: 08/15/06 15:50	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 Summary Package

Prepared For

Geomatrix

Project Name: FRP 8769.006

ARI Job No. JT13

Prepared By

Analytical Resources, Inc.

ARI Data Reporting Qualifiers

Effective 11/22/04

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 reporting limit is raised due to a positive chromatographic interference. The compound is not detected above the raised limit but may be present at or below the 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

Total Solids

BETX/TPHG Total Solids-betxts
Data By: Paul K. Campbell
Created: 8/16/06

Worklist: 1395
Analyst: PKC
Comments:

ARI ID	Tare Wt (g)	Wet Wt (g)	Dry Wt (g)	% Solids
1. JT13A 06-14805	1.12	11.50	9.00	75.9
2. JT13B 06-14806	1.14	12.04	9.23	74.2

Worklist ID: 1395 Page: 1
* - BETX TS Copied From VOA TS
% - BETX TS Copied From Metals TS
$ - BETX TS Copied From Extraction TS

BETX

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
BETX by Method SW8021BMod

Sample ID: FRP081506 B5
SAMPLE

Lab Sample ID: JT13A
LIMS ID: 06-14805
Matrix: Soil
Data Release Authorized:
Reported: 08/16/06

QC Report No: JT13-Geomatrix
Project: FRP
Event: 8769.006
Date Sampled: 08/15/06
Date Received: 08/15/06

Date Analyzed: 08/15/06 17:50
Instrument/Analyst: PID2/PKC

Purge Volume: 5.0 mL
Sample Amount: 62 mg-dry-wt
Percent Moisture: 24.1%

CAS Number	Analyte	RL	Result
71-43-2	Benzene	20	< 20 U
108-88-3	Toluene	20	70
100-41-4	Ethylbenzene	20	< 20 U
	m,p-Xylene	40	< 40 U
95-47-6	o-Xylene	20	< 20 U

BETX Surrogate Recovery

Trifluorotoluene	89.1%
Bromobenzene	104%

BETX values reported in µg/kg (ppb)

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
BETX by Method SW8021BMod

Sample ID: FRP081506 B5A
SAMPLE

Lab Sample ID: JT13B
LIMS ID: 06-14806
Matrix: Soil
Data Release Authorized:
Reported: 08/16/06

QC Report No: JT13-Geomatrix
Project: FRP
Event: 8769.006
Date Sampled: 08/15/06
Date Received: 08/15/06

Date Analyzed: 08/15/06 18:20
Instrument/Analyst: PID2/PKC

Purge Volume: 5.0 mL
Sample Amount: 62 mg-dry-wt
Percent Moisture: 25.8%

CAS Number	Analyte	RL	Result
71-43-2	Benzene	20	< 20 U
108-88-3	Toluene	20	220
100-41-4	Ethylbenzene	20	< 20 U
	m,p-Xylene	40	< 40 U
95-47-6	o-Xylene	20	< 20 U

BETX Surrogate Recovery

Trifluorotoluene	99.0%
Bromobenzene	107%

BETX values reported in µg/kg (ppb)

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
BETX by Method SW8021BMod

Sample ID: Trip Blank
SAMPLE

Lab Sample ID: JT13C
LIMS ID: 06-14807
Matrix: Water
Data Release Authorized:
Reported: 08/16/06

QC Report No: JT13-Geomatrix
Project: FRP
Event: 8769-006
Date Sampled: 08/15/06
Date Received: 08/15/06

Date Analyzed: 08/15/06 17:21
Instrument/Analyst: PID2/PKC

Purge Volume: 5.0 mL
Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
71-43-2	Benzene	0.25	< 0.25 U
108-88-3	Toluene	0.25	< 0.25 U
100-41-4	Ethylbenzene	0.25	< 0.25 U
	m,p-Xylene	0.50	< 0.50 U
95-47-6	o-Xylene	0.25	< 0.25 U

BETX Surrogate Recovery

Trifluorotoluene	102%
Bromobenzene	107%

BETX values reported in µg/L (ppb)

FORM I

ANALYTICAL RESOURCES INCORPORATED

BETX SOIL SURROGATE RECOVERY SUMMARY

ARI Job: JT13
Matrix: Soil

QC Report No: JT13-Geomatrix
Project: FRP
Event: 8769.006

Client ID	TFT	BBZ	TOT OUT
MB-081506	97.4%	104%	0
LCS-081506	114%	107%	0
LCSD-081506	102%	104%	0
FRP081506 B5	89.1%	104%	0
FRP081506 B5A	99.0%	107%	0

	LCS/MB LIMITS	QC LIMITS
(TFT) = Trifluorotoluene	(82-128)	(53-147)
(BBZ) = Bromobenzene	(82-123)	(60-153)

Log Number Range: 06-14805 to 06-14806

ANALYTICAL RESOURCES INCORPORATED

BETX WATER SURROGATE RECOVERY SUMMARY

ARI Job: JT13
Matrix: Water

QC Report No: JT13-Geomatrix
Project: FRP
Event: 8769-006

Client ID	TFT	BBZ	TOT OUT
Trip Blank	102%	107%	0

	LCS/MB LIMITS	QC LIMITS
(TFT) = Trifluorotoluene	(80-126)	(72-124)
(BBZ) = Bromobenzene	(81-119)	(79-119)

Log Number Range: 06-14807 to 06-14807

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
BETX by Method SW8021BMod

Sample ID: LCS-081506
LAB CONTROL SAMPLE

Lab Sample ID: LCS-081506
LIMS ID: 06-14805
Matrix: Soil
Data Release Authorized:
Reported: 08/16/06

QC Report No: JT13-Geomatrix
Project: FRP
Event: 8769.006
Date Sampled: NA
Date Received: NA

Date Analyzed LCS: 08/15/06 12:18
LCSD: 08/15/06 12:47
Instrument/Analyst LCS: PID2/PKC
LCSD: PID2/PKC

Purge Volume: 5.0 mL

Sample Amount LCS: 100 mg-dry-wt
LCSD: 100 mg-dry-wt

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
Benzene	427	410	104%	404	410	98.5%	5.5%
Toluene	3560	3340	107%	3230	3340	96.7%	9.7%
Ethylbenzene	677	610	111%	621	610	102%	8.6%
m,p-Xylene	2510	2290	110%	2300	2290	100%	8.7%
o-Xylene	892	795	112%	828	795	104%	7.4%

Reported in µg/kg (ppb)

RPD calculated using sample concentrations per SW846.

BETX Surrogate Recovery

	LCS	LCSD
Trifluorotoluene	114%	102%
Bromobenzene	107%	104%

FORM III

BETX/GAS METHOD BLANK SUMMARY

BLANK NO.

MB081506S1

Lab Name: ANALYTICAL RESOURCES, INC Client: GEOMATRIX

SDG No.: JT13 Project No.: FRP

Date Analyzed : 08/15/06 Matrix: SOIL

Time Analyzed : 1317 Instrument ID : PID2

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS, and MSD:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED
01	LCS081506S1	LCS081506S1	08/15/06
02	LCSD081506S1	LCSD081506S1	08/15/06
03	TRIP BLANK	JT13C	08/15/06
04	FRP081506 B5	JT13A	08/15/06
05	FRP081506 B5	JT13B	08/15/06
06			
07			
08			
09			
10			
11			
12			
13			
14			
15			
16			
17			
18			
19			
20			
21			
22			
23			
24			
25			
26			
27			
28			
29			
30			

FORM IV BETX/GAS

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
BETX by Method SW8021BMod

Sample ID: MB-081506
METHOD BLANK

Lab Sample ID: MB-081506
LIMS ID: 06-14805
Matrix: Soil
Data Release Authorized:
Reported: 08/16/06

QC Report No: JT13-Geomatrix
Project: FRP
Event: 8769.006
Date Sampled: NA
Date Received: NA

Date Analyzed: 08/15/06 13:17
Instrument/Analyst: PID2/PKC

Purge Volume: 5.0 mL
Sample Amount: 100 mg-dry-wt

CAS Number	Analyte	RL	Result
71-43-2	Benzene	12	< 12 U
108-88-3	Toluene	12	< 12 U
100-41-4	Ethylbenzene	12	< 12 U
	m,p-Xylene	25	< 25 U
95-47-6	o-Xylene	12	< 12 U

BETX Surrogate Recovery

Trifluorotoluene	97.4%
Bromobenzene	104%

BETX values reported in µg/kg (ppb)

Laboratory Data Package

Prepared For

Geomatrix

Project Name: FRP 8769.006

ARI Job No. JT13

Prepared By

Analytical Resources, Inc.

BTEX Analysis
QC Summary Data

Prepared For

Geomatrix

Project Name: FRP 8769.006

ARI Job No. JT13

Prepared By

Analytical Resources, Inc.

ANALYTICAL RESOURCES INCORPORATED

BETX SOIL SURROGATE RECOVERY SUMMARY

ARI Job: JT13
Matrix: Soil

QC Report No: JT13-Geomatrix
Project: FRP
Event: 8769.006

Client ID	TFT	BBZ	TOT OUT
MB-081506	97.4%	104%	0
LCS-081506	114%	107%	0
LCSD-081506	102%	104%	0
FRP081506 B5	89.1%	104%	0
FRP081506 B5A	99.0%	107%	0

	LCS/MB LIMITS	QC LIMITS
(TFT) = Trifluorotoluene	(82-128)	(53-147)
(BBZ) = Bromobenzene	(82-123)	(60-153)

Log Number Range: 06-14805 to 06-14806

ANALYTICAL RESOURCES INCORPORATED

BETX WATER SURROGATE RECOVERY SUMMARY

ARI Job: JT13
Matrix: Water

QC Report No: JT13-Geomatrix
Project: FRP
Event: 8769-006

Client ID	TFT	BBZ	TOT OUT
Trip Blank	102%	107%	0

	LCS/MB LIMITS	QC LIMITS
(TFT) = Trifluorotoluene	(80-126)	(72-124)
(BBZ) = Bromobenzene	(81-119)	(79-119)

Log Number Range: 06-14807 to 06-14807

FORM II BETX

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
BETX by Method SW8021BMod

Sample ID: LCS-081506
LAB CONTROL SAMPLE

Lab Sample ID: LCS-081506
LIMS ID: 06-14805
Matrix: Soil
Data Release Authorized:
Reported: 08/16/06

QC Report No: JT13-Geomatrix
Project: FRP
Event: 8769.006
Date Sampled: NA
Date Received: NA

Date Analyzed LCS: 08/15/06 12:18
LCSD: 08/15/06 12:47
Instrument/Analyst LCS: PID2/PKC
LCSD: PID2/PKC

Purge Volume: 5.0 mL

Sample Amount LCS: 100 mg-dry-wt
LCSD: 100 mg-dry-wt

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
Benzene	427	410	104%	404	410	98.5%	5.5%
Toluene	3560	3340	107%	3230	3340	96.7%	9.7%
Ethylbenzene	677	610	111%	621	610	102%	8.6%
m,p-Xylene	2510	2290	110%	2300	2290	100%	8.7%
o-Xylene	892	795	112%	828	795	104%	7.4%

Reported in µg/kg (ppb)

RPD calculated using sample concentrations per SW846.

BETX Surrogate Recovery

	LCS	LCSD
Trifluorotoluene	114%	102%
Bromobenzene	107%	104%

BETX/GAS METHOD BLANK SUMMARY

BLANK NO.

MB081506S1

Lab Name: ANALYTICAL RESOURCES, INC

Client: GEOMATRIX

SDG No.: JT13

Project No.: FRP

Date Analyzed : 08/15/06

Matrix: SOIL

Time Analyzed : 1317

Instrument ID : PID2

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS, and MSD:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED
01	LCS081506S1	LCS081506S1	08/15/06
02	LCSD081506S1	LCSD081506S1	08/15/06
03	TRIP BLANK	JT13C	08/15/06
04	FRP081506 B5	JT13A	08/15/06
05	FRP081506 B5	JT13B	08/15/06
06			
07			
08			
09			
10			
11			
12			
13			
14			
15			
16			
17			
18			
19			
20			
21			
22			
23			
24			
25			
26			
27			
28			
29			
30			

FORM IV BETX/GAS

BETX/GAS ANALYTICAL SEQUENCE

Lab Name: ANALYTICAL RESOURCES, INC Client: GEOMATRIX

SDG No.: JT13 Project: FRP

Instrument ID: PID2 GC Detector: RTX 502-2 PID

Run Date: 07/27/06

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, AND STANDARDS, IS GIVEN BELOW:

METHOD SURROGATE RT
S1 : 6.44 S2 : 14.56

	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT #	S2 RT #
01	ZZZZZ	ZZZZZ	07/27/06	0953	6.47	14.56
02	ZZZZZ	ZZZZZ	07/27/06	1022		
03	ZZZZZ	ZZZZZ	07/27/06	1051		
04	BTEX .25	BTEX .25	07/27/06	1121	6.41	14.55
05	BTEX .5	BTEX .5	07/27/06	1150	6.41	14.54
06	BTEX 5	BTEX 5	07/27/06	1220	6.42	14.55
07	BTEX 25	BTEX 25	07/27/06	1249	6.43	14.55
08	BTEX 100	BTEX 100	07/27/06	1319	6.44	14.55
09	BTEX 200	BTEX 200	07/27/06	1348	6.44	14.56
10	BTEX ICV	BTEX ICV	07/27/06	1417	6.43	14.56

	QC LIMITS
S1 = TFT(Surr)	(+/- 0.07 MINUTES)
S2 = BB(Surr)	(+/- 0.07 MINUTES)

* Values outside of QC limits.

FORM VIII-2 BETX

BETX/GAS ANALYTICAL SEQUENCE

Lab Name: ANALYTICAL RESOURCES, INC Client: GEOMATRIX

SDG No.: JT13 Project: FRP

Instrument ID: PID2 GC Detector: RTX 502-2 PID

Run Date: 08/15/06

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, AND STANDARDS, IS GIVEN BELOW:

METHOD SURROGATE RT
S1 : 6.44 S2 : 14.57

	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT #	S2 RT #
01	ZZZZZ	ZZZZZ	08/15/06	1019	6.45	14.56
02	RT0815+BCAL	RT0815+BCAL	08/15/06	1048	6.44	14.57
03	ZZZZZ	ZZZZZ	08/15/06	1118	6.44	14.55
04	LCS081506S1	LCS081506S1	08/15/06	1218	6.45	14.56
05	LCSD081506S1	LCSD081506S1	08/15/06	1247	6.43	14.56
06	MB081506S1	MB081506S1	08/15/06	1317	6.42	14.55
07	TRIP BLANK	JT13C	08/15/06	1721	6.47	14.57
08	FRP081506 B5	JT13A	08/15/06	1750	6.43	14.56
09	FRP081506 B5	JT13B	08/15/06	1820	6.42	14.55
10	ZZZZZ	ZZZZZ	08/15/06	1849	6.43	14.56
11	ZZZZZ	ZZZZZ	08/15/06	1919	6.46	14.56
12	ZZZZZ	ZZZZZ	08/15/06	1948	6.44	14.56
13	ZZZZZ	ZZZZZ	08/15/06	2017		14.55
14	BCAL 2	BCAL 2	08/15/06	2047	6.43	14.55

	QC LIMITS
S1 = TFT(Surr)	(+/- 0.07 MINUTES)
S2 = BB(Surr)	(+/- 0.07 MINUTES)

* Values outside of QC limits.

FORM VIII-2 BETX

Geomatrix

Memorandum

TO:	Larry McGaughey	**DATE:**	September 7, 2006
FROM:	Tasya Gray	**PROJ. NO.:**	8769.006
CC:	Project File	**PROJ. NAME:**	Former Rhone-Poulenc Site
SUBJECT:	**East Parcel Redevelopment Soil Sampling Summary Data Quality Review – SDGs JU16, JU19, JU45, and JU46**		

This memorandum presents a summary data quality review of 12 primary soil samples, 8 primary water samples, 2 field duplicate samples, and 3 trip blanks collected on August 24 and 26, 2006. The samples were submitted to Analytical Resources, Incorporated (ARI), a Washington State Department of Ecology (Ecology)-accredited laboratory, located in Tukwila, Washington. The samples were analyzed for the following analyses:

- Benzene, toluene, ethylbenzene and total xylenes (BTEX) by EPA Method 8021
- Total organic carbon (TOC) by Plumb, 1981 Method

The analyses were performed in general accordance with methods specified in U.S. Environmental Protection Agency's (EPA) Test Methods for Evaluating Solid Waste (SW-846), January 1995 and associated revisions.

Laboratory sample delivery groups (SDGs) associated with the August 2006 sampling events are listed below. The samples associated with each SDG are presented in the table at the end of this memorandum.

Laboratory SDG	Date(s) Collected
JU16	August 24, 2006
JU19	August 24, 2006
JU45	August 26, 2006
JU46	August 26, 2006

Upon receipt by ARI, the sample jar information was compared to the chain-of-custody form. Discrepancies were noted by the laboratory and addressed with Geomatrix personnel prior to sample analyses. The temperatures of the coolers were recorded as part of the check-in procedure. The coolers were within the acceptable range of 4 +/- 2 °C with the exception of SDGs JU16 and JU19 which were 9°C and 10°C, respectively. The sample coolers did contain ice and no data was qualified due to these exceedances.

Data review is based on method performance criteria and QC criteria as documented in the May 2006 Soil Sampling Quality Assurance Project Plan (QAPP). The laboratory provided validatable packages containing summarized sample results and associated QA/QC data as well as instrument printouts and sample preparation and injection log pages as required by the QAPP. The data review conducted on these SDGs included a review of summarized results and QA/QC data per the requirements set forth in Section D1 of the QAPP. The control limits provided in the QAPP are advisory limits; therefore, the most current control limits provided by the laboratory were used to evaluate the quality control data. In cases where the laboratory did not track limits for an analyte, the limits in the QAPP were used. Hold times, calibration verification, method blanks, surrogate recoveries, laboratory control samples (LCS), matrix spike/matrix spike duplicate (MS/MSD) results, laboratory duplicate results, field QC results, and reporting limits were reviewed to assess compliance with applicable methods and the QAPP. If data qualification was required, data were qualified in general accordance with the definitions and use of qualifying flags outlined in the following EPA documents: USEPA Contract Laboratory Program (CLP) National Functional Guidelines for Organic Data Review, October 1999.

The following qualifiers may be added to the data:

- U: The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
- J: The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
- UJ: The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
- R: The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

ORGANIC ANALYSES

Samples were analyzed for BTEX and TOC by the methods identified in the introduction to this report, and were evaluated for the following criteria.

1. Holding Times – Acceptable

2. Initial Calibration – Acceptable

3. Calibration Verification – Acceptable

4. Blanks – Acceptable except as noted:

   A trip blank was listed on the chain-of-custody but was inadvertently not included with SDG JU19; however, all method blanks were non-detect and there was at least one soil and groundwater sample included in the SDG that were non-detect, indicating there was not a cooler contamination issue. No data was qualified.
   No equipment blanks were collected during this sampling event, because all sampling equipment used to collect BTEX samples was dedicated (EPA Method 5035).

5. Surrogates – Acceptable

6. Laboratory Control Samples (LCS) – Acceptable

7. Laboratory Duplicates – Acceptable except as noted:

   Laboratory duplicates were not included in the data package for SDGs JU16, JU19, JU45, or JU46, but the LCS duplicates showed good RPDs.

8. Matrix Spike/Matrix Spike Duplicate (MS/MSD) – Acceptable except as noted:

   MS/MSDs were not included in data packages JU16, JU19, or JU46. Results were evaluated based on the LCS where available.

   The MS/MSD performed on sample RP082606-01 in SDG JU45 showed recoveries in the MS and MSD above the control limits for all analytes except benzene in the MS. The associated sample results were all non-detect though, so no data was qualified.

   The project frequency requirement of one MS/MSD for every 20 samples was achieved with MS/MSD volume collected at additional sites included in this sampling event.

9. Field Duplicates – Acceptable except as noted:

   During this sampling event, soil field duplicate sample RP082406-15 was collected with primary sample RP082406-13 for SDG JU19. Water field duplicate sample RP082406-04 was collected with primary sample RP082406-03 for SDG JU16. This

meets the project frequency requirement of 10% or 1 for every 10 samples, with the exception of field duplicates for TOC analysis. The relative percent differences (RPDs) for all duplicates were below the project specific control limit of 30%, as shown in the table below.

Sample ID/ Field Duplicate ID	Analyte	Primary Result (ug/kg)	Duplicate Result (ug/kg)	RPD (%)
RP082406-13/ RP082406-15	toluene	18,000	20,000	11
Sample ID/ Field Duplicate ID	**Analyte**	**Primary Result (µg/L)**	**Duplicate Result (µg/L)**	**RPD (%)**
RP082406-03/RP082406-04	toluene	4.1	3.6	13

10. Reporting Limits – Acceptable

    Due to elevated toluene levels in some samples, reporting limits are elevated for other constituents in multiple samples from SDGs JU16, JU19, and JU45.

11. Other –

    TOC analysis was not requested on the original chains-of-custody for SDGs JU16 and JU19; this analysis was requested after samples were submitted for samples RP082406-05 and RP082406-16.

OVERALL ASSESSMENT OF DATA

The ARI SDGs JU16, JU19, JU45, and JU46 are 100 percent complete. The data usability is based on EPA's guidance documents and the QAPP referenced in the introduction to this report. Few problems were identified and analytical performance was generally within specified limits. The data are acceptable and meet the project's data quality objectives.

Sample ID	SDG	Laboratory ID	Qualified Analyte	Qualified Result	Units	Qualifier Reason
RP082406-05	JU16	JU16A	none			
RP082406-06	JU16	JU16B	none			
RP082406-07	JU16	JU16C	none			
RP082406-04	JU16	JU16D	none			
RP082406-03	JU16	JU16G	none			

Sample ID	SDG	Laboratory ID	Qualified Analyte	Qualified Result	Units	Qualifier Reason
RP082406-08 (trip blank)	JU16	JU16H	none			
RP082406-09	JU19	JU19A	none			
RP082406-10	JU19	JU19B	none			
RP082406-11	JU19	JU19C	none			
RP082406-12	JU19	JU19D	none			
RP082406-13	JU19	JU19E	none			
RP082406-14	JU19	JU19F	none			
RP082406-15	JU19	JU19G	none			
RP082406-16	JU19	JU19H	none			
RP082406-17	JU19	JU19I	none			
RP082406-18	JU19	JU19J	none			
RP082606-01	JU45	JU45A	none			
RP082606-02	JU45	JU45B	none			
RP082606-03	JU45	JU45C	none			
RP082606-04	JU45	JU45D	none			
RP082606-05	JU45	JU45E	none			
RP082606-06 (trip blank)	JU45	JU45F	none			
RP082606-07	JU46	JU46A	none			
RP082606-08	JU46	JU46B	none			
RP082606-09 (trip blank)	JU46	JU46C	none			

Analytical Resources, Incorporated
Analytical Chemists and Consultants

14 September 2006

GEOMATRIX Received SEP 15 2006 SEATTLE

Zanna Satterwhite
Geomatrix
600 University Suite 1020
Seattle, WA 98101

RE: Client Project: Former Rhone Poulenc, 8769.006
ARI Job Numbers: JU16, JU19, JU45, JU46

Dear Zanna:

Please find enclosed the final data package for samples for the project referenced above. ARI received eleven soil samples and five water samples on August 24, 2006. Three soil samples, two water samples and one trip blank were received on August 26, 2006. One soil sample, one water sample and one trip blank were received on August 28, 2006. All samples were received intact. It was noted upon sample receipt that the trip blank was not received on August 24, 2006. It was also noted that the time on the vials for sample RP082406-07 was recorded as "1054".

Two soil samples were placed on hold as specified. The remaining samples were analyzed for BETX by method 8021B as requested.

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

A copy of this package will be kept on file at ARI. If you have questions or problems, please feel free to contact me at any time.

Sincerely,

ANALYTICAL RESOURCES, INC.

Mark D. Harris
Project Manager
206/695-6210
markh@arilabs.com

Enclosures

cc: files JU16, JU19, JU45, JU46

MDH/mdh

Chain of Custody Documentation

Prepared
for

Geomatrix Consultants

Project: FRP , 8769.006

ARI Job Nos.:JU16, JU19, JU45 & JU46

Prepared
By

Analytical Resources, Inc.

Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number: JU16	Turn-around Requested: 24-hour (see comments)	Page: 1 of 1	
ARI Client Company: Geomatrix	Phone: 206-342-1772	Date: 8/24/06	Ice Present? Y
Client Contact: Zanna Satterwhite		No. of Coolers: 1	Cooler Temps: 9.0°
Client Project Name: Former Rhone-Poulenc			
Client Project #: 8769.006	Samplers: Z. Satterwhite		

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	BETX 8021			HOLD FOR ANALYSIS					Notes/Comments
RP082406-05	8/24/06	1026	S	4x40mL 1x2oz				X					*
RP082406-06		1030	S	4x40mL 1x2oz				X					*
RP082406-07		1055	W	4x40mL ~~1x2oz~~ JDL	X								*
RP082406-04		0934	W	3x40mL									SA **
RP082406-01		0840	S	4x40mL 1x2oz									*
RP082406-02		0845	S	4x40mL 1x2oz									*
RP082406-03		0934	W	3x40mL ~~1x2oz~~ JDL									*
RP082406-08		1100	W	3x40mL									** (Trip Blank)

ZAS 8/24/06

Comments/Special Instructions	Relinquished by:	Received by:	Relinquished by:	Received by:
* 24 HR TA	(Signature) Za S	(Signature) Emily Odachowski	(Signature)	(Signature)
	Printed Name: Zanna Satterwhite	Printed Name: Emily Odachowski	Printed Name:	Printed Name:
** 48 HR TA	Company: Geomatrix	Company: ARI	Company:	Company:
	Date & Time: 8/24/06 1152	Date & Time: 8/24/06 1152	Date & Time:	Date & Time:

0002

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.

Cooler Receipt Form

ANALYTICAL RESOURCES INCORPORATED

ARI Client: GEOMATRIX Project Name: _____

COC NO.: _____ Delivered By: EG

Tracking NO.: _____ Date: 8/24/06

ARI Job No.: _____ Lims NO.: _____

Preliminary Examination Phase:

1. Were intact, properly signed and dated custody seals attached To the outside of the cooler? ..... YES (NO)
2. Were custody papers included with the cooler ..... (YES) NO
3. Were custody papers properly filled out (ink, signed etc.)? ..... (YES) NO
4. Complete custody forms and attach all shipping documents ..... (OK) NA

Cooler Accepted BY: Emily Adamowski Date: 8/24/06 Time: 1156

Log-IN Phase:

5. Was a temperature blank include in the cooler? ..... YES (NO)
6. Record Cooler Temperature..... 4 °C
7. What kind of packing material was used? ..... —
8. Was sufficient ice used (if appropriate)? ..... (YES) NO
9. Were all bottles sealed in separate plastic bags? ..... YES (NO)
10. Did all bottles arrive in good condition (unbroken)? ..... (YES) NO
11. Were all bottle labels complete and legible? ..... (YES) NO
12. Did all bottle labels and tags agree with custody papers? ..... YES (NO)
13. Were all bottles used correct for the requested analyses? ..... (YES) NO
14. Do any of the analyses (bottles) require preservative? (If so, Preservation checklist must be attached) ..... YES (NO)
15. Were all VOA vials free of air bubbles? ..... YES (NO)
16. Was sufficient amount of sample sent in each bottle? ..... (YES) NO
17. Notify Project Manager of any discrepancies or concerns..... (OK) NA

Cooler Opened By: Emily Adamowski Date: 8/24/06 Time 1156

Explain any discrepancies or negative responses:

RP 082406-07 time on vials = 1054

RP082406-04 1/3 pea bubble

TB 2/3 w/ pea bubble

8/24/06

Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number: JLL19	Turn-around Requested: 24-hr (see comments)	Page: 1 of 2	
ARI Client Company: Geomatrix	Phone: 206 342 1772	Date: 8/24/06	Ice Present? Y
Client Contact: Zanna Satterwhite		No. of Coolers: 1	Cooler Temps: 10
Client Project Name: Former Rhone-Poulenc			
Client Project #: 8769.006	Samplers: Zanna Satterwhite		

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	BTEX (8021)								Notes/Comments
RP082406-09	8/24/06	1136	S	4x40ml 1x2oz	X								*
RP082406-10		1140	S	4x40ml 1x2oz	X								*
RP082406-11		1202	W	3x40ml	X								*
RP082406-12		1240	S	4x40ml 1x2oz	X								*
RP082406-13		1245	S	4x40ml 1x2oz	X								*
RP082406-14		1360	W	3x40ml	X								*
RP082406-15		1245	S	4x40ml 1x2oz	X								** 2A
RP082406-16		1321	S	4x40ml 1x2oz	X								*
RP082406-17		1326	S	4x40ml 1x2oz	X								*
RP082406-18		1351	W	3x40ml	X								*

Comments/Special Instructions	Relinquished by:	Received by:	Relinquished by:	Received by:
* 24 hr TAT	(Signature)	(Signature) Bob Congleton	(Signature)	(Signature)
** 48 hr TAT	Printed Name: Zanna Satterwhite	Printed Name: Bob Congleton	Printed Name:	Printed Name:
	Company: Geomatrix	Company: ARI	Company:	Company:
	Date & Time: 8/24/06	Date & Time: 8/24/06 1445	Date & Time:	Date & Time:

0004

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: JU19	Turn-around Requested: 24-hr	Page: 2 of 2	
ARI Client Company: Geomatrix	Phone: 206 342 1772	Date: 8/24/06	Ice Present? Y
Client Contact: Zanna Sattenwhite		No. of Coolers: 1	Cooler Temps: 10
Client Project Name: Former Rhone-Poulenc			
Client Project #: 8769.006	Samplers: Zanna Sattenwhite		

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	BTEX (8021)								Notes/Comments
RP082406-19	8/24/06		W	3x40ml	X								** Trip Blank

DAS 8/24/06

Comments/Special Instructions	Relinquished by:	Received by:	Relinquished by:	Received by:
*24 hr TAT **48 hr TAT	(Signature)	(Signature) Bob Congleton	(Signature)	(Signature)
	Printed Name: Zanna Sattenwhite	Printed Name: BOB CONGLETON	Printed Name:	Printed Name:
	Company: Geomatrix	Company: ARI	Company:	Company:
	Date & Time: 8/24/06	Date & Time: 8/24/06 1445	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.

Cooler Receipt Form

ANALYTICAL RESOURCES INCORPORATED

ARI Client: GMX Project Name: _____

COC NO.: _____ Delivered By: HAND

Tracking NO.: _____ Date: _____

ARI Job No.: JU19 Lims NO.: _____

Preliminary Examination Phase:

1. Were intact, properly signed and dated custody seals attached To the outside of the cooler? ..... YES (NO)
2. Were custody papers included with the cooler ..... (YES) NO
3. Were custody papers properly filled out (ink, signed etc.)? ..... (YES) NO
4. Complete custody forms and attach all shipping documents ..... OK (NA)

Cooler Accepted BY: Bob Cox Date: 8/24/06 Time: 1445

Log-IN Phase:

5. Was a temperature blank include in the cooler? ..... YES (NO)
6. Record Cooler Temperature ..... 10.0 °C
7. What kind of packing material was used? ..... ICE
8. Was sufficient ice used (if appropriate)? ..... YES NO Recently sampled
9. Were all bottles sealed in separate plastic bags? ..... YES (NO)
10. Did all bottles arrive in good condition (unbroken)? ..... (YES) NO
11. Were all bottle labels complete and legible? ..... (YES) NO
12. Did all bottle labels and tags agree with custody papers? ..... YES (NO)
13. Were all bottles used correct for the requested analyses? ..... (YES) NO
14. Do any of the analyses (bottles) require preservative? (If so, Preservation checklist must be attached) ..... YES (NO)
15. Were all VOA vials free of air bubbles? ..... (YES) NO
16. Was sufficient amount of sample sent in each bottle? ..... (YES) NO
17. Notify Project Manager of any discrepancies or concerns ..... (OK) NA

Cooler Opened By: BC Date: 8/24/06 Time: 1445

Explain any discrepancies or negative responses:

A – DID NOT RECEIVE TRIP BLANK SAMPLE.

Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number: SU 4[illegible]	Turn-around Requested: Rush 24 hour if poss	Page: 1	of
ARI Client Company: Geomatrix	Phone: 206-~~4~~342-177[illegible]	Date: 8/26/06	Ice Present? Y
Client Contact: Zanna Satterwhite		No. of Coolers: 1	Cooler Temps: 5.6
Client Project Name: Former Rhone-Poulenc			
Client Project #: 8769.006	Samplers: J. D. Long		

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	EPA 8021 BTEX								Notes/Comments
RP082606-01	8/26/06	0845	S	1-2oz 3 40mL	X								preserved soil
RP082606-02	↓	0920	W	3 40mL	X								
RP082606-03	↓	1015	S	1-2oz 3 40mL	X								preserved soil
RP082606-04	↓	1025	W	3 40mL	X								
RP082606-05	↓	1110	S	1-2oz 3 40mL	X								
RP082606-06	8/26/06	1140	W	3 40mL	X								48 HRTA

Comments/Special Instructions	Relinquished by: (Signature)	Received by: (Signature)	Relinquished by: (Signature)	Received by: (Signature)
24 HR TAT if possible	Printed Name: John D Long	Printed Name: Brian Kehel	Printed Name:	Printed Name:
	Company: GMX	Company: [illegible]	Company:	Company:
	Date & Time: 8/26/06 1200	Date & Time: 8/26/[illegible] 1200	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.

Cooler Receipt Form

ANALYTICAL RESOURCES INCORPORATED

ARI Client: GMX Project Name: FRP

COC NO.: — Delivered By: Hand

Tracking NO.: — Date: 8/26/02

ARI Job No.: JC45 Lims NO.:

Preliminary Examination Phase:

1. Were intact, properly signed and dated custody seals attached To the outside of the cooler? ..... YES (NO)
2. Were custody papers included with the cooler ..... (YES) NO
3. Were custody papers properly filled out (ink, signed etc.)? ..... (YES) NO
4. Complete custody forms and attach all shipping documents ..... (OK) NA

Cooler Accepted BY: [signature] Date: 8/26/02 Time: 1200

Log-IN Phase:

5. Was a temperature blank include in the cooler? ..... YES NO
6. Record Cooler Temperature ..... 5.6 °C
7. What kind of packing material was used? ..... Bub
8. Was sufficient ice used (if appropriate)? ..... (YES) NO
9. Were all bottles sealed in separate plastic bags? ..... YES (NO)
10. Did all bottles arrive in good condition (unbroken)? ..... (YES) NO
11. Were all bottle labels complete and legible? ..... (YES) NO
12. Did all bottle labels and tags agree with custody papers? ..... (YES) NO
13. Were all bottles used correct for the requested analyses? ..... (YES) NO
14. Do any of the analyses (bottles) require preservative? (If so, Preservation checklist must be attached) ..... YES (NO)
15. Were all VOA vials free of air bubbles? ..... (YES) NO
16. Was sufficient amount of sample sent in each bottle? ..... (YES) NO
17. Notify Project Manager of any discrepancies or concerns ..... (OK) NA

Cooler Opened By: [signature] Date: 8/26/02 Time 1200

Explain any discrepancies or negative responses:

Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number: JU46	Turn-around Requested: 24-hr
ARI Client Company: Geomatrix	Phone: 206 342-1777
Client Contact: Zanna Satterwhite	
Client Project Name: Former Rhone Poulenc	
Client Project #: 8769.006	Samplers: JD Long

Page: 1 of 1

Date: 8/26/06 | Ice Present? Y

No. of Coolers: 1 | Cooler Temps: 5.9

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	EPA 8021 BTEX								Notes/Comments
RP082606-07	8/26/06	1245	S	1 2oz 2 40mL	X								Soil preserved - methanol
RP082606-08	↓	1300	W	3 40mL	X								Water preserved HCl
RP082606-09	↓	1330	W	3 40mL	X								" "

Comments/Special Instructions

Relinquished by:	Received by:	Relinquished by:	Received by:
(Signature)	(Signature)	(Signature)	(Signature)
Printed Name: John D. Long	Printed Name: Zanna Satterwhite	Printed Name: Zanna Satterwhite	Printed Name: BRIAN KEGEL
Company: Geomatrix	Company: Geomatrix	Company: Geomatrix	Company: ARI
Date & Time: 8/27/2006 1500	Date & Time: 8/27/2006 1500	Date & Time: 8/27/06 0704	Date & Time: ~~8/27/06 0704~~ 8/28/06 0704

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.

Cooler Receipt Form

ANALYTICAL RESOURCES INCORPORATED

ARI Client: GMX Project Name: FRP

COC NO.: — Delivered By: Hand

Tracking NO.: — Date: 8/28/06

ARI Job No.: JU46 Lims NO.:

Preliminary Examination Phase:

1. Were intact, properly signed and dated custody seals attached To the outside of the cooler? ..... YES (NO)
2. Were custody papers included with the cooler ..... (YES) NO
3. Were custody papers properly filled out (ink, signed etc.)? ..... (YES) NO
4. Complete custody forms and attach all shipping documents ..... (OK) NA

Cooler Accepted BY: [signature] Date: 8/28/06 Time: 0704

Log-IN Phase:

5. Was a temperature blank include in the cooler? ..... YES (NO)
6. Record Cooler Temperature..... 5.9 °C
7. What kind of packing material was used? ..... —
8. Was sufficient ice used (if appropriate)? ..... (YES) NO
9. Were all bottles sealed in separate plastic bags? ..... YES (NO)
10. Did all bottles arrive in good condition (unbroken)? ..... (YES) NO
11. Were all bottle labels complete and legible? ..... (YES) NO
12. Did all bottle labels and tags agree with custody papers? ..... (YES) NO
13. Were all bottles used correct for the requested analyses? ..... (YES) NO
14. Do any of the analyses (bottles) require preservative? (If so, Preservation checklist must be attached) ..... YES (NO)
15. Were all VOA vials free of air bubbles? ..... YES (NO)
16. Was sufficient amount of sample sent in each bottle? ..... (YES) NO
17. Notify Project Manager of any discrepancies or concerns..... (OK) NA

Cooler Opened By: [signature] Date: 8/28/06 Time 0704

Explain any discrepancies or negative responses:

Pea bubbles in

Case Narrative

Prepared
for

Geomatrix Consultants

Project: FRP , 8769.006

ARI Job Nos.:JU16, JU19, JU45 & JU46

Prepared
By

Analytical Resources, Inc.

Analytical Resources, Incorporated
Analytical Chemists and Consultants

Case Narrative

Geomatrix
Client Project: Former Rhone Poulenc; 8769.006
ARI Job Numbers: JU16, JU19, JU45, JU46
Soil/Water
14 September, 2006

BTEX Analysis (8021BMod)

No analytical complications were noted for this analysis.

4611 South 134th Place, Suite 100 • Tukwila WA 98168 • 206-695-6200 • 206-695-6201 fax

Data Summary Package

Prepared
for

Geomatrix Consultants

Project: FRP , 8769.006

ARI Job Nos.:JU16, JU19, JU45 & JU46

Prepared
By

Analytical Resources, Inc.

Analytical Resources, Incorporated
Analytical Chemists and Consultants

Case Narrative

Geomatrix
Client Project: Former Rhone Poulenc; 8769.006
ARI Job Numbers: JU16, JU19, JU45, JU46
Soil/Water
14 September, 2006

BTEX Analysis (8021BMod)

No analytical complications were noted for this analysis.

4611 South 134th Place, Suite 100 • Tukwila WA 98168 • 206-695-6200 • 206-695-6201 fax

BETX

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
BETX by Method SW8021BMod

Sample ID: RP082406-05
SAMPLE

Lab Sample ID: JU16A
LIMS ID: 06-15513
Matrix: Soil
Data Release Authorized:
Reported: 09/01/06

QC Report No: JU16-Geomatrix Consultants
Project: FRP
Event: 8769.006
Date Sampled: 08/24/06
Date Received: 08/24/06

Date Analyzed: 08/28/06 22:07
Instrument/Analyst: PID2/PKC

Purge Volume: 5.0 mL
Sample Amount: 59 mg-dry-wt
Percent Moisture: 24.9%

CAS Number	Analyte	RL	Result
71-43-2	Benzene	21	< 21 U
108-88-3	Toluene	21	21
100-41-4	Ethylbenzene	21	< 21 U
	m,p-Xylene	43	< 43 U
95-47-6	o-Xylene	21	< 21 U

BETX Surrogate Recovery

Trifluorotoluene	91.3%
Bromobenzene	103%

BETX values reported in µg/kg (ppb)

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
BETX by Method SW8021BMod
Page 1 of 1

Sample ID: RP082406-06
SAMPLE

Lab Sample ID: JU16B
LIMS ID: 06-15514
Matrix: Soil
Data Release Authorized:
Reported: 09/01/06

QC Report No: JU16-Geomatrix Consultants
Project: FRP
Event: 8769.006
Date Sampled: 08/24/06
Date Received: 08/24/06

Date Analyzed: 08/25/06 05:18
Instrument/Analyst: PID2/PKC

Purge Volume: 5.0 mL
Sample Amount: 63 mg-dry-wt
Percent Moisture: 21.4%

CAS Number	Analyte	RL	Result
71-43-2	Benzene	20	< 20 U
108-88-3	Toluene	20	1,500
100-41-4	Ethylbenzene	20	< 20 U
	m,p-Xylene	40	< 40 U
95-47-6	o-Xylene	20	< 20 U

BETX Surrogate Recovery

Trifluorotoluene	91.4%
Bromobenzene	106%

BETX values reported in µg/kg (ppb)

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
BETX by Method SW8021BMod

Sample ID: RP082406-07
SAMPLE

Lab Sample ID: JU16C
LIMS ID: 06-15515
Matrix: Water
Data Release Authorized:
Reported: 09/01/06

QC Report No: JU16-Geomatrix Consultants
Project: FRP
Event: 8769.006
Date Sampled: 08/24/06
Date Received: 08/24/06

Date Analyzed: 08/28/06 18:41
Instrument/Analyst: PID2/PKC

Purge Volume: 5.0 mL
Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
71-43-2	Benzene	1.0	< 1.0 U
108-88-3	Toluene	1.0	3.2
100-41-4	Ethylbenzene	1.0	< 1.0 U
	m,p-Xylene	1.0	< 1.0 U
95-47-6	o-Xylene	1.0	< 1.0 U

BETX Surrogate Recovery

Trifluorotoluene	85.8%
Bromobenzene	103%

BETX values reported in µg/L (ppb)

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
BETX by Method SW8021BMod

Sample ID: RP082406-04
SAMPLE

Lab Sample ID: JU16D
LIMS ID: 06-15516
Matrix: Water
Data Release Authorized:
Reported: 09/01/06

QC Report No: JU16-Geomatrix Consultants
Project: FRP
Event: 8769.006
Date Sampled: 08/24/06
Date Received: 08/24/06

Date Analyzed: 08/28/06 20:09
Instrument/Analyst: PID2/PKC

Purge Volume: 5.0 mL
Dilution Factor: 50.0

CAS Number	Analyte	RL	Result
71-43-2	Benzene	50	< 50 U
108-88-3	Toluene	50	3,600
100-41-4	Ethylbenzene	50	< 50 U
	m,p-Xylene	50	< 50 U
95-47-6	o-Xylene	50	< 50 U

BETX Surrogate Recovery

Trifluorotoluene	90.8%
Bromobenzene	103%

BETX values reported in µg/L (ppb)

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
BETX by Method SW8021BMod

Sample ID: RP082406-03
SAMPLE

Lab Sample ID: JU16G
LIMS ID: 06-15519
Matrix: Water
Data Release Authorized:
Reported: 09/01/06

QC Report No: JU16-Geomatrix Consultants
Project: FRP
Event: 8769.006
Date Sampled: 08/24/06
Date Received: 08/24/06

Date Analyzed: 08/28/06 17:13
Instrument/Analyst: PID2/PKC

Purge Volume: 5.0 mL
Dilution Factor: 50.0

CAS Number	Analyte	RL	Result
71-43-2	Benzene	50	< 50 U
108-88-3	Toluene	50	4,100
100-41-4	Ethylbenzene	50	< 50 U
	m,p-Xylene	50	< 50 U
95-47-6	o-Xylene	50	< 50 U

BETX Surrogate Recovery

Trifluorotoluene	90.5%
Bromobenzene	104%

BETX values reported in µg/L (ppb)

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
BETX by Method SW8021BMod

Sample ID: RP082406-08
SAMPLE

Lab Sample ID: JU16H
LIMS ID: 06-15520
Matrix: Water
Data Release Authorized:
Reported: 09/01/06

QC Report No: JU16-Geomatrix Consultants
Project: FRP
Event: 8769.006
Date Sampled: 08/24/06
Date Received: 08/24/06

Date Analyzed: 08/26/06 17:02
Instrument/Analyst: PID2/PKC

Purge Volume: 5.0 mL
Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
71-43-2	Benzene	1.0	< 1.0 U
108-88-3	Toluene	1.0	< 1.0 U
100-41-4	Ethylbenzene	1.0	< 1.0 U
	m,p-Xylene	1.0	< 1.0 U
95-47-6	o-Xylene	1.0	< 1.0 U

BETX Surrogate Recovery

Trifluorotoluene	88.4%
Bromobenzene	98.3%

BETX values reported in µg/L (ppb)

FORM I

ANALYTICAL RESOURCES INCORPORATED

BETX SOIL SURROGATE RECOVERY SUMMARY

ARI Job: JU16
Matrix: Soil

QC Report No: JU16-Geomatrix Consultants
Project: FRP
Event: 8769.006

Client ID	TFT	BBZ	TOT OUT
MB-082806	83.0%	94.6%	0
LCS-082806	113%	103%	0
LCSD-082806	109%	102%	0
RP082406-05	91.3%	103%	0
MB-082406	91.3%	107%	0
LCS-082406	103%	101%	0
LCSD-082406	101%	103%	0
RP082406-06	91.4%	106%	0

	LCS/MB LIMITS	QC LIMITS
(TFT) = Trifluorotoluene	(82-128)	(53-147)
(BBZ) = Bromobenzene	(82-123)	(60-153)

Log Number Range: 06-15513 to 06-15514

ANALYTICAL RESOURCES INCORPORATED

BETX WATER SURROGATE RECOVERY SUMMARY

ARI Job: JU16
Matrix: Water

QC Report No: JU16-Geomatrix Consultants
Project: FRP
Event: 8769.006

Client ID	TFT	BBZ	TOT OUT
RP082406-07	85.8%	103%	0
RP082406-04	90.8%	103%	0
RP082406-03	90.5%	104%	0
MB-082606	80.2%	93.2%	0
LCS-082606	105%	102%	0
LCSD-082606	95.6%	94.9%	0
RP082406-08	88.4%	98.3%	0

	LCS/MB LIMITS	QC LIMITS
(TFT) = Trifluorotoluene	(80-126)	(72-124)
(BBZ) = Bromobenzene	(81-119)	(79-119)

Log Number Range: 06-15515 to 06-15520

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
BETX by Method SW8021BMod

Sample ID: RP082406-09
SAMPLE

Lab Sample ID: JU19A
LIMS ID: 06-15547
Matrix: Soil
Data Release Authorized:
Reported: 09/01/06

QC Report No: JU19-Geomatrix Consultants
Project: FRP
Event: 8769.006
Date Sampled: 08/24/06
Date Received: 08/24/06

Date Analyzed: 08/28/06 21:37
Instrument/Analyst: PID2/PKC

Purge Volume: 5.0 mL
Sample Amount: 57 mg-dry-wt
Percent Moisture: 22.7%

CAS Number	Analyte	RL	Result
71-43-2	Benzene	22	< 22 U
108-88-3	Toluene	22	< 22 U
100-41-4	Ethylbenzene	22	< 22 U
	m,p-Xylene	44	< 44 U
95-47-6	o-Xylene	22	< 22 U

BETX Surrogate Recovery

Trifluorotoluene	84.9%
Bromobenzene	100%

BETX values reported in µg/kg (ppb)

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
BETX by Method SW8021BMod

Sample ID: RP082406-10
SAMPLE

Lab Sample ID: JU19B
LIMS ID: 06-15548
Matrix: Soil
Data Release Authorized:
Reported: 09/01/06

QC Report No: JU19-Geomatrix Consultants
Project: FRP
Event: 8769.006
Date Sampled: 08/24/06
Date Received: 08/24/06

Date Analyzed: 08/28/06 22:36
Instrument/Analyst: PID2/PKC

Purge Volume: 5.0 mL
Sample Amount: 57 mg-dry-wt
Percent Moisture: 24.7%

CAS Number	Analyte	RL	Result
71-43-2	Benzene	22	< 22 U
108-88-3	Toluene	22	< 22 U
100-41-4	Ethylbenzene	22	< 22 U
	m,p-Xylene	44	< 44 U
95-47-6	o-Xylene	22	< 22 U

BETX Surrogate Recovery

Trifluorotoluene	93.8%
Bromobenzene	105%

BETX values reported in µg/kg (ppb)

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
BETX by Method SW8021BMod

Sample ID: RP082406-11
SAMPLE

Lab Sample ID: JU19C
LIMS ID: 06-15549
Matrix: Water
Data Release Authorized:
Reported: 09/01/06

QC Report No: JU19-Geomatrix Consultants
Project: FRP
Event: 8769.006
Date Sampled: 08/24/06
Date Received: 08/24/06

Date Analyzed: 08/24/06 22:26
Instrument/Analyst: PID2/PKC

Purge Volume: 5.0 mL
Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
71-43-2	Benzene	1.0	< 1.0 U
108-88-3	Toluene	1.0	< 1.0 U
100-41-4	Ethylbenzene	1.0	< 1.0 U
	m,p-Xylene	1.0	< 1.0 U
95-47-6	o-Xylene	1.0	< 1.0 U

BETX Surrogate Recovery

Trifluorotoluene	76.3%
Bromobenzene	83.2%

BETX values reported in µg/L (ppb)

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
BETX by Method SW8021BMod

Sample ID: RP082406-12
SAMPLE

Lab Sample ID: JU19D
LIMS ID: 06-15550
Matrix: Soil
Data Release Authorized:
Reported: 09/01/06

QC Report No: JU19-Geomatrix Consultants
Project: FRP
Event: 8769.006
Date Sampled: 08/24/06
Date Received: 08/24/06

Date Analyzed: 08/28/06 23:06
Instrument/Analyst: PID2/PKC

Purge Volume: 5.0 mL
Sample Amount: 12 mg-dry-wt
Percent Moisture: 25.0%

CAS Number	Analyte	RL	Result
71-43-2	Benzene	100	< 100 U
108-88-3	Toluene	100	43,000
100-41-4	Ethylbenzene	100	< 100 U
	m,p-Xylene	200	< 200 U
95-47-6	o-Xylene	100	< 100 U

BETX Surrogate Recovery

Trifluorotoluene	90.0%
Bromobenzene	104%

BETX values reported in µg/kg (ppb)

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
BETX by Method SW8021BMod

Sample ID: RP082406-13
SAMPLE

Lab Sample ID: JU19E
LIMS ID: 06-15551
Matrix: Soil
Data Release Authorized:
Reported: 09/01/06

QC Report No: JU19-Geomatrix Consultants
Project: FRP
Event: 8769.006
Date Sampled: 08/24/06
Date Received: 08/24/06

Date Analyzed: 08/28/06 23:35
Instrument/Analyst: PID2/PKC

Purge Volume: 5.0 mL
Sample Amount: 0.028 mg-dry-wt
Percent Moisture: 10.8%

CAS Number	Analyte	RL	Result
71-43-2	Benzene	44,000	< 44,000 U
108-88-3	Toluene	44,000	20,000,000
100-41-4	Ethylbenzene	44,000	< 44,000 U
	m,p-Xylene	88,000	< 88,000 U
95-47-6	o-Xylene	44,000	< 44,000 U

BETX Surrogate Recovery

Trifluorotoluene	87.1%
Bromobenzene	100%

BETX values reported in µg/kg (ppb)

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
BETX by Method SW8021BMod

Sample ID: RP082406-14
SAMPLE

Lab Sample ID: JU19F
LIMS ID: 06-15552
Matrix: Water
Data Release Authorized:
Reported: 09/01/06

QC Report No: JU19-Geomatrix Consultants
Project: FRP
Event: 8769.006
Date Sampled: 08/24/06
Date Received: 08/24/06

Date Analyzed: 08/28/06 17:42
Instrument/Analyst: PID2/PKC

Purge Volume: 5.0 mL
Dilution Factor: 1000

CAS Number	Analyte	RL	Result
71-43-2	Benzene	1,000	< 1,000 U
108-88-3	Toluene	1,000	90,000
100-41-4	Ethylbenzene	1,000	< 1,000 U
	m,p-Xylene	1,000	< 1,000 U
95-47-6	o-Xylene	1,000	< 1,000 U

BETX Surrogate Recovery

Trifluorotoluene	87.3%
Bromobenzene	103%

BETX values reported in µg/L (ppb)

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
BETX by Method SW8021BMod

Sample ID: RP082406-15
SAMPLE

Lab Sample ID: JU19G
LIMS ID: 06-15553
Matrix: Soil
Data Release Authorized:
Reported: 09/01/06

QC Report No: JU19-Geomatrix Consultants
Project: FRP
Event: 8769.006
Date Sampled: 08/24/06
Date Received: 08/24/06

Date Analyzed: 08/29/06 00:05
Instrument/Analyst: PID2/PKC

Purge Volume: 5.0 mL
Sample Amount: 0.027 mg-dry-wt
Percent Moisture: 12.2%

CAS Number	Analyte	RL	Result
71-43-2	Benzene	47,000	< 47,000 U
108-88-3	Toluene	47,000	23,000,000
100-41-4	Ethylbenzene	47,000	< 47,000 U
	m,p-Xylene	94,000	< 94,000 U
95-47-6	o-Xylene	47,000	< 47,000 U

BETX Surrogate Recovery

Trifluorotoluene	88.4%
Bromobenzene	102%

BETX values reported in µg/kg (ppb)

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
BETX by Method SW8021BMod

Sample ID: RP082406-16
SAMPLE

Lab Sample ID: JU19H
LIMS ID: 06-15554
Matrix: Soil
Data Release Authorized:
Reported: 09/01/06

QC Report No: JU19-Geomatrix Consultants
Project: FRP
Event: 8769.006
Date Sampled: 08/24/06
Date Received: 08/24/06

Date Analyzed: 08/25/06 03:49
Instrument/Analyst: PID2/PKC

Purge Volume: 5.0 mL
Sample Amount: 1.1 mg-dry-wt
Percent Moisture: 22.9%

CAS Number	Analyte	RL	Result
71-43-2	Benzene	1,100	< 1,100 U
108-88-3	**Toluene**	**1,100**	**440,000**
100-41-4	Ethylbenzene	1,100	< 1,100 U
	m,p-Xylene	2,200	< 2,200 U
95-47-6	o-Xylene	1,100	< 1,100 U

BETX Surrogate Recovery

Trifluorotoluene	86.8%
Bromobenzene	101%

BETX values reported in µg/kg (ppb)

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
BETX by Method SW8021BMod

Sample ID: RP082406-17
SAMPLE

Lab Sample ID: JU19I
LIMS ID: 06-15555
Matrix: Soil
Data Release Authorized:
Reported: 09/01/06

QC Report No: JU19-Geomatrix Consultants
Project: FRP
Event: 8769.006
Date Sampled: 08/24/06
Date Received: 08/24/06

Date Analyzed: 08/29/06 01:33
Instrument/Analyst: PID2/PKC

Purge Volume: 5.0 mL
Sample Amount: 0.12 mg-dry-wt
Percent Moisture: 24.5%

CAS Number	Analyte	RL	Result
71-43-2	Benzene	10,000	< 10,000 U
108-88-3	Toluene	10,000	5,600,000
100-41-4	Ethylbenzene	10,000	< 10,000 U
	m,p-Xylene	21,000	< 21,000 U
95-47-6	o-Xylene	10,000	< 10,000 U

BETX Surrogate Recovery

Trifluorotoluene	82.2%
Bromobenzene	100%

BETX values reported in µg/kg (ppb)

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
BETX by Method SW8021BMod

Sample ID: RP082406-18
SAMPLE

Lab Sample ID: JU19J
LIMS ID: 06-15556
Matrix: Water
Data Release Authorized:
Reported: 09/01/06

QC Report No: JU19-Geomatrix Consultants
Project: FRP
Event: 8769.006
Date Sampled: 08/24/06
Date Received: 08/24/06

Date Analyzed: 08/28/06 20:39
Instrument/Analyst: PID2/PKC

Purge Volume: 5.0 mL
Dilution Factor: 250

CAS Number	Analyte	RL	Result
71-43-2	Benzene	250	< 250 U
108-88-3	Toluene	250	32,000
100-41-4	Ethylbenzene	250	< 250 U
	m,p-Xylene	250	< 250 U
95-47-6	o-Xylene	250	< 250 U

BETX Surrogate Recovery

Trifluorotoluene	95.4%
Bromobenzene	106%

BETX values reported in µg/L (ppb)

FORM I

ANALYTICAL RESOURCES INCORPORATED

BETX WATER SURROGATE RECOVERY SUMMARY

ARI Job: JU19
Matrix: Water

QC Report No: JU19-Geomatrix Consultants
Project: FRP
Event: 8769.006

Client ID	TFT	BBZ	TOT OUT
MB-082406	86.9%	101%	0
LCS-082406	91.4%	101%	0
LCSD-082406	102%	105%	0
RP082406-11	76.3%	83.2%	0
RP082406-14	87.3%	103%	0
RP082406-18	95.4%	106%	0

	LCS/MB LIMITS	QC LIMITS
(TFT) = Trifluorotoluene	(80-126)	(72-124)
(BBZ) = Bromobenzene	(81-119)	(79-119)

Log Number Range: 06-15549 to 06-15556

FORM II BETX

ANALYTICAL RESOURCES INCORPORATED

BETX SOIL SURROGATE RECOVERY SUMMARY

ARI Job: JU19
Matrix: Soil

QC Report No: JU19-Geomatrix Consultants
Project: FRP
Event: 8769.006

Client ID	TFT	BBZ	TOT OUT
MB-082806	83.0%	94.6%	0
LCS-082806	113%	103%	0
LCSD-082806	109%	102%	0
RP082406-09	84.9%	100%	0
RP082406-10	93.8%	105%	0
RP082406-12	90.0%	104%	0
RP082406-13	87.1%	100%	0
RP082406-15	88.4%	102%	0
MB-082406	91.3%	107%	0
LCS-082406	103%	101%	0
LCSD-082406	101%	103%	0
RP082406-16	86.8%	101%	0
RP082406-17	82.2%	100%	0

	LCS/MB LIMITS	QC LIMITS
(TFT) = Trifluorotoluene	(82-128)	(53-147)
(BBZ) = Bromobenzene	(82-123)	(60-153)

Log Number Range: 06-15547 to 06-15555

FORM II BETX

0035

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
BETX by Method SW8021BMod

Sample ID: RP082606-01
SAMPLE

Lab Sample ID: JU45A
LIMS ID: 06-15729
Matrix: Soil
Data Release Authorized:
Reported: 09/01/06

QC Report No: JU45-Geomatrix Consultants
Project: Former Phone-Poulenc
Event: 8769.006
Date Sampled: 08/26/06
Date Received: 08/26/06

Date Analyzed: 08/26/06 20:28
Instrument/Analyst: PID2/PKC

Purge Volume: 5.0 mL
Sample Amount: 93 mg-dry-wt
Percent Moisture: 20.2%

CAS Number	Analyte	RL	Result
71-43-2	Benzene	14	< 14 U
108-88-3	Toluene	14	< 14 U
100-41-4	Ethylbenzene	14	< 14 U
	m,p-Xylene	27	< 27 U
95-47-6	o-Xylene	14	< 14 U

BETX Surrogate Recovery

Trifluorotoluene	82.6%
Bromobenzene	96.9%

BETX values reported in µg/kg (ppb)

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
BETX by Method SW8021BMod

Sample ID: RP082606-02
SAMPLE

Lab Sample ID: JU45B
LIMS ID: 06-15730
Matrix: Water
Data Release Authorized:
Reported: 09/01/06

QC Report No: JU45-Geomatrix Consultants
Project: Former Phone-Poulenc
Event: 8769.006
Date Sampled: 08/26/06
Date Received: 08/26/06

Date Analyzed: 08/26/06 19:00
Instrument/Analyst: PID2/PKC

Purge Volume: 5.0 mL
Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
71-43-2	Benzene	1.0	< 1.0 U
108-88-3	Toluene	1.0	< 1.0 U
100-41-4	Ethylbenzene	1.0	< 1.0 U
	m,p-Xylene	1.0	< 1.0 U
95-47-6	o-Xylene	1.0	< 1.0 U

BETX Surrogate Recovery

Trifluorotoluene	77.7%
Bromobenzene	99.1%

BETX values reported in µg/L (ppb)

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
BETX by Method SW8021BMod

Sample ID: RP082606-03
SAMPLE

Lab Sample ID: JU45C
LIMS ID: 06-15731
Matrix: Soil
Data Release Authorized:
Reported: 09/01/06

QC Report No: JU45-Geomatrix Consultants
Project: Former Phone-Poulenc
Event: 8769.006
Date Sampled: 08/26/06
Date Received: 08/26/06

Date Analyzed: 08/26/06 19:59
Instrument/Analyst: PID2/PKC

Purge Volume: 5.0 mL
Sample Amount: 100 mg-dry-wt
Percent Moisture: 27.2%

CAS Number	Analyte	RL	Result
71-43-2	Benzene	12	< 12 U
108-88-3	Toluene	12	< 12 U
100-41-4	Ethylbenzene	12	< 12 U
	m,p-Xylene	25	< 25 U
95-47-6	o-Xylene	12	< 12 U

BETX Surrogate Recovery

Trifluorotoluene	82.3%
Bromobenzene	99.1%

BETX values reported in µg/kg (ppb)

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
BETX by Method SW8021BMod

Sample ID: RP082606-04
SAMPLE

Lab Sample ID: JU45D
LIMS ID: 06-15732
Matrix: Water
Data Release Authorized:
Reported: 09/01/06

QC Report No: JU45-Geomatrix Consultants
Project: Former Phone-Poulenc
Event: 8769.006
Date Sampled: 08/26/06
Date Received: 08/26/06

Date Analyzed: 08/26/06 19:29
Instrument/Analyst: PID2/PKC

Purge Volume: 5.0 mL
Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
71-43-2	Benzene	1.0	< 1.0 U
108-88-3	Toluene	1.0	< 1.0 U
100-41-4	Ethylbenzene	1.0	< 1.0 U
	m,p-Xylene	1.0	< 1.0 U
95-47-6	o-Xylene	1.0	< 1.0 U

BETX Surrogate Recovery

Trifluorotoluene	90.2%
Bromobenzene	103%

BETX values reported in µg/L (ppb)

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
BETX by Method SW8021BMod

Sample ID: RP082606-05
SAMPLE

Lab Sample ID: JU45E
LIMS ID: 06-15733
Matrix: Soil
Data Release Authorized:
Reported: 09/01/06

QC Report No: JU45-Geomatrix Consultants
Project: Former Phone-Poulenc
Event: 8769.006
Date Sampled: 08/26/06
Date Received: 08/26/06

Date Analyzed: 08/29/06 02:02
Instrument/Analyst: PID2/PKC

Purge Volume: 5.0 mL
Sample Amount: 0.44 mg-dry-wt
Percent Moisture: 21.1%

CAS Number	Analyte	RL	Result
71-43-2	Benzene	2,800	< 2,800 U
108-88-3	Toluene	2,800	1,600,000
100-41-4	Ethylbenzene	2,800	< 2,800 U
	m,p-Xylene	5,700	< 5,700 U
95-47-6	o-Xylene	2,800	< 2,800 U

BETX Surrogate Recovery

Trifluorotoluene	87.6%
Bromobenzene	103%

BETX values reported in µg/kg (ppb)

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
BETX by Method SW8021BMod

Sample ID: RP082606-06
SAMPLE

Lab Sample ID: JU45F
LIMS ID: 06-15734
Matrix: Water
Data Release Authorized:
Reported: 09/01/06

QC Report No: JU45-Geomatrix Consultants
Project: Former Phone-Poulenc
Event: 8769.006
Date Sampled: 08/26/06
Date Received: 08/26/06

Date Analyzed: 08/28/06 16:43
Instrument/Analyst: PID2/PKC

Purge Volume: 5.0 mL
Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
71-43-2	Benzene	1.0	< 1.0 U
108-88-3	Toluene	1.0	< 1.0 U
100-41-4	Ethylbenzene	1.0	< 1.0 U
	m,p-Xylene	1.0	< 1.0 U
95-47-6	o-Xylene	1.0	< 1.0 U

BETX Surrogate Recovery

Trifluorotoluene	96.9%
Bromobenzene	104%

BETX values reported in µg/L (ppb)

FORM I

ANALYTICAL RESOURCES INCORPORATED

BETX WATER SURROGATE RECOVERY SUMMARY

ARI Job: JU45
Matrix: Water

QC Report No: JU45-Geomatrix Consultants
Project: Former Phone-Poulenc
Event: 8769.006

Client ID	TFT	BBZ	TOT OUT
MB-082606	80.2%	93.2%	0
LCS-082606	105%	102%	0
LCSD-082606	95.6%	94.9%	0
RP082606-02	77.7%	99.1%	0
RP082606-04	90.2%	103%	0
RP082606-06	96.9%	104%	0

	LCS/MB LIMITS	QC LIMITS
(TFT) = Trifluorotoluene	(80-126)	(72-124)
(BBZ) = Bromobenzene	(81-119)	(79-119)

Log Number Range: 06-15730 to 06-15734

ANALYTICAL RESOURCES INCORPORATED

BETX SOIL SURROGATE RECOVERY SUMMARY

ARI Job: JU45
Matrix: Soil

QC Report No: JU45-Geomatrix Consultants
Project: Former Phone-Poulenc
Event: 8769.006

Client ID	TFT	BBZ	TOT OUT
MB-082606	86.6%	106%	0
LCS-082606	106%	99.4%	0
LCSD-082606	101%	100%	0
RP082606-01	82.6%	96.9%	0
RP082606-01 MS	84.7%	94.8%	0
RP082606-01 MSD	93.3%	100%	0
RP082606-03	82.3%	99.1%	0
MB-082806	83.0%	94.6%	0
LCS-082806	113%	103%	0
LCSD-082806	109%	102%	0
RP082606-05	87.6%	103%	0

	LCS/MB LIMITS	QC LIMITS
(TFT) = Trifluorotoluene	(82-128)	(53-147)
(BBZ) = Bromobenzene	(82-123)	(60-153)

Log Number Range: 06-15729 to 06-15733

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
BETX by Method SW8021BMod
Page 1 of 1

Sample ID: RP082606-01
MATRIX SPIKE

Lab Sample ID: JU45A
LIMS ID: 06-15729
Matrix: Soil
Data Release Authorized:
Reported: 09/01/06

QC Report No: JU45-Geomatrix Consultants
Project: Former Phone-Poulenc
Event: 8769.006
Date Sampled: 08/26/06
Date Received: 08/26/06

Date Analyzed MS: 08/27/06 00:53
MSD: 08/27/06 01:22
Instrument/Analyst MS: PID2/PKC
MSD: PID2/PKC

Purge Volume: 5.0 mL

Sample Amount MS: 93 mg-dry-wt
MSD: 93 mg-dry-wt

Analyte	Sample	MS	Spike Added-MS	MS Recovery	MSD	Spike Added-MSD	MSD Recovery	RPD
Benzene	< 13.5 U	368	339	109%	410	339	121%	10.8%
Toluene	< 13.5 U	3140	2760	114%	3420	2760	124%	8.5%
Ethylbenzene	< 13.5 U	584	504	116%	622	504	123%	6.3%
m,p-Xylene	< 27.0 U	2110	1900	111%	2240	1900	118%	6.0%
o-Xylene	< 13.5 U	780	659	118%	825	659	125%	5.6%

Reported in µg/kg (ppb)

RPD calculated using sample concentrations per SW846.

BETX Surrogate Recovery

	MS	MSD
Trifluorotoluene	84.7%	93.3%
Bromobenzene	94.8%	100%

FORM III

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
BETX by Method SW8021BMod

Sample ID: RP082606-07
SAMPLE

Lab Sample ID: JU46A
LIMS ID: 06-15735
Matrix: Soil
Data Release Authorized:
Reported: 09/01/06

QC Report No: JU46-Geomatrix
Project: Former Rhone Poulenc
Event: 8769.006
Date Sampled: 08/26/06
Date Received: 08/28/06

Date Analyzed: 08/29/06 02:32
Instrument/Analyst: PID2/PKC

Purge Volume: 5.0 mL
Sample Amount: 75 mg-dry-wt
Percent Moisture: 23.9%

CAS Number	Analyte	RL	Result
71-43-2	Benzene	33	< 33 U
108-88-3	Toluene	33	< 33 U
100-41-4	Ethylbenzene	33	< 33 U
	m,p-Xylene	67	< 67 U
95-47-6	o-Xylene	33	< 33 U

BETX Surrogate Recovery

Trifluorotoluene	92.5%
Bromobenzene	107%

BETX values reported in µg/kg (ppb)

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
BETX by Method EPA 602M

Sample ID: RP082606-08
SAMPLE

Lab Sample ID: JU46B
LIMS ID: 06-15736
Matrix: Water
Data Release Authorized:
Reported: 09/01/06

QC Report No: JU46-Geomatrix
Project: Former Rhone Poulenc
Event: 8769.006
Date Sampled: 08/26/06
Date Received: 08/28/06

Date Analyzed: 08/28/06 21:08
Instrument/Analyst: PID2/PKC

Purge Volume: 5.0 mL
Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
71-43-2	Benzene	1.0	< 1.0 U
108-88-3	Toluene	1.0	< 1.0 U
100-41-4	Ethylbenzene	1.0	< 1.0 U
	m,p-Xylene	1.0	< 1.0 U
95-47-6	o-Xylene	1.0	< 1.0 U

BETX Surrogate Recovery

Trifluorotoluene	88.7%
Bromobenzene	104%

BETX values reported in µg/L (ppb)

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
BETX by Method EPA 602M

Sample ID: RP082606-09
SAMPLE

Lab Sample ID: JU46C
LIMS ID: 06-15737
Matrix: Water
Data Release Authorized:
Reported: 09/01/06

QC Report No: JU46-Geomatrix
Project: Former Rhone Poulenc
Event: 8769.006
Date Sampled: 08/26/06
Date Received: 08/28/06

Date Analyzed: 08/28/06 16:14
Instrument/Analyst: PID2/PKC

Purge Volume: 5.0 mL
Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
71-43-2	Benzene	1.0	< 1.0 U
108-88-3	Toluene	1.0	< 1.0 U
100-41-4	Ethylbenzene	1.0	< 1.0 U
	m,p-Xylene	1.0	< 1.0 U
95-47-6	o-Xylene	1.0	< 1.0 U

BETX Surrogate Recovery

Trifluorotoluene	110%
Bromobenzene	107%

BETX values reported in µg/L (ppb)

FORM I

ANALYTICAL RESOURCES INCORPORATED

BETX SOIL SURROGATE RECOVERY SUMMARY

ARI Job: JU46
Matrix: Soil

QC Report No: JU46-Geomatrix
Project: Former Rhone Poulenc
Event: 8769.006

Client ID	TFT	BBZ	TOT OUT
MB-082806	83.0%	94.6%	0
LCS-082806	113%	103%	0
LCSD-082806	109%	102%	0
RP082606-07	92.5%	107%	0

	LCS/MB LIMITS	QC LIMITS
(TFT) = Trifluorotoluene	(82-128)	(53-147)
(BBZ) = Bromobenzene	(82-123)	(60-153)

Log Number Range: 06-15735 to 06-15735

FORM II BETX

ANALYTICAL RESOURCES INCORPORATED

BETX WATER SURROGATE RECOVERY SUMMARY

ARI Job: JU46
Matrix: Water

QC Report No: JU46-Geomatrix
Project: Former Rhone Poulenc
Event: 8769.006

Client ID	TFT	BBZ	TOT OUT
MB-082806	83.0%	94.6%	0
LCS-082806	113%	103%	0
LCSD-082806	109%	102%	0
RP082606-08	88.7%	104%	0
RP082606-09	110%	107%	0

	LCS/MB LIMITS	QC LIMITS
(TFT) = Trifluorotoluene	(80-126)	(72-124)
(BBZ) = Bromobenzene	(81-119)	(79-119)

Log Number Range: 06-15736 to 06-15737

FORM II BETX

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
BETX by Method SW8021BMod

Sample ID: LCS-082406
LAB CONTROL SAMPLE

Lab Sample ID: LCS-082406
LIMS ID: 06-15514
Matrix: Soil
Data Release Authorized:
Reported: 09/01/06

QC Report No: JU16-Geomatrix Consultants
Project: FRP
Event: 8769.006
Date Sampled: NA
Date Received: NA

Date Analyzed LCS: 08/24/06 10:42
LCSD: 08/24/06 11:11
Instrument/Analyst LCS: PID2/PKC
LCSD: PID2/PKC

Purge Volume: 5.0 mL

Sample Amount LCS: 200 mg-dry-wt
LCSD: 200 mg-dry-wt

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
Benzene	196	205	95.6%	198	205	96.6%	1.0%
Toluene	1600	1670	95.8%	1600	1670	95.8%	0.0%
Ethylbenzene	304	305	99.7%	310	305	102%	2.0%
m,p-Xylene	1130	1140	99.1%	1140	1140	100%	0.9%
o-Xylene	410	398	103%	414	398	104%	1.0%

Reported in µg/kg (ppb)

RPD calculated using sample concentrations per SW846.

BETX Surrogate Recovery

	LCS	LCSD
Trifluorotoluene	103%	101%
Bromobenzene	101%	103%

FORM III

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
BETX by Method SW8021BMod

Sample ID: LCS-082606
LAB CONTROL SAMPLE

Lab Sample ID: LCS-082606
LIMS ID: 06-15520
Matrix: Water
Data Release Authorized:
Reported: 09/01/06

QC Report No: JU16-Geomatrix Consultants
Project: FRP
Event: 8769.006
Date Sampled: NA
Date Received: NA

Date Analyzed LCS: 08/26/06 14:20
LCSD: 08/26/06 14:49
Instrument/Analyst LCS: PID2/PKC
LCSD: PID2/PKC

Purge Volume: 5.0 mL

Dilution Factor LCS: 1.0 mL
LCSD: 1.0 mL

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
Benzene	7.72	8.20	94.1%	7.22	8.20	88.0%	6.7%
Toluene	67.0	66.8	100%	58.9	66.8	88.2%	12.9%
Ethylbenzene	12.3	12.2	101%	10.7	12.2	87.7%	13.9%
m,p-Xylene	45.3	45.8	98.9%	39.1	45.8	85.4%	14.7%
o-Xylene	16.3	15.9	103%	14.3	15.9	89.9%	13.1%

Reported in µg/L (ppb)

RPD calculated using sample concentrations per SW846.

BETX Surrogate Recovery

	LCS	LCSD
Trifluorotoluene	105%	95.6%
Bromobenzene	102%	94.9%

FORM III

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
BETX by Method SW8021BMod

Sample ID: LCS-082806
LAB CONTROL SAMPLE

Lab Sample ID: LCS-082806
LIMS ID: 06-15513
Matrix: Soil
Data Release Authorized:
Reported: 09/01/06

QC Report No: JU16-Geomatrix Consultants
Project: FRP
Event: 8769.006
Date Sampled: NA
Date Received: NA

Date Analyzed LCS: 08/28/06 13:15
LCSD: 08/28/06 13:44
Instrument/Analyst LCS: PID2/PKC
LCSD: PID2/PKC

Purge Volume: 5.0 mL

Sample Amount LCS: 100 mg-dry-wt
LCSD: 100 mg-dry-wt

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
Benzene	383	410	93.4%	390	410	95.1%	1.8%
Toluene	3270	3340	97.9%	3230	3340	96.7%	1.2%
Ethylbenzene	609	610	99.8%	592	610	97.0%	2.8%
m,p-Xylene	2240	2290	97.8%	2190	2290	95.6%	2.3%
o-Xylene	797	795	100%	794	795	99.9%	0.4%

Reported in µg/kg (ppb)

RPD calculated using sample concentrations per SW846.

BETX Surrogate Recovery

	LCS	LCSD
Trifluorotoluene	113%	109%
Bromobenzene	103%	102%

FORM III

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
BETX by Method SW8021BMod

Sample ID: LCS-082406
LAB CONTROL SAMPLE

Lab Sample ID: LCS-082406
LIMS ID: 06-15549
Matrix: Water
Data Release Authorized:
Reported: 09/01/06

QC Report No: JU19-Geomatrix Consultants
Project: FRP
Event: 8769.006
Date Sampled: NA
Date Received: NA

Date Analyzed LCS: 08/24/06 12:10
LCSD: 08/24/06 12:39
Instrument/Analyst LCS: PID2/PKC
LCSD: PID2/PKC

Purge Volume: 5.0 mL

Dilution Factor LCS: 1.0 mL
LCSD: 1.0 mL

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
Benzene	6.40	8.20	78.0%	7.53	8.20	91.8%	16.2%
Toluene	56.4	66.8	84.4%	62.6	66.8	93.7%	10.4%
Ethylbenzene	11.0	12.2	90.2%	12.1	12.2	99.2%	9.5%
m,p-Xylene	40.6	45.8	88.6%	43.0	45.8	93.9%	5.7%
o-Xylene	14.7	15.9	92.5%	15.7	15.9	98.7%	6.6%

Reported in µg/L (ppb)

RPD calculated using sample concentrations per SW846.

BETX Surrogate Recovery

	LCS	LCSD
Trifluorotoluene	91.4%	102%
Bromobenzene	101%	105%

FORM III

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
BETX by Method SW8021BMod

Sample ID: LCS-082606
LAB CONTROL SAMPLE

Lab Sample ID: LCS-082606
LIMS ID: 06-15729
Matrix: Soil
Data Release Authorized:
Reported: 09/01/06

QC Report No: JU45-Geomatrix Consultants
Project: Former Phone-Poulenc
Event: 8769.006
Date Sampled: NA
Date Received: NA

Date Analyzed LCS: 08/26/06 11:47
LCSD: 08/26/06 12:16
Instrument/Analyst LCS: PID2/PKC
LCSD: PID2/PKC

Purge Volume: 5.0 mL

Sample Amount LCS: 200 mg-dry-wt
LCSD: 200 mg-dry-wt

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
Benzene	197	205	96.1%	191	205	93.2%	3.1%
Toluene	1650	1670	98.8%	1610	1670	96.4%	2.5%
Ethylbenzene	295	305	96.7%	297	305	97.4%	0.7%
m,p-Xylene	1080	1140	94.7%	1060	1140	93.0%	1.9%
o-Xylene	398	398	100%	390	398	98.0%	2.0%

Reported in µg/kg (ppb)

RPD calculated using sample concentrations per SW846.

BETX Surrogate Recovery

	LCS	LCSD
Trifluorotoluene	106%	101%
Bromobenzene	99.4%	100%

FORM III

BETX/GAS METHOD BLANK SUMMARY

BLANK NO.

MB082406W1

Lab Name: ANALYTICAL RESOURCES, INC Client: GEOMATRIX

SDG No.: JU16,JU19 Project No.: FRP

Date Analyzed : 08/24/06 Matrix: WATER

Time Analyzed : 1309 Instrument ID : PID2

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS, and MSD:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED
01	LCS082406W1	LCS082406W1	08/24/06
02	LCSD082406W1	LCSD082406W1	08/24/06
03	RP082406-11	JU19C	08/24/06
04			
05			
06			
07			
08			
09			
10			
11			
12			
13			
14			
15			
16			
17			
18			
19			
20			
21			
22			
23			
24			
25			
26			
27			
28			
29			
30			

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
BETX by Method SW8021BMod

Sample ID: MB-082406
METHOD BLANK

Lab Sample ID: MB-082406
LIMS ID: 06-15549
Matrix: Water
Data Release Authorized:
Reported: 09/01/06

QC Report No: JU19-Geomatrix Consultants
Project: FRP
Event: 8769.006
Date Sampled: NA
Date Received: NA

Date Analyzed: 08/24/06 13:09
Instrument/Analyst: PID2/PKC

Purge Volume: 5.0 mL
Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
71-43-2	Benzene	1.0	< 1.0 U
108-88-3	Toluene	1.0	< 1.0 U
100-41-4	Ethylbenzene	1.0	< 1.0 U
	m,p-Xylene	1.0	< 1.0 U
95-47-6	o-Xylene	1.0	< 1.0 U

BETX Surrogate Recovery

Trifluorotoluene	86.9%
Bromobenzene	101%

BETX values reported in µg/L (ppb)

FORM I

4

BETX/GAS METHOD BLANK SUMMARY

BLANK NO.

MB082406S1

Lab Name: ANALYTICAL RESOURCES, INC Client: GEOMATRIX

SDG No.: JU16,JU19 Project No.: FRP

Date Analyzed : 08/24/06 Matrix: SOIL

Time Analyzed : 1141 Instrument ID : PID2

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS, and MSD:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED
01	LCS082406S1	LCS082406S1	08/24/06
02	LCSD082406S1	LCSD082406S1	08/24/06
03	RP082406-16	JU19H	08/25/06
04	RP082406-06	JU16B	08/25/06
05			
06			
07			
08			
09			
10			
11			
12			
13			
14			
15			
16			
17			
18			
19			
20			
21			
22			
23			
24			
25			
26			
27			
28			
29			
30			

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
BETX by Method SW8021BMod

Sample ID: MB-082406
METHOD BLANK

Lab Sample ID: MB-082406
LIMS ID: 06-15514
Matrix: Soil
Data Release Authorized:
Reported: 09/01/06

QC Report No: JU16-Geomatrix Consultants
Project: FRP
Event: 8769.006
Date Sampled: NA
Date Received: NA

Date Analyzed: 08/24/06 11:41
Instrument/Analyst: PID2/PKC

Purge Volume: 5.0 mL
Sample Amount: 200 mg-dry-wt

CAS Number	Analyte	RL	Result
71-43-2	Benzene	12	< 12 U
108-88-3	Toluene	12	< 12 U
100-41-4	Ethylbenzene	12	< 12 U
	m,p-Xylene	25	< 25 U
95-47-6	o-Xylene	12	< 12 U

BETX Surrogate Recovery

Trifluorotoluene	91.3%
Bromobenzene	107%

BETX values reported in µg/kg (ppb)

BETX/GAS METHOD BLANK SUMMARY

BLANK NO.

MB0826W1

Lab Name: ANALYTICAL RESOURCES, INC Client: GEOMATRIX

SDG No.: JU16,JU45 Project No.: FRP

Date Analyzed : 08/26/06 Matrix: WATER

Time Analyzed : 1518 Instrument ID : PID2

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS, and MSD:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED
01	LCS0826W1	LCS0826W1	08/26/06
02	LCSD0826W1	LCSD0826W1	08/26/06
03	RP082406-08	JU16H	08/26/06
04	RP082608-02	JU45B	08/26/06
05	RP082608-04	JU45D	08/26/06
06			
07			
08			
09			
10			
11			
12			
13			
14			
15			
16			
17			
18			
19			
20			
21			
22			
23			
24			
25			
26			
27			
28			
29			
30			

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
BETX by Method SW8021BMod

Sample ID: MB-082606
METHOD BLANK

Lab Sample ID: MB-082606
LIMS ID: 06-15520
Matrix: Water
Data Release Authorized:
Reported: 09/01/06

QC Report No: JU16-Geomatrix Consultants
Project: FRP
Event: 8769.006
Date Sampled: NA
Date Received: NA

Date Analyzed: 08/26/06 15:18
Instrument/Analyst: PID2/PKC

Purge Volume: 5.0 mL
Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
71-43-2	Benzene	1.0	< 1.0 U
108-88-3	Toluene	1.0	< 1.0 U
100-41-4	Ethylbenzene	1.0	< 1.0 U
	m,p-Xylene	1.0	< 1.0 U
95-47-6	o-Xylene	1.0	< 1.0 U

BETX Surrogate Recovery

Trifluorotoluene	80.2%
Bromobenzene	93.2%

BETX values reported in µg/L (ppb)

FORM I

BETX/GAS METHOD BLANK SUMMARY

BLANK NO.

MB082806S1

Lab Name: ANALYTICAL RESOURCES, INC Client: GEOMATRIX

SDG No.: JU16,JU19,JU45,JU46 Project No.: FRP

Date Analyzed : 08/28/06 Matrix: SOIL

Time Analyzed : 1414 Instrument ID : PID2

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS, and MSD:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED
01	LCS082806S1	LCS082806S1	08/28/06
02	LCSD082706S1	LCSD082806S1	08/28/06
03	RP082606-09	JU46C	08/28/06
04	RP082608-06	JU45F	08/28/06
05	RP082406-03	JU16G	08/28/06
06	RP082406-14	JU19F	08/28/06
07	RP082406-11	JU19C	08/28/06
08	RP082406-07	JU16C	08/28/06
09	RP082406-04	JU16D	08/28/06
10	RP082406-18	JU19J	08/28/06
11	RP082606-08	JU46B	08/28/06
12	RP082406-09	JU19A	08/28/06
13	RP082406-05	JU16A	08/28/06
14	RP082406-10	JU19B	08/28/06
15	RP082406-12	JU19D	08/28/06
16	RP082406-13	JU19E	08/28/06
17	RP082406-15	JU19G	08/29/06
18	RP082406-17	JU19I	08/29/06
19	RP082608-05	JU45E	08/29/06
20	RP082606-07	JU46A	08/29/06
21			
22			
23			
24			
25			
26			
27			
28			
29			
30			

FORM IV BETX/GAS

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
BETX by Method SW8021BMod

Sample ID: MB-082806
METHOD BLANK

Lab Sample ID: MB-082806
LIMS ID: 06-15513
Matrix: Soil
Data Release Authorized:
Reported: 09/01/06

QC Report No: JU16-Geomatrix Consultants
Project: FRP
Event: 8769.006
Date Sampled: NA
Date Received: NA

Date Analyzed: 08/28/06 14:14
Instrument/Analyst: PID2/PKC

Purge Volume: 5.0 mL
Sample Amount: 100 mg-dry-wt

CAS Number	Analyte	RL	Result
71-43-2	Benzene	25	< 25 U
108-88-3	Toluene	25	< 25 U
100-41-4	Ethylbenzene	25	< 25 U
	m,p-Xylene	50	< 50 U
95-47-6	o-Xylene	25	< 25 U

BETX Surrogate Recovery

Trifluorotoluene	83.0%
Bromobenzene	94.6%

BETX values reported in µg/kg (ppb)

FORM I

BETX/GAS METHOD BLANK SUMMARY

BLANK NO.

MB0826S1

Lab Name: ANALYTICAL RESOURCES, INC Client: GEOMATRIX

SDG No.: JU16,JU45 Project No.: FRP

Date Analyzed : 08/26/06 Matrix: SOIL

Time Analyzed : 1246 Instrument ID : PID2

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS, and MSD:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED
01	LCS0826S1	LCS0826S1	08/26/06
02	JLSD0826S1	LCSD0826S1	08/26/06
03	RP082608-03	JU45C	08/26/06
04	RP082608-01	JU45A	08/26/06
05	RP082608-01	JU45AMS	08/27/06
06	RP082608-01	JU45AMSD	08/27/06
07			
08			
09			
10			
11			
12			
13			
14			
15			
16			
17			
18			
19			
20			
21			
22			
23			
24			
25			
26			
27			
28			
29			
30			

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
BETX by Method SW8021BMod

Sample ID: MB-082606
METHOD BLANK

Lab Sample ID: MB-082606
LIMS ID: 06-15729
Matrix: Soil
Data Release Authorized:
Reported: 09/01/06

QC Report No: JU45-Geomatrix Consultants
Project: Former Phone-Poulenc
Event: 8769.006
Date Sampled: NA
Date Received: NA

Date Analyzed: 08/26/06 12:46
Instrument/Analyst: PID2/PKC

Purge Volume: 5.0 mL
Sample Amount: 200 mg-dry-wt

CAS Number	Analyte	RL	Result
71-43-2	Benzene	12	< 12 U
108-88-3	Toluene	12	< 12 U
100-41-4	Ethylbenzene	12	< 12 U
	m,p-Xylene	25	< 25 U
95-47-6	o-Xylene	12	< 12 U

BETX Surrogate Recovery

Trifluorotoluene	86.6%
Bromobenzene	106%

BETX values reported in µg/kg (ppb)

FORM I

GENERAL CHEMISTRY

SAMPLE RESULTS-CONVENTIONALS
JU16-Geomatrix Consultants

ANALYTICAL RESOURCES INCORPORATED

Matrix: Soil
Data Release Authorized:
Reported: 08/29/06

Project: FRP
Event: 8769.006
Date Sampled: 08/24/06
Date Received: 08/24/06

Client ID: RP082406-05
ARI ID: 06-15513 JU16A

Analyte	Date	Method	Units	RL	Sample
Total Solids	08/25/06 082506#1	EPA 160.3	Percent	0.01	75.90
Total Organic Carbon	08/28/06 082806#1	Plumb,1981	Percent	0.020	0.256

RL Analytical reporting limit
U Undetected at reported detection limit

METHOD BLANK RESULTS-CONVENTIONALS
JU16-Geomatrix Consultants

ANALYTICAL RESOURCES INCORPORATED

Matrix: Soil
Data Release Authorized:
Reported: 08/29/06

Project: FRP
Event: 8769.006
Date Sampled: NA
Date Received: NA

Analyte	Date	Units	Blank
Total Solids	08/25/06	Percent	< 0.01 U
Total Organic Carbon	08/28/06	Percent	< 0.020 U

LAB CONTROL RESULTS-CONVENTIONALS
JU16-Geomatrix Consultants

ANALYTICAL RESOURCES INCORPORATED

Matrix: Soil
Data Release Authorized:
Reported: 08/29/06

Project: FRP
Event: 8769.006
Date Sampled: NA
Date Received: NA

Analyte	Date	Units	LCS	Spike Added	Recovery
Total Organic Carbon	08/28/06	Percent	0.500	0.500	100.0%

STANDARD REFERENCE RESULTS-CONVENTIONALS
JU16-Geomatrix Consultants

ANALYTICAL RESOURCES INCORPORATED

Matrix: Soil
Data Release Authorized:
Reported: 08/29/06

Project: FRP
Event: 8769.006
Date Sampled: NA
Date Received: NA

Analyte/SRM ID	Date	Units	SRM	True Value	Recovery
Total Organic Carbon NIST #8704	08/28/06	Percent	3.22	3.35	96.1%

REPLICATE RESULTS-CONVENTIONALS
JU16-Geomatrix Consultants

ANALYTICAL RESOURCES INCORPORATED

Matrix: Soil
Data Release Authorized:
Reported: 08/29/06

Project: FRP
Event: 8769.006
Date Sampled: 08/24/06
Date Received: 08/24/06

Analyte	Date	Units	Sample	Replicate(s)	RPD/RSD
ARI ID: JU16A Client ID: RP082406-05					
Total Solids	08/25/06	Percent	75.90	76.30 76.20	0.3%
Total Organic Carbon	08/28/06	Percent	0.256	0.250 0.273	4.6%

MS/MSD RESULTS-CONVENTIONALS
JU16-Geomatrix Consultants

ANALYTICAL RESOURCES INCORPORATED

Matrix: Soil
Data Release Authorized:
Reported: 08/29/06

Project: FRP
Event: 8769.006
Date Sampled: 08/24/06
Date Received: 08/24/06

Analyte	Date	Units	Sample	Spike	Spike Added	Recovery
ARI ID: JU16A Client ID: RP082406-05						
Total Organic Carbon	08/28/06	Percent	0.256	0.878	0.590	105.4%

SAMPLE RESULTS-CONVENTIONALS
JU19-Geomatrix Consultants

ANALYTICAL RESOURCES INCORPORATED

Matrix: Soil
Data Release Authorized:
Reported: 08/29/06

Project: FRP
Event: 8769.006
Date Sampled: 08/24/06
Date Received: 08/24/06

Client ID: RP082406-16
ARI ID: 06-15554 JU19H

Analyte	Date	Method	Units	RL	Sample
Total Solids	08/25/06 082506#1	EPA 160.3	Percent	0.01	74.40
Total Organic Carbon	08/28/06 082806#1	Plumb,1981	Percent	0.020	0.358

RL Analytical reporting limit
U Undetected at reported detection limit

METHOD BLANK RESULTS-CONVENTIONALS
JU19-Geomatrix Consultants

ANALYTICAL RESOURCES INCORPORATED

Matrix: Soil
Data Release Authorized:
Reported: 08/29/06

Project: FRP
Event: 8769.006
Date Sampled: NA
Date Received: NA

Analyte	Date	Units	Blank
Total Solids	08/25/06	Percent	< 0.01 U
Total Organic Carbon	08/28/06	Percent	< 0.020 U

LAB CONTROL RESULTS-CONVENTIONALS
JU19-Geomatrix Consultants

ANALYTICAL RESOURCES INCORPORATED

Matrix: Soil
Data Release Authorized:
Reported: 08/29/06

Project: FRP
Event: 8769.006
Date Sampled: NA
Date Received: NA

Analyte	Date	Units	LCS	Spike Added	Recovery
Total Organic Carbon	08/28/06	Percent	0.500	0.500	100.0%

STANDARD REFERENCE RESULTS-CONVENTIONALS
JU19-Geomatrix Consultants

ANALYTICAL RESOURCES INCORPORATED

Matrix: Soil
Data Release Authorized:
Reported: 08/29/06

Project: FRP
Event: 8769.006
Date Sampled: NA
Date Received: NA

Analyte/SRM ID	Date	Units	SRM	True Value	Recovery
Total Organic Carbon NIST #8704	08/28/06	Percent	3.22	3.35	96.1%

Laboratory Data Package

Prepared
for

Geomatrix Consultants

Project: FRP , 8769.006

ARI Job Nos.:JU16, JU19, JU45 & JU46

Prepared
By

Analytical Resources, Inc.

ARI Data Reporting Qualifiers

Effective 11/22/04

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 reporting limit is raised due to a positive chromatographic interference. The compound is not detected above the raised limit but may be present at or below the 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

TOTAL SOLIDS

BETX/TPHG Total Solids-betxts
Data By: Joshua G. Rains
Created: 8/25/06

Worklist: 4495
Analyst: JGR
Comments:

ARI ID	Tare Wt (g)	Wet Wt (g)	Dry Wt (g)	% Solids
1. JU16A 06-15513	13.7	19.09	17.74	75.1
2. JU16B 06-15514	13.7	19.30	18.11	78.6
3. JU19A 06-15547	13.8	19.43	18.15	77.3
4. JU19B 06-15548	13.7	19.66	18.20	75.3
5. JU19D 06-15550	13.8	19.96	18.41	75.0
6. JU19E 06-15551	13.7	18.61	18.08	89.2
7. JU19G 06-15553	13.8	20.23	19.44	87.8
8. JU19H 06-15554	13.8	21.21	19.51	77.1
9. JU19I 06-15555	13.7	20.71	19.00	75.5

* - BETX TS Copied From VOA TS
% - BETX TS Copied From Metals TS
$ - BETX TS Copied From Extraction TS

BETX/TPHG Total Solids-betxts
Data By: Paul K. Campbell
Created: 8/29/06

Worklist: 5882
Analyst: PKC
Comments:

ARI ID	Tare Wt (g)	Wet Wt (g)	Dry Wt (g)	% Solids
1. JU45A 06-15729	1.11	13.10	10.68	79.8
2. JU45C 06-15731	1.08	15.04	11.24	72.8
3. JU45E 06-15733	1.12	8.17	6.68	78.9

Worklist ID: 5882 Page: 1
* - BETX TS Copied From VOA TS
% - BETX TS Copied From Metals TS
$ - BETX TS Copied From Extraction TS

BETX/TPHG Total Solids-betxts
Data By: Paul K. Campbell
Created: 8/29/06

Worklist: 5948
Analyst: PKC
Comments:

ARI ID	Tare Wt (g)	Wet Wt (g)	Dry Wt (g)	% Solids
1. JU46A 06-15735	1.10	10.52	8.27	76.1

Worklist ID: 5948 Page: 1
* - BETX TS Copied From VOA TS
% - BETX TS Copied From Metals TS
$ - BETX TS Copied From Extraction TS

BETX Analysis
QC Summary Data

Prepared
for

Geomatrix Consultants

Project: FRP , 8769.006

ARI Job Nos.:JU16, JU19, JU45 & JU46

Prepared
By

Analytical Resources, Inc.

ANALYTICAL RESOURCES INCORPORATED

BETX SOIL SURROGATE RECOVERY SUMMARY

ARI Job: JU16
Matrix: Soil

QC Report No: JU16-Geomatrix Consultants
Project: FRP
Event: 8769.006

Client ID	TFT	BBZ	TOT OUT
MB-082806	83.0%	94.6%	0
LCS-082806	113%	103%	0
LCSD-082806	109%	102%	0
RP082406-05	91.3%	103%	0
MB-082406	91.3%	107%	0
LCS-082406	103%	101%	0
LCSD-082406	101%	103%	0
RP082406-06	91.4%	106%	0

	LCS/MB LIMITS	QC LIMITS
(TFT) = Trifluorotoluene	(82-128)	(53-147)
(BBZ) = Bromobenzene	(82-123)	(60-153)

Log Number Range: 06-15513 to 06-15514

ANALYTICAL RESOURCES INCORPORATED

BETX WATER SURROGATE RECOVERY SUMMARY

ARI Job: JU16
Matrix: Water

QC Report No: JU16-Geomatrix Consultants
Project: FRP
Event: 8769.006

Client ID	TFT	BBZ	TOT OUT
RP082406-07	85.8%	103%	0
RP082406-04	90.8%	103%	0
RP082406-03	90.5%	104%	0
MB-082606	80.2%	93.2%	0
LCS-082606	105%	102%	0
LCSD-082606	95.6%	94.9%	0
RP082406-08	88.4%	98.3%	0

	LCS/MB LIMITS	QC LIMITS
(TFT) = Trifluorotoluene	(80-126)	(72-124)
(BBZ) = Bromobenzene	(81-119)	(79-119)

Log Number Range: 06-15515 to 06-15520

FORM II BETX

ANALYTICAL RESOURCES INCORPORATED

BETX WATER SURROGATE RECOVERY SUMMARY

ARI Job: JU19
Matrix: Water

QC Report No: JU19-Geomatrix Consultants
Project: FRP
Event: 8769.006

Client ID	TFT	BBZ	TOT OUT
MB-082406	86.9%	101%	0
LCS-082406	91.4%	101%	0
LCSD-082406	102%	105%	0
RP082406-11	76.3%	83.2%	0
RP082406-14	87.3%	103%	0
RP082406-18	95.4%	106%	0

	LCS/MB LIMITS	QC LIMITS
(TFT) = Trifluorotoluene	(80-126)	(72-124)
(BBZ) = Bromobenzene	(81-119)	(79-119)

Log Number Range: 06-15549 to 06-15556

FORM II BETX

ANALYTICAL RESOURCES INCORPORATED

BETX SOIL SURROGATE RECOVERY SUMMARY

ARI Job: JU19
Matrix: Soil

QC Report No: JU19-Geomatrix Consultants
Project: FRP
Event: 8769.006

Client ID	TFT	BBZ	TOT OUT
MB-082806	83.0%	94.6%	0
LCS-082806	113%	103%	0
LCSD-082806	109%	102%	0
RP082406-09	84.9%	100%	0
RP082406-10	93.8%	105%	0
RP082406-12	90.0%	104%	0
RP082406-13	87.1%	100%	0
RP082406-15	88.4%	102%	0
MB-082406	91.3%	107%	0
LCS-082406	103%	101%	0
LCSD-082406	101%	103%	0
RP082406-16	86.8%	101%	0
RP082406-17	82.2%	100%	0

	LCS/MB LIMITS	QC LIMITS
(TFT) = Trifluorotoluene	(82-128)	(53-147)
(BBZ) = Bromobenzene	(82-123)	(60-153)

Log Number Range: 06-15547 to 06-15555

ANALYTICAL RESOURCES INCORPORATED

BETX WATER SURROGATE RECOVERY SUMMARY

ARI Job: JU45
Matrix: Water

QC Report No: JU45-Geomatrix Consultants
Project: Former Phone-Poulenc
Event: 8769.006

Client ID	TFT	BBZ	TOT OUT
MB-082606	80.2%	93.2%	0
LCS-082606	105%	102%	0
LCSD-082606	95.6%	94.9%	0
RP082606-02	77.7%	99.1%	0
RP082606-04	90.2%	103%	0
RP082606-06	96.9%	104%	0

	LCS/MB LIMITS	QC LIMITS
(TFT) = Trifluorotoluene	(80-126)	(72-124)
(BBZ) = Bromobenzene	(81-119)	(79-119)

Log Number Range: 06-15730 to 06-15734

ANALYTICAL RESOURCES INCORPORATED

BETX SOIL SURROGATE RECOVERY SUMMARY

ARI Job: JU45
Matrix: Soil

QC Report No: JU45-Geomatrix Consultants
Project: Former Phone-Poulenc
Event: 8769.006

Client ID	TFT	BBZ	TOT OUT
MB-082606	86.6%	106%	0
LCS-082606	106%	99.4%	0
LCSD-082606	101%	100%	0
RP082606-01	82.6%	96.9%	0
RP082606-01 MS	84.7%	94.8%	0
RP082606-01 MSD	93.3%	100%	0
RP082606-03	82.3%	99.1%	0
MB-082806	83.0%	94.6%	0
LCS-082806	113%	103%	0
LCSD-082806	109%	102%	0
RP082606-05	87.6%	103%	0

	LCS/MB LIMITS	QC LIMITS
(TFT) = Trifluorotoluene	(82-128)	(53-147)
(BBZ) = Bromobenzene	(82-123)	(60-153)

Log Number Range: 06-15729 to 06-15733

ANALYTICAL RESOURCES INCORPORATED

BETX SOIL SURROGATE RECOVERY SUMMARY

ARI Job: JU46
Matrix: Soil

QC Report No: JU46-Geomatrix
Project: Former Rhone Poulenc
Event: 8769.006

Client ID	TFT	BBZ	TOT OUT
MB-082806	83.0%	94.6%	0
LCS-082806	113%	103%	0
LCSD-082806	109%	102%	0
RP082606-07	92.5%	107%	0

	LCS/MB LIMITS	QC LIMITS
(TFT) = Trifluorotoluene	(82-128)	(53-147)
(BBZ) = Bromobenzene	(82-123)	(60-153)

Log Number Range: 06-15735 to 06-15735

FORM II BETX

ANALYTICAL RESOURCES INCORPORATED

BETX WATER SURROGATE RECOVERY SUMMARY

ARI Job: JU46
Matrix: Water

QC Report No: JU46-Geomatrix
Project: Former Rhone Poulenc
Event: 8769.006

Client ID	TFT	BBZ	TOT OUT
MB-082806	83.0%	94.6%	0
LCS-082806	113%	103%	0
LCSD-082806	109%	102%	0
RP082606-08	88.7%	104%	0
RP082606-09	110%	107%	0

	LCS/MB LIMITS	QC LIMITS
(TFT) = Trifluorotoluene	(80-126)	(72-124)
(BBZ) = Bromobenzene	(81-119)	(79-119)

Log Number Range: 06-15736 to 06-15737

FORM II BETX

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
BETX by Method SW8021BMod

Sample ID: RP082606-01
MATRIX SPIKE

Lab Sample ID: JU45A
LIMS ID: 06-15729
Matrix: Soil
Data Release Authorized:
Reported: 09/01/06

QC Report No: JU45-Geomatrix Consultants
Project: Former Phone-Poulenc
Event: 8769.006
Date Sampled: 08/26/06
Date Received: 08/26/06

Date Analyzed MS: 08/27/06 00:53
MSD: 08/27/06 01:22
Instrument/Analyst MS: PID2/PKC
MSD: PID2/PKC

Purge Volume: 5.0 mL

Sample Amount MS: 93 mg-dry-wt
MSD: 93 mg-dry-wt

Analyte	Sample	MS	Spike Added-MS	MS Recovery	MSD	Spike Added-MSD	MSD Recovery	RPD
Benzene	< 13.5 U	368	339	109%	410	339	121%	10.8%
Toluene	< 13.5 U	3140	2760	114%	3420	2760	124%	8.5%
Ethylbenzene	< 13.5 U	584	504	116%	622	504	123%	6.3%
m,p-Xylene	< 27.0 U	2110	1900	111%	2240	1900	118%	6.0%
o-Xylene	< 13.5 U	780	659	118%	825	659	125%	5.6%

Reported in µg/kg (ppb)

RPD calculated using sample concentrations per SW846.

BETX Surrogate Recovery

	MS	MSD
Trifluorotoluene	84.7%	93.3%
Bromobenzene	94.8%	100%

FORM III

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
BETX by Method SW8021BMod

Sample ID: LCS-082406
LAB CONTROL SAMPLE

Lab Sample ID: LCS-082406
LIMS ID: 06-15514
Matrix: Soil
Data Release Authorized:
Reported: 09/01/06

QC Report No: JU16-Geomatrix Consultants
Project: FRP
Event: 8769.006
Date Sampled: NA
Date Received: NA

Date Analyzed LCS: 08/24/06 10:42
LCSD: 08/24/06 11:11
Instrument/Analyst LCS: PID2/PKC
LCSD: PID2/PKC

Purge Volume: 5.0 mL

Sample Amount LCS: 200 mg-dry-wt
LCSD: 200 mg-dry-wt

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
Benzene	196	205	95.6%	198	205	96.6%	1.0%
Toluene	1600	1670	95.8%	1600	1670	95.8%	0.0%
Ethylbenzene	304	305	99.7%	310	305	102%	2.0%
m,p-Xylene	1130	1140	99.1%	1140	1140	100%	0.9%
o-Xylene	410	398	103%	414	398	104%	1.0%

Reported in µg/kg (ppb)

RPD calculated using sample concentrations per SW846.

BETX Surrogate Recovery

	LCS	LCSD
Trifluorotoluene	103%	101%
Bromobenzene	101%	103%

FORM III

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
BETX by Method SW8021BMod
Page 1 of 1

Sample ID: LCS-082406
LAB CONTROL SAMPLE

Lab Sample ID: LCS-082406
LIMS ID: 06-15549
Matrix: Water
Data Release Authorized:
Reported: 09/01/06

QC Report No: JU19-Geomatrix Consultants
Project: FRP
Event: 8769.006
Date Sampled: NA
Date Received: NA

Date Analyzed LCS: 08/24/06 12:10
LCSD: 08/24/06 12:39
Instrument/Analyst LCS: PID2/PKC
LCSD: PID2/PKC

Purge Volume: 5.0 mL

Dilution Factor LCS: 1.0 mL
LCSD: 1.0 mL

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
Benzene	6.40	8.20	78.0%	7.53	8.20	91.8%	16.2%
Toluene	56.4	66.8	84.4%	62.6	66.8	93.7%	10.4%
Ethylbenzene	11.0	12.2	90.2%	12.1	12.2	99.2%	9.5%
m,p-Xylene	40.6	45.8	88.6%	43.0	45.8	93.9%	5.7%
o-Xylene	14.7	15.9	92.5%	15.7	15.9	98.7%	6.6%

Reported in µg/L (ppb)

RPD calculated using sample concentrations per SW846.

BETX Surrogate Recovery

	LCS	LCSD
Trifluorotoluene	91.4%	102%
Bromobenzene	101%	105%

FORM III

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
BETX by Method SW8021BMod

Sample ID: LCS-082606
LAB CONTROL SAMPLE

Lab Sample ID: LCS-082606
LIMS ID: 06-15729
Matrix: Soil
Data Release Authorized:
Reported: 09/01/06

QC Report No: JU45-Geomatrix Consultants
Project: Former Phone-Poulenc
Event: 8769.006
Date Sampled: NA
Date Received: NA

Date Analyzed LCS: 08/26/06 11:47
LCSD: 08/26/06 12:16
Instrument/Analyst LCS: PID2/PKC
LCSD: PID2/PKC

Purge Volume: 5.0 mL

Sample Amount LCS: 200 mg-dry-wt
LCSD: 200 mg-dry-wt

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
Benzene	197	205	96.1%	191	205	93.2%	3.1%
Toluene	1650	1670	98.8%	1610	1670	96.4%	2.5%
Ethylbenzene	295	305	96.7%	297	305	97.4%	0.7%
m,p-Xylene	1080	1140	94.7%	1060	1140	93.0%	1.9%
o-Xylene	398	398	100%	390	398	98.0%	2.0%

Reported in µg/kg (ppb)

RPD calculated using sample concentrations per SW846.

BETX Surrogate Recovery

	LCS	LCSD
Trifluorotoluene	106%	101%
Bromobenzene	99.4%	100%

FORM III

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
BETX by Method SW8021BMod

Sample ID: LCS-082606
LAB CONTROL SAMPLE

Lab Sample ID: LCS-082606
LIMS ID: 06-15520
Matrix: Water
Data Release Authorized:
Reported: 09/01/06

QC Report No: JU16-Geomatrix Consultants
Project: FRP
Event: 8769.006
Date Sampled: NA
Date Received: NA

Date Analyzed LCS: 08/26/06 14:20
LCSD: 08/26/06 14:49
Instrument/Analyst LCS: PID2/PKC
LCSD: PID2/PKC

Purge Volume: 5.0 mL

Dilution Factor LCS: 1.0 mL
LCSD: 1.0 mL

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
Benzene	7.72	8.20	94.1%	7.22	8.20	88.0%	6.7%
Toluene	67.0	66.8	100%	58.9	66.8	88.2%	12.9%
Ethylbenzene	12.3	12.2	101%	10.7	12.2	87.7%	13.9%
m,p-Xylene	45.3	45.8	98.9%	39.1	45.8	85.4%	14.7%
o-Xylene	16.3	15.9	103%	14.3	15.9	89.9%	13.1%

Reported in µg/L (ppb)

RPD calculated using sample concentrations per SW846.

BETX Surrogate Recovery

	LCS	LCSD
Trifluorotoluene	105%	95.6%
Bromobenzene	102%	94.9%

FORM III

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
BETX by Method SW8021BMod

Sample ID: LCS-082806
LAB CONTROL SAMPLE

Lab Sample ID: LCS-082806
LIMS ID: 06-15513
Matrix: Soil
Data Release Authorized:
Reported: 09/01/06

QC Report No: JU16-Geomatrix Consultants
Project: FRP
Event: 8769.006
Date Sampled: NA
Date Received: NA

Date Analyzed LCS: 08/28/06 13:15
LCSD: 08/28/06 13:44
Instrument/Analyst LCS: PID2/PKC
LCSD: PID2/PKC

Purge Volume: 5.0 mL

Sample Amount LCS: 100 mg-dry-wt
LCSD: 100 mg-dry-wt

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
Benzene	383	410	93.4%	390	410	95.1%	1.8%
Toluene	3270	3340	97.9%	3230	3340	96.7%	1.2%
Ethylbenzene	609	610	99.8%	592	610	97.0%	2.8%
m,p-Xylene	2240	2290	97.8%	2190	2290	95.6%	2.3%
o-Xylene	797	795	100%	794	795	99.9%	0.4%

Reported in µg/kg (ppb)

RPD calculated using sample concentrations per SW846.

BETX Surrogate Recovery

	LCS	LCSD
Trifluorotoluene	113%	109%
Bromobenzene	103%	102%

FORM III

BETX/GAS METHOD BLANK SUMMARY

BLANK NO.

MB082406W1

Lab Name: ANALYTICAL RESOURCES, INC Client: GEOMATRIX

SDG No.: JU16,JU19 Project No.: FRP

Date Analyzed : 08/24/06 Matrix: WATER

Time Analyzed : 1309 Instrument ID : PID2

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS, and MSD:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED
01	LCS082406W1	LCS082406W1	08/24/06
02	LCSD082406W1	LCSD082406W1	08/24/06
03	RP082406-11	JU19C	08/24/06
04			
05			
06			
07			
08			
09			
10			
11			
12			
13			
14			
15			
16			
17			
18			
19			
20			
21			
22			
23			
24			
25			
26			
27			
28			
29			
30			

FORM IV BETX/GAS

BETX/GAS METHOD BLANK SUMMARY

BLANK NO.

MB082406S1

Lab Name: ANALYTICAL RESOURCES, INC Client: GEOMATRIX

SDG No.: JU16,JU19 Project No.: FRP

Date Analyzed : 08/24/06 Matrix: SOIL

Time Analyzed : 1141 Instrument ID : PID2

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS, and MSD:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED
01	LCS082406S1	LCS082406S1	08/24/06
02	LCSD082406S1	LCSD082406S1	08/24/06
03	RP082406-16	JU19H	08/25/06
04	RP082406-06	JU16B	08/25/06
05			
06			
07			
08			
09			
10			
11			
12			
13			
14			
15			
16			
17			
18			
19			
20			
21			
22			
23			
24			
25			
26			
27			
28			
29			
30			

FORM IV BETX/GAS

BETX/GAS METHOD BLANK SUMMARY

BLANK NO.

MB0826W1

Lab Name: ANALYTICAL RESOURCES, INC Client: GEOMATRIX

SDG No.: JU16,JU45 Project No.: FRP

Date Analyzed : 08/26/06 Matrix: WATER

Time Analyzed : 1518 Instrument ID : PID2

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS, and MSD:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED
01	LCS0826W1	LCS0826W1	08/26/06
02	LCSD0826W1	LCSD0826W1	08/26/06
03	RP082406-08	JU16H	08/26/06
04	RP082608-02	JU45B	08/26/06
05	RP082608-04	JU45D	08/26/06
06			
07			
08			
09			
10			
11			
12			
13			
14			
15			
16			
17			
18			
19			
20			
21			
22			
23			
24			
25			
26			
27			
28			
29			
30			

FORM IV BETX/GAS

BETX/GAS METHOD BLANK SUMMARY

BLANK NO.

MB082806S1

Lab Name: ANALYTICAL RESOURCES, INC Client: GEOMATRIX

SDG No.: JU16,JU19,JU45,JU46 Project No.: FRP

Date Analyzed : 08/28/06 Matrix: SOIL

Time Analyzed : 1414 Instrument ID : PID2

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS, and MSD:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED
01	LCS082806S1	LCS082806S1	08/28/06
02	LCSD082706S1	LCSD082806S1	08/28/06
03	RP082606-09	JU46C	08/28/06
04	RP082608-06	JU45F	08/28/06
05	RP082406-03	JU16G	08/28/06
06	RP082406-14	JU19F	08/28/06
07	RP082406-11	JU19C	08/28/06
08	RP082406-07	JU16C	08/28/06
09	RP082406-04	JU16D	08/28/06
10	RP082406-18	JU19J	08/28/06
11	RP082606-08	JU46B	08/28/06
12	RP082406-09	JU19A	08/28/06
13	RP082406-05	JU16A	08/28/06
14	RP082406-10	JU19B	08/28/06
15	RP082406-12	JU19D	08/28/06
16	RP082406-13	JU19E	08/28/06
17	RP082406-15	JU19G	08/29/06
18	RP082406-17	JU19I	08/29/06
19	RP082608-05	JU45E	08/29/06
20	RP082606-07	JU46A	08/29/06
21			
22			
23			
24			
25			
26			
27			
28			
29			
30			

FORM IV BETX/GAS

BETX/GAS METHOD BLANK SUMMARY

BLANK NO.

MB0826S1

Lab Name: ANALYTICAL RESOURCES, INC Client: GEOMATRIX

SDG No.: JU16,JU45 Project No.: FRP

Date Analyzed : 08/26/06 Matrix: SOIL

Time Analyzed : 1246 Instrument ID : PID2

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS, and MSD:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED
01	LCS0826S1	LCS0826S1	08/26/06
02	JLSD0826S1	LCSD0826S1	08/26/06
03	RP082608-03	JU45C	08/26/06
04	RP082608-01	JU45A	08/26/06
05	RP082608-01	JU45AMS	08/27/06
06	RP082608-01	JU45AMSD	08/27/06
07			
08			
09			
10			
11			
12			
13			
14			
15			
16			
17			
18			
19			
20			
21			
22			
23			
24			
25			
26			
27			
28			
29			
30			

BETX/GAS ANALYTICAL SEQUENCE

Lab Name: ANALYTICAL RESOURCES, INC Client: GEOMATRIX

SDG No.: JU16,JU19,JU45,JU46 Project: FRP

Instrument ID: PID2 GC Detector: RTX 502-2 PID

Run Date: 07/27/06

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, AND STANDARDS, IS GIVEN BELOW:

METHOD SURROGATE RT
S1 : 6.44 S2 : 14.56

	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT #	S2 RT #
01	ZZZZZ	ZZZZZ	07/27/06	0953	6.47	14.56
02	ZZZZZ	ZZZZZ	07/27/06	1022		
03	ZZZZZ	ZZZZZ	07/27/06	1051		
04	BTEX .25	BTEX .25	07/27/06	1121	6.41	14.55
05	BTEX .5	BTEX .5	07/27/06	1150	6.41	14.54
06	BTEX 5	BTEX 5	07/27/06	1220	6.42	14.55
07	BTEX 25	BTEX 25	07/27/06	1249	6.43	14.55
08	BTEX 100	BTEX 100	07/27/06	1319	6.44	14.55
09	BTEX 200	BTEX 200	07/27/06	1348	6.44	14.56
10	BTEX ICV	BTEX ICV	07/27/06	1417	6.43	14.56

	QC LIMITS
S1 = TFT(Surr)	(+/- 0.07 MINUTES)
S2 = BB(Surr)	(+/- 0.07 MINUTES)

* Values outside of QC limits.

FORM VIII-2 BETX

BETX/GAS ANALYTICAL SEQUENCE

Lab Name: ANALYTICAL RESOURCES, INC Client: GEOMATRIX

SDG No.: JU16,JU19 Project: FRP

Instrument ID: PID2 GC Detector: RTX 502-2 PID

Run Date: 08/24/06

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, AND STANDARDS, IS GIVEN BELOW:

METHOD SURROGATE RT
S1 : 6.43 S2 : 14.54

	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT #	S2 RT #
01	ZZZZZ	ZZZZZ	08/24/06	0914	6.43	14.56
02	RT0824+BCAL	RT0824+BCAL	08/24/06	0943	6.43	14.56
03	ZZZZZ	ZZZZZ	08/24/06	1012	6.45	14.56
04	LCS082406S1	LCS082406S1	08/24/06	1042	6.43	14.55
05	LCSD082406S1	LCSD082406S1	08/24/06	1111	6.43	14.54
06	MB082406S1	MB082406S1	08/24/06	1141	6.42	14.55
07	LCS082406W1	LCS082406W1	08/24/06	1210	6.45	14.56
08	LCSD082406W1	LCSD082406W1	08/24/06	1239	6.43	14.55
09	MB082406W1	MB082406W1	08/24/06	1309	6.42	14.55
10	ZZZZZ	ZZZZZ	08/24/06	1900	6.43	14.56
11	ZZZZZ	ZZZZZ	08/24/06	1929	6.46	14.57
12	ZZZZZ	ZZZZZ	08/24/06	1958	6.44	14.55
13	ZZZZZ	ZZZZZ	08/24/06	2028	6.42	14.55
14	BCAL 2	BCAL2	08/24/06	2057	6.42	14.54
15	ZZZZZ	ZZZZZ	08/24/06	2127	6.44	14.55
16	ZZZZZ	ZZZZZ	08/24/06	2156	6.43	14.55
17	RP082406-11	JU19C	08/24/06	2226	6.41	14.54
18	ZZZZZ	ZZZZZ	08/24/06	2255	6.44	14.55
19	ZZZZZ	ZZZZZ	08/24/06	2324	6.48	14.55
20	ZZZZZ	ZZZZZ	08/24/06	2354	6.42	14.55
21	ZZZZZ	ZZZZZ	08/25/06	0023	6.42	14.55
22	ZZZZZ	ZZZZZ	08/25/06	0053	6.42	14.54
23	ZZZZZ	ZZZZZ	08/25/06	0122	6.47	14.55
24	ZZZZZ	ZZZZZ	08/25/06	0152	6.45	14.54
25	ZZZZZ	ZZZZZ	08/25/06	0221	6.43	14.54
26	BCAL 3	BCAL3	08/25/06	0250	6.43	14.55
27	ZZZZZ	ZZZZZ	08/25/06	0320	6.43	14.55
28	RP082406-16	JU19H	08/25/06	0349	6.43	14.54
29	ZZZZZ	ZZZZZ	08/25/06	0419	6.44	14.54
30	ZZZZZ	ZZZZZ	08/25/06	0448	6.43	14.54
31	RP082406-06	JU16B	08/25/06	0518	6.41	14.53
32	ZZZZZ	ZZZZZ	08/25/06	0547	6.42	14.55

		QC LIMITS
S1	= TFT(Surr)	(+/- 0.07 MINUTES)
S2	= BB(Surr)	(+/- 0.07 MINUTES)

* Values outside of QC limits.

FORM VIII-2 BETX

BETX/GAS ANALYTICAL SEQUENCE

Lab Name: ANALYTICAL RESOURCES, INC Client: GEOMATRIX

SDG No.: JU16,JU19 Project: FRP

Instrument ID: PID2 GC Detector: RTX 502-2 PID

Run Date: 08/25/06

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, AND STANDARDS, IS GIVEN BELOW:

METHOD SURROGATE RT
S1 : 6.43 S2 : 14.54

	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT #	S2 RT #
01	BCAL 4	BCAL4	08/25/06	0617	6.43	14.54

S1 = TFT(Surr) QC LIMITS (+/- 0.07 MINUTES)
S2 = BB(Surr) (+/- 0.07 MINUTES)

* Values outside of QC limits.

FORM VIII-2 BETX

BETX/GAS ANALYTICAL SEQUENCE

Lab Name: ANALYTICAL RESOURCES, INC Client: GEOMATRIX

SDG No.: JU16,JU45 Project: FRP

Instrument ID: PID2 GC Detector: RTX 502-2 PID

Run Date: 08/26/06

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, AND STANDARDS, IS GIVEN BELOW:

METHOD SURROGATE RT
S1 : 6.43 S2 : 14.56

	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT #	S2 RT #
01	ZZZZZ	ZZZZZ	08/26/06	1019	6.43	14.56
02	RT0826+BCAL	RT0826+BCAL	08/26/06	1048	6.43	14.56
03	ZZZZZ	ZZZZZ	08/26/06	1117	6.44	14.56
04	LCS0826S1	LCS0826S1	08/26/06	1147	6.43	14.55
05	JLSD0826S1	LCSD0826S1	08/26/06	1216	6.44	14.56
06	MB0826S1	MB0826S1	08/26/06	1246	6.42	14.55
07	LCS0826W1	LCS0826W1	08/26/06	1420	6.46	14.57
08	LCSD0826W1	LCSD0826W1	08/26/06	1449	6.44	14.56
09	MB0826W1	MB0826W1	08/26/06	1518	6.42	14.56
10	ZZZZZ	ZZZZZ	08/26/06	1633		14.56
11	RP082406-08	JU16H	08/26/06	1702	6.42	14.56
12	ZZZZZ	ZZZZZ	08/26/06	1732	6.42	14.56
13	BCAL 2	BCAL2	08/26/06	1801	6.44	14.56
14	ZZZZZ	ZZZZZ	08/26/06	1830	6.44	14.56
15	RP082608-02	JU45B	08/26/06	1900	6.43	14.56
16	RP082608-04	JU45D	08/26/06	1929	6.43	14.55
17	RP082608-03	JU45C	08/26/06	1959	6.42	14.56
18	RP082608-01	JU45A	08/26/06	2028	6.42	14.55
19	ZZZZZ	ZZZZZ	08/26/06	2057	6.43	14.56
20	ZZZZZ	ZZZZZ	08/26/06	2127	6.42	14.56
21	ZZZZZ	ZZZZZ	08/26/06	2156	6.42	14.56
22	ZZZZZ	ZZZZZ	08/26/06	2225	6.42	14.54
23	ZZZZZ	ZZZZZ	08/26/06	2255	6.43	14.55
24	ZZZZZ	ZZZZZ	08/26/06	2324	6.43	14.55
25	BCAL 3	BCAL3	08/26/06	2354	6.43	14.55
26	ZZZZZ	ZZZZZ	08/27/06	0023	6.44	14.54
27	RP082608-01	JU45AMS	08/27/06	0053	6.44	14.55
28	RP082608-01	JU45AMSD	08/27/06	0122	6.43	14.54
29	ZZZZZ	ZZZZZ	08/27/06	0151	6.41	14.54
30	BCAL 4	BCAL4	08/27/06	0221	6.43	14.55
31	GCAL 4	GCAL4	08/27/06	0250	6.45	14.54

		QC LIMITS
S1	= TFT(Surr)	(+/- 0.07 MINUTES)
S2	= BB(Surr)	(+/- 0.07 MINUTES)

* Values outside of QC limits.

FORM VIII-2 BETX

BETX/GAS ANALYTICAL SEQUENCE

Lab Name: ANALYTICAL RESOURCES, INC Client: GEOMATRIX

SDG No.: JU16,JU19,JU45,JU46 Project: FRP

Instrument ID: PID2 GC Detector: RTX 502-2 PID

Run Date: 08/28/06

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, AND STANDARDS, IS GIVEN BELOW:

METHOD SURROGATE RT
S1 : 6.43 S2 : 14.56

	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT #	S2 RT #
01	ZZZZZ	ZZZZZ	08/28/06	1103		14.56
02	RT0828+BCAL	RT0828+BCAL	08/28/06	1133	6.43	14.56
03	ZZZZZ	ZZZZZ	08/28/06	1202	6.44	14.56
04	LCS082806S1	LCS082806S1	08/28/06	1315	6.45	14.56
05	LCSD082706S1	LCSD082806S1	08/28/06	1344	6.44	14.57
06	MB082806S1	MB082806S1	08/28/06	1414	6.42	14.56
07	RP082606-09	JU46C	08/28/06	1614	6.44	14.57
08	RP082608-06	JU45F	08/28/06	1643	6.42	14.56
09	RP082406-03	JU16G	08/28/06	1713	6.44	14.56
10	RP082406-14	JU19F	08/28/06	1742	6.44	14.56
11	RP082406-11	JU19C	08/28/06	1811	6.42	14.56
12	RP082406-07	JU16C	08/28/06	1841	6.43	14.56
13	ZZZZZ	ZZZZZ	08/28/06	1910		14.55
14	BCAL 2	BCAL 2	08/28/06	1940	6.43	14.55
15	RP082406-04	JU16D	08/28/06	2009	6.43	14.56
16	RP082406-18	JU19J	08/28/06	2039	6.43	14.56
17	RP082606-08	JU46B	08/28/06	2108	6.42	14.56
18	RP082406-09	JU19A	08/28/06	2137	6.42	14.55
19	RP082406-05	JU16A	08/28/06	2207	6.42	14.56
20	RP082406-10	JU19B	08/28/06	2236	6.43	14.55
21	RP082406-12	JU19D	08/28/06	2306	6.43	14.54
22	RP082406-13	JU19E	08/28/06	2335	6.43	14.54
23	RP082406-15	JU19G	08/29/06	0005	6.44	14.55
24	ZZZZZ	ZZZZZ	08/29/06	0034		14.54
25	BCAL 3	BCAL 3	08/29/06	0104	6.43	14.54
26	RP082406-17	JU19I	08/29/06	0133	6.43	14.54
27	RP082608-05	JU45E	08/29/06	0202	6.43	14.54
28	RP082606-07	JU46A	08/29/06	0232	6.42	14.55
29	ZZZZZ	ZZZZZ	08/29/06	0301		14.53
30	ZZZZZ	ZZZZZ	08/29/06	0331	6.43	14.54
31	RT0829+BCAL	RT0829+BCAL	08/29/06	0853	6.44	14.57

		QC LIMITS
S1	= TFT(Surr)	(+/- 0.07 MINUTES)
S2	= BB(Surr)	(+/- 0.07 MINUTES)

* Values outside of QC limits.

FORM VIII-2 BETX

Geomatrix

Memorandum

TO:	Larry McGaughey	**DATE:**	September 12, 2006
FROM:	Zanna Satterwhite	**PROJ. NO.:**	8769.006
CC:	Project File	**PROJ. NAME:**	Former Rhone-Poulenc Site
SUBJECT:	**East Parcel Redevelopment Soil Sampling Summary Data Quality Review – SDGs JU52, JU97, JV32**		

This memorandum presents a summary data quality review of 11 primary soil samples and 3 trip blanks collected between August 28 and 31, 2006. The samples were submitted to Analytical Resources, Incorporated (ARI), a Washington State Department of Ecology (Ecology)-accredited laboratory, located in Tukwila, Washington. ARI subcontracted some of the samples to OnSite Environmental, Incorporated (OnSite), located in Redmond, Washington. The samples were analyzed for the following analyses:

- Benzene, toluene, ethylbenzene and total xylenes (BTEX) by EPA Method 8021

The analyses were performed in general accordance with methods specified in U.S. Environmental Protection Agency's (EPA) Test Methods for Evaluating Solid Waste (SW-846), January 1995 and associated revisions.

Laboratory sample delivery groups (SDGs) associated with the August 2006 sampling events are listed below. The samples associated with each SDG are presented in the table at the end of this memorandum.

Laboratory SDG	Date(s) Collected
JU52	August 28, 2006
JV32	August 28, 2006
JU97	August 31, 2006

Upon receipt by ARI and OnSite, the sample jar information was compared to the chain-of-custody forms. Discrepancies were noted by the laboratory and addressed with Geomatrix personnel prior to sample analyses. The temperatures of the coolers were recorded as part of the check-in procedure. The coolers were within the acceptable range of 4 +/- 2 °C, with the exception of the coolers associated with SDGs JU97 and JU52, which were 13°C and 7°C. Since the samples were dropped off the same day of sampling and ice was present in the coolers, no results were qualified. Cooler temperatures were not recorded for SDG JV32 but samples were delivered to the laboratory in a cooler containing ice.

Data review is based on method performance criteria and QC criteria as documented in the May 2006 Soil Sampling Quality Assurance Project Plan (QAPP). The laboratory provided validatable packages containing summarized sample results and associated QA/QC data as well as instrument printouts and sample preparation and injection log pages as required by the QAPP. The data review conducted on these SDGs included a review of summarized results and QA/QC data per the requirements set forth in Section D1 of the QAPP. The control limits provided in the QAPP are advisory limits; therefore, the most current control limits provided by the laboratory were used to evaluate the quality control data. In cases where the laboratory did not track limits for an analyte, the limits in the QAPP were used. Hold times, calibration verification, method blanks, surrogate recoveries, laboratory control samples (LCS), matrix spike/matrix spike duplicate (MS/MSD) results, laboratory duplicate results, field QC results, and reporting limits were reviewed to assess compliance with applicable methods and the QAPP. If data qualification was required, data were qualified in general accordance with the definitions and use of qualifying flags outlined in the USEPA Contract Laboratory Program (CLP) National Functional Guidelines for Organic Data Review, October 1999.

The following qualifiers may be added to the data:

- U: The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
- J: The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
- UJ: The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
- R: The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

ORGANIC ANALYSES

Samples were analyzed for BTEX by the method identified in the introduction to this report, and were evaluated for the following criteria.

1. Holding Times – Acceptable
2. Initial Calibration – Not included in ARI package JU97, otherwise good.

3. Calibration Verification – Not included in ARI package JU97. The continuing calibration verification standard for one run in SDG JV32 failed because of an instrument error. According to OnSite, since the spike blank duplicate was made at the same concentration as the continuing calibration verification standard, and the spike blank duplicate brackets all the data, the spike blank duplicate was used as the ending continuing calibration verification standard, and data was acceptable.

   The middle BTEX continuing calibration verification standard for instrument run D060830 in SDG JU52 did not meet QC limits. Since the matrix spike duplicate brackets the appropriate data, the matrix spike duplicate was used as the middle continuing calibration verification standard, and data was acceptable.

4. Blanks – Acceptable
   No equipment blanks were collected during this sampling event, because all sampling equipment used to collect BTEX samples was dedicated (EPA Method 5035).

5. Surrogates – Acceptable

6. Laboratory Control Samples (LCS) – Acceptable except as noted:

   A LCS was not included in the data packages from OnSite for SDG JU52 or JV32. Results were evaluated based on the laboratory duplicates and MS/MSDs where available.

7. Laboratory Duplicates – Acceptable except as noted:

   Laboratory duplicates were not included in the data packages from ARI for SDG JU97, but the LCS duplicates showed good relative percent differences (RPDs).

8. Matrix Spike/Matrix Spike Duplicate (MS/MSD) – Acceptable except as noted:

   MS/MSDs were not included in the data packages from ARI for SDG JU97. Results were evaluated based on the LCS.

   The project frequency requirement of one MS/MSD for every 20 samples was achieved.

9. Field Duplicates – Acceptable except as noted below:

No field duplicate was submitted with any of the SDGs. The field duplicate frequency of 10% was achieved for this sampling event, though field duplicates were not submitted with the samples evaluated in these SDGs.

10. Reporting Limits – Acceptable

11. Other –

For sample RP082806-S1 in SDG JU52, the toluene result was flagged "E" by OnSite, indicating that the value reported exceeds the quantitation range and is an estimate. The laboratory was contacted but they reported that the sample could not be rerun at a higher dilution, because that was the highest dilution possible. Therefore, the result was qualified as estimated and flagged "J".

Sample RP082806-S1 in SDG JU52 was originally crossed out on the original chain-of-custody; Geomatrix requested the sample to be run for BTEX after sample submittal.

OVERALL ASSESSMENT OF DATA

The ARI/OnSite SDGs JU52, JU97, and JV32 are 100 percent complete. The data usability is based on EPA's guidance documents and the QAPP referenced in the introduction to this report. Few problems were identified and analytical performance was generally within specified limits. The data are acceptable and meet the project's data quality objectives.

Sample ID	SDG	Laboratory ID	OnSite "Client ID"	Qualified Analyte	Qualified Result	Units	Qualifier Reason
RP082806-S1	JU52	08-249-01	06-15762-JU52A	toluene	3,800 J	mg/kg	Value reported exceeds quantitation range of lab instrument.
RP082806-B1	JU52	08-249-02	06-15763-JU52B	none			
RP082806-E1	JU52	08-249-03	06-15764-JU52C	none			
RP082806-N2	JU52	08-249-04	06-15765-JU52D	none			
RP082806-E2	JU52	08-249-05	06-15766-JU52E	none			
RP082806-N1	JU52	08-249-06	06-15767-JU52F	none			

Sample ID	SDG	Laboratory ID	OnSite "Client ID"	Qualified Analyte	Qualified Result	Units	Qualifier Reason
Trip Blank	JU52	08-249-07	06-15768-JU52G	none			
RP082806-B2	JV32	08-254-01	RP082806-B2	none			
RP082806-B3	JV32	08-254-02	RP082806-B3	none			
RP082806-B4	JV32	08-254-03	RP082806-B4	none			
Trip Blank	JV32	08-254-04	Trip Blank	none			
RP083106-N3	JU97	JU97A	--	none			
RP083106-N4	JU97	JU97B	--	none			
Trip Blank	JU97	JU97C	--	none			

Analytical Resources, Incorporated
Analytical Chemists and Consultants

11 September 2006

GEOMATRIX
Rec
SEP 12 2006
SEATTLE

Zanna Satterwhite
Geomatrix
600 University, Suite 1020
Seattle, WA 98101

RE: Project No: 8769.006, FRP-East Parcel
ARI Job No: JU52

Dear Zanna:

Please find enclosed the original chain of custody documentation (COC) and the final results for the samples from the project referenced above. Analytical Resources Inc. (ARI) accepted six soil samples and one trip blank on August 28, 2006. ARI received the samples intact and there were no discrepancies in the paperwork. The samples were analyzed for BETX as requested. The samples were sub-contracted to OnSite Environmental in Redmond, WA as discussed.

If you have any questions or require additional information, please contact me at your convenience.

Sincerely,

ANALYTICAL RESOURCES, INC.

Mark D. Harris
Project Manager
206/695-6210
markh@arilabs.com

Enclosures

cc: file JU52

MDH/mdh

Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number: JU52	Turn-around Requested: 48-hour / 24-hour (see comments)	Page: 1 of 1	
ARI Client Company: Geomatrix	Phone: 206 342-1772	Date: 8/28/06	Ice Present? YES
Client Contact: Zanna Satterwhite		No. of Coolers: 1	Cooler Temps: 7°C
Client Project Name: Former Rhone-Poulenc East Parcel			
Client Project #: 8769.006	Samplers: Zanna Satterwhite		

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	BTEX (8021) (Methanol preserved)								Notes/Comments
~~RP082806-S1~~	~~8/28/06~~	~~0945~~	~~S~~	~~1x2oz 2x40ml~~	X		~~24S~~						~~high suspected toluene.~~
RP082806-B1	8/28/06	1019	S	1x2oz 2x40ml	X								48-hour TAT.
RP082806-E1	8/28/06	1510	↓	1x2oz 2x40mL	X								24-hr
RP082806-N2	8/28/06	1523	↓	1x2oz 2x40mL	X								"
RP082806-E2	8/28/06	1500	↓	1x2oz 2x40mL	X								"
RP082806-N1	8/28/06	1541	↓	1x2oz 2x40mL	X								high suspected toluene(?) 24-hr.
~~RP082806~~	~~8/28/06~~			~~1x2oz 2x40mL~~		~~24S~~							
~~RP082806~~	~~8/28/06~~			~~1x2oz 2x40mL~~									
~~RP082806~~													
Trip Blank	8/28/06				X								48 hr TAT

Comments/Special Instructions	Relinquished by:	Received by:	Relinquished by:	Received by:
	(Signature) Za S	(Signature) Susan D Dunnihoo	(Signature)	(Signature)
	Printed Name: Zanna Satterwhite	Printed Name: Susan D Dunnihoo	Printed Name:	Printed Name:
	Company: Geomatrix	Company: ARI	Company:	Company:
	Date & Time: 8/28/06 1558	Date & Time: 08/28/06 1550	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.

OnSite Environmental Inc.
Analytical Testing and Mobile Laboratory Services

September 5, 2006

Mark Harris
Analytical Resources, Inc.
4611 South 134th Place, Suite 100
Tukwila, WA 98168

Re: Analytical Data for Project JU52
Laboratory Reference No. 0608-249

Dear Mark:

Enclosed are the analytical results and associated quality control data for samples submitted on August 28, 2006.

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

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

Sincerely,

David Baumeister
Project Manager

Enclosures

14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881 • Fax (425) 885-4603

Date of Report: September 5, 2006
Samples Submitted: August 28, 2006
Laboratory Reference: 0608-249
Project: JU52

Case Narrative

Samples were collected on August 28, 2006 and received by the laboratory on August 28, 2006. They were maintained at the laboratory at a temperature of 2°C to 6°C except as noted below.

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

BTEX by EPA 8021B Analysis

Per EPA method 5035A, samples were received by the laboratory in pre-weighed 40 ml VOA vials preserved with either Methanol or Sodium Bisulfate.

The middle BTEX continuing calibration verification standard for instrument run D060830 did not meet QC limits. Since the matrix spike duplicate was made at the same concentration as the continuing calibration verification standard, and the matrix spike duplicate brackets the appropriate data, the matrix spike duplicate was used as the middle continuing calibration verification standard.

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

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

Date of Report: September 5, 2006
Samples Submitted: August 28, 2006
Laboratory Reference: 0608-249
Project: JU52

BTEX
EPA 8021B

Date Extracted: 8-29-06
Date Analyzed: 8-29&30-06

Matrix: Soil
Units: mg/kg (ppm)

Client ID:	**06-15763-JU52B**			**06-15764-JU52C**		
Lab ID:	08-249-02			08-249-03		
	Result	Flags	PQL	**Result**	Flags	PQL
Benzene	**0.065**		0.020	**ND**		0.020
Toluene	**150**		1.5	**ND**		0.082
Ethyl Benzene	**ND**		0.076	**ND**		0.082
m,p-Xylene	**ND**		0.076	**ND**		0.082
o-Xylene	**ND**		0.076	**ND**		0.082
Surrogate Recovery:						
Fluorobenzene	82%			64%		

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

Date of Report: September 5, 2006
Samples Submitted: August 28, 2006
Laboratory Reference: 0608-249
Project: JU52

BTEX
EPA 8021B

Date Extracted: 8-29-06
Date Analyzed: 8-29-06

Matrix: Soil
Units: mg/kg (ppm)

Client ID:	**06-15765-JU52D**			**06-15766-JU52E**		
Lab ID:	08-249-04			08-249-05		
	Result	Flags	PQL	**Result**	Flags	PQL
Benzene	**0.045**		0.020	**ND**		0.020
Toluene	**0.23**		0.074	**0.10**		0.068
Ethyl Benzene	**ND**		0.074	**ND**		0.068
m,p-Xylene	**0.67**		0.074	**ND**		0.068
o-Xylene	**ND**		0.074	**ND**		0.068
Surrogate Recovery:						
Fluorobenzene	84%			104%		

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

Date of Report: September 5, 2006
Samples Submitted: August 28, 2006
Laboratory Reference: 0608-249
Project: JU52

BTEX
EPA 8021B

Date Extracted:	8-29-06
Date Analyzed:	8-29-06

Matrix: Soil
Units: mg/kg (ppm)

Client ID:	**06-15767-JU52F**
Lab ID:	08-249-06

	Result	Flags	PQL
Benzene	**0.036**		0.020
Toluene	**81**		1.4
Ethyl Benzene	**ND**		0.070
m,p-Xylene	**ND**		0.070
o-Xylene	**ND**		0.070
Surrogate Recovery:			
Fluorobenzene	78%		

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

Date of Report: September 5, 2006
Samples Submitted: August 28, 2006
Laboratory Reference: 0608-249
Project: JU52

BTEX
EPA 8021B
METHOD BLANK QUALITY CONTROL

Date Extracted: 8-29-06
Date Analyzed: 8-29-06

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: MB0829S1

	Result	Flags	PQL
Benzene	ND		0.020
Toluene	ND		0.050
Ethyl Benzene	ND		0.050
m,p-Xylene	ND		0.050
o-Xylene	ND		0.050

Surrogate Recovery:
Fluorobenzene 110%

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

Date of Report: September 5, 2006
Samples Submitted: August 28, 2006
Laboratory Reference: 0608-249
Project: JU52

BTEX
EPA 8021B
DUPLICATE QUALITY CONTROL

Date Extracted: 8-29-06
Date Analyzed: 8-30-06

Matrix: Soil
Units: mg/kg (ppm)

Lab ID:	08-249-03 Original	08-249-03 Duplicate	RPD	Flags
Benzene	ND	ND	NA	
Toluene	ND	ND	NA	
Ethyl Benzene	ND	ND	NA	
m,p-Xylene	ND	ND	NA	
o-Xylene	ND	ND	NA	
Surrogate Recovery:				
Fluorobenzene	64%	87%		

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

Date of Report: September 5, 2006
Samples Submitted: August 28, 2006
Laboratory Reference: 0608-249
Project: JU52

BTEX
EPA 8021B
MS/MSD QUALITY CONTROL

Date Extracted: 8-29-06
Date Analyzed: 8-29-06

Matrix: Soil
Units: mg/kg (ppm)

Spike Level (ppm): 3.12

Lab ID:	08-249-03 MS	Percent Recovery	08-249-03 MSD	Percent Recovery	RPD	Flags
Benzene	2.99	96	2.96	95	1	
Toluene	3.15	101	3.08	99	2	
Ethyl Benzene	2.95	95	2.97	95	0	
m,p-Xylene	2.97	95	2.98	96	0	
o-Xylene	2.97	95	2.99	96	1	

Surrogate Recovery:

Fluorobenzene	73%	71%

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

Date of Report: September 5, 2006
Samples Submitted: August 28, 2006
Laboratory Reference: 0608-249
Project: JU52

BTEX by
EPA 8021B
CONTINUING CALIBRATION SUMMARY

Analyte	Lab ID	True Value (ppm)	Calc. Value	Percent Difference	Control Limits
Benzene	CCVD0829B-1	50.0	45.6	9	+/- 15%
Toluene	CCVD0829B-1	50.0	46.0	8	+/- 15%
Ethyl Benzene	CCVD0829B-1	50.0	45.3	9	+/- 15%
m,p-Xylene	CCVD0829B-1	50.0	46.1	8	+/- 15%
o-Xylene	CCVD0829B-1	50.0	45.5	9	+/- 15%
Benzene	CCVD0829B-2	50.0	49.3	1	+/- 15%
Toluene	CCVD0829B-2	50.0	53.6	-7	+/- 15%
Ethyl Benzene	CCVD0829B-2	50.0	49.1	2	+/- 15%
m,p-Xylene	CCVD0829B-2	50.0	49.7	1	+/- 15%
o-Xylene	CCVD0829B-2	50.0	49.5	1	+/- 15%
Benzene	CCVD0829B-3	50.0	48.8	2	+/- 15%
Toluene	CCVD0829B-3	50.0	49.5	1	+/- 15%
Ethyl Benzene	CCVD0829B-3	50.0	48.4	3	+/- 15%
m,p-Xylene	CCVD0829B-3	50.0	49.1	2	+/- 15%
o-Xylene	CCVD0829B-3	50.0	48.7	3	+/- 15%
Benzene	CCVH0829B-1	50.0	50.5	-1	+/- 15%
Toluene	CCVH0829B-1	50.0	51.2	-2	+/- 15%
Ethyl Benzene	CCVH0829B-1	50.0	50.3	-1	+/- 15%
m,p-Xylene	CCVH0829B-1	50.0	51.1	-2	+/- 15%
o-Xylene	CCVH0829B-1	50.0	50.4	-1	+/- 15%
Benzene	CCVH0829B-2	50.0	51.1	-2	+/- 15%
Toluene	CCVH0829B-2	50.0	52.1	-4	+/- 15%
Ethyl Benzene	CCVH0829B-2	50.0	51.0	-2	+/- 15%
m,p-Xylene	CCVH0829B-2	50.0	51.5	-3	+/- 15%
o-Xylene	CCVH0829B-2	50.0	51.0	-2	+/- 15%
Benzene	CCVD0830B-1	50.0	44.5	11	+/- 15%
Toluene	CCVD0830B-1	50.0	44.9	10	+/- 15%
Ethyl Benzene	CCVD0830B-1	50.0	44.0	12	+/- 15%
m,p-Xylene	CCVD0830B-1	50.0	44.9	10	+/- 15%
o-Xylene	CCVD0830B-1	50.0	44.3	11	+/- 15%

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

Date of Report: September 5, 2006
Samples Submitted: August 28, 2006
Laboratory Reference: 0608-249
Project: JU52

BTEX
EPA 8021B

Date Extracted: 8-29-06
Date Analyzed: 8-29-06

Matrix: Water
Units: ug/L (ppb)

Client ID: **06-15768-JU52G**
Lab ID: 08-249-07

	Result	Flags	PQL
Benzene	ND		1.0
Toluene	ND		1.0
Ethyl Benzene	ND		1.0
m,p-Xylene	ND		1.0
o-Xylene	ND		1.0
Surrogate Recovery:			
Fluorobenzene	88%		

Date of Report: September 5, 2006
Samples Submitted: August 28, 2006
Laboratory Reference: 0608-249
Project: JU52

BTEX
EPA 8021B
METHOD BLANK QUALITY CONTROL

Date Extracted: 8-29-06
Date Analyzed: 8-29-06

Matrix: Water
Units: ug/L (ppb)

Lab ID: MB0829W1

	Result	Flags	PQL
Benzene	ND		1.0
Toluene	ND		1.0
Ethyl Benzene	ND		1.0
m,p-Xylene	ND		1.0
o-Xylene	ND		1.0

Surrogate Recovery:
Fluorobenzene 89%

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

Date of Report: September 5, 2006
Samples Submitted: August 28, 2006
Laboratory Reference: 0608-249
Project: JU52

BTEX
EPA 8021B
DUPLICATE QUALITY CONTROL

Date Extracted: 8-29-06
Date Analyzed: 8-29-06

Matrix: Water
Units: ug/L (ppb)

Lab ID:	08-242-01 Original	08-242-01 Duplicate	RPD	Flags
Benzene	ND	ND	NA	
Toluene	ND	ND	NA	
Ethyl Benzene	ND	ND	NA	
m,p-Xylene	ND	ND	NA	
o-Xylene	ND	ND	NA	
Surrogate Recovery:				
Fluorobenzene	88%	91%		

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

Date of Report: September 5, 2006
Samples Submitted: August 28, 2006
Laboratory Reference: 0608-249
Project: JU52

BTEX
EPA 8021B
MS/MSD QUALITY CONTROL

Date Extracted: 8-29-06
Date Analyzed: 8-29-06

Matrix: Water
Units: ug/L (ppb)

Spike Level: 50.0 ppb

Lab ID:	08-242-01 MS	Percent Recovery	08-242-01 MSD	Percent Recovery	RPD	Flags
Benzene	49.3	99	49.4	99	0	
Toluene	49.0	98	49.0	98	0	
Ethyl Benzene	48.5	97	48.6	97	0	
m,p-Xylene	48.5	97	48.7	97	0	
o-Xylene	48.3	97	48.5	97	0	

Surrogate Recovery:		
Fluorobenzene	91%	93%

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

Date of Report: September 5, 2006
Samples Submitted: August 28, 2006
Laboratory Reference: 0608-249
Project: JU52

BTEX by
EPA 8021B
CONTINUING CALIBRATION SUMMARY

Analyte	Lab ID	True Value (ppm)	Calc. Value	Percent Difference	Control Limits
Benzene	CCVD0829B-1	50.0	45.6	9	+/- 15%
Toluene	CCVD0829B-1	50.0	46.0	8	+/- 15%
Ethyl Benzene	CCVD0829B-1	50.0	45.3	9	+/- 15%
m,p-Xylene	CCVD0829B-1	50.0	46.1	8	+/- 15%
o-Xylene	CCVD0829B-1	50.0	45.5	9	+/- 15%
Benzene	CCVD0829B-2	50.0	49.3	1	+/- 15%
Toluene	CCVD0829B-2	50.0	53.6	-7	+/- 15%
Ethyl Benzene	CCVD0829B-2	50.0	49.1	2	+/- 15%
m,p-Xylene	CCVD0829B-2	50.0	49.7	1	+/- 15%
o-Xylene	CCVD0829B-2	50.0	49.5	1	+/- 15%
Benzene	CCVD0829B-3	50.0	48.8	2	+/- 15%
Toluene	CCVD0829B-3	50.0	49.5	1	+/- 15%
Ethyl Benzene	CCVD0829B-3	50.0	48.4	3	+/- 15%
m,p-Xylene	CCVD0829B-3	50.0	49.1	2	+/- 15%
o-Xylene	CCVD0829B-3	50.0	48.7	3	+/- 15%
Benzene	CCVH0829B-1	50.0	50.5	-1	+/- 15%
Toluene	CCVH0829B-1	50.0	51.2	-2	+/- 15%
Ethyl Benzene	CCVH0829B-1	50.0	50.3	-1	+/- 15%
m,p-Xylene	CCVH0829B-1	50.0	51.1	-2	+/- 15%
o-Xylene	CCVH0829B-1	50.0	50.4	-1	+/- 15%
Benzene	CCVH0829B-2	50.0	51.1	-2	+/- 15%
Toluene	CCVH0829B-2	50.0	52.1	-4	+/- 15%
Ethyl Benzene	CCVH0829B-2	50.0	51.0	-2	+/- 15%
m,p-Xylene	CCVH0829B-2	50.0	51.5	-3	+/- 15%
o-Xylene	CCVH0829B-2	50.0	51.0	-2	+/- 15%
Benzene	CCVD0830B-1	50.0	44.5	11	+/- 15%
Toluene	CCVD0830B-1	50.0	44.9	10	+/- 15%
Ethyl Benzene	CCVD0830B-1	50.0	44.0	12	+/- 15%
m,p-Xylene	CCVD0830B-1	50.0	44.9	10	+/- 15%
o-Xylene	CCVD0830B-1	50.0	44.3	11	+/- 15%

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

Date of Report: September 5, 2006
Samples Submitted: August 28, 2006
Laboratory Reference: 0608-249
Project: JU52

BTEX
EPA 8021B

Date Extracted: 8-29-06
Date Analyzed: 8-29-06

Matrix: Soil
Units: mg/kg (ppm)

Client ID: **06-15762-JU52A**
Lab ID: 08-249-01

	Result	Flags	PQL
Benzene	**3.7**		0.28
Toluene	**3800**	**E**	1.4
Ethyl Benzene	**11**		1.4
m,p-Xylene	**12**		1.4
o-Xylene	**2.2**		1.4

J

Surrogate Recovery:
Fluorobenzene 114%

ZAS
9/12/06

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

Date of Report: September 5, 2006
Samples Submitted: August 28, 2006
Laboratory Reference: 0608-249
Project: JU52

BTEX
EPA 8021B
METHOD BLANK QUALITY CONTROL

Date Extracted: 8-29-06
Date Analyzed: 8-29-06

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: MB0829S1

	Result	Flags	PQL
Benzene	ND		0.020
Toluene	ND		0.050
Ethyl Benzene	ND		0.050
m,p-Xylene	ND		0.050
o-Xylene	ND		0.050

Surrogate Recovery:
Fluorobenzene 110%

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

Date of Report: September 5, 2006
Samples Submitted: August 28, 2006
Laboratory Reference: 0608-249
Project: JU52

BTEX
EPA 8021B
DUPLICATE QUALITY CONTROL

Date Extracted: 8-29-06
Date Analyzed: 8-30-06

Matrix: Soil
Units: mg/kg (ppm)

Lab ID:	08-249-03 Original	08-249-03 Duplicate	RPD	Flags
Benzene	ND	ND	NA	
Toluene	ND	ND	NA	
Ethyl Benzene	ND	ND	NA	
m,p-Xylene	ND	ND	NA	
o-Xylene	ND	ND	NA	
Surrogate Recovery:				
Fluorobenzene	64%	87%		

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

Date of Report: September 5, 2006
Samples Submitted: August 28, 2006
Laboratory Reference: 0608-249
Project: JU52

BTEX
EPA 8021B
MS/MSD QUALITY CONTROL

Date Extracted: 8-29-06
Date Analyzed: 8-29-06

Matrix: Soil
Units: mg/kg (ppm)

Spike Level (ppm): 3.12

Lab ID:	08-249-03 MS	Percent Recovery	08-249-03 MSD	Percent Recovery	RPD	Flags
Benzene	2.99	96	2.96	95	1	
Toluene	3.15	101	3.08	99	2	
Ethyl Benzene	2.95	95	2.97	95	0	
m,p-Xylene	2.97	95	2.98	96	0	
o-Xylene	2.97	95	2.99	96	1	

Surrogate Recovery:

Fluorobenzene	73%	71%

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

Date of Report: September 5, 2006
Samples Submitted: August 28, 2006
Laboratory Reference: 0608-249
Project: JU52

BTEX by
EPA 8021B
CONTINUING CALIBRATION SUMMARY

Analyte	Lab ID	True Value (ppm)	Calc. Value	Percent Difference	Control Limits
Benzene	CCVD0829B-1	50.0	45.6	9	+/- 15%
Toluene	CCVD0829B-1	50.0	46.0	8	+/- 15%
Ethyl Benzene	CCVD0829B-1	50.0	45.3	9	+/- 15%
m,p-Xylene	CCVD0829B-1	50.0	46.1	8	+/- 15%
o-Xylene	CCVD0829B-1	50.0	45.5	9	+/- 15%
Benzene	CCVD0829B-2	50.0	49.3	1	+/- 15%
Toluene	CCVD0829B-2	50.0	53.6	-7	+/- 15%
Ethyl Benzene	CCVD0829B-2	50.0	49.1	2	+/- 15%
m,p-Xylene	CCVD0829B-2	50.0	49.7	1	+/- 15%
o-Xylene	CCVD0829B-2	50.0	49.5	1	+/- 15%
Benzene	CCVH0829B-1	50.0	50.5	-1	+/- 15%
Toluene	CCVH0829B-1	50.0	51.2	-2	+/- 15%
Ethyl Benzene	CCVH0829B-1	50.0	50.3	-1	+/- 15%
m,p-Xylene	CCVH0829B-1	50.0	51.1	-2	+/- 15%
o-Xylene	CCVH0829B-1	50.0	50.4	-1	+/- 15%
Benzene	CCVH0829B-2	50.0	51.1	-2	+/- 15%
Toluene	CCVH0829B-2	50.0	52.1	-4	+/- 15%
Ethyl Benzene	CCVH0829B-2	50.0	51.0	-2	+/- 15%
m,p-Xylene	CCVH0829B-2	50.0	51.5	-3	+/- 15%
o-Xylene	CCVH0829B-2	50.0	51.0	-2	+/- 15%

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

Date of Report: September 5, 2006
Samples Submitted: August 28, 2006
Laboratory Reference: 0608-249
Project: JU52

% MOISTURE

Date Analyzed: 8-29-06

Client ID	Lab ID	% Moisture
06-15762-JU52A	08-249-01	20
06-15763-JU52B	08-249-02	23
06-15764-JU52C	08-249-03	24
06-15765-JU52D	08-249-04	25
06-15766-JU52E	08-249-05	8
06-15767-JU52F	08-249-06	18

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

OnSite Environmental Inc.

Data Qualifiers and Abbreviations

A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.

B - The analyte indicated was also found in the blank sample.

C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.

E - The value reported exceeds the quantitation range and is an estimate.

F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.

G - Insufficient sample quantity for duplicate analysis.

H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.

I - Compound recovery is outside of the control limits.

J - The value reported was below the practical quantitation limit. The value is an estimate.

K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.

L - The RPD is outside of the control limits.

M - Hydrocarbons in the gasoline range (toluene-napthalene) are present in the sample.

O - Hydrocarbons indicative of diesel fuel are present in the sample and are impacting the gasoline result.

P - The RPD of the detected concentrations between the two columns is greater than 40.

Q - Surrogate recovery is outside of the control limits.

S - Surrogate recovery data is not available due to the necessary dilution of the sample.

T - The sample chromatogram is not similar to a typical _____.

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.

W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.

X - Sample extract treated with a silica gel cleanup procedure.

Y - Sample extract treated with an acid/silica gel cleanup procedure.

Z -

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

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

SUBCONTRACTOR ANALYSIS REQUEST
CUSTODY TRANSFER 08/28/06

ANALYTICAL RESOURCES INCORPORATED

ARI Project: JU52

08-249

Laboratory: Onsite Environmental, Inc.
Lab Contact: David Baumeister
Lab Address: 14648 N.E. 95th Street
Redmond, WA 98052
Phone: 425-883-3881
Fax: 425-885-4603

ARI Client: Geomatrix Consultants
Project ID: Former Rhone Poulenc East Parcel
ARI PM: Mark Harris
Phone: 206-695-6210
Fax: 206-695-6201

Analytical Protocol: In-house
Special Instructions:

Requested Turn Around: 08/29/06
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 ID	Client ID/ Add'l ID	Sampled	Matrix	Bottles	Analyses	% moisture
06-15762-JU52A	RP082806-S1	08/28/06	Soil	1	~~BETX 8021~~ NO. DB	~~X~~ NO. DB
Special Instructions: Data ASAP					BETX 8021 ⊗	⊗
06-15763-JU52B	RP082806-B1	08/28/06	Soil	1	BETX 8021	X
Special Instructions: Data ASAP						
06-15764-JU52C	RP082806-E1	08/28/06	Soil	1	BETX 8021	X
Special Instructions: Data ASAP						
06-15765-JU52D	RP082806-N2	08/28/06	Soil	1	BETX 8021	X
Special Instructions: Data ASAP						
06-15766-JU52E	RP082806-E2	08/28/06	Soil	1	BETX 8021	X
Special Instructions: Data ASAP						
06-15767-JU52F	RP082806-N1	08/28/06	Soil	1	BETX 8021	X
Special Instructions: Data ASAP						
06-15768-JU52G	Trip Blank	08/28/06	~~Soil~~ WATER	1	BETX 8021	
Special Instructions: Data ASAP						

⊗ Added 8/29/06. DB (1 day TAT)

Carrier	Airbill	Date	
Relinquished by [signature]	Company ARI	Date 8/28/06	Time 1705
Received by [signature]	Company OSE	Date 8/28/06	Time 1705

Analytical Resources, Incorporated
Analytical Chemists and Consultants

13 September 2006

GEOMATRIX Received SEP 15 2006 SEATTLE

Zanna Satterwhite
Geomatrix
600 University Suite 1020
Seattle, WA 98101

RE: Client Project: FRP-East Parcel; 8769.006
ARI Job Number: JU97

Dear Zanna:

Please find enclosed the final data package for samples for the project referenced above. ARI received three soil samples and one trip blank on August 31, 2006. All samples were received intact and there were no discrepancies in the paperwork. One soil ssample was placed on hold as specified. The remaining samples were analyzed for BETX by method 8021B as requested.

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

A copy of this package will be kept on file at ARI. If you have questions or problems, please feel free to contact me at any time.

Sincerely,

ANALYTICAL RESOURCES, INC.

Mark D. Harris
Project Manager
206/695-6210
markh@arilabs.com

Enclosures

cc: file JU97

MDH/mdh

Chain of Custody Documentation

Prepared
for

Geomatrix Consultants

Project: FRP East Parcel, 8769.006

ARI Job No. JU97

Prepared
By

Analytical Resources, Inc.

Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number: JU97	Turn-around Requested: 24-hr (see comments)
ARI Client Company: Geomatrix Consultants	Phone: 206 342 1772
Client Contact: Zanna Sattenwhite	
Client Project Name: Former Rhone-Poulenc East Parcel	
Client Project #: 8769.006	Samplers: ~~Zan~~ JS Joanna Marsolek

Page: 1 of 1

Date: 8/31/06 | Ice Present? Y

No. of Coolers: 1 | Cooler Temps: 13°

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	BTEX (8021)	Hold							Notes/Comments
RP083106-N3	8/31/06	1600	S	2x40ml 1x2oz	X								Methanol-preserved.
RP083106-N4	8/31/06	1510	S	2x40ml 1x2oz	X								" "
Trip Blank	8/31/06	—	W	2x40ml	X								HCl preserved. 48 hr
RP083106-N5	8/31/06	1550	S	2x40ml 1x2oz		X							Methanol-preserved

Comments/Special Instructions	Relinquished by:	Received by:	Relinquished by:	Received by:
	(Signature) [signature]	(Signature) Bob Congleton	(Signature)	(Signature)
	Printed Name: Joanna Marsolek	Printed Name: BOB CONGLETON	Printed Name:	Printed Name:
	Company: Geomatrix	Company: ARI	Company:	Company:
	Date & Time: 8/31/06 1635	Date & Time: 8/31/06 1635	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.

Cooler Receipt Form

ANALYTICAL RESOURCES INCORPORATED

ARI Client: GMX Project Name: _____

COC NO.: _____ Delivered By: HAND

Tracking NO.: _____ Date: _____

ARI Job No.: _____ Lims NO.: _____

Preliminary Examination Phase:

1. Were intact, properly signed and dated custody seals attached To the outside of the cooler? ..... YES (NO)
2. Were custody papers included with the cooler ..... (YES) NO
3. Were custody papers properly filled out (ink, signed etc.)? ..... (YES) NO
4. Complete custody forms and attach all shipping documents ..... OK (NA)

Cooler Accepted BY: Bob Congdon Date: 8/31/06 Time: 1635

Log-IN Phase:

5. Was a temperature blank include in the cooler? ..... YES (NO)
6. Record Cooler Temperature..... 13° °C
7. What kind of packing material was used? ..... ICE
8. Was sufficient ice used (if appropriate)? ..... (YES) NO Recently Sampled
9. Were all bottles sealed in separate plastic bags? ..... YES (NO)
10. Did all bottles arrive in good condition (unbroken)? ..... (YES) NO
11. Were all bottle labels complete and legible? ..... (YES) NO
12. Did all bottle labels and tags agree with custody papers? ..... YES NO
13. Were all bottles used correct for the requested analyses? ..... YES NO
14. Do any of the analyses (bottles) require preservative? (If so, Preservation checklist must be attached) ..... YES NO
15. Were all VOA vials free of air bubbles? ..... YES NO
16. Was sufficient amount of sample sent in each bottle? ..... YES NO
17. Notify Project Manager of any discrepancies or concerns..... (OK) NA

Cooler Opened By: Bob Congdon Date: 8/31/06 Time 1635

Explain any discrepancies or negative responses:

_____

Case Narrative

Prepared
for

Geomatrix Consultants

Project: FRP East Parcel, 8769.006

ARI Job No. JU97

Prepared
By

Analytical Resources, Inc.

Analytical Resources, Incorporated
Analytical Chemists and Consultants

Geomatrix
Client Project: FRP-East Parcel; 8769.006
ARI Job Number: JU97
Soil
13 September, 2006

BTEX Analysis (8021BMod)

No analytical complications were noted for this analysis.

4611 South 134th Place, Suite 100 • Tukwila WA 98168 • 206-695-6200 • 206-695-6201 fax

Data Summary Package

Prepared
for

Geomatrix Consultants

Project: FRP East Parcel, 8769.006

ARI Job No. JU97

Prepared
By

Analytical Resources, Inc.

Analytical Resources, Incorporated
Analytical Chemists and Consultants

Geomatrix
Client Project: FRP-East Parcel; 8769.006
ARI Job Number: JU97
Soil
13 September, 2006

BTEX Analysis (8021BMod)

No analytical complications were noted for this analysis.

4611 South 134th Place, Suite 100 • Tukwila WA 98168 • 206-695-6200 • 206-695-6201 fax

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
BETX by Method SW8021BMod

Sample ID: RP083106-N3
SAMPLE

Lab Sample ID: JU97A
LIMS ID: 06-16106
Matrix: Soil
Data Release Authorized:
Reported: 09/01/06

QC Report No: JU97-Geomatrix Consultants
Project: FRP East Parcel
Event: 8769.006
Date Sampled: 08/31/06
Date Received: 08/31/06

Date Analyzed: 08/31/06 18:21
Instrument/Analyst: PID1/PKC

Purge Volume: 5.0 mL
Sample Amount: 59 mg-dry-wt
Percent Moisture: 23.7%

CAS Number	Analyte	RL	Result
71-43-2	Benzene	21	< 21 U
108-88-3	Toluene	21	< 21 U
100-41-4	Ethylbenzene	21	< 21 U
	m,p-Xylene	42	< 42 U
95-47-6	o-Xylene	21	< 21 U

BETX Surrogate Recovery

Trifluorotoluene	92.3%
Bromobenzene	96.8%

BETX values reported in µg/kg (ppb)

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
BETX by Method SW8021BMod

Sample ID: RP083106-N4
SAMPLE

Lab Sample ID: JU97B
LIMS ID: 06-16107
Matrix: Soil
Data Release Authorized:
Reported: 09/01/06

QC Report No: JU97-Geomatrix Consultants
Project: FRP East Parcel
Event: 8769.006
Date Sampled: 08/31/06
Date Received: 08/31/06

Date Analyzed: 08/31/06 18:50
Instrument/Analyst: PID1/PKC

Purge Volume: 5.0 mL
Sample Amount: 60 mg-dry-wt
Percent Moisture: 21.8%

CAS Number	Analyte	RL	Result
71-43-2	Benzene	21	< 21 U
108-88-3	Toluene	21	< 21 U
100-41-4	Ethylbenzene	21	< 21 U
	m,p-Xylene	42	110
95-47-6	o-Xylene	21	< 21 U

BETX Surrogate Recovery

Trifluorotoluene	100%
Bromobenzene	103%

BETX values reported in µg/kg (ppb)

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
BETX by Method SW8021BMod

Sample ID: TRIP BLANK SAMPLE

Lab Sample ID: JU97C
LIMS ID: 06-16108
Matrix: Water
Data Release Authorized:
Reported: 09/01/06

QC Report No: JU97-Geomatrix Consultants
Project: FRP East Parcel
Event: 8769.006
Date Sampled: 08/31/06
Date Received: 08/31/06

Date Analyzed: 08/31/06 17:53
Instrument/Analyst: PID1/PKC

Purge Volume: 5.0 mL
Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
71-43-2	Benzene	0.25	< 0.25 U
108-88-3	Toluene	0.25	< 0.25 U
100-41-4	Ethylbenzene	0.25	< 0.25 U
	m,p-Xylene	0.50	< 0.50 U
95-47-6	o-Xylene	0.25	< 0.25 U

BETX Surrogate Recovery

Trifluorotoluene	101%
Bromobenzene	102%

BETX values reported in µg/L (ppb)

ANALYTICAL RESOURCES INCORPORATED

BETX SOIL SURROGATE RECOVERY SUMMARY

ARI Job: JU97
Matrix: Soil

QC Report No: JU97-Geomatrix Consultants
Project: FRP East Parcel
Event: 8769.006

Client ID	TFT	BBZ	TOT OUT
MB-083106	102%	101%	0
LCS-083106	107%	104%	0
LCSD-083106	103%	103%	0
RP083106-N3	92.3%	96.8%	0
RP083106-N4	100%	103%	0

	LCS/MB LIMITS	QC LIMITS
(TFT) = Trifluorotoluene	(82-128)	(53-147)
(BBZ) = Bromobenzene	(82-123)	(60-153)

Log Number Range: 06-16106 to 06-16107

FORM II BETX

ANALYTICAL RESOURCES INCORPORATED

BETX WATER SURROGATE RECOVERY SUMMARY

ARI Job: JU97
Matrix: Water

QC Report No: JU97-Geomatrix Consultants
Project: FRP East Parcel
Event: 8769.006

Client ID	TFT	BBZ	TOT OUT
TRIP BLANK	101%	102%	0

	LCS/MB LIMITS	QC LIMITS
(TFT) = Trifluorotoluene	(80-126)	(72-124)
(BBZ) = Bromobenzene	(81-119)	(79-119)

Log Number Range: 06-16108 to 06-16108

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
BETX by Method SW8021BMod
Page 1 of 1

Sample ID: LCS-083106
LAB CONTROL SAMPLE

Lab Sample ID: LCS-083106
LIMS ID: 06-16106
Matrix: Soil
Data Release Authorized:
Reported: 09/01/06

QC Report No: JU97-Geomatrix Consultants
Project: FRP East Parcel
Event: 8769.006
Date Sampled: NA
Date Received: NA

Date Analyzed LCS: 08/31/06 15:22
LCSD: 08/31/06 15:51
Instrument/Analyst LCS: PID1/PKC
LCSD: PID1/PKC

Purge Volume: 5.0 mL

Sample Amount LCS: 100 mg-dry-wt
LCSD: 100 mg-dry-wt

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
Benzene	396	410	96.6%	378	410	92.2%	4.7%
Toluene	3280	3340	98.2%	3100	3340	92.8%	5.6%
Ethylbenzene	618	610	101%	585	610	95.9%	5.5%
m,p-Xylene	2350	2290	103%	2220	2290	96.9%	5.7%
o-Xylene	820	795	103%	789	795	99.2%	3.9%

Reported in µg/kg (ppb)

RPD calculated using sample concentrations per SW846.

BETX Surrogate Recovery

	LCS	LCSD
Trifluorotoluene	107%	103%
Bromobenzene	104%	103%

BETX/GAS METHOD BLANK SUMMARY

BLANK NO.

MB083106S1

Lab Name: ANALYTICAL RESOURCES, INC

Client: GEOMATRIX

SDG No.: JU97

Project No.: FRP EAST PARCEL

Date Analyzed : 08/31/06

Matrix: SOIL

Time Analyzed : 1620

Instrument ID : PID1

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS, and MSD:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED
01	LCS083106S1	LCS083106S1	08/31/06
02	LCSD083106S1	LCSD083106S1	08/31/06
03	TRIP BLANK	JU97C	08/31/06
04	RP083106-N3	JU97A	08/31/06
05	RP083106-N4	JU97B	08/31/06
06			
07			
08			
09			
10			
11			
12			
13			
14			
15			
16			
17			
18			
19			
20			
21			
22			
23			
24			
25			
26			
27			
28			
29			
30			

FORM IV BETX/GAS

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
BETX by Method SW8021BMod

Sample ID: MB-083106
METHOD BLANK

Lab Sample ID: MB-083106
LIMS ID: 06-16106
Matrix: Soil
Data Release Authorized:
Reported: 09/01/06

QC Report No: JU97-Geomatrix Consultants
Project: FRP East Parcel
Event: 8769.006
Date Sampled: NA
Date Received: NA

Date Analyzed: 08/31/06 16:20
Instrument/Analyst: PID1/PKC

Purge Volume: 5.0 mL
Sample Amount: 100 mg-dry-wt

CAS Number	Analyte	RL	Result
71-43-2	Benzene	12	< 12 U
108-88-3	Toluene	12	< 12 U
100-41-4	Ethylbenzene	12	< 12 U
	m,p-Xylene	25	< 25 U
95-47-6	o-Xylene	12	< 12 U

BETX Surrogate Recovery

Trifluorotoluene	102%
Bromobenzene	101%

BETX values reported in µg/kg (ppb)

TOTAL SOLIDS

BETX/TPHG Total Solids-betxts
Data By: Paul K. Campbell
Created: 9/ 1/06

Worklist: 6850
Analyst: PKC
Comments:

ARI ID	Tare Wt (g)	Wet Wt (g)	Dry Wt (g)	% Solids
1. JU97A 06-16106	1.06	16.50	12.84	76.3
2. JU97B 06-16107	1.09	10.26	8.26	78.2

Worklist ID: 6850 Page: 1
* - BETX TS Copied From VOA TS
% - BETX TS Copied From Metals TS
$ - BETX TS Copied From Extraction TS

Laboratory Data Package

Prepared
for

Geomatrix Consultants

Project: FRP East Parcel, 8769.006

ARI Job No. JU97

Prepared
By

Analytical Resources, Inc.

ARI Data Reporting Qualifiers

Effective 11/22/04

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 reporting limit is raised due to a positive chromatographic interference. The compound is not detected above the raised limit but may be present at or below the 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

BETX Analysis
QC Summary Data

Prepared
for

Geomatrix Consultants

Project: FRP East Parcel, 8769.006

ARI Job No. JU97

Prepared
By

Analytical Resources, Inc.

ANALYTICAL RESOURCES INCORPORATED

BETX SOIL SURROGATE RECOVERY SUMMARY

ARI Job: JU97
Matrix: Soil

QC Report No: JU97-Geomatrix Consultants
Project: FRP East Parcel
Event: 8769.006

Client ID	TFT	BBZ	TOT OUT
MB-083106	102%	101%	0
LCS-083106	107%	104%	0
LCSD-083106	103%	103%	0
RP083106-N3	92.3%	96.8%	0
RP083106-N4	100%	103%	0

	LCS/MB LIMITS	QC LIMITS
(TFT) = Trifluorotoluene	(82-128)	(53-147)
(BBZ) = Bromobenzene	(82-123)	(60-153)

Log Number Range: 06-16106 to 06-16107

ANALYTICAL RESOURCES INCORPORATED

BETX WATER SURROGATE RECOVERY SUMMARY

ARI Job: JU97
Matrix: Water

QC Report No: JU97-Geomatrix Consultants
Project: FRP East Parcel
Event: 8769.006

Client ID	TFT	BBZ	TOT OUT
TRIP BLANK	101%	102%	0

	LCS/MB LIMITS	QC LIMITS
(TFT) = Trifluorotoluene	(80-126)	(72-124)
(BBZ) = Bromobenzene	(81-119)	(79-119)

Log Number Range: 06-16108 to 06-16108

FORM II BETX

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
BETX by Method SW8021BMod
Page 1 of 1

Sample ID: LCS-083106
LAB CONTROL SAMPLE

Lab Sample ID: LCS-083106
LIMS ID: 06-16106
Matrix: Soil
Data Release Authorized:
Reported: 09/01/06

QC Report No: JU97-Geomatrix Consultants
Project: FRP East Parcel
Event: 8769.006
Date Sampled: NA
Date Received: NA

Date Analyzed LCS: 08/31/06 15:22
LCSD: 08/31/06 15:51
Instrument/Analyst LCS: PID1/PKC
LCSD: PID1/PKC

Purge Volume: 5.0 mL

Sample Amount LCS: 100 mg-dry-wt
LCSD: 100 mg-dry-wt

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
Benzene	396	410	96.6%	378	410	92.2%	4.7%
Toluene	3280	3340	98.2%	3100	3340	92.8%	5.6%
Ethylbenzene	618	610	101%	585	610	95.9%	5.5%
m,p-Xylene	2350	2290	103%	2220	2290	96.9%	5.7%
o-Xylene	820	795	103%	789	795	99.2%	3.9%

Reported in µg/kg (ppb)

RPD calculated using sample concentrations per SW846.

BETX Surrogate Recovery

	LCS	LCSD
Trifluorotoluene	107%	103%
Bromobenzene	104%	103%

BETX/GAS METHOD BLANK SUMMARY

BLANK NO.

MB083106S1

Lab Name: ANALYTICAL RESOURCES, INC

Client: GEOMATRIX

SDG No.: JU97

Project No.: FRP EAST PARCEL

Date Analyzed : 08/31/06

Matrix: SOIL

Time Analyzed : 1620

Instrument ID : PID1

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS, and MSD:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED
01	LCS083106S1	LCS083106S1	08/31/06
02	LCSD083106S1	LCSD083106S1	08/31/06
03	TRIP BLANK	JU97C	08/31/06
04	RP083106-N3	JU97A	08/31/06
05	RP083106-N4	JU97B	08/31/06
06			
07			
08			
09			
10			
11			
12			
13			
14			
15			
16			
17			
18			
19			
20			
21			
22			
23			
24			
25			
26			
27			
28			
29			
30			

FORM IV BETX/GAS

BETX/GAS ANALYTICAL SEQUENCE

Lab Name: ANALYTICAL RESOURCES, INC Client: GEOMATRIX

SDG No.: JU97 Project: FRP EAST PARCEL

Instrument ID: PID1 GC Detector: RTX 502-2 PID

Run Date: 08/09/06

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, AND STANDARDS, IS GIVEN BELOW:

METHOD SURROGATE RT
S1 : 7.36 S2 : 14.85

	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT #	S2 RT #
01	ZZZZZ	ZZZZZ	08/09/06	0949	7.39	14.85
02	BTEX .25	BTEX .25	08/09/06	1017	7.37	14.85
03	BTEX .5	BTEX .5	08/09/06	1046	7.37	14.85
04	BTEX 5	BTEX 5	08/09/06	1115	7.37	14.85
05	BTEX 25	BTEX 25	08/09/06	1143	7.36	14.85
06	BTEX 50	BTEX 50	08/09/06	1212	7.36	14.85
07	BTEX 100	BTEX 100	08/09/06	1241	7.36	14.85
08	ZZZZZ	ZZZZZ	08/09/06	1310	7.36	14.85
09	BTEX ICV	BTEX ICV	08/09/06	1338	7.36	14.85
10	RT0809+BCAL	RT0809+BCAL	08/09/06	1407	7.36	14.85
11	ZZZZZ	ZZZZZ	08/09/06	1436		
12	GAS .1	GAS .1	08/09/06	1505	7.36	14.85
13	GAS .25	GAS .25	08/09/06	1534	7.36	14.85
14	GAS 1	GAS 1	08/09/06	1602	7.36	14.85
15	GAS 2.5	GAS 2.5	08/09/06	1631	7.36	14.85
16	GAS 5	GAS 5	08/09/06	1700	7.36	14.85
17	GAS 20	GAS 20	08/09/06	1729	7.36	14.81
18	ZZZZZ	ZZZZZ	08/09/06	1757		14.81
19	GAS ICV	GAS ICV	08/09/06	1826	7.36	14.85
20	BTEX 200	BTEX 200 RE	08/09/06	1855	7.36	14.85

		QC LIMITS
S1	= TFT(Surr)	(+/- 0.07 MINUTES)
S2	= BB(Surr)	(+/- 0.07 MINUTES)

* Values outside of QC limits.

FORM VIII-2 BETX

BETX/GAS ANALYTICAL SEQUENCE

Lab Name: ANALYTICAL RESOURCES, INC Client: GEOMATRIX

SDG No.: JU97 Project: FRP EAST PARCEL

Instrument ID: PID1 GC Detector: RTX 502-2 PID

Run Date: 08/31/06

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, AND STANDARDS, IS GIVEN BELOW:

METHOD SURROGATE RT
S1 : 7.37 S2 : 14.85

	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT #	S2 RT #
01	ZZZZZ	ZZZZZ	08/31/06	1313	7.38	14.85
02	RT0831+BCAL	RT0831+BCAL	08/31/06	1342	7.37	14.85
03	ZZZZZ	ZZZZZ	08/31/06	1411	7.37	14.85
04	LCS083106S1	LCS083106S1	08/31/06	1522	7.37	14.85
05	ZZZZZ	ZZZZZ	08/31/06	1551	7.37	14.85
06	MB083106S1	MB083106S1	08/31/06	1620	7.37	14.85
07	ZZZZZ	ZZZZZ	08/31/06	1724	7.37	14.85
08	TRIP BLANK	JU97C	08/31/06	1753	7.37	14.85
09	RP083106-N3	JU97A	08/31/06	1821	7.37	14.85
10	RP083106-N4	JU97B	08/31/06	1850	7.37	14.85
11	ZZZZZ	ZZZZZ	08/31/06	1919	7.37	14.81
12	ZZZZZ	ZZZZZ	08/31/06	1948	7.37	14.85
13	ZZZZZ	ZZZZZ	08/31/06	2017		
14	BCAL 2	BCAL 2	08/31/06	2046	7.37	14.85

		QC LIMITS
S1	= TFT(Surr)	(+/- 0.07 MINUTES)
S2	= BB(Surr)	(+/- 0.07 MINUTES)

* Values outside of QC limits.

FORM VIII-2 BETX

Analytical Resources, Incorporated
Analytical Chemists and Consultants

GEOMATRIX
Received
SEP 7 2006
SEATTLE

5 September 2006

Zanna Satterwhite
Geomatrix
600 University, Suite 1020
Seattle, WA 98101

RE: Project No: 8769.006, FRP
ARI Job No: JV32

Dear Zanna:

Please find enclosed the chain of custody documentation (COC) and the final results for the samples from the project referenced above.

The analysis was performed by OnSite Environmental Inc.

A copy of these reports and all raw data will remain on file with ARI. If you have any questions or require additional information, please contact me at your convenience.

Sincerely,

ANALYTICAL RESOURCES, INC.

Elysebeth Joshi for

Mark D. Harris
Project Manager
206/695-6210
mark@arilabs.com

Enclosures

cc: file JV32

MDH/esj

OnSite Environmental Inc.
Analytical Testing and Mobile Laboratory Services

August 31, 2006

Mark Harris
Analytical Resources, Inc.
4611 South 134th Place, Suite 100
Tukwila, WA 98168

Re: Analytical Data for Project 8769.006
Laboratory Reference No. 0608-254

Dear Mark:

Enclosed are the analytical results and associated quality control data for samples submitted on August 29, 2006.

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

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

Sincerely,

David Baumeister
Project Manager

Enclosures

14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881 • Fax (425) 885-4603

Date of Report: August 31, 2006
Samples Submitted: August 29, 2006
Laboratory Reference: 0608-254
Project: 8769.006

Case Narrative

Samples were collected on August 28, 2006 and received by the laboratory on August 29, 2006. They were maintained at the laboratory at a temperature of 2°C to 6°C except as noted below.

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

BTEX EPA 8021B (soil) Analysis

Per EPA method 5035A, samples were received by the laboratory in pre-weighed 40 ml VOA vials preserved with either Methanol or Sodium Bisulfate.

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

BTEX EPA 8021B (water) Analysis

The ending BTEX continuing calibration verification standard for instrument run H060830 failed because of an instrument error. Since the spike blank duplicate was made at the same concentration as the continuing calibration verification standard, and the spike blank duplicate brackets all the data, the spike blank duplicate was used as the ending continuing calibration verification standard.

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

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

Date of Report: August 31, 2006
Samples Submitted: August 29, 2006
Laboratory Reference: 0608-254
Project: 8769.006

BTEX
EPA 8021B

Date Extracted: 8-29-06
Date Analyzed: 8-30-06

Matrix: Soil
Units: mg/kg (ppm)

Client ID:	RP082806-B2			RP082806-B3		
Lab ID:	08-254-01			08-254-02		
	Result	Flags	PQL	**Result**	Flags	PQL
Benzene	**ND**		0.020	**ND**		0.020
Toluene	**0.47**		0.061	**4.7**		0.068
Ethyl Benzene	**ND**		0.061	**ND**		0.068
m,p-Xylene	**ND**		0.061	**ND**		0.068
o-Xylene	**ND**		0.061	**ND**		0.068
Surrogate Recovery:						
Fluorobenzene	91%			97%		

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

Date of Report: August 31, 2006
Samples Submitted: August 29, 2006
Laboratory Reference: 0608-254
Project: 8769.006

BTEX
EPA 8021B

Date Extracted:	8-29-06
Date Analyzed:	8-30-06

Matrix: Soil
Units: mg/kg (ppm)

Client ID:	**RP082806-B4**
Lab ID:	08-254-03

	Result	Flags	PQL
Benzene	**ND**		0.020
Toluene	**0.16**		0.068
Ethyl Benzene	**ND**		0.068
m,p-Xylene	**ND**		0.068
o-Xylene	**ND**		0.068

Surrogate Recovery:
Fluorobenzene 88%

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

Date of Report: August 31, 2006
Samples Submitted: August 29, 2006
Laboratory Reference: 0608-254
Project: 8769.006

BTEX
EPA 8021B
METHOD BLANK QUALITY CONTROL

Date Extracted: 8-29-06
Date Analyzed: 8-29-06

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: MB0829S2

	Result	Flags	PQL
Benzene	ND		0.020
Toluene	ND		0.050
Ethyl Benzene	ND		0.050
m,p-Xylene	ND		0.050
o-Xylene	ND		0.050

Surrogate Recovery:
Fluorobenzene 89%

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

Date of Report: August 31, 2006
Samples Submitted: August 29, 2006
Laboratory Reference: 0608-254
Project: 8769.006

BTEX
EPA 8021B
DUPLICATE QUALITY CONTROL

Date Extracted: 8-29-06
Date Analyzed: 8-30-06

Matrix: Soil
Units: mg/kg (ppm)

Lab ID:	08-251-01 Original	08-251-01 Duplicate	RPD	Flags
Benzene	ND	ND	NA	
Toluene	ND	ND	NA	
Ethyl Benzene	ND	ND	NA	
m,p-Xylene	ND	ND	NA	
o-Xylene	ND	ND	NA	
Surrogate Recovery:				
Fluorobenzene	103%	100%		

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

Date of Report: August 31, 2006
Samples Submitted: August 29, 2006
Laboratory Reference: 0608-254
Project: 8769.006

BTEX
EPA 8021B
MS/MSD QUALITY CONTROL

Date Extracted: 8-29-06
Date Analyzed: 8-29-06

Matrix: Soil
Units: mg/kg (ppm)

Spike Level (ppm): 3.12

Lab ID:	08-249-03 MS	Percent Recovery	08-249-03 MSD	Percent Recovery	RPD	Flags
Benzene	2.99	96	2.96	95	1	
Toluene	3.15	101	3.08	99	2	
Ethyl Benzene	2.95	95	2.97	95	0	
m,p-Xylene	2.97	95	2.98	96	0	
o-Xylene	2.97	95	2.99	96	1	

Surrogate Recovery:

Fluorobenzene	73%	71%

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

Date of Report: August 31, 2006
Samples Submitted: August 29, 2006
Laboratory Reference: 0608-254
Project: 8769.006

BTEX
EPA 8021B
CONTINUING CALIBRATION SUMMARY

Analyte	Lab ID	True Value (ppm)	Calc. Value	Percent Difference	Control Limits
Benzene	CCVD0829B-1	50.0	45.6	9	+/- 15%
Toluene	CCVD0829B-1	50.0	46.0	8	+/- 15%
Ethyl Benzene	CCVD0829B-1	50.0	45.3	9	+/- 15%
m,p-Xylene	CCVD0829B-1	50.0	46.1	8	+/- 15%
o-Xylene	CCVD0829B-1	50.0	45.5	9	+/- 15%
Benzene	CCVD0829B-2	50.0	49.3	1	+/- 15%
Toluene	CCVD0829B-2	50.0	53.6	-7	+/- 15%
Ethyl Benzene	CCVD0829B-2	50.0	49.1	2	+/- 15%
m,p-Xylene	CCVD0829B-2	50.0	49.7	1	+/- 15%
o-Xylene	CCVD0829B-2	50.0	49.5	1	+/- 15%
Benzene	CCVD0829B-3	50.0	48.8	2	+/- 15%
Toluene	CCVD0829B-3	50.0	49.5	1	+/- 15%
Ethyl Benzene	CCVD0829B-3	50.0	48.4	3	+/- 15%
m,p-Xylene	CCVD0829B-3	50.0	49.1	2	+/- 15%
o-Xylene	CCVD0829B-3	50.0	48.7	3	+/- 15%
Benzene	CCVH0830B-1	50.0	50.1	0	+/- 15%
Toluene	CCVH0830B-1	50.0	50.5	-1	+/- 15%
Ethyl Benzene	CCVH0830B-1	50.0	49.5	1	+/- 15%
m,p-Xylene	CCVH0830B-1	50.0	50.0	0	+/- 15%
o-Xylene	CCVH0830B-1	50.0	49.8	0	+/- 15%
Benzene	CCVH0830B-2	50.0	50.7	-1	+/- 15%
Toluene	CCVH0830B-2	50.0	51.7	-3	+/- 15%
Ethyl Benzene	CCVH0830B-2	50.0	50.5	-1	+/- 15%
m,p-Xylene	CCVH0830B-2	50.0	51.4	-3	+/- 15%
o-Xylene	CCVH0830B-2	50.0	50.9	-2	+/- 15%

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

Date of Report: August 31, 2006
Samples Submitted: August 29, 2006
Laboratory Reference: 0608-254
Project: 8769.006

BTEX
EPA 8021B

Date Extracted: 8-30-06
Date Analyzed: 8-30-06

Matrix: Water
Units: ug/L (ppb)

Client ID: **Trip Blank**
Lab ID: 08-254-04

	Result	Flags	PQL
Benzene	ND		1.0
Toluene	ND		1.0
Ethyl Benzene	ND		1.0
m,p-Xylene	ND		1.0
o-Xylene	ND		1.0
Surrogate Recovery:			
Fluorobenzene	88%		

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

Date of Report: August 31, 2006
Samples Submitted: August 29, 2006
Laboratory Reference: 0608-254
Project: 8769.006

BTEX
EPA 8021B
METHOD BLANK QUALITY CONTROL

Date Extracted: 8-30-06
Date Analyzed: 8-30-06

Matrix: Water
Units: ug/L (ppb)

Lab ID: MB0830W1

	Result	Flags	PQL
Benzene	ND		1.0
Toluene	ND		1.0
Ethyl Benzene	ND		1.0
m,p-Xylene	ND		1.0
o-Xylene	ND		1.0
Surrogate Recovery:			
Fluorobenzene	86%		

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

Date of Report: August 31, 2006
Samples Submitted: August 29, 2006
Laboratory Reference: 0608-254
Project: 8769.006

BTEX
EPA 8021B
DUPLICATE QUALITY CONTROL

Date Extracted: 8-30-06
Date Analyzed: 8-30-06

Matrix: Water
Units: ug/L (ppb)

Lab ID:	08-254-04 **Original**	08-254-04 **Duplicate**	**RPD**	**Flags**
Benzene	**ND**	**ND**	NA	
Toluene	**ND**	**ND**	NA	
Ethyl Benzene	**ND**	**ND**	NA	
m,p-Xylene	**ND**	**ND**	NA	
o-Xylene	**ND**	**ND**	NA	
Surrogate Recovery:				
Fluorobenzene	88%	86%		

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

Date of Report: August 31, 2006
Samples Submitted: August 29, 2006
Laboratory Reference: 0608-254
Project: 8769.006

BTEX
EPA 8021B
SB/SBD QUALITY CONTROL

Date Extracted: 8-30-06
Date Analyzed: 8-30-06

Matrix: Water
Units: ug/L (ppb)

Spike Level: 50.0 ppb

Lab ID:	SB0830W1 SB	Percent Recovery	SBD0830W1 SBD	Percent Recovery	RPD	Flags
Benzene	49.1	98	50.4	101	3	
Toluene	49.2	98	50.0	100	2	
Ethyl Benzene	48.5	97	49.5	99	2	
m,p-Xylene	49.5	99	49.6	99	0	
o-Xylene	48.8	98	49.5	99	1	

Surrogate Recovery:		
Fluorobenzene	100%	102%

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

Date of Report: August 31, 2006
Samples Submitted: August 29, 2006
Laboratory Reference: 0608-254
Project: 8769.006

BTEX
EPA 8021B
CONTINUING CALIBRATION SUMMARY

Analyte	Lab ID	True Value (ppm)	Calc. Value	Percent Difference	Control Limits
Benzene	CCVH0830B-1	50.0	50.1	0	+/- 15%
Toluene	CCVH0830B-1	50.0	50.5	-1	+/- 15%
Ethyl Benzene	CCVH0830B-1	50.0	49.5	1	+/- 15%
m,p-Xylene	CCVH0830B-1	50.0	50.0	0	+/- 15%
o-Xylene	CCVH0830B-1	50.0	49.8	0	+/- 15%
Benzene	CCVH0830B-2	50.0	50.7	-1	+/- 15%
Toluene	CCVH0830B-2	50.0	51.7	-3	+/- 15%
Ethyl Benzene	CCVH0830B-2	50.0	50.5	-1	+/- 15%
m,p-Xylene	CCVH0830B-2	50.0	51.4	-3	+/- 15%
o-Xylene	CCVH0830B-2	50.0	50.9	-2	+/- 15%
Benzene	SB0830W1 DUP	50.0	50.4	-1	+/- 15%
Toluene	SB0830W1 DUP	50.0	50.0	0	+/- 15%
Ethyl Benzene	SB0830W1 DUP	50.0	49.5	1	+/- 15%
m,p-Xylene	SB0830W1 DUP	50.0	49.6	1	+/- 15%
o-Xylene	SB0830W1 DUP	50.0	49.5	1	+/- 15%

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

Date of Report: August 31, 2006
Samples Submitted: August 29, 2006
Laboratory Reference: 0608-254
Project: 8769.006

% MOISTURE

Date Analyzed: 8-29-06

Client ID	Lab ID	% Moisture
RP082806-B2	08-254-01	22
RP082806-B3	08-254-02	26
RP082806-B4	08-254-03	29

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

OnSite Environmental Inc.

Data Qualifiers and Abbreviations

A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.

B - The analyte indicated was also found in the blank sample.

C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.

E - The value reported exceeds the quantitation range and is an estimate.

F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.

G - Insufficient sample quantity for duplicate analysis.

H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.

I - Compound recovery is outside of the control limits.

J - The value reported was below the practical quantitation limit. The value is an estimate.

K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.

L - The RPD is outside of the control limits.

M - Hydrocarbons in the gasoline range (toluene-napthalene) are present in the sample.

O - Hydrocarbons indicative of diesel fuel are present in the sample and are impacting the gasoline result.

P - The RPD of the detected concentrations between the two columns is greater than 40.

Q - Surrogate recovery is outside of the control limits.

S - Surrogate recovery data is not available due to the necessary dilution of the sample.

T - The sample chromatogram is not similar to a typical _____.

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.

W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.

X - Sample extract treated with a silica gel cleanup procedure.

Y - Sample extract treated with an acid/silica gel cleanup procedure.

Z -

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

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

Chain of Custody Record & Laboratory Analysis Request

08-254

ARI Assigned Number:	Turn-around Requested: 48-hr
ARI Client Company: Geomatrix	Phone: 206 342 1772
Client Contact: Zanna Sattenwhite	
Client Project Name: Former Rhone-Poulenc East Panel	
Client Project #: 8769.006	Samplers: Zan S

Page: 1 of 1

Date: 8/28/06 | Ice Present?

No. of Coolers: | Cooler Temps:

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	BTEX (8021)		Dry Wt						Notes/Comments
1	RP082806-B2	8/28/06	1642	S	2x40ml 1x2oz	X		X						high suspected toluene (?)
2	RP082806-B3	↓	1638	↓	2x40ml 1x2oz	X		X						
3	RP082806-B4	↓	1634	↓	2x40ml 1x2oz	X		X						
4	Trip Blank			W	2x40ml	X								HCl preserved.

ZS 8/28/06

Comments/Special Instructions	Relinquished by:	Received by:	Relinquished by:	Received by:
	(Signature) Zan S	(Signature) [signature]	(Signature)	(Signature)
	Printed Name: Zanna Sattenwhite	Printed Name: P MCKALSON	Printed Name:	Printed Name:
	Company: Geomatrix	Company: ARI	Company:	Company:
	Date & Time: 8/28/06 0722	Date & Time: 8.29.06 7:25A	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.

Geomatrix

Memorandum

TO:	John Long	**DATE:**	September 27, 2006
FROM:	Crystal Neirby	**PROJ. NO.:**	8769
CC:	Project File	**PROJ. NAME:**	Former Rhone-Poulenc Site
SUBJECT:	**East Parcel Redevelopment Soil Sampling Summary Data Quality Review – SDG JX78**		

This memorandum presents a summary data quality review of three primary soil samples and one trip blank collected on September 23, 2006. The samples were submitted to Analytical Resources, Inc. (ARI), a Washington State Department of Ecology (Ecology)-accredited laboratory, located in Tukwila, Washington. The samples were analyzed for the following analyses:

- Benzene, Ethylbenzene, Toluene, and Xylenes (BETX) by EPA Method 8021B MOD

The analyses were performed in general accordance with methods specified in U.S. Environmental Protection Agency's (EPA) Test Methods for Evaluating Solid Waste (SW-846), January 1995 and associated revisions.

Samples associated and analyzed with sample delivery group (SDG) JX78 and the requested analyses are listed in the table below.

Sample ID	Laboratory Sample ID	Requested Analyses
RP092306-1	JX78A	BETX
RP092306-2	JX78B	BETX
RP092306-3	JX78C	BETX
Trip Blank	JX78D	BETX

Upon receipt by ARI, the sample jar information was compared to the chain-of-custody form. Discrepancies were noted by ARI and addressed with Geomatrix personnel prior to sample analyses. The temperature of the cooler was recorded as part of the check-in procedure. The temperature was -1.8°C, the samples were received frozen. This is outside the acceptable range of 4 +/- 2 °C. Sample results were not qualified based on this exceedance.

Data review is based on method performance criteria and QC criteria as documented in the Soil Sampling Quality Assurance Project Plan (QAPP), May 2006. The laboratory provided validatable packages containing summarized sample results and associated QA/QC data as well

as instrument printouts and sample preparation and injection log pages as required by the QAPP. The data review conducted on these SDGs included a review of summarized results and QA/QC data per the requirements set forth in Section D.1 of the QAPP. The control limits provided in the QAPP are advisory limits; therefore, the most current control limits provided by the laboratory were used to evaluate the quality control data. In cases where the laboratory did not track limits for an analyte, the limits in the QAPP were used. Hold times, calibration verification, method blanks, surrogate recoveries, laboratory control samples (LCS), matrix spike/matrix spike duplicate (MS/MSD) results, laboratory duplicate results, field QC results, and reporting limits were reviewed to assess compliance with applicable methods and the QAPP. If data qualification was required, data were qualified in general accordance with the definitions and use of qualifying flags outlined in the following EPA documents: USEPA Contract Laboratory Program (CLP) National Functional Guidelines for Organic Data Review, October 1999.

The following qualifiers may be added to the data:

- U: The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
- J: The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
- UJ: The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
- R: The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

ORGANIC ANALYSES

Samples were analyzed for BETX by the method identified in the introduction to this report, and were evaluated for the following criteria.

1. Holding Times – Acceptable
2. Initial Calibration – Acceptable
3. Calibration Verification – Acceptable

4. Blanks – Acceptable

   A method blank was prepared with each laboratory sample batch. A trip blank was submitted for each cooler containing VOC samples.

5. Surrogates – Acceptable

6. Laboratory Control Samples (LCS) – Acceptable

7. Laboratory Duplicates – Acceptable

8. Matrix Spike/Matrix Spike Duplicate (MS/MSD) – MS/MSD analyses were not performed with project samples. Sample results are evaluated based on the LCS and LCS duplicates.

9. Field Duplicates – Acceptable

   Field duplicates were not collected in the field. They were collected in the laboratory after the composite samples were ground and homogenized. The composite samples are evaluated under separate SDGs, though they are a part of this sampling event. The field duplicate frequency of 10% was achieved for this sampling event, though field duplicates were not submitted with the samples evaluated in this SDG.

10. Reporting Limits – Acceptable except as noted:

    In the initial analysis of sample RP092306-3, the toluene concentration was greater than the linear range of the instrument and was flagged by the laboratory with a "S". The sample was diluted and reanalyzed. The toluene result should be reported from the reanalysis and no additional data qualifiers are necessary.

OVERALL ASSESSMENT OF DATA

The CAS SDG JX78 is 100 percent complete. The data usability is based on EPA's guidance documents and the QAPP referenced in the introduction to this report. Few problems were identified and analytical performance was generally within specified limits. The data are acceptable and meet the project's data quality objectives.

Sample ID	Qualified Analyte	Qualified Result	Units	Qualifier Reason
RP092306-1	none			
RP092306-2	none			
RP092306-3	none			
Trip Blank	none			

Analytical Resources, Incorporated
Analytical Chemists and Consultants

GEOMATRIX Received SEP 28 2006 SEATTLE

26 September 2006

Larry McGaughey
Geomatrix
600 University, Suite 1020
Seattle, WA 98101

RE: Project No: 8769.006, FRP-East Parcel
ARI Job No: JX78

Dear Larry:

Please find enclosed the chain of custody documentation (COC) and the final results for the samples from the project referenced above. Three soil samples and one trip blank were received intact on September 25, 2006. The samples were analyzed for BETX as requested.

These analyses proceeded without incident of note.

A copy of these reports and all raw data will remain on file with ARI. If you have any questions or require additional information, please contact me at your convenience.

Sincerely,

ANALYTICAL RESOURCES, INC.

Mark D. Harris
Project Manager
206/695-6210
markh@arilabs.com

Enclosures

cc: file JX78

MDH/mdh

Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number: 5X78	Turn-around Requested: overnight	Page: 1 of 1	
ARI Client Company: Geomatrix	Phone: 206 342 1788	Date: 9/23/06	Ice Present? N
Client Contact: Larry McGaughey		No. of Coolers: 1	Cooler Temps: -1.4 (Sample Frozen)
Client Project Name: FRP-East Parcel			
Client Project #: 8769.006	Samplers: J. Marsolek		

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	BTEX 8021								Notes/Comments
RP092306-1	9/23/06	0900		2x40mL 1x2oz jar	X								
RP092306-2	9/23/06	0915		2x40mL 1x2oz	X								
RP092306-3	9/23/06	1035		2x40mL 1x2oz	X								
Trip blank				2	X								

JEM 9/23/06

Comments/Special Instructions	Relinquished by: (Signature)	Received by: (Signature)	Relinquished by: (Signature)	Received by: (Signature)
	Printed Name: Joanna Marsolek	Printed Name: Brian Heuel	Printed Name:	Printed Name:
	Company: Geomatrix	Company: ARI	Company:	Company:
	Date & Time: 9/25/06 0900	Date & Time: 9/25/06 0900	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.

ARI Data Reporting Qualifiers

Effective 11/22/04

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 reporting limit is raised due to a positive chromatographic interference. The compound is not detected above the raised limit but may be present at or below the 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

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
BETX by Method SW8021BMod

Sample ID: MB-092506
METHOD BLANK

Lab Sample ID: MB-092506
LIMS ID: 06-17428
Matrix: Soil
Data Release Authorized:
Reported: 09/26/06

QC Report No: JX78-Geomatrix Consultants, Inc.
Project: FRP-East Parcel
Event: 8769.006
Date Sampled: NA
Date Received: NA

Date Analyzed: 09/25/06 17:30
Instrument/Analyst: PID2/PKC

Purge Volume: 5.0 mL
Sample Amount: 100 mg-dry-wt

CAS Number	Analyte	RL	Result
71-43-2	Benzene	25	< 25 U
108-88-3	Toluene	25	< 25 U
100-41-4	Ethylbenzene	25	< 25 U
	m,p-Xylene	50	< 50 U
95-47-6	o-Xylene	25	< 25 U

BETX Surrogate Recovery

Trifluorotoluene	91.6%
Bromobenzene	104%

BETX values reported in µg/kg (ppb)

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
BETX by Method SW8021BMod

Sample ID: MB-092606
METHOD BLANK

Lab Sample ID: MB-092606
LIMS ID: 06-17430
Matrix: Soil
Data Release Authorized:
Reported: 09/26/06

QC Report No: JX78-Geomatrix Consultants, Inc.
Project: FRP-East Parcel
Event: 8769.006
Date Sampled: NA
Date Received: NA

Date Analyzed: 09/26/06 12:11
Instrument/Analyst: PID2/PKC

Purge Volume: 5.0 mL
Sample Amount: 100 mg-dry-wt

CAS Number	Analyte	RL	Result
71-43-2	Benzene	25	< 25 U
108-88-3	Toluene	25	< 25 U
100-41-4	Ethylbenzene	25	< 25 U
	m,p-Xylene	50	< 50 U
95-47-6	o-Xylene	25	< 25 U

BETX Surrogate Recovery

Trifluorotoluene	100%
Bromobenzene	104%

BETX values reported in µg/kg (ppb)

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
BETX by Method SW8021BMod

Sample ID: RP092306-1
SAMPLE

Lab Sample ID: JX78A
LIMS ID: 06-17428
Matrix: Soil
Data Release Authorized:
Reported: 09/26/06

QC Report No: JX78-Geomatrix Consultants, Inc.
Project: FRP-East Parcel
Event: 8769.006
Date Sampled: 09/23/06
Date Received: 09/25/06

Date Analyzed: 09/25/06 19:13
Instrument/Analyst: PID2/PKC

Purge Volume: 5.0 mL
Sample Amount: 54 mg-dry-wt
Percent Moisture: 28.4%

CAS Number	Analyte	RL	Result
71-43-2	**Benzene**	**46**	**110**
108-88-3	Toluene	46	< 46 U
100-41-4	Ethylbenzene	46	< 46 U
	m,p-Xylene	92	< 92 U
95-47-6	o-Xylene	46	< 46 U

BETX Surrogate Recovery

Trifluorotoluene	87.8%
Bromobenzene	102%

BETX values reported in µg/kg (ppb)

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
BETX by Method SW8021BMod

Sample ID: RP092306-2
SAMPLE

Lab Sample ID: JX78B
LIMS ID: 06-17429
Matrix: Soil
Data Release Authorized:
Reported: 09/26/06

QC Report No: JX78-Geomatrix Consultants, Inc.
Project: FRP-East Parcel
Event: 8769.006
Date Sampled: 09/23/06
Date Received: 09/25/06

Date Analyzed: 09/25/06 19:42
Instrument/Analyst: PID2/PKC

Purge Volume: 5.0 mL
Sample Amount: 57 mg-dry-wt
Percent Moisture: 27.7%

CAS Number	Analyte	RL	Result
71-43-2	Benzene	44	< 44 U
108-88-3	Toluene	44	100
100-41-4	Ethylbenzene	44	< 44 U
	m,p-Xylene	88	< 88 U
95-47-6	o-Xylene	44	< 44 U

BETX Surrogate Recovery

Trifluorotoluene	89.0%
Bromobenzene	97.0%

BETX values reported in µg/kg (ppb)

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
BETX by Method SW8021BMod

Sample ID: RP092306-3
SAMPLE

Lab Sample ID: JX78C
LIMS ID: 06-17430
Matrix: Soil
Data Release Authorized:
Reported: 09/26/06

QC Report No: JX78-Geomatrix Consultants, Inc.
Project: FRP-East Parcel
Event: 8769.006
Date Sampled: 09/23/06
Date Received: 09/25/06

Date Analyzed: 09/25/06 20:12
Instrument/Analyst: PID2/PKC

Purge Volume: 5.0 mL
Sample Amount: 58 mg-dry-wt
Percent Moisture: 27.8%

CAS Number	Analyte	RL	Result	
71-43-2	Benzene	43	120	
108-88-3	Toluene	43		S
100-41-4	Ethylbenzene	43	130	
	m,p-Xylene	86	150	
95-47-6	o-Xylene	43	< 43	U

BETX Surrogate Recovery

Trifluorotoluene	124%
Bromobenzene	110%

BETX values reported in µg/kg (ppb)

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
BETX by Method SW8021BMod

Sample ID: RP092306-3
REANALYSIS

Lab Sample ID: JX78C
LIMS ID: 06-17430
Matrix: Soil
Data Release Authorized:
Reported: 09/26/06

QC Report No: JX78-Geomatrix Consultants, Inc.
Project: FRP-East Parcel
Event: 8769.006
Date Sampled: 09/23/06
Date Received: 09/25/06

Date Analyzed: 09/26/06 12:57
Instrument/Analyst: PID2/PKC

Purge Volume: 5.0 mL
Sample Amount: 0.29 mg-dry-wt
Percent Moisture: 27.8%

CAS Number	Analyte	RL	Result
71-43-2	Benzene	8,600	< 8,600 U
108-88-3	**Toluene**	**8,600**	**530,000**
100-41-4	Ethylbenzene	8,600	< 8,600 U
	m,p-Xylene	17,000	< 17,000 U
95-47-6	o-Xylene	8,600	< 8,600 U

BETX Surrogate Recovery

Trifluorotoluene	105%
Bromobenzene	108%

BETX values reported in µg/kg (ppb)

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
BETX by Method SW8021BMod

Sample ID: TRIP BLANK SAMPLE

Lab Sample ID: JX78D
LIMS ID: 06-17431
Matrix: Water
Data Release Authorized:
Reported: 09/26/06

QC Report No: JX78-Geomatrix Consultants, Inc.
Project: FRP-East Parcel
Event: 8769.006
Date Sampled: 09/23/06
Date Received: 09/25/06

Date Analyzed: 09/25/06 18:14
Instrument/Analyst: PID2/PKC

Purge Volume: 5.0 mL
Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
71-43-2	Benzene	1.0	< 1.0 U
108-88-3	Toluene	1.0	< 1.0 U
100-41-4	Ethylbenzene	1.0	< 1.0 U
	m,p-Xylene	1.0	< 1.0 U
95-47-6	o-Xylene	1.0	< 1.0 U

BETX Surrogate Recovery

Trifluorotoluene	109%
Bromobenzene	110%

BETX values reported in µg/L (ppb)

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
BETX by Method SW8021BMod

Sample ID: LCS-092506
LAB CONTROL SAMPLE

Lab Sample ID: LCS-092506
LIMS ID: 06-17428
Matrix: Soil
Data Release Authorized:
Reported: 09/26/06

QC Report No: JX78-Geomatrix Consultants, Inc.
Project: FRP-East Parcel
Event: 8769.006
Date Sampled: NA
Date Received: NA

Date Analyzed LCS: 09/25/06 16:31
LCSD: 09/25/06 17:00
Instrument/Analyst LCS: PID2/PKC
LCSD: PID2/PKC

Purge Volume: 5.0 mL

Sample Amount LCS: 100 mg-dry-wt
LCSD: 100 mg-dry-wt

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
Benzene	366	410	89.3%	364	410	88.8%	0.5%
Toluene	2970	3340	88.9%	3110	3340	93.1%	4.6%
Ethylbenzene	558	610	91.5%	556	610	91.1%	0.4%
m,p-Xylene	2050	2290	89.5%	2080	2290	90.8%	1.5%
o-Xylene	719	795	90.4%	728	795	91.6%	1.2%

Reported in µg/kg (ppb)

RPD calculated using sample concentrations per SW846.

BETX Surrogate Recovery

	LCS	LCSD
Trifluorotoluene	114%	107%
Bromobenzene	110%	99.8%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
BETX by Method SW8021BMod

Sample ID: LCS-092606
LAB CONTROL SAMPLE

Lab Sample ID: LCS-092606
LIMS ID: 06-17430
Matrix: Soil
Data Release Authorized:
Reported: 09/26/06

QC Report No: JX78-Geomatrix Consultants, Inc.
Project: FRP-East Parcel
Event: 8769.006
Date Sampled: NA
Date Received: NA

Date Analyzed LCS: 09/26/06 11:12
LCSD: 09/26/06 11:42
Instrument/Analyst LCS: PID2/PKC
LCSD: PID2/PKC

Purge Volume: 5.0 mL

Sample Amount LCS: 100 mg-dry-wt
LCSD: 100 mg-dry-wt

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
Benzene	374	410	91.2%	368	410	89.8%	1.6%
Toluene	3240	3340	97.0%	3220	3340	96.4%	0.6%
Ethylbenzene	602	610	98.7%	581	610	95.2%	3.6%
m,p-Xylene	2170	2290	94.8%	2100	2290	91.7%	3.3%
o-Xylene	760	795	95.6%	741	795	93.2%	2.5%

Reported in µg/kg (ppb)

RPD calculated using sample concentrations per SW846.

BETX Surrogate Recovery

	LCS	LCSD
Trifluorotoluene	121%	116%
Bromobenzene	114%	107%

Chain of Custody Documentation

Prepared
for

Geomatrix Consultants

Project: FRP , 8769.006

ARI Job No: JX78

Prepared
By

Analytical Resources, Inc.

Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number: JXFP	Turn-around Requested: overnight	Page: 1 of 1	
ARI Client Company: Geomatrix	Phone: 206 342 1788	Date: 9/23/06	Ice Present? N
Client Contact: Larry McGaughey		No. of Coolers: 1	Cooler Temps: -1 (Sampler Error)
Client Project Name: FRP-East Parcel			
Client Project #: 8769.006	Samplers: J. Marsolek		

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: BTEX 8021								Notes/Comments
RP092306-1	9/23/06	0900		2x40mL VOA 1x2oz jar	X								
RP092306-2	9/23/06	0915		2x40mL 1x2oz	X								
RP092306-3	9/23/06	1035		2x40mL 1x2oz	X								
Trip blank				2	X								

JEM 9/23/06

Comments/Special Instructions	Relinquished by: (Signature)	Received by: (Signature)	Relinquished by: (Signature)	Received by: (Signature)
	Printed Name: Joanna Marsolek	Printed Name: Brian Kegel	Printed Name:	Printed Name:
	Company: Geomatrix	Company: ARI	Company:	Company:
	Date & Time: 9/25/06 0900	Date & Time: 9/25/06 0900	Date & Time:	Date & Time:

0002

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.

Cooler Receipt Form

ANALYTICAL RESOURCES INCORPORATED

ARI Client: GMX
Project Name: FRP - East Parcel
COC NO.: —
Delivered By: Hand
Tracking NO.: —
Date: 9/25/02
ARI Job No.: JX78
Lims NO.: 02-17428 — 02-17431

Preliminary Examination Phase:

1. Were intact, properly signed and dated custody seals attached To the outside of the cooler? ..... YES (NO)
2. Were custody papers included with the cooler ..... (YES) NO
3. Were custody papers properly filled out (ink, signed etc.)? ..... (YES) NO
4. Complete custody forms and attach all shipping documents ..... (OK) NA

Cooler Accepted BY: [signature] Date: 9/25/02 Time: 0900

Log-IN Phase:

5. Was a temperature blank include in the cooler? ..... YES (NO)
6. Record Cooler Temperature ..... -1.8 °C
7. What kind of packing material was used? ..... Bu/SB
8. Was sufficient ice used (if appropriate)? ..... YES (NO)
9. Were all bottles sealed in separate plastic bags? ..... YES (NO)
10. Did all bottles arrive in good condition (unbroken)? ..... YES NO
11. Were all bottle labels complete and legible? ..... (YES) NO
12. Did all bottle labels and tags agree with custody papers? ..... (YES) NO
13. Were all bottles used correct for the requested analyses? ..... (YES) NO
14. Do any of the analyses (bottles) require preservative? (If so, Preservation checklist must be attached) ..... YES (NO)
15. Were all VOA vials free of air bubbles? ..... (YES) NO
16. Was sufficient amount of sample sent in each bottle? ..... (YES) NO
17. Notify Project Manager of any discrepancies or concerns ..... (OK) NA

Cooler Opened By: [signature] Date: 9/25/02 Time: 0900

Explain any discrepancies or negative responses:

Case Narrative

Prepared
for

Geomatrix Consultants

Project: FRP , 8769.006

ARI Job No: JX78

Prepared
By

Analytical Resources, Inc.

Analytical Resources, Incorporated
Analytical Chemists and Consultants

26 September 2006

Larry McGaughey
Geomatrix
600 University, Suite 1020
Seattle, WA 98101

RE: Project No: 8769.006, FRP-East Parcel
ARI Job No: JX78

Dear Larry:

Please find enclosed the chain of custody documentation (COC) and the final results for the samples from the project referenced above. Three soil samples and one trip blank were received intact on September 25, 2006. The samples were analyzed for BETX as requested.

These analyses proceeded without incident of note.

A copy of these reports and all raw data will remain on file with ARI. If you have any questions or require additional information, please contact me at your convenience.

Sincerely,

ANALYTICAL RESOURCES, INC.

Mark D. Harris
Project Manager
206/695-6210
markh@arilabs.com

Enclosures

cc: file JX78

MDH/mdh

Data Summary Package

Prepared
for

Geomatrix Consultants

Project: FRP , 8769.006

ARI Job No: JX78

Prepared
By

Analytical Resources, Inc.

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
BETX by Method SW8021BMod

Sample ID: RP092306-1
SAMPLE

Lab Sample ID: JX78A
LIMS ID: 06-17428
Matrix: Soil
Data Release Authorized:
Reported: 09/26/06

QC Report No: JX78-Geomatrix Consultants, Inc.
Project: FRP-East Parcel
Event: 8769.006
Date Sampled: 09/23/06
Date Received: 09/25/06

Date Analyzed: 09/25/06 19:13
Instrument/Analyst: PID2/PKC

Purge Volume: 5.0 mL
Sample Amount: 54 mg-dry-wt
Percent Moisture: 28.4%

CAS Number	Analyte	RL	Result
71-43-2	Benzene	46	110
108-88-3	Toluene	46	< 46 U
100-41-4	Ethylbenzene	46	< 46 U
	m,p-Xylene	92	< 92 U
95-47-6	o-Xylene	46	< 46 U

BETX Surrogate Recovery

Trifluorotoluene	87.8%
Bromobenzene	102%

BETX values reported in µg/kg (ppb)

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
BETX by Method SW8021BMod

Sample ID: RP092306-2
SAMPLE

Lab Sample ID: JX78B
LIMS ID: 06-17429
Matrix: Soil
Data Release Authorized:
Reported: 09/26/06

QC Report No: JX78-Geomatrix Consultants, Inc.
Project: FRP-East Parcel
Event: 8769.006
Date Sampled: 09/23/06
Date Received: 09/25/06

Date Analyzed: 09/25/06 19:42
Instrument/Analyst: PID2/PKC

Purge Volume: 5.0 mL
Sample Amount: 57 mg-dry-wt
Percent Moisture: 27.7%

CAS Number	Analyte	RL	Result
71-43-2	Benzene	44	< 44 U
108-88-3	**Toluene**	**44**	**100**
100-41-4	Ethylbenzene	44	< 44 U
	m,p-Xylene	88	< 88 U
95-47-6	o-Xylene	44	< 44 U

BETX Surrogate Recovery

Trifluorotoluene	89.0%
Bromobenzene	97.0%

BETX values reported in µg/kg (ppb)

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
BETX by Method SW8021BMod
Page 1 of 1

Sample ID: RP092306-3
SAMPLE

Lab Sample ID: JX78C
LIMS ID: 06-17430
Matrix: Soil
Data Release Authorized:
Reported: 09/26/06

QC Report No: JX78-Geomatrix Consultants, Inc.
Project: FRP-East Parcel
Event: 8769.006
Date Sampled: 09/23/06
Date Received: 09/25/06

Date Analyzed: 09/25/06 20:12
Instrument/Analyst: PID2/PKC

Purge Volume: 5.0 mL
Sample Amount: 58 mg-dry-wt
Percent Moisture: 27.8%

CAS Number	Analyte	RL	Result
71-43-2	Benzene	43	120
108-88-3	Toluene	43	S
100-41-4	Ethylbenzene	43	130
	m,p-Xylene	86	150
95-47-6	o-Xylene	43	< 43 U

BETX Surrogate Recovery

Trifluorotoluene	124%
Bromobenzene	110%

BETX values reported in µg/kg (ppb)

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
BETX by Method SW8021BMod

Sample ID: RP092306-3
REANALYSIS

Lab Sample ID: JX78C
LIMS ID: 06-17430
Matrix: Soil
Data Release Authorized:
Reported: 09/28/06

QC Report No: JX78-Geomatrix Consultants, Inc.
Project: FRP-East Parcel
Event: 8769.006
Date Sampled: 09/23/06
Date Received: 09/25/06

Date Analyzed: 09/26/06 12:57
Instrument/Analyst: PID2/PKC

Purge Volume: 5.0 mL
Sample Amount: 0.29 mg-dry-wt
Percent Moisture: 27.8%

CAS Number	Analyte	RL	Result
71-43-2	Benzene	8,600	< 8,600 U
108-88-3	**Toluene**	**8,600**	**530,000**
100-41-4	Ethylbenzene	8,600	< 8,600 U
	m,p-Xylene	17,000	< 17,000 U
95-47-6	o-Xylene	8,600	< 8,600 U

BETX Surrogate Recovery

Trifluorotoluene	105%
Bromobenzene	108%

BETX values reported in µg/kg (ppb)

FORM I

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
BETX by Method SW8021BMod

Sample ID: TRIP BLANK SAMPLE

Lab Sample ID: JX78D
LIMS ID: 06-17431
Matrix: Water
Data Release Authorized:
Reported: 09/26/06

QC Report No: JX78-Geomatrix Consultants, Inc.
Project: FRP-East Parcel
Event: 8769.006
Date Sampled: 09/23/06
Date Received: 09/25/06

Date Analyzed: 09/25/06 18:14
Instrument/Analyst: PID2/PKC

Purge Volume: 5.0 mL
Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
71-43-2	Benzene	1.0	< 1.0 U
108-88-3	Toluene	1.0	< 1.0 U
100-41-4	Ethylbenzene	1.0	< 1.0 U
	m,p-Xylene	1.0	< 1.0 U
95-47-6	o-Xylene	1.0	< 1.0 U

BETX Surrogate Recovery

Trifluorotoluene	109%
Bromobenzene	110%

BETX values reported in µg/L (ppb)

FORM I

ANALYTICAL RESOURCES INCORPORATED

BETX SOIL SURROGATE RECOVERY SUMMARY

ARI Job: JX78
Matrix: Soil

QC Report No: JX78-Geomatrix Consultants, Inc.
Project: FRP-East Parcel
Event: 8769.006

Client ID	TFT	BBZ	TOT OUT
MB-092506	91.6%	104%	0
LCS-092506	114%	110%	0
LCSD-092506	107%	99.8%	0
RP092306-1	87.8%	102%	0
RP092306-2	89.0%	97.0%	0
MB-092606	100%	104%	0
LCS-092606	121%	114%	0
LCSD-092606	116%	107%	0
RP092306-3	124%	110%	0
RP092306-3 DL	105%	108%	0

	LCS/MB LIMITS	QC LIMITS
(TFT) = Trifluorotoluene	(82-128)	(53-147)
(BBZ) = Bromobenzene	(82-123)	(60-153)

Log Number Range: 06-17428 to 06-17430

FORM II BETX

ANALYTICAL RESOURCES INCORPORATED

BETX WATER SURROGATE RECOVERY SUMMARY

ARI Job: JX78
Matrix: Water

QC Report No: JX78-Geomatrix Consultants, Inc.
Project: FRP-East Parcel
Event: 8769.006

Client ID	TFT	BBZ	TOT OUT
TRIP BLANK	109%	110%	0

	LCS/MB LIMITS	QC LIMITS
(TFT) = Trifluorotoluene	(80-126)	(72-124)
(BBZ) = Bromobenzene	(81-119)	(79-119)

Log Number Range: 06-17431 to 06-17431

FORM II BETX

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
BETX by Method SW8021BMod

Sample ID: LCS-092506
LAB CONTROL SAMPLE

Lab Sample ID: LCS-092506
LIMS ID: 06-17428
Matrix: Soil
Data Release Authorized:
Reported: 09/26/06

QC Report No: JX78-Geomatrix Consultants, Inc.
Project: FRP-East Parcel
Event: 8769.006
Date Sampled: NA
Date Received: NA

Date Analyzed LCS: 09/25/06 16:31
LCSD: 09/25/06 17:00
Instrument/Analyst LCS: PID2/PKC
LCSD: PID2/PKC

Purge Volume: 5.0 mL

Sample Amount LCS: 100 mg-dry-wt
LCSD: 100 mg-dry-wt

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
Benzene	366	410	89.3%	364	410	88.8%	0.5%
Toluene	2970	3340	88.9%	3110	3340	93.1%	4.6%
Ethylbenzene	558	610	91.5%	556	610	91.1%	0.4%
m,p-Xylene	2050	2290	89.5%	2080	2290	90.8%	1.5%
o-Xylene	719	795	90.4%	728	795	91.6%	1.2%

Reported in µg/kg (ppb)

RPD calculated using sample concentrations per SW846.

BETX Surrogate Recovery

	LCS	LCSD
Trifluorotoluene	114%	107%
Bromobenzene	110%	99.8%

FORM III

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
BETX by Method SW8021BMod

Sample ID: LCS-092606
LAB CONTROL SAMPLE

Lab Sample ID: LCS-092606
LIMS ID: 06-17430
Matrix: Soil
Data Release Authorized:
Reported: 09/28/06

QC Report No: JX78-Geomatrix Consultants, Inc.
Project: FRP-East Parcel
Event: 8769.006
Date Sampled: NA
Date Received: NA

Date Analyzed LCS: 09/26/06 11:12
LCSD: 09/26/06 11:42
Instrument/Analyst LCS: PID2/PKC
LCSD: PID2/PKC

Purge Volume: 5.0 mL

Sample Amount LCS: 100 mg-dry-wt
LCSD: 100 mg-dry-wt

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
Benzene	374	410	91.2%	368	410	89.8%	1.6%
Toluene	3240	3340	97.0%	3220	3340	96.4%	0.6%
Ethylbenzene	602	610	98.7%	581	610	95.2%	3.6%
m,p-Xylene	2170	2290	94.8%	2100	2290	91.7%	3.3%
o-Xylene	760	795	95.6%	741	795	93.2%	2.5%

Reported in µg/kg (ppb)

RPD calculated using sample concentrations per SW846.

BETX Surrogate Recovery

	LCS	LCSD
Trifluorotoluene	121%	116%
Bromobenzene	114%	107%

FORM III

BETX/GAS METHOD BLANK SUMMARY

BLANK NO.

MB092506S1

Lab Name: ANALYTICAL RESOURCES, INC

Client: GEOMATRIX

SDG No.: JX78

Project No.: FRP-EAST PARCEL

Date Analyzed : 09/25/06

Matrix: SOIL

Time Analyzed : 1730

Instrument ID : PID2

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS, and MSD:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED
01	LCS092506S1	LCS092506S1	09/25/06
02	LCSD092506S1	LCSD092506S1	09/25/06
03	TRIP BLANK	JX78D	09/25/06
04	RP092306-1	JX78A	09/25/06
05	RP092306-2	JX78B	09/25/06
06	RP092306-3	JX78C	09/25/06
07			
08			
09			
10			
11			
12			
13			
14			
15			
16			
17			
18			
19			
20			
21			
22			
23			
24			
25			
26			
27			
28			
29			
30			

FORM IV BETX/GAS

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
BETX by Method SW8021BMod

Sample ID: MB-092506
METHOD BLANK

Lab Sample ID: MB-092506
LIMS ID: 06-17428
Matrix: Soil
Data Release Authorized:
Reported: 09/26/06

QC Report No: JX78-Geomatrix Consultants, Inc.
Project: FRP-East Parcel
Event: 8769.006
Date Sampled: NA
Date Received: NA

Date Analyzed: 09/25/06 17:30
Instrument/Analyst: PID2/PKC

Purge Volume: 5.0 mL
Sample Amount: 100 mg-dry-wt

CAS Number	Analyte	RL	Result
71-43-2	Benzene	25	< 25 U
108-88-3	Toluene	25	< 25 U
100-41-4	Ethylbenzene	25	< 25 U
	m,p-Xylene	50	< 50 U
95-47-6	o-Xylene	25	< 25 U

BETX Surrogate Recovery

Trifluorotoluene	91.6%
Bromobenzene	104%

BETX values reported in µg/kg (ppb)

FORM I

Analytical Resources, Incorporated
Analytical Chemists and Consultants

26 September 2006

Larry McGaughey
Geomatrix
600 University, Suite 1020
Seattle, WA 98101

RE: Project No: 8769.006, FRP-East Parcel
ARI Job No: JX78

Dear Larry:

Please find enclosed the chain of custody documentation (COC) and the final results for the samples from the project referenced above. Three soil samples and one trip blank were received intact on September 25, 2006. The samples were analyzed for BETX as requested.

These analyses proceeded without incident of note.

A copy of these reports and all raw data will remain on file with ARI. If you have any questions or require additional information, please contact me at your convenience.

Sincerely,

ANALYTICAL RESOURCES, INC.

Mark D. Harris
Project Manager
206/695-6210
markh@arilabs.com

Enclosures

cc: file JX78

MDH/mdh

BETX/GAS METHOD BLANK SUMMARY

BLANK NO.

MB092606S1

Lab Name: ANALYTICAL RESOURCES, INC Client: GEOMATRIX

SDG No.: JX78 Project No.: FRP-EAST PARCEL

Date Analyzed : 09/26/06 Matrix: SOIL

Time Analyzed : 1211 Instrument ID : PID2

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS, and MSD:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED
01	LCS092606S1	LCS092606S1	09/26/06
02	LCSD092606S1	LCSD092606S1	09/26/06
03	RP092306-3	JX78C	09/26/06
04			
05			
06			
07			
08			
09			
10			
11			
12			
13			
14			
15			
16			
17			
18			
19			
20			
21			
22			
23			
24			
25			
26			
27			
28			
29			
30			

FORM IV BETX/GAS

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
BETX by Method SW8021BMod

Sample ID: MB-092606
METHOD BLANK

Lab Sample ID: MB-092606
LIMS ID: 06-17430
Matrix: Soil
Data Release Authorized:
Reported: 09/28/06

QC Report No: JX78-Geomatrix Consultants, Inc.
Project: FRP-East Parcel
Event: 8769.006
Date Sampled: NA
Date Received: NA

Date Analyzed: 09/26/06 12:11
Instrument/Analyst: PID2/PKC

Purge Volume: 5.0 mL
Sample Amount: 100 mg-dry-wt

CAS Number	Analyte	RL	Result
71-43-2	Benzene	25	< 25 U
108-88-3	Toluene	25	< 25 U
100-41-4	Ethylbenzene	25	< 25 U
	m,p-Xylene	50	< 50 U
95-47-6	o-Xylene	25	< 25 U

BETX Surrogate Recovery

Trifluorotoluene	100%
Bromobenzene	104%

BETX values reported in µg/kg (ppb)

FORM I

Laboratory Data Package

Prepared
for

Geomatrix Consultants

Project: FRP , 8769.006

ARI Job No: JX78

Prepared
By

Analytical Resources, Inc.

ARI Data Reporting Qualifiers

Effective 11/22/04

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 reporting limit is raised due to a positive chromatographic interference. The compound is not detected above the raised limit but may be present at or below the 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

TOTAL SOLIDS

BETX/TPHG Total Solids-betxts
Data By: Paul K. Campbell
Created: 9/26/06

Worklist: 3948
Analyst: PKC
Comments:

ARI ID	Tare Wt (g)	Wet Wt (g)	Dry Wt (g)	% Solids
1. JX78A 06-17428	1.02	12.08	8.94	71.6
2. JX78B 06-17429	1.11	11.94	8.94	72.3
3. JX78C 06-17430	1.02	15.68	11.61	72.2

Worklist ID: 3948 Page: 1
* - BETX TS Copied From VOA TS
% - BETX TS Copied From Metals TS
$ - BETX TS Copied From Extraction TS